

AD-A095 803

HENNINGSON DURHAM AND RICHARDSON SANTA BARBARA CA F/G 16/1  
M-X ENVIRONMENTAL TECHNICAL REPORT. INDIRECT EFFECTS INDEX FOR --ETC(U)  
DEC 80 F04704-78-C-0029

UNCLASSIFIED

M-X-ETR-30

AFSC-TR-81-45

NL

1 of 1  
AD-A095 803

END  
DATE  
FILMED  
3 81  
DTIC

LEVEL II

13

AD A 095803

M-X

ENVIRONMENTAL  
TECHNICAL REPORT

ETR 30  
INDIRECT EFFECTS

DISTRIBUTION STATEMENT A

Approved for public release;  
Distribution Unlimited

DTIC  
ELECTE

MAR 3 1981

D

81 3 2 004

DEC FILE COPY

## **DISCLAIMER NOTICE**

**THIS DOCUMENT IS BEST QUALITY  
PRACTICABLE. THE COPY FURNISHED  
TO DTIC CONTAINED A SIGNIFICANT  
NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.**

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

| 19 REPORT DOCUMENTATION PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | READ INSTRUCTIONS<br>BEFORE COMPLETING FORM                                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------|--|
| 1. REPORT NUMBER<br>AFSC TR-81-45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2. GOVT ACCESSION NO.<br>AD-A095 803 | 3. RECIPIENT'S CATALOG NUMBER                                                    |  |
| 4. TITLE (and Subtitle)<br>M-X Environmental Technical Report,<br>Indirect Effects Index for Impact Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 5. TYPE OF REPORT & PERIOD COVERED<br>Final Report.                              |  |
| 7. AUTHOR(s)<br>(14) M-X-ETR-3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | 8. CONTRACT OR GRANT NUMBER(s)<br>(15) F04704-78-C-0029                          |  |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS<br>Henningson, Durham and Richardson<br>Santa Barbara CA 93010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      | 10. PROGRAM ELEMENT, PROJECT, TASK<br>AREA & WORK UNIT NUMBERS<br>64312F (12) 84 |  |
| 11. CONTROLLING OFFICE NAME AND ADDRESS<br>Ballistic Missile Office<br>Norton AFB CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      | 12. REPORT DATE<br>22 Dec 80                                                     |  |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | 13. NUMBER OF PAGES<br>80                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | 15. SECURITY CLASS. (of this report)<br>Unclassified                             |  |
| 16. DISTRIBUTION STATEMENT (of this Report)<br>Unclassified/Unlimited                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      | 15a. DECLASSIFICATION/DOWNGRADING<br>SCHEDULE                                    |  |
| 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |                                                                                  |  |
| 18. SUPPLEMENTARY NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                                                                  |  |
| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)<br>MX Indirect Socioeconomic Impacts<br>Siting Analysis Nevada<br>Environmental Report Utah                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                                                                                  |  |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br>Many impacts of development projects are caused not by the construction or operation or the project itself but by the long or short term population increases associated with the project. These indirect impacts would include increased pressure on hunting, fishing and other recreational resources, extension of urbanized areas, and pressure on school and municipal services and cannot be easily predicted. A model to estimate these indirect impacts has been developed to assess effects of population (continued on reverse) |                                      |                                                                                  |  |

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

growth on recreation and use of natural landscape.

The model developed and a preliminary validation of it are discussed. The model is applied to analysis of potential indirect impacts of Operating Base (OB) sites in the Nevada/Utah M-X project area. Five sites have been selected for possible OB sites in seven alternative combinations of two bases each. The model is used to evaluate the potential indirect effects of the base pairs in each alternative.

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

M-X ETR-30

**M-X ENVIRONMENTAL TECHNICAL REPORT:  
INDIRECT EFFECTS INDEX  
FOR IMPACT ANALYSIS**

|                      |                                            |
|----------------------|--------------------------------------------|
| <b>Accession For</b> |                                            |
| NTIS GRA&I           | <input checked="checked" type="checkbox"/> |
| DTIC TAB             | <input type="checkbox"/>                   |
| Unannounced          | <input type="checkbox"/>                   |
| Justification        |                                            |
| By                   |                                            |
| Distribution/        |                                            |
| Availability Codes   |                                            |
| Dist                 | Avail and/or<br>Special                    |
| A                    | 23                                         |

**Prepared For**

**United States Air Force  
Ballistic Missile Office  
Norton Air Force Base, California**

**By**

**HDR Sciences  
Santa Barbara, California**

**22 December 1980**

**DTIC  
ELECTE  
MAR 3 1981  
S D**

**DISTRIBUTION STATEMENT A**

**Approved for public release;  
Distribution Unlimited**

## TABLE OF CONTENTS

|                                            | <u>PAGE</u> |
|--------------------------------------------|-------------|
| Indirect Effects Index for Impact Analysis | 1           |
| The Model                                  | 1           |
| Assumptions                                | 1           |
| Validation                                 | 5           |
| Analysis of OB Siting Alternatives         | 7           |
| Input Data                                 | 7           |
| Results                                    | 9           |
| Conclusions and Disclaimers                | 9           |
| Bibliography                               | 22          |
| Appendix I                                 | I-1         |
| Appendix II                                | II-1        |

## LIST OF FIGURES

| <u>NO.</u> |                                                                                                                                                                           | <u>PAGE</u> |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1          | Effect index plotted against distance from hypothetical population centers. The curves from top to botom reflect populations of 20,000, 15,000, 10,000, and 5,000 people. | 3           |
| 2          | Effect indexes of two hypothetical population centers 100 miles apart, Base A: 20,000 people; Base B: 15,000 people. The combined index is given by equation 2 in text.   | 4           |

## LIST OF TABLES

| <u>NO.</u> |                                                                                                                              | <u>PAGE</u> |
|------------|------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1          | Regression equations and some statistics pertaining to prediction of anglers and anglerdays from effect index.               | 6           |
| 2          | OB site long-term population.                                                                                                | 8           |
| 3          | Effect index of basing alternatives on Great Basin valleys.                                                                  | 10          |
| 4          | Effect index of basing alternatives on Great Basin valleys.                                                                  | 11          |
| 5          | Effect index of basing alternatives on Great Basin valleys.                                                                  | 12          |
| 6          | Effect index of basing alternatives on Great Basin valleys.                                                                  | 13          |
| 7          | Effect index of basing alternatives on Great Basin valleys.                                                                  | 14          |
| 8          | Effect index of basing alternatives on Great Basin valleys.                                                                  | 15          |
| 9          | Effect index of basing alternatives on Great Basin valleys.                                                                  | 16          |
| 10         | Combined average effect index of basing alternatives on Great Basin valleys.                                                 | 17          |
| 11         | Great Basin valleys ranked in order of mean effect index greater than 10000.0.                                               | 17          |
| 12         | Ranking of OB alternatives by mean, effect index E, and standard deviation about mean E for 74 hydrologic subunits.          | 18          |
| 13         | Subjective ranking of OB siting alternatives with respect to several resources. Predicted impact increases with rank.        | 19          |
| 14         | Alternatives in order and their subjective rankings with respect to several resources. Predicted impact increases with rank. | 20          |

## INDIRECT EFFECTS INDEX FOR IMPACT ANALYSIS

Many impacts of development projects are caused not by the construction or operation or the project itself but by the long or short term population increases associated with the project. These indirect impacts would include increased pressure on hunting, fishing and other recreational resources, extension of urbanized areas, and pressure on school and municipal services and cannot be easily predicted. A model to estimate these indirect impacts has been developed to assess effects of population growth on recreation and use of natural landscape. Community infrastructure effects were addressed separately (ETR-27, ETR-28, ETR-29).

Dyer and Whaley (1968) developed a model for predicting use of recreation sites. They attempted to account for distance from origin to recreation site, competing facilities, degree of urbanization of origin, age, occupation and income of the people. Regression models using parts of their general model were able to account for up to 74 percent of the variance about predictions of stream use, and 57 percent of the variance about prediction of campground use.

However, a regression model is inadequate for prediction of future use if no history of use is available. It is possible to develop a theoretical model that will be sensitive to population levels and distribution of impacts about population centers. Impacts around population centers are expected to decrease with distance and two general distributions are most frequently used: gravity models and normal distributions. Gravity models are based on the assumption that influence of a population center falls off as the inverse square of distance (Reilly 1929, Huff 1963). These models can be modified to incorporate intervening opportunities. This analysis is founded on the assumption that recreation impacts about a population center would be normally distributed with distance, rather than an inverse square relation.

The model developed and a preliminary validation of it are discussed below. The model is applied to analysis of potential indirect impacts of Operating Base (OB) sites in the Nevada/Utah M-X project area. Five sites have been selected for possible OB sites in seven alternative combinations of two bases each. The model is used to evaluate the potential indirect effects of the base pairs in each alternative.

### THE MODEL

#### Assumptions

The model is based on the general assumption that all measurable impacts would be normally distributed about the OB centers. That is, one would expect a bell-shaped distribution of impacts. Second, it is assumed that most of the impact would occur within 100 air miles from the OB site. Third, the degree of impact is proportional to the population of the OB site. And finally, certain resources attract more people than others. That is, people are willing to travel farther to visit some areas than others. The model takes these assumptions into account.

The model gives an index of effect described by a nonlinear function of distance that is a modified form of the Normal ( $\mu, \sigma$ ) density function. This model has a mean of zero and a standard deviation of 35. Thus, approximately 68 percent of the population-related indirect impacts would occur within 35 mi (one standard

deviation), 95 percent of the impacts would occur within 70 mi, and 99 percent of the impact related to a given OB site within 105 mi.

The function is adjusted to OB population levels by the simple expedient of multiplying the normalized function by the OB population. A perhaps more realistic approach would have been to quantify the population density (humans per hectare), and model that population density directly. However, for several reasons, this procedure was not possible and would have required many more assumptions that could not be validated. The function developed is an index relating the distribution of the population impacts to population size, but cannot be construed as an estimate of the population density at any point. This approach gives an effect index that varies by many orders of magnitude. Close to the population center of say 20,000 people, the index will approach 20,000, and will approach 0 at the 4th standard deviation from the population center.

It is also necessary to account for the attractiveness of resources. This is easily done by multiplying the standard deviation,  $\sigma$ , by a factor, called the appeal rating, which takes values of 1, 2, or 3 and is based on travel distance to the resource. If a resource has an appeal such that a person would travel up to 200 mi solely to visit it, it would be given an appeal rating of 2. If a person would travel 300 mi or more to visit that resource, then the appeal rating is 3. Otherwise the appeal rating is 1. This has the effect of doubling or tripling the spread of the function. The appeal rating is relatively easy to assess. Lake Mead, for example, has an obvious appeal rating of 3 since many people travel up to 300 mi to use Lake Mead's recreational resources. Wheeler Peak has been assigned an appeal rating on 2 but if it should become part of a national park and thus receive greater publicity, the rating might be upgraded. Specific appeal indices are included in Appendix II.

### The Equations

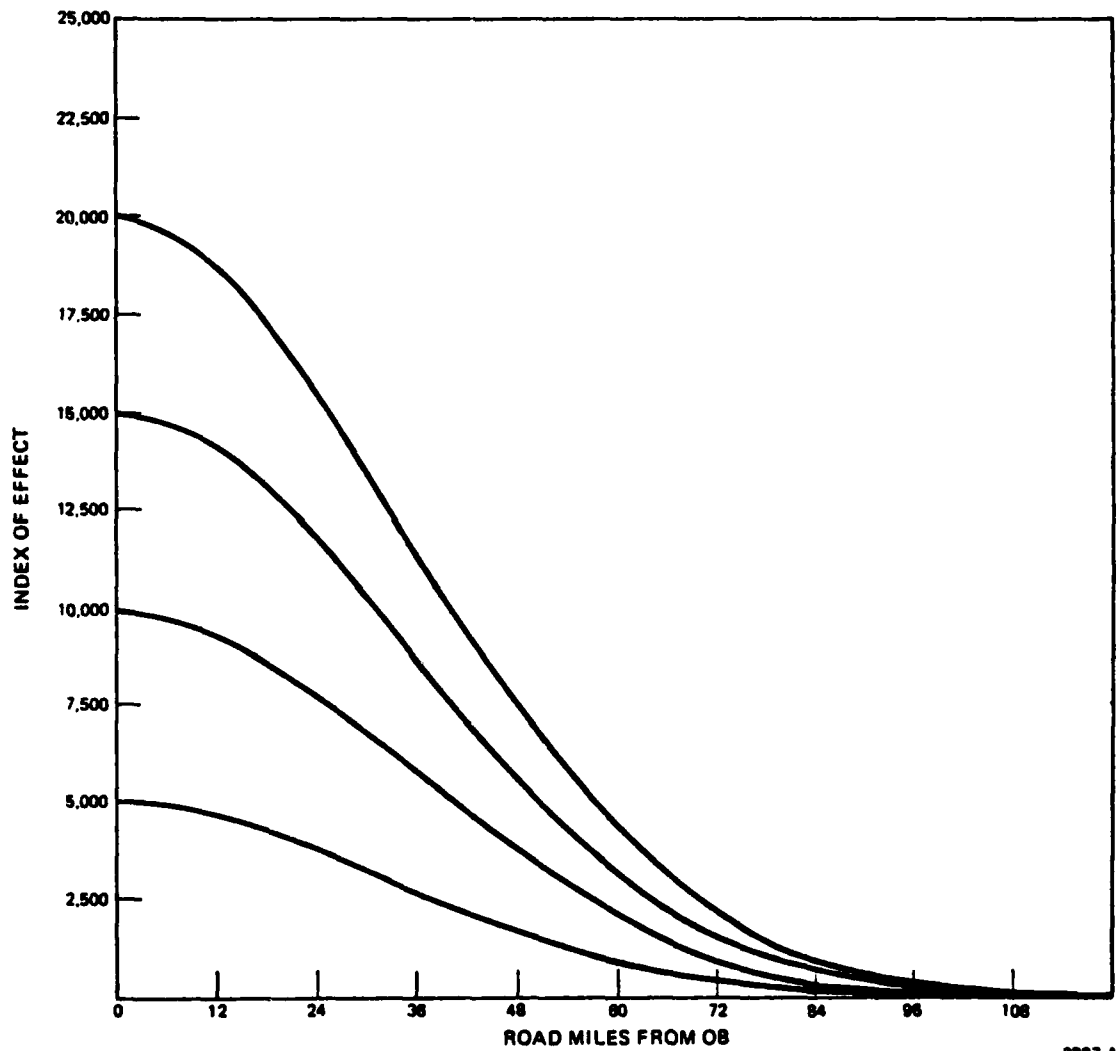
The effect index for a single population center  $j$  on resource  $i$  is given by equation 1 below:

$$E_{ij} = \exp \left[ -\frac{1}{2} \left( \frac{x_{ij} - \mu}{\sigma A_i} \right)^2 \right] P_j \quad (1)$$

where

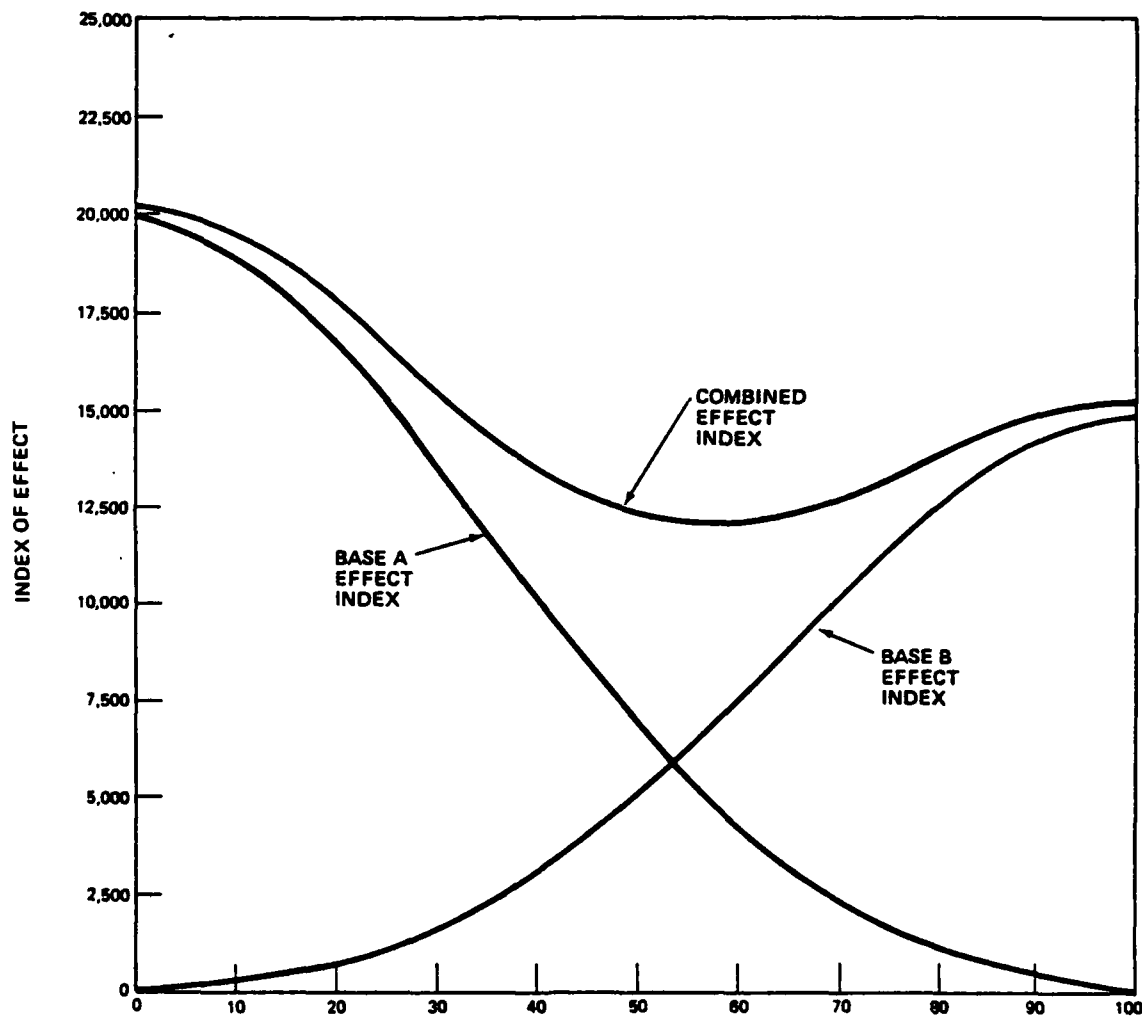
- $E_{ij}$  = Effect index of OB  $j$  on resource  $i$ .
- $x_{ij}$  = Distance from OB site  $j$  to resource  $i$ .
- $\mu$  = Mean of distribution ( $\mu = 0$ ).
- $\sigma$  = Primary standard deviation of the function ( $\sigma = 35$ ).
- $P_j$  = Long term population of OB.
- $A_i$  = Appeal rating

Equation 1, evaluated for several population levels and 120 mi is illustrated in Figure 1. Because the basing alternatives call for two bases, it is possible that their influence will overlap. This is given by evaluating equation 1 for both OB sites and summing (Figure 2). A combined effect index using the mean distance (equation 2) is used for most of the analyses discussed below:



3337-A

Figure 1. Effect index plotted against distance from hypothetical population centers. The curves from top to bottom reflect populations of 20,000, 15,000, 10,000 and 5,000 people.



3338-A

Figure 2. Effect indexes of two hypothetical population centers 100 miles apart, Base A: 20,000 people; Base B: 15,000 people. The combined index is given by equation 2 in text.

$$E_{ik} = \sum_{j=1}^2 \exp \left[ - \frac{1}{2} \left( \frac{\bar{X}_{ij} - \mu}{\sigma A_i} \right)^2 \right] P_j \quad (2)$$

where

$E_{ik}$  = Combined effect index of Alternative k on resource i.

$i_j$  = Mean distance of resource i from OB siting.

All other symbols same as in equation (1).

As pointed out above, this index is an ordinal ranking index for use in estimating the relative impacts of a given population center on a specific resource. While the numbers vary by many orders of magnitude, a difference of 5 orders of magnitude implies that the site with the higher value will be more heavily impacted but does not imply that one site is 5 times as heavily impacted as another. In fact, it may well be that only very large effect indexes are significant for most resources. Perhaps the best way to view the effect index is as an independent variable in regression analysis. This is discussed below.

## VALIDATION

The model was tested using the results of a survey of fishing preferences by the State of Nevada (Anon. 1979). These data provided estimates of the number of anglers, angler days, and county of origin. Appeal ratings were assigned to 69 streams and 60 lakes and effect indices were computed for each fishing site relative to home county using equation (1). These raw data are given in Appendix 1.

The appeal rating of the specific resource was initially assigned without reference to the perceived appeal of the user. Appeal was ranked on a relative use criteria, using all fishing data aggregated. Resource rank was assigned as follows: (1) resources with users from only one county; (2) resource sites with users from more than one county and with no county contributing more than 1,000 anglers, and (3) resource sites with one or more counties contributing more than 1,000 anglers to the angler use total. Through initial analysis it was found that the assumption of appeal index assignment without regard to the availability of a like-resource near the population source did not accurately reflect user preference. The appeal ratings were then modified to more closely reflect county by county use data. No hard and fast criteria, like those initially used, were set. Appeal ratings were varied by inspecting raw use data and calculated residual values, as well as the knowledge of local resource availabilities. Further modification of appeal indices, based on attempts to minimize residual values, did not enhance the predictive value of the model or statistical significance of results.

Stepwise regressions were run on the data using models:  $y = a + bE + cE^2 + dE^3$ . The regression coefficients and some statistics are given in Table 1. The effect index alone was sufficient to account for up to 65 percent of the variance about the prediction of number of anglers on a given stream or lake. A distance times effect index cross product was included to predict angler days from effect index. The rationale for this step was that people would be more inclined to camp at more distant sites, giving a larger ratio of angler days to anglers.

Equations 4-8 in Table 1 were obtained by adjusting the appeal rating for intervening opportunities. Fishermen tend not to bypass nearby high appeal streams

Table 1. Regression equations and some statistics pertaining to prediction of anglers and anglerdays from effect index.

| EQUATION                                                          | F RATIO  | R <sup>2</sup> |
|-------------------------------------------------------------------|----------|----------------|
| 1. $A_s = 22.1 + 0.0067E$                                         | 66.5***  | .50            |
| 2. $A_l = 42.2 + 0.045E - 4.2 \times 10^{-7}E^2$                  | 21.5**   | .43            |
| 3. $A_{ds} = 105 + 0.023E$                                        | 30.6**   | .31            |
| 4. $A_{dl} = 738.6 + 0.071E$                                      | 24.2**   | .29            |
| 5. $A_s = 29.6 + 0.0038E'$                                        | 126.1*** | .65            |
| 6. $A_l = 71.3 + 0.051E' - 3.6 \times 10^{-7}E'^2$                | 46.05*** | .62            |
| 7. $A_{ds} = 67.3 + 0.043E' - 2.4 \times 10^{-5}E'D$              | 16.13*   | .33            |
| 8. $A_{dl} = -48.3 + 0.66E' - 4.2 \times 10^{-6}E'^2 - 0.0016E'D$ | 42.47**  | .45            |

3962

$A_s$  = Number of anglers fishing a given stream.

$A_l$  = Number of anglers fishing a given lake.

$A_{ds}$  = Anglerdays on streams.

$A_{dl}$  = Anglerdays on lakes.

$E$  = Effect index using a single appeal rating for each stream/lake.

$E'$  = Effect index using adjusted appeal rating.

$D$  = Air distance from home county to stream/lake.

\* Significant at  $P = 0.01$

\*\* Significant at  $P = 0.005$

\*\*\* Significant at  $P = 0.001$

for one more distant. The representation of appeal rating as  $A_{ij}$  was the only change made in equation 1. It would be possible to modify equation 1 to better predict angler days. Also, there were differences between the use of lakes and streams. However, the results presented indicate that the model could be used to generate predictions of resource use and environmental impacts.

## ANALYSIS OF OB SITING ALTERNATIVES

### Input Data

A program was written in Pascal to accept a file of population data for each OB siting alternative and another file identifying the resource and providing the distance from the resource to each of the basing alternatives. These were expressed as the nearest and the farthest distances from each OB site to each resource. The mean distance was computed. The data file must also include the appeal rating. The program listing is given in Appendix 2.

The long-term population figures for operating bases used in the analysis were computed using the October 15, 1980 estimates used throughout the DEIS (ETR-2, ETA-28). Population estimates were provided by county for each of the six Nevada/Utah alternatives and the proposed action. Two options were provided using two different baseline populations. One used extrapolated concurrent population growth with M-X as well as the other large future projects expected in the same counties. The other option used normal extrapolation of past growth and project increase due to the M-X project only. The latter option was used because the population estimates were higher and provided the so-called worst case analysis.

For each project alternative, baseline population and projected increase for the counties affected by the first and second OBs from the start of project construction in 1982 to the end of the construction and into a stabilized operations period by 1994 are given in Table 2. The 1994 projected population increase for the directly affected OB county was assumed to indicate the permanent operation personnel numbers (i.e. long-term population) at the bases.

Distances were measured from the center of each OB site to the nearest and farthest identified resource. Appeal ratings were subjectively assigned to recreation and potential wilderness areas. Consultations with state agencies, BLM and other knowledgeable personnel were used in estimating appeal ratings. Appeal ratings for wildlife attributes i.e. pronghorn, bighorn, sagegrouse, desert tortoise and Utah prairie dog were assigned using ratings already determined for major "attractants" i.e., wilderness, significant natural areas and recreation areas. The appeal ratings ranged from 1 to 3 as discussed above.

The "attractants" were rated by area whereas the wildlife attributes were listed by the hydrologic subunit in which they occurred. The "attractants" were first sorted out by hydrologic subunits using existing tables and distribution maps. The highest rating determined for any "attractive" area in a given watershed was then assigned to that watershed. This was done for all five wildlife resources and the watersheds in which the wildlife resources are found.

Table 2. OB site long term population.

| ALT | BASE A  | POPULATION | BASE B  | POPULATION |
|-----|---------|------------|---------|------------|
| 0   | Coyote  | 15,967     | Milford | 13,071     |
| 1   | Coyote  | 15,967     | Beryl   | 12,834     |
| 2   | Coyote  | 15,967     | Delta   | 13,679     |
| 3   | Beryl   | 16,943     | Ely     | 14,347     |
| 4   | Beryl   | 16,943     | Coyote  | 12,195     |
| 5   | Milford | 17,221     | Ely     | 14,347     |
| 6   | Milford | 17,221     | Coyote  | 12,195     |

3987

## Results

The analysis is performed resource by resource. The tables generated by the program are given in Appendix 2. For illustration, a discussion on the analysis of the Great Basin valleys (Tables 3 through 11) is presented in the text.

Tables 3 through 9 show for each alternative (including the Proposed Action which is labeled Alternative 0) the OB pairs and their populations, the resource locations, appeal indexes, the distances from the resources to each of the basing sites, the individual effect indexes and the combined effect index. In Table 3, for example, Snake Valley has an appeal rating of 3, ranges from 132 to 225 mi (and a mean distance of 178.5 mi) from Base A; Coyote Spring is given an effect index ranging from 7,245 to 1,607. Snake Valley is much closer to Base B, Milford, (43 to 112 mi) giving effect indexes ranging from greater than 12,020 to 7,400. The combined effect indexes of the two bases range from 19,300 to 9,000. Table 10 is produced by combining the last column (Average Combined Effects) from each of the preceding seven tables. The data in Table 10 were then sorted for combined effect indexes greater than 10,000 and ranked in order of that effect index (Table 11). Fewer resources with an effect index greater than 10,000 are listed for Alternative 2. On the basis of Table 11 alone, one would say that the impact of Alternative 2 is less than the other alternatives because it has fewer valleys with a high effect index.

The column means, standard deviations and standard errors of Table 10 are computed for each resource. The alternatives are ranked by means in Table 12. Ranking by mean alone shows that Alternative 2, 6 and the Proposed Action (Alternative 0) are the top three choices followed by Alternatives 5, 4 and 3. The subjective ranking was generated by considering the standard deviation and the standard error. For example, if the means were approximately equal, the alternative with the smallest standard deviation was prepared. Since a large standard deviation would indicate that while the mean may be relatively small, some of the resources are impacted particularly hard.

The data in Table 12, and the tables in Appendix 2 are summarized in Table 13. There, with respect to the nine resources analyzed, Alternative 2 ranks first in all but bighorn sheep and desert tortoise habitat. This ranking indicates that Alternative 2 has the smallest total impact on the project area. If this were the only criteria used in the selection or basing sites, Alternative 2 would be the prepared choice. An alternative form of Table 13 is given in Table 14. This table allows easy reference to the ranking of an alternative with respect to a given resource.

## **CONCLUSIONS AND DISCLAIMERS**

According to this analysis, Alternative 2 appears to be the most desirable alternative in that it minimizes impact for all but two of the resources analyzed. This is because Coyote Spring and Delta are farther apart than the other alternatives, which reduces overlap. The fact that the resources were not uniformly distributed about the OB sites may induce some bias, although that should be minimized by ranking by means. Alternatives that include Ely as a base appears worse than all other alternatives because Ely is more central to the study area, and overlaps the spheres of influence of the other OBs.

Table 3.

| EFFECT INDEX OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS |                |            |       |       |                        |         |         |            |       |       |                        |         |         |                  |         |         |
|------------------------------------------------------------|----------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
| ALTERNATIVE NO. 0                                          |                |            |       |       |                        |         |         |            |       |       |                        |         |         |                  |         |         |
| BASE A: COYOTE LONG TERM POP. 15967.0                      |                |            |       |       |                        |         |         |            |       |       |                        |         |         |                  |         |         |
| BASE B: MILFORD LONG TERM POP. 13071.0                     |                |            |       |       |                        |         |         |            |       |       |                        |         |         |                  |         |         |
| NO.                                                        | LOCATION       | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
| APPL                                                       | NAME           | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4                                                          | 3.0 SNAKE      | 132.0      | 223.0 | 178.3 | 7245.1                 | 1607.4  | 3764.2  | 43.0       | 112.0 | 77.3  | 12019.6                | 7400.2  | 9954.3  | 19264.7          | 9007.6  | 13718.4 |
| 5                                                          | 1.0 PINE       | 108.0      | 152.0 | 130.0 | 136.7                  | 1.3     | 16.1    | 25.0       | 31.0  | 38.0  | 10127.9                | 4521.1  | 7250.0  | 10264.6          | 4522.4  | 7266.2  |
| 6                                                          | 2.0 WHITE      | 158.0      | 214.0 | 186.0 | 1250.0                 | 149.2   | 467.8   | 40.0       | 103.0 | 71.5  | 11102.1                | 4427.5  | 7758.1  | 12352.1          | 4576.7  | 8223.9  |
| 7                                                          | 1.0 FISH SPR   | 198.0      | 243.0 | 221.3 | 0.0                    | 0.0     | 0.0     | 82.0       | 129.0 | 105.3 | 840.2                  | 14.7    | 139.1   | 840.2            | 14.7    | 139.1   |
| 8                                                          | 1.0 DUGWAY     | 220.0      | 252.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 98.0       | 132.0 | 115.0 | 239.3                  | 10.7    | 59.2    | 239.3            | 10.7    | 59.2    |
| 9                                                          | 2.0 GOVT CRK   | 231.0      | 263.0 | 247.0 | 68.9                   | 13.7    | 31.6    | 103.0      | 143.0 | 123.0 | 4427.5                 | 1622.2  | 2791.6  | 4496.3           | 1635.9  | 2823.2  |
| 46                                                         | 3.0 SEV DES    | 171.0      | 263.0 | 217.0 | 4239.3                 | 693.2   | 1887.0  | 25.0       | 129.0 | 82.0  | 12364.6                | 6145.4  | 9635.5  | 16604.0          | 6838.6  | 11522.4 |
| 46A                                                        | 1.0 SEV LAKE   | 134.0      | 193.0 | 174.3 | 1.0                    | 0.0     | 0.1     | 23.0       | 77.0  | 50.0  | 10532.6                | 1162.3  | 4711.4  | 10533.6          | 1162.3  | 4711.3  |
| 50                                                         | 1.0 MILFORD    | 117.0      | 139.0 | 138.0 | 39.8                   | 0.3     | 6.7     | 0.0        | 20.0  | 10.0  | 13071.0                | 1102.1  | 12348.2 | 21310.8          | 11102.6 | 12399.0 |
| 53                                                         | 3.0 BERYL-ENT  | 77.0       | 119.0 | 98.0  | 12202.4                | 8400.6  | 10329.1 | 23.0       | 80.0  | 51.3  | 12761.1                | 9778.1  | 11589.7 | 24963.6          | 18178.7 | 21918.8 |
| 54                                                         | 1.0 MAH MAH    | 123.0      | 163.0 | 143.0 | 33.2                   | 0.3     | 3.8     | 9.0        | 49.0  | 29.0  | 12645.9                | 4905.7  | 9273.2  | 12679.1          | 4906.0  | 9277.0  |
| 137A                                                       | 2.0 BIG SMOXY  | 149.0      | 194.0 | 171.3 | 1637.2                 | 343.0   | 794.0   | 211.0      | 258.0 | 234.3 | 139.1                  | 14.7    | 47.8    | 1796.3           | 337.7   | 841.8   |
| 139                                                        | 1.0 NOBEN      | 189.0      | 223.0 | 207.3 | 0.0                    | 0.0     | 0.0     | 178.0      | 215.0 | 196.3 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 140                                                        | 2.0 MONITOR    | 151.0      | 203.0 | 177.0 | 1358.8                 | 238.2   | 652.9   | 184.0      | 209.0 | 197.3 | 382.0                  | 131.3   | 244.2   | 1941.7           | 389.8   | 897.1   |
| 142                                                        | 1.0 ALKALI SPR | 134.0      | 157.0 | 145.3 | 10.3                   | 0.7     | 2.8     | 218.0      | 235.0 | 226.3 | 0.0                    | 0.0     | 0.0     | 10.5             | 0.7     | 2.8     |
| 149                                                        | 1.0 STONE CBN  | 112.0      | 155.0 | 133.3 | 93.4                   | 0.9     | 11.1    | 177.0      | 204.0 | 191.3 | 0.0                    | 0.0     | 0.0     | 93.3             | 0.9     | 11.1    |
| 151                                                        | 1.0 ANTELOPE   | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 172.0      | 194.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 0.2              | 0.0     | 0.0     |
| 154                                                        | 1.0 NEMARA     | 166.0      | 217.0 | 191.3 | 0.2                    | 0.0     | 0.0     | 142.0      | 180.0 | 161.0 | 3.3                    | 0.0     | 0.3     | 3.7              | 0.0     | 0.3     |
| 155                                                        | 1.0 LITTLE SMO | 118.0      | 188.0 | 153.0 | 34.3                   | 0.0     | 1.1     | 148.0      | 173.0 | 161.3 | 1.7                    | 0.0     | 0.3     | 34.0             | 0.1     | 1.4     |
| 156                                                        | 2.0 HOT CRK    | 105.0      | 163.0 | 134.0 | 3182.7                 | 1061.2  | 2355.6  | 140.0      | 186.0 | 173.0 | 939.0                  | 383.0   | 616.6   | 6142.7           | 1444.2  | 2317.2  |
| 170                                                        | 2.0 PENOVY     | 65.0       | 93.0  | 80.0  | 10375.0                | 4337.3  | 8310.0  | 134.0      | 168.0 | 131.0 | 2092.1                 | 733.7   | 1276.0  | 12467.1          | 7091.0  | 9586.1  |
| 171                                                        | 1.0 COAL       | 62.0       | 97.0  | 79.3  | 3325.2                 | 343.0   | 1210.3  | 106.0      | 134.0 | 120.0 | 133.2                  | 8.6     | 36.6    | 3438.5           | 331.6   | 1246.9  |
| 172                                                        | 2.0 GARDEN     | 69.0       | 109.0 | 89.0  | 9822.8                 | 4730.2  | 7115.4  | 117.0      | 142.0 | 129.3 | 3233.5                 | 1670.0  | 2361.1  | 13056.3          | 6420.2  | 9476.3  |
| 173                                                        | 1.0 RAILROAD   | 83.0       | 171.0 | 127.0 | 999.3                  | 0.1     | 22.1    | 118.0      | 178.0 | 148.0 | 44.3                   | 0.0     | 1.7     | 1004.0           | 0.1     | 23.8    |
| 174                                                        | 1.0 JAMES      | 153.0      | 186.0 | 170.3 | 0.9                    | 0.0     | 0.1     | 123.0      | 143.0 | 134.0 | 27.2                   | 2.3     | 8.6     | 28.1             | 2.3     | 8.7     |
| 175                                                        | 1.0 LONG       | 178.0      | 232.0 | 203.0 | 0.0                    | 0.0     | 0.0     | 142.0      | 171.0 | 136.3 | 3.3                    | 0.1     | 0.6     | 3.3              | 0.1     | 0.6     |
| 178                                                        | 1.0 BUTTE      | 178.0      | 234.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 129.0      | 183.0 | 137.0 | 14.7                   | 0.0     | 0.6     | 14.7             | 0.0     | 0.6     |
| 179                                                        | 2.0 STEPTOE    | 132.0      | 243.0 | 187.3 | 2698.1                 | 38.6    | 441.8   | 92.0       | 171.0 | 131.3 | 3310.9                 | 661.4   | 2238.7  | 8209.0           | 700.0   | 2680.3  |
| 180                                                        | 2.0 CAVE       | 97.0       | 138.0 | 117.3 | 6113.0                 | 2287.0  | 3902.9  | 86.0       | 103.0 | 94.3  | 6145.4                 | 4427.5  | 5254.8  | 12258.4          | 6714.6  | 9137.7  |
| 181                                                        | 1.0 DRY LAKE   | 49.0       | 112.0 | 80.3  | 3992.6                 | 93.4    | 1133.7  | 80.0       | 108.0 | 94.0  | 938.0                  | 111.9   | 354.8   | 6951.3           | 207.3   | 1488.6  |
| 182                                                        | 1.0 DELAPAR    | 29.0       | 58.0  | 43.3  | 11327.8                | 4044.9  | 7373.6  | 100.0      | 120.0 | 110.0 | 220.6                  | 36.6    | 93.6    | 11448.4          | 4081.5  | 7649.2  |
| 183                                                        | 2.0 LAKE       | 100.0      | 138.0 | 119.0 | 3753.3                 | 2287.0  | 3764.2  | 62.0       | 92.0  | 77.3  | 8718.1                 | 3310.9  | 7081.7  | 14473.3          | 7797.9  | 10845.9 |
| 184                                                        | 2.0 SPRING     | 112.0      | 218.0 | 165.0 | 4439.4                 | 125.1   | 992.3   | 63.0       | 142.0 | 102.0 | 8830.0                 | 1670.0  | 4521.1  | 13246.4          | 1793.1  | 3513.6  |
| 196                                                        | 2.0 MARLIN     | 91.0       | 143.0 | 118.0 | 6858.7                 | 1848.3  | 3656.3  | 37.0       | 73.0  | 56.0  | 11366.9                | 7362.6  | 9491.3  | 85253.6          | 9231.1  | 13347.8 |
| 202                                                        | 2.0 PATTERSON  | 73.0       | 103.0 | 89.0  | 8993.9                 | 3408.3  | 7113.4  | 62.0       | 85.0  | 73.3  | 8830.0                 | 6253.6  | 7331.9  | 17823.8          | 11662.1 | 14647.3 |
| 207                                                        | 2.0 WINTERIVER | 89.0       | 149.0 | 129.0 | 7113.4                 | 866.0   | 2922.6  | 97.0       | 133.0 | 116.0 | 3004.3                 | 2035.4  | 3311.3  | 12119.7          | 2901.4  | 6233.8  |
| 208                                                        | 1.0 PANDOC     | 22.0       | 64.0  | 44.0  | 13104.7                | 2698.1  | 7245.1  | 108.0      | 138.0 | 123.0 | 111.9                  | 3.3     | 27.2    | 13216.6          | 2703.6  | 7272.3  |
| 209                                                        | 1.0 PANDANAGAT | 22.0       | 64.0  | 44.0  | 13104.7                | 2698.1  | 7245.1  | 108.0      | 138.0 | 123.0 | 111.9                  | 3.3     | 27.2    | 13216.6          | 2703.6  | 7272.3  |
| 210                                                        | 1.0 COYOTE     | 0.0        | 31.0  | 15.3  | 15967.0                | 10786.2 | 14475.6 | 123.0      | 180.0 | 131.3 | 27.2                   | 0.0     | 1.1     | 15967.0          | 10786.2 | 14476.7 |
| 141                                                        | 1.0 RALSTON    | 123.0      | 168.0 | 143.3 | 33.2                   | 0.2     | 2.8     | 194.0      | 222.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 33.2             | 0.2     | 2.8     |
| 3                                                          | 2.0 DEEP CRK   | 209.0      | 244.0 | 226.8 | 180.4                  | 34.7    | 83.9    | 117.0      | 149.0 | 132.6 | 3187.4                 | 1332.0  | 2115.0  | 3367.8           | 1368.7  | 2198.9  |
| 47                                                         | 2.0 HUNTINGTON | 224.0      | 272.0 | 248.0 | 93.4                   | 8.4     | 30.0    | 181.0      | 220.0 | 200.8 | 431.7                  | 93.6    | 213.3   | 347.1            | 102.0   | 236.6   |
| 48                                                         | 3.0 BEAVER     | 149.0      | 190.0 | 164.8 | 3786.6                 | 3673.3  | 4459.1  | 17.0       | 48.0  | 32.8  | 12888.7                | 11774.1 | 12448.6 | 18675.3          | 15447.6 | 17107.7 |
| 49                                                         | 2.0 PARDMAN    | 129.0      | 168.0 | 148.8 | 2874.7                 | 896.3   | 1667.3  | 24.0       | 44.0  | 34.0  | 12324.9                | 10727.9 | 11616.6 | 15201.3          | 11624.2 | 13282.9 |
| 51                                                         | 1.0 CEDAR CITY | 105.0      | 149.0 | 127.6 | 168.3                  | 1.7     | 20.8    | 14.0       | 49.0  | 32.8  | 11774.1                | 4788.7  | 8425.6  | 11942.6          | 4790.4  | 8446.4  |
| 52                                                         | 1.0 LUND DIST  | 104.0      | 140.0 | 122.0 | 193.2                  | 3.4     | 26.7    | 12.0       | 48.0  | 30.0  | 12324.9                | 3103.8  | 9052.4  | 12318.1          | 3109.2  | 9089.3  |
| 53                                                         | 1.0 PINE(N)    | 224.0      | 277.0 | 250.8 | 0.0                    | 0.0     | 0.0     | 200.0      | 234.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 54                                                         | 1.0 CRESENT    | 249.0      | 280.0 | 264.8 | 0.0                    | 0.0     | 0.0     | 228.0      | 254.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 55                                                         | 1.0 CARICO L   | 234.0      | 272.0 | 254.0 | 0.0                    | 0.0     | 0.0     | 233.0      | 253.0 | 243.6 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 56                                                         | 2.0 UPPER REES | 193.0      | 236.0 | 224.8 | 348.3                  | 19.9    | 92.0    | 232.0      | 253.0 | 242.8 | 33.8                   | 18.3    | 31.9    | 402.4            | 38.4    | 123.9   |
| 137B                                                       | 2.0 BIG SMOXY  | 176.0      | 232.0 | 204.0 | 676.9                  | 63.8    | 228.3   | 212.0      | 237.0 | 224.8 | 132.2                  | 41.2    | 75.3    | 810.1            | 104.9   | 303.9   |
| 138                                                        | 1.0 GRASS      | 220.0      | 253.0 | 236.8 | 0.0                    | 0.0     | 0.0     | 217.0      | 240.0 | 228.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 190                                                        | 1.0 LIT FISH L | 132.0      | 181.0 | 167.6 | 1.0                    | 0.0     | 0.2     | 180.0      | 196.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 1.1              | 0.0     | 0.2     |
| 193                                                        | 1.0 DIAMOND    | 196.0      | 248.0 | 222.0 | 0.0                    | 0.0     | 0.0     | 173.0      | 212.0 | 192.8 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 161                                                        | 1.0 INDIAN SPR | 37.0       | 63.0  | 51.6  | 8966.4                 | 2736.7  | 5385.8  | 160.0      | 204.0 | 182.0 | 0.4                    | 0.0     | 0.0     | 8966.7           | 2736.7  | 9385.8  |
| 169                                                        | 1.0 TIRAGGO S  | 8.0        | 41.0  | 24.8  | 13359.3                | 7878.8  | 12422.2 | 137.0      | 137.0 | 147.6 | 5.8                    | 0.3     | 1.8     | 13361.1          | 7879.3  | 12484.0 |
| 176                                                        | 3.0 RUBY       | 224.0      | 288.0 | 256.0 | 1640.4                 | 371.2   | 817.4   | 176.0      | 216.0 | 196.0 | 2207.8                 | 1375.4  | 2289.1  | 14848.3          | 1946.3  | 3106.3  |
| 185                                                        | 1.0 TIPPETT    | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 120.0      | 144.0 | 132.0 | 36.6                   | 2.8     | 10.7    | 36.6             | 2.8     | 10.7    |
| 186                                                        | 1.0 ANTELOPE   | 233.0      | 261.0 | 247.6 | 0.0                    | 0.0     | 0.0     | 141.0      | 172.0 | 156.8 | 3.6                    | 0.1     | 0.6     | 3.6              | 0.1     | 0.6     |
| 187                                                        | 1.0 GOSHUTE    | 241.0      | 288.0 | 264.8 | 0.0                    | 0.0     | 0.0     | 141.0      | 204.0 | 182.8 | 0.3                    | 0.0     | 0.0     | 0.3              | 0.0     | 0.0     |
| 198                                                        | 2.0 DRY        | 80.0       | 96.0  | 88.0  | 8310.0                 | 6234.6  | 7245.1  | 36.0       | 73.0  | 64.8  | 9491.3                 | 7520.6  | 8915.8  | 17801.3          | 13753.2 | 15760.9 |
| 201                                                        | 3.0 SPRING     | 96.0       | 114.0 | 106.0 | 10312.3                | 8673.3  | 9992.2  | 32.0       | 68.0  | 60.0  | 11362.3                | 10398.3 | 11102.1 | 22075.0          | 19271.8 | 20994.2 |
| 205                                                        | 2.0 HEADON V   | 8.0        | 64.0  | 36.0  | 13863.1                | 10512.3 | 13989.1 | 88.0       | 140.0 | 114.0 | 3931.0                 | 1769.0  | 3470.4  | 21794.1          | 12281.5 | 17459.9 |
| 206                                                        | 1.0 KANE SPR   | 14.0       | 48.0  | 32.0  | 14382.8                | 6234.6  | 10312.3 | 101.0      | 128.0 | 114.8 | 192.4                  | 18.3    | 60.3    | 14574.2          |         |         |

Table 4.

## EFFECT INDEX OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS

ALTERNATIVE NO. 1  
 BASE A: COVOTE LONG TERM POP. 15967.0  
 BASE B: BERYL LONG TERM POP. 12834.0

| LOCATION |      | MILES TO A |            |       | EFFECT INDEX OF BASE A |       |         | MILES TO B |         |       | EFFECT INDEX OF BASE B |       |         | COMBINED EFFECTS |         |         |         |         |
|----------|------|------------|------------|-------|------------------------|-------|---------|------------|---------|-------|------------------------|-------|---------|------------------|---------|---------|---------|---------|
| NO       | APPL | NAME       | N          | F     | AVE                    | MAX   | MIN     | AVE        | N       | F     | AVE                    | MAX   | MIN     | AVE              | MAX     | MIN     | AVE     |         |
| 4        | 3    | 0          | SNARE      | 132.0 | 225.0                  | 178.5 | 7243.1  | 1607.4     | 3764.2  | 31.0  | 137.0                  | 94.0  | 11406.0 | 3478.9           | 8596.6  | 18651.1 | 7086.2  | 12360.8 |
| 3        | 1    | 0          | PINE       | 108.0 | 152.0                  | 130.0 | 136.7   | 1.3        | 16.1    | 18.0  | 62.0                   | 40.0  | 11244.2 | 2672.8           | 6679.5  | 11380.9 | 2674.1  | 6695.6  |
| 6        | 2    | 0          | WHITE      | 158.0 | 214.0                  | 186.0 | 1250.0  | 149.2      | 467.8   | 68.0  | 126.0                  | 97.0  | 8006.6  | 2539.8           | 4912.5  | 9256.6  | 2689.0  | 5381.4  |
| 7        | 1    | 0          | FISH SPR   | 198.0 | 245.0                  | 221.5 | 0.0     | 0.0        | 0.0     | 108.0 | 154.0                  | 131.0 | 109.8   | 0.8              | 11.7    | 109.6   | 0.8     | 11.7    |
| 8        | 1    | 0          | DUGWAY     | 220.0 | 252.0                  | 236.0 | 0.0     | 0.0        | 0.0     | 126.0 | 162.0                  | 144.0 | 19.7    | 0.3              | 2.7     | 19.7    | 0.3     | 2.7     |
| 9        | 2    | 0          | GOVT CRK   | 231.0 | 263.0                  | 247.0 | 68.9    | 13.7       | 31.6    | 135.0 | 174.0                  | 154.5 | 1998.5  | 584.3            | 1123.4  | 2067.5  | 598.1   | 1155.0  |
| 46       | 3    | 0          | SEV DES    | 171.0 | 263.0                  | 217.0 | 4239.3  | 693.2      | 1887.0  | 72.0  | 166.0                  | 119.0 | 10145.2 | 3678.1           | 4732.2  | 14284.5 | 4271.2  | 8639.2  |
| 46A      | 1    | 0          | SEV LAKE   | 154.0 | 193.0                  | 174.5 | 1.0     | 0.0        | 0.1     | 54.0  | 105.0                  | 79.5  | 3903.6  | 142.6            | 972.8   | 3904.6  | 142.6   | 972.6   |
| 50       | 1    | 0          | MILFORD    | 117.0 | 159.0                  | 138.0 | 59.8    | 0.5        | 6.7     | 28.0  | 71.0                   | 49.5  | 9319.4  | 1639.8           | 4720.9  | 9379.2  | 1640.3  | 4727.7  |
| 53       | 3    | 0          | BERYL-ENT  | 77.0  | 119.0                  | 98.0  | 12202.4 | 8400.6     | 10361.1 | 0.0   | 20.0                   | 10.0  | 12834.0 | 12603.3          | 12775.9 | 25036.4 | 21003.9 | 23105.1 |
| 54       | 1    | 0          | WAM WAM    | 123.0 | 163.0                  | 143.0 | 33.2    | 0.3        | 3.8     | 26.0  | 71.0                   | 48.5  | 9739.4  | 1639.8           | 4913.5  | 9772.6  | 1640.4  | 4912.3  |
| 137A     | 2    | 0          | BIG SHOKY  | 149.0 | 194.0                  | 171.5 | 1637.2  | 343.0      | 794.0   | 192.0 | 229.0                  | 210.5 | 298.3   | 60.9             | 139.5   | 1955.5  | 403.6   | 933.2   |
| 139      | 1    | 0          | KOBEH      | 189.0 | 226.0                  | 207.5 | 0.0     | 0.0        | 0.0     | 169.0 | 212.0                  | 190.5 | 0.1     | 0.0              | 0.0     | 0.1     | 0.0     | 0.0     |
| 140      | 2    | 0          | MONITOR    | 151.0 | 203.0                  | 177.0 | 1558.8  | 238.2      | 652.9   | 166.0 | 195.0                  | 180.5 | 771.3   | 265.0            | 461.9   | 2330.0  | 503.2   | 1114.6  |
| 142      | 1    | 0          | ALKALI SPR | 134.0 | 157.0                  | 145.5 | 10.5    | 0.7        | 2.8     | 188.0 | 206.0                  | 197.0 | 0.0     | 0.0              | 0.0     | 10.5    | 0.7     | 2.6     |
| 149      | 1    | 0          | STONE CBN  | 112.0 | 155.0                  | 133.5 | 95.4    | 0.9        | 11.1    | 149.0 | 174.0                  | 161.5 | 1.5     | 0.1              | 0.3     | 96.9    | 0.9     | 11.4    |
| 151      | 1    | 0          | ANTELOPE   | 169.0 | 197.0                  | 183.0 | 0.1     | 0.0        | 0.0     | 158.0 | 182.0                  | 170.0 | 0.5     | 0.0              | 0.1     | 0.6     | 0.0     | 0.1     |
| 154      | 1    | 0          | NEUARK     | 166.0 | 217.0                  | 191.5 | 0.2     | 0.0        | 0.0     | 134.0 | 178.0                  | 156.0 | 8.4     | 0.0              | 0.6     | 8.6     | 0.0     | 0.6     |
| 155      | 1    | 0          | LITTLE SHO | 118.0 | 188.0                  | 153.0 | 54.3    | 0.0        | 1.1     | 135.0 | 165.0                  | 150.0 | 7.5     | 0.2              | 1.3     | 61.9    | 0.2     | 2.4     |
| 156      | 2    | 0          | HOT CRK    | 105.0 | 163.0                  | 134.0 | 5183.7  | 1061.2     | 2355.6  | 137.0 | 157.0                  | 147.0 | 1890.6  | 1037.6           | 1415.0  | 7074.3  | 2098.8  | 3970.5  |
| 170      | 2    | 0          | PEMOVER    | 65.0  | 95.0                   | 80.0  | 10375.0 | 6357.3     | 8310.0  | 102.0 | 132.0                  | 117.0 | 4439.2  | 2168.7           | 3174.9  | 14814.2 | 8526.1  | 11484.9 |
| 171      | 1    | 0          | COAL       | 62.0  | 97.0                   | 79.5  | 3325.2  | 343.0      | 1210.3  | 75.0  | 100.0                  | 87.5  | 1292.0  | 216.6            | 563.9   | 4617.2  | 559.7   | 1774.1  |
| 172      | 2    | 0          | GARDEN     | 69.0  | 109.0                  | 89.0  | 9822.8  | 4750.2     | 7115.4  | 89.0  | 112.0                  | 100.5 | 5719.2  | 3568.3           | 4578.9  | 15542.0 | 8218.5  | 11694.5 |
| 173      | 1    | 0          | RAILROAD   | 83.0  | 171.0                  | 127.0 | 959.5   | 0.1        | 22.1    | 98.0  | 149.0                  | 123.5 | 254.6   | 1.5              | 25.4    | 1214.2  | 1.6     | 47.5    |
| 174      | 1    | 0          | JAMES      | 155.0 | 186.0                  | 170.5 | 0.9     | 0.0        | 0.1     | 118.0 | 142.0                  | 130.0 | 43.7    | 3.4              | 13.0    | 44.5    | 3.4     | 13.1    |
| 175      | 1    | 0          | LONG       | 178.0 | 232.0                  | 205.0 | 0.0     | 0.0        | 0.0     | 138.0 | 169.0                  | 153.5 | 5.4     | 0.1              | 0.9     | 5.4     | 0.1     | 0.9     |
| 178      | 1    | 0          | BUTTE      | 178.0 | 234.0                  | 216.0 | 0.0     | 0.0        | 0.0     | 129.0 | 194.0                  | 161.5 | 14.4    | 0.0              | 0.3     | 14.4    | 0.0     | 0.3     |
| 179      | 2    | 0          | STEPTOE    | 132.0 | 243.0                  | 187.5 | 2698.1  | 38.6       | 441.8   | 129.0 | 182.0                  | 155.5 | 2349.1  | 437.0            | 1088.4  | 5047.3  | 475.6   | 1530.1  |
| 180      | 2    | 0          | CAVE       | 97.0  | 138.0                  | 117.5 | 6113.0  | 2287.0     | 3902.9  | 71.0  | 92.0                   | 81.5  | 7673.0  | 941.0            | 6516.4  | 13786.0 | 7698.0  | 10419.1 |
| 181      | 1    | 0          | DRY LAKE   | 49.0  | 112.0                  | 80.5  | 5992.6  | 95.4       | 1133.7  | 49.0  | 69.0                   | 59.0  | 4816.7  | 1838.3           | 3099.6  | 10809.3 | 1933.7  | 4233.4  |
| 182      | 1    | 0          | DELAHAR    | 29.0  | 58.0                   | 43.5  | 11327.8 | 4044.9     | 7375.6  | 63.0  | 83.0                   | 73.0  | 2539.8  | 771.3            | 1457.9  | 13867.6 | 4816.2  | 8833.7  |
| 183      | 2    | 0          | LAKE       | 100.0 | 138.0                  | 119.0 | 3755.3  | 2287.0     | 3764.2  | 45.0  | 83.0                   | 64.0  | 10438.1 | 4354.3           | 8449.8  | 16193.4 | 8641.4  | 12213.6 |
| 184      | 2    | 0          | SPRING     | 112.0 | 218.0                  | 165.0 | 4439.4  | 123.1      | 992.5   | 49.0  | 151.0                  | 100.0 | 10045.2 | 1252.9           | 4626.0  | 14484.7 | 1378.0  | 5618.5  |
| 196      | 2    | 0          | HARLIN     | 91.0  | 145.0                  | 118.0 | 6858.7  | 1868.5     | 3856.3  | 11.0  | 75.0                   | 43.0  | 12676.5 | 7529.1           | 13627.3 | 19535.3 | 9097.6  | 14484.4 |
| 202      | 2    | 0          | PATTERSON  | 79.0  | 103.0                  | 89.0  | 8993.9  | 5408.5     | 7115.4  | 35.0  | 60.0                   | 47.5  | 11326.0 | 8888.4           | 10194.7 | 20319.8 | 14296.9 | 17310.1 |
| 207      | 2    | 0          | WHITERIVER | 89.0  | 169.0                  | 129.0 | 7115.4  | 866.0      | 2922.6  | 74.0  | 123.0                  | 98.5  | 7339.9  | 2741.0           | 4768.7  | 14455.3 | 3607.0  | 7691.1  |
| 208      | 1    | 0          | PAWROD     | 22.0  | 66.0                   | 44.0  | 13104.7 | 2698.1     | 7245.1  | 74.0  | 100.0                  | 87.0  | 1373.0  | 216.6            | 584.3   | 14477.7 | 2914.8  | 7829.4  |
| 209      | 1    | 0          | PAHRANAGAT | 22.0  | 66.0                   | 44.0  | 13104.7 | 2698.1     | 7245.1  | 74.0  | 100.0                  | 87.0  | 1373.0  | 216.6            | 584.3   | 14477.7 | 2914.8  | 7829.4  |
| 210      | 1    | 0          | COVOTE     | 0.0   | 31.0                   | 15.5  | 15967.0 | 10786.3    | 14475.6 | 71.0  | 114.0                  | 92.5  | 1639.8  | 63.8             | 390.5   | 17606.8 | 10850.1 | 14866.1 |
| 3        | 1    | 0          | RALSTON    | 123.0 | 168.0                  | 145.5 | 33.2    | 0.2        | 2.8     | 171.0 | 194.0                  | 182.5 | 0.1     | 0.0              | 0.0     | 33.3    | 0.2     | 2.7     |
| 41       | 3    | 0          | DEEP CRK   | 209.0 | 244.0                  | 226.8 | 180.4   | 36.7       | 85.9    | 132.0 | 164.0                  | 148.0 | 2168.7  | 825.0            | 1373.0  | 2349.2  | 861.7   | 1456.9  |
| 47       | 2    | 0          | HUNTINGTON | 124.0 | 272.0                  | 248.0 | 95.4    | 8.4        | 30.0    | 181.6 | 224.0                  | 202.8 | 443.5   | 76.7             | 193.1   | 538.9   | 85.1    | 223.1   |
| 48       | 3    | 0          | BEAVER     | 149.0 | 180.0                  | 164.8 | 5786.6  | 3673.5     | 4659.1  | 52.0  | 81.6                   | 66.8  | 11352.8 | 9488.9           | 10482.7 | 17139.5 | 13162.4 | 15141.6 |
| 49       | 2    | 0          | PARDWAN    | 129.0 | 168.0                  | 148.8 | 2876.7  | 896.3      | 1667.3  | 41.6  | 72.0                   | 56.8  | 10756.5 | 7561.9           | 9234.0  | 13633.2 | 8458.2  | 10901.5 |
| 51       | 1    | 0          | CEDAR CITY | 105.0 | 149.0                  | 127.6 | 168.5   | 1.7        | 20.8    | 28.0  | 52.0                   | 40.0  | 9319.4  | 4256.4           | 6679.5  | 9487.9  | 4258.1  | 6700.2  |
| 52       | 1    | 0          | LUND DIST  | 104.0 | 140.0                  | 122.0 | 193.2   | 5.4        | 36.7    | 8.0   | 40.0                   | 24.0  | 12503.1 | 6679.5           | 10145.2 | 12696.3 | 6684.8  | 10181.4 |
| 53       | 1    | 0          | PINEIN     | 224.0 | 277.0                  | 250.8 | 0.0     | 0.0        | 0.0     | 196.0 | 237.0                  | 216.8 | 0.0     | 0.0              | 0.0     | 0.0     | 0.0     | 0.0     |
| 54       | 1    | 0          | CRESENT    | 249.0 | 280.0                  | 264.8 | 0.0     | 0.0        | 0.0     | 224.0 | 248.0                  | 236.0 | 0.0     | 0.0              | 0.0     | 0.0     | 0.0     | 0.0     |
| 55       | 1    | 0          | CARRICO L  | 236.0 | 272.0                  | 254.0 | 0.0     | 0.0        | 0.0     | 224.0 | 248.0                  | 236.0 | 0.0     | 0.0              | 0.0     | 0.0     | 0.0     | 0.0     |
| 56       | 2    | 0          | UPPER REES | 193.0 | 256.0                  | 224.8 | 248.5   | 19.9       | 92.0    | 212.0 | 244.0                  | 228.0 | 130.8   | 29.5             | 63.8    | 479.3   | 49.4    | 155.8   |
| 137B     | 2    | 0          | BIG SHOKY  | 174.0 | 232.0                  | 204.0 | 676.9   | 45.8       | 228.5   | 192.0 | 221.0                  | 206.8 | 298.3   | 85.5             | 163.4   | 975.2   | 151.3   | 391.9   |
| 138      | 1    | 0          | GRASS      | 220.0 | 253.0                  | 236.8 | 0.0     | 0.0        | 0.0     | 208.0 | 232.0                  | 220.0 | 0.0     | 0.0              | 0.0     | 0.0     | 0.0     | 0.0     |
| 150      | 1    | 0          | LIT FISH L | 153.0 | 181.0                  | 167.6 | 1.0     | 0.0        | 0.2     | 160.0 | 176.0                  | 168.0 | 0.4     | 0.0              | 0.1     | 1.4     | 0.1     | 0.3     |
| 153      | 1    | 0          | DIAMOND    | 196.0 | 248.0                  | 222.0 | 0.0     | 0.0        | 0.0     | 168.0 | 208.0                  | 188.0 | 0.1     | 0.0              | 0.0     | 0.1     | 0.0     | 0.0     |
| 161      | 1    | 0          | INDIAN SPR | 37.0  | 65.0                   | 51.6  | 8966.4  | 2734.7     | 3388.8  | 124.0 | 163.0                  | 144.8 | 24.1    | 0.2              | 2.5     | 8990.5  | 2736.9  | 3388.3  |
| 169      | 1    | 0          | TIKABOO S  | 8.0   | 41.0                   | 24.8  | 15553.3 | 7878.8     | 12422.2 | 100.0 | 120.0                  | 110.0 | 216.6   | 36.0             | 91.9    | 15771.9 | 7914.7  | 12514.2 |
| 176      | 3    | 0          | RUBY       | 224.0 | 288.0                  | 256.0 | 1640.4  | 371.2      | 817.4   | 176.0 | 228.0                  | 202.0 | 3149.6  | 1214.8           | 2016.9  | 4790.1  | 1589.5  | 2834.3  |
| 185      | 1    | 0          | TIPPETTY   | 204.0 | 232.0                  | 218.0 | 0.0     | 0.0        | 0.0     | 132.0 | 137.0                  | 144.8 | 10.5    | 0.5              | 2.5     | 10.5    | 0.5     | 2.5     |
| 186      | 1    | 0          | ANTELOPE   | 233.0 | 261.0                  | 247.6 | 0.0     | 0.0        | 0.0     | 152.0 | 188.0                  | 170.0 | 1.0     | 0.0              | 0.1     | 1.0     | 0.0     | 0.1     |
| 187      | 1    | 0          | GOSHUTE    | 241.0 | 288.0                  | 264.8 | 0.0     | 0.0        | 0.0     | 173.0 | 208.0                  | 190.8 | 0.1     | 0.0              | 0.0     | 0.1     | 0.0     | 0.0     |
| 198      | 2    | 0          | DRY        | 80.0  | 96.0                   | 88.0  | 8310.0  | 6234.6     | 7245.1  | 24.0  | 40.0                   | 32.0  | 12101.4 | 10900.8          | 11560.7 | 20411.4 | 17135.4 | 18805.7 |
| 201      | 3    | 0          | SPRING     | 96    |                        |       |         |            |         |       |                        |       |         |                  |         |         |         |         |

Table 5.

## EFFECT INDEX OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS

ALTERNATIVE NO. 2  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: DELTA LONG TERM POP. 13679.0

| NO.  | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0  | SHAKE         | 132.0      | 225.0 | 178.5 | 7245.1                 | 1607.4  | 3764.2  | 35.0       | 77.0  | 56.0  | 12939.8                | 10453.9 | 11865.9 | 20184.8          | 12061.3 | 15629.7 |
| 5    | 1.0  | PINE          | 158.0      | 152.0 | 130.0 | 136.7                  | 1.3     | 16.1    | 48.0       | 91.0  | 69.3  | 3341.2                 | 465.7   | 1904.7  | 3477.9           | 467.0   | 1920.8  |
| 6    | 2.0  | WHITE         | 158.0      | 214.0 | 186.0 | 1250.0                 | 149.2   | 468.8   | 22.0       | 48.0  | 35.0  | 13019.8                | 10813.1 | 12071.7 | 14269.9          | 10962.3 | 12539.5 |
| 7    | 1.0  | FISH SPR      | 198.0      | 245.0 | 221.5 | 0.0                    | 0.0     | 0.0     | 22.0       | 63.0  | 42.5  | 11226.9                | 2707.1  | 6544.4  | 11226.9          | 2707.1  | 6544.4  |
| 8    | 1.0  | DUGWAY        | 220.0      | 255.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 32.0       | 66.0  | 49.0  | 9006.1                 | 2311.5  | 5133.9  | 9006.1           | 2311.5  | 5133.9  |
| 9    | 2.0  | GOVT CRK      | 231.0      | 263.0 | 247.0 | 68.9                   | 13.7    | 31.6    | 35.0       | 77.0  | 56.0  | 12071.7                | 7469.8  | 9933.0  | 12140.4          | 7483.5  | 9944.6  |
| 46   | 3.0  | SEV DES       | 171.0      | 263.0 | 217.0 | 4239.3                 | 693.2   | 1887.0  | 0.0        | 66.0  | 33.0  | 13679.0                | 11226.9 | 13019.8 | 17918.3          | 11920.1 | 14906.8 |
| 46A  | 1.0  | SEV LAKE      | 154.0      | 195.0 | 174.5 | 1.0                    | 0.0     | 0.1     | 2.0        | 48.0  | 25.0  | 13656.7                | 5341.2  | 10599.0 | 12637.7          | 5341.2  | 10599.1 |
| 50   | 1.0  | MILFORD       | 117.0      | 159.0 | 138.0 | 59.8                   | 0.5     | 6.7     | 35.0       | 129.0 | 82.0  | 9296.7                 | 15.4    | 879.3   | 8356.5           | 15.9    | 886.0   |
| 53   | 3.0  | BERYL-EXT     | 77.0       | 119.0 | 98.0  | 12202.4                | 8400.4  | 10329.1 | 72.0       | 166.0 | 119.0 | 10813.1                | 3920.3  | 7196.8  | 23015.5          | 12320.8 | 17526.0 |
| 54   | 1.0  | WAM WAM       | 123.0      | 163.0 | 143.0 | 33.2                   | 0.3     | 3.8     | 35.0       | 74.0  | 54.3  | 8296.7                 | 1463.4  | 4069.5  | 8330.0           | 1463.7  | 4073.3  |
| 137A | 2.0  | BIG SHOKY     | 149.0      | 194.0 | 171.5 | 1657.2                 | 343.0   | 794.0   | 222.0      | 278.0 | 250.0 | 89.5                   | 5.1     | 23.2    | 1746.7           | 248.2   | 817.2   |
| 139  | 1.0  | KOSEH         | 189.0      | 226.0 | 207.5 | 0.0                    | 0.0     | 0.0     | 168.0      | 205.0 | 186.5 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 140  | 2.0  | MONITOR       | 191.0      | 203.0 | 177.0 | 1558.8                 | 238.2   | 432.9   | 183.0      | 217.0 | 200.0 | 448.7                  | 112.0   | 230.9   | 2007.5           | 350.3   | 883.8   |
| 142  | 1.0  | ALKALI SPR    | 134.0      | 157.0 | 145.5 | 10.5                   | 0.7     | 2.8     | 243.0      | 260.0 | 231.5 | 0.0                    | 0.0     | 0.0     | 10.5             | 0.7     | 2.8     |
| 149  | 1.0  | STONE CH      | 112.0      | 155.0 | 133.5 | 95.4                   | 0.9     | 11.1    | 194.0      | 232.0 | 213.0 | 0.0                    | 0.0     | 0.0     | 95.4             | 0.9     | 11.1    |
| 151  | 1.0  | ANTELOPE      | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 163.0      | 186.0 | 174.5 | 0.3                    | 0.0     | 0.1     | 0.4              | 0.0     | 0.1     |
| 154  | 1.0  | NEWARK        | 166.0      | 217.0 | 191.5 | 0.2                    | 0.0     | 0.0     | 131.0      | 155.0 | 143.0 | 12.4                   | 0.8     | 3.2     | 12.6             | 0.8     | 3.2     |
| 155  | 1.0  | LITTLE SHO    | 115.0      | 188.0 | 153.0 | 54.3                   | 0.0     | 1.1     | 148.0      | 180.0 | 164.0 | 1.8                    | 0.0     | 0.2     | 56.1             | 0.0     | 1.4     |
| 156  | 2.0  | HOT CRK       | 103.0      | 163.0 | 134.0 | 3183.7                 | 1061.2  | 2555.4  | 169.0      | 206.0 | 187.5 | 741.9                  | 180.1   | 378.5   | 3925.4           | 1241.3  | 2934.1  |
| 170  | 2.0  | PENVOYER      | 65.0       | 95.0  | 80.0  | 10375.0                | 4397.3  | 8310.0  | 166.0      | 205.0 | 185.5 | 822.0                  | 187.8   | 408.4   | 11197.1          | 6545.1  | 8718.5  |
| 171  | 1.0  | COAL          | 42.0       | 97.0  | 79.5  | 3325.2                 | 343.0   | 1210.3  | 140.0      | 172.0 | 156.0 | 4.6                    | 0.1     | 0.7     | 3329.8           | 343.1   | 1210.9  |
| 172  | 2.0  | GARDEN        | 69.0       | 109.0 | 89.0  | 9822.8                 | 4750.2  | 7115.4  | 142.0      | 169.0 | 155.5 | 1747.7                 | 741.9   | 1160.1  | 11570.5          | 3492.1  | 8275.5  |
| 173  | 1.0  | RAILROAD      | 83.0       | 171.0 | 127.0 | 939.5                  | 0.1     | 22.1    | 126.0      | 209.0 | 167.5 | 21.0                   | 0.0     | 0.1     | 980.5            | 0.1     | 22.2    |
| 174  | 1.0  | JAMES         | 155.0      | 186.0 | 170.5 | 0.9                    | 0.0     | 0.1     | 111.0      | 132.0 | 121.5 | 89.5                   | 11.2    | 33.1    | 90.4             | 11.2    | 33.2    |
| 175  | 1.0  | LONG          | 178.0      | 232.0 | 205.0 | 0.0                    | 0.0     | 0.0     | 120.0      | 143.0 | 131.5 | 38.3                   | 3.2     | 11.8    | 38.4             | 3.2     | 11.8    |
| 178  | 1.0  | BUTE          | 241.0      | 254.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 106.0      | 138.0 | 122.0 | 139.4                  | 5.8     | 31.5    | 139.5            | 5.8     | 31.5    |
| 179  | 2.0  | STEEPLE       | 132.0      | 243.0 | 187.5 | 2698.1                 | 38.6    | 441.8   | 86.0       | 126.0 | 106.0 | 4431.2                 | 2707.1  | 4346.3  | 9129.4           | 2745.6  | 4788.1  |
| 180  | 2.0  | CAVE          | 97.0       | 138.0 | 117.5 | 6113.0                 | 2287.0  | 3902.9  | 100.0      | 122.0 | 111.5 | 4930.4                 | 2921.5  | 3846.9  | 11042.6          | 3208.5  | 7749.8  |
| 181  | 1.0  | DRY LAKE      | 49.0       | 112.0 | 80.5  | 5992.6                 | 95.4    | 1133.7  | 105.0      | 151.0 | 128.0 | 132.0                  | 1.2     | 17.1    | 6144.6           | 96.7    | 1150.8  |
| 182  | 1.0  | DELMAR        | 29.0       | 58.0  | 43.5  | 11327.8                | 4044.9  | 7375.4  | 131.0      | 174.0 | 162.5 | 1.2                    | 0.1     | 0.3     | 11329.0          | 4045.0  | 7375.9  |
| 183  | 2.0  | LAKE          | 100.0      | 138.0 | 119.0 | 5755.3                 | 2287.0  | 3764.2  | 92.0       | 111.0 | 101.5 | 5767.2                 | 3890.8  | 4780.8  | 11522.5          | 6177.8  | 8545.0  |
| 184  | 2.0  | SPRING        | 112.0      | 218.0 | 165.0 | 4459.4                 | 125.1   | 992.5   | 65.0       | 98.0  | 81.5  | 8888.3                 | 5123.9  | 6945.4  | 12327.8          | 5259.0  | 7937.9  |
| 196  | 2.0  | HARLIN        | 91.0       | 145.0 | 118.0 | 4858.7                 | 1868.9  | 3836.3  | 66.0       | 105.0 | 83.5  | 8770.3                 | 4440.9  | 4687.8  | 13629.1          | 4309.4  | 10346.1 |
| 202  | 2.0  | PATTERSON     | 75.0       | 103.0 | 89.0  | 8993.9                 | 9408.5  | 7115.4  | 102.0      | 126.0 | 114.0 | 4731.4                 | 2707.1  | 3631.8  | 13725.3          | 8115.6  | 10747.2 |
| 207  | 2.0  | WATERVIEW     | 89.0       | 169.0 | 129.0 | 7115.4                 | 866.0   | 2922.6  | 102.0      | 146.0 | 124.0 | 4731.4                 | 1553.9  | 2848.8  | 11844.8          | 2419.9  | 5771.3  |
| 208  | 1.0  | PANOC         | 22.0       | 66.0  | 44.0  | 13104.7                | 2698.1  | 7245.1  | 151.0      | 189.0 | 170.0 | 1.2                    | 0.0     | 0.1     | 13104.0          | 2698.2  | 7245.2  |
| 209  | 1.0  | PANRANAGAT    | 22.0       | 66.0  | 44.0  | 13104.7                | 2698.1  | 7245.1  | 151.0      | 189.0 | 170.0 | 1.2                    | 0.0     | 0.1     | 13104.0          | 2698.2  | 7245.2  |
| 210  | 0.0  | COYOTE        | 0.0        | 31.0  | 15.5  | 15967.0                | 10786.3 | 14475.4 | 171.0      | 263.0 | 217.0 | 0.1                    | 0.0     | 0.0     | 15967.1          | 10786.3 | 14475.6 |
| 141  | 1.0  | RALSTON       | 123.0      | 168.0 | 145.5 | 33.2                   | 0.2     | 2.8     | 208.0      | 246.0 | 227.0 | 0.0                    | 0.0     | 0.0     | 33.2             | 0.2     | 2.8     |
| 3    | 2.0  | DEEP CRK      | 209.0      | 244.0 | 226.8 | 180.4                  | 36.7    | 83.9    | 73.0       | 100.0 | 86.8  | 7870.4                 | 4930.6  | 6341.2  | 8050.9           | 4967.3  | 6425.0  |
| 47   | 2.0  | HUNTINGTON    | 224.0      | 272.0 | 248.0 | 95.4                   | 8.4     | 30.0    | 160.0      | 189.0 | 174.8 | 1003.6                 | 349.1   | 605.3   | 1099.0           | 257.5   | 635.4   |
| 48   | 3.0  | BEAVER        | 149.0      | 186.0 | 164.8 | 3786.6                 | 3673.5  | 4659.1  | 60.0       | 88.0  | 74.0  | 11618.5                | 9627.9  | 10670.9 | 17405.1          | 13301.3 | 15330.0 |
| 49   | 2.0  | PAROMAN       | 129.0      | 168.0 | 148.8 | 2874.7                 | 896.3   | 1667.3  | 81.0       | 116.0 | 98.8  | 4933.9                 | 3465.3  | 5052.1  | 9810.5           | 4261.6  | 6719.3  |
| 51   | 1.0  | CEDAR CITY    | 105.0      | 149.0 | 127.4 | 168.5                  | 1.7     | 20.8    | 85.0       | 128.0 | 106.8 | 687.4                  | 17.1    | 130.1   | 855.8            | 18.8    | 150.8   |
| 52   | 1.0  | LUND DIST     | 104.0      | 140.0 | 122.0 | 193.2                  | 3.4     | 36.7    | 84.0       | 128.0 | 106.0 | 767.9                  | 17.1    | 139.4   | 961.0            | 22.4    | 176.1   |
| 53   | 1.0  | PINE(H)       | 224.0      | 277.0 | 250.8 | 0.0                    | 0.0     | 0.0     | 185.0      | 216.0 | 200.8 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 54   | 1.0  | CRESENT       | 249.0      | 280.0 | 264.8 | 0.0                    | 0.0     | 0.0     | 205.0      | 236.0 | 220.8 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 55   | 1.0  | CARICO L      | 236.0      | 272.0 | 254.0 | 0.0                    | 0.0     | 0.0     | 228.0      | 241.0 | 234.8 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 56   | 2.0  | UPPER REES    | 193.0      | 256.0 | 224.8 | 348.5                  | 19.9    | 92.0    | 232.0      | 263.0 | 248.8 | 56.3                   | 10.2    | 24.7    | 404.9            | 30.1    | 116.7   |
| 137B | 2.0  | BIG SHOKY     | 176.0      | 232.0 | 204.0 | 676.9                  | 65.8    | 228.5   | 217.0      | 256.0 | 236.8 | 109.1                  | 17.1    | 44.8    | 785.9            | 82.8    | 273.3   |
| 138  | 1.0  | GRASS         | 220.0      | 253.0 | 236.8 | 0.0                    | 0.0     | 0.0     | 208.0      | 232.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 150  | 1.0  | LIT FISH L    | 153.0      | 181.0 | 167.6 | 1.0                    | 0.0     | 0.2     | 173.0      | 216.0 | 204.8 | 0.0                    | 0.0     | 0.0     | 1.1              | 0.0     | 0.2     |
| 153  | 1.0  | DIAPOND       | 196.0      | 248.0 | 222.0 | 0.0                    | 0.0     | 0.0     | 169.0      | 192.0 | 180.8 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 161  | 1.0  | INDIAN SPR    | 37.0       | 65.0  | 51.6  | 8966.4                 | 2756.7  | 5385.8  | 224.0      | 272.0 | 248.0 | 0.0                    | 0.0     | 0.0     | 8966.4           | 2756.7  | 5385.8  |
| 169  | 1.0  | TINABOO S     | 8.0        | 41.0  | 24.8  | 15353.3                | 7878.8  | 12422.2 | 204.0      | 228.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 15353.3          | 7878.8  | 12422.2 |
| 176  | 3.0  | RUBY          | 224.0      | 288.0 | 256.0 | 1640.4                 | 371.2   | 817.4   | 145.0      | 169.0 | 157.6 | 5320.1                 | 3711.2  | 4424.4  | 6870.6           | 4082.4  | 5252.0  |
| 185  | 1.0  | TIPPETT       | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 84.0       | 104.0 | 94.0  | 767.9                  | 163.5   | 371.3   | 767.9            | 163.5   | 371.3   |
| 186  | 1.0  | ANTELOPE      | 233.0      | 261.0 | 247.6 | 0.0                    | 0.0     | 0.0     | 96.0       | 124.0 | 110.0 | 318.0                  | 25.7    | 98.0    | 318.0            | 25.7    | 98.0    |
| 187  | 1.0  | COBAYTE       | 241.0      | 288.0 | 264.8 | 0.0                    | 0.0     | 0.0     | 117.0      | 152.0 | 134.8 | 48.4                   | 1.1     | 8.2     | 48.4             | 1.1     | 8.2     |
| 198  | 2.0  | DRY           | 80.0       | 96.0  | 88.0  | 8310.0                 | 6234.4  | 7345.1  | 120.0      | 136.0 | 128.0 | 3147.1                 | 2072.0  | 2570.3  | 11457.1          | 8306.6  | 9815.4  |
| 201  | 3.0  | SPRING        | 96.0       | 116.0 | 106.0 | 10512.5                | 8673.5  | 9592.2  | 105.0      | 121.0 | 113.6 | 8249.3                 | 6995.5  | 7618.7  | 18761.8          | 15669.0 | 17210.9 |
| 205  | 2.0  | MEADOW V      | 8.0        | 64.0  | 36.0  | 15863.1                | 10512.5 | 139     |            |       |       |                        |         |         |                  |         |         |

Table 6.

## EFFECT INDEX OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS

ALTERNATIVE NO. 3  
 BASE A: SERVL LONG TERM POP. 16943.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO   | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0  | SNAKE         | 51.0       | 137.0 | 94.0  | 15057.8                | 7233.0  | 11349.0 | 23.0       | 89.0  | 57.0  | 13944.0                | 10017.3 | 12381.4 | 29003.8          | 17230.3 | 23730.4 |
| 5    | 1.0  | PINE          | 18.0       | 62.0  | 40.0  | 14844.2                | 3528.9  | 8818.0  | 58.0       | 94.0  | 76.0  | 3624.9                 | 389.9   | 1338.0  | 18478.7          | 3918.0  | 10176.0 |
| 6    | 2.0  | WHITE         | 68.0       | 126.0 | 97.0  | 10370.0                | 3353.0  | 6487.0  | 60.0       | 83.0  | 72.9  | 9934.3                 | 6864.0  | 8391.2  | 20306.3          | 10201.0 | 14874.9 |
| 7    | 1.0  | FISH SPR      | 108.0      | 154.0 | 131.0 | 143.0                  | 1.1     | 15.4    | 85.0       | 108.0 | 94.5  | 751.7                  | 122.8   | 320.7   | 894.7            | 123.8   | 336.0   |
| 8    | 1.0  | DUGWAY        | 126.0      | 162.0 | 144.0 | 26.0                   | 0.4     | 3.6     | 100.0      | 122.0 | 111.0 | 242.2                  | 33.0    | 93.9    | 268.2            | 33.4    | 97.5    |
| 9    | 2.0  | GOVT CRK      | 135.0      | 174.0 | 154.3 | 2638.4                 | 771.4   | 1483.1  | 114.0      | 142.0 | 128.0 | 3809.2                 | 1833.1  | 2693.8  | 6447.6           | 2604.3  | 4178.9  |
| 46   | 3.0  | SEV DES       | 72.0       | 166.0 | 119.0 | 13393.3                | 4893.7  | 8914.1  | 82.0       | 133.0 | 118.3 | 10374.1                | 4823.8  | 7389.0  | 23949.4          | 9481.3  | 16303.1 |
| 46A  | 1.0  | SEV LAKE      | 54.0       | 103.0 | 79.3  | 9153.4                 | 188.2   | 1284.2  | 73.0       | 103.0 | 89.0  | 1444.3                 | 188.9   | 363.8   | 6597.7           | 377.1   | 1850.0  |
| 50   | 1.0  | MILFORD       | 28.0       | 71.0  | 49.5  | 12303.1                | 2164.7  | 6232.3  | 91.0       | 169.0 | 130.0 | 488.3                  | 0.1     | 14.3    | 12791.6          | 2164.7  | 6246.8  |
| 53   | 3.0  | SERVL-ENT     | 0.0        | 20.0  | 10.0  | 16943.0                | 16638.6 | 18664.3 | 63.0       | 180.0 | 131.3 | 10497.2                | 3300.8  | 6549.0  | 27440.3          | 19939.2 | 23415.3 |
| 54   | 1.0  | MAN HAM       | 24.0       | 71.0  | 48.3  | 12857.6                | 2164.7  | 6484.7  | 69.0       | 100.0 | 84.3  | 2035.0                 | 242.2   | 778.1   | 14912.6          | 2404.9  | 7244.8  |
| 137A | 2.0  | BIG SHOKY     | 192.0      | 229.0 | 210.3 | 393.9                  | 80.4    | 184.2   | 123.0      | 183.0 | 153.0 | 3064.1                 | 470.6   | 1314.4  | 3458.0           | 391.0   | 1300.6  |
| 140  | 1.0  | MONITOR       | 169.0      | 212.0 | 190.3 | 0.1                    | 0.0     | 0.0     | 72.0       | 109.0 | 90.3  | 1729.1                 | 112.4   | 504.9   | 1729.3           | 112.4   | 504.9   |
| 142  | 1.0  | ALKALI SPR    | 188.0      | 206.0 | 197.0 | 0.0                    | 0.0     | 60.0    | 95.0       | 118.0 | 101.3 | 6864.0                 | 3443.0  | 5014.3  | 7882.2           | 3814.9  | 5424.1  |
| 149  | 1.0  | STONE CBN     | 149.0      | 174.0 | 161.3 | 2.0                    | 0.1     | 0.4     | 98.0       | 143.0 | 121.5 | 284.7                  | 2.7     | 34.7    | 284.6            | 2.8     | 35.1    |
| 151  | 1.0  | ANTELOPE      | 158.0      | 182.0 | 170.0 | 0.6                    | 0.0     | 0.1     | 68.0       | 89.0  | 78.3  | 2173.2                 | 563.8   | 1139.9  | 2173.8           | 563.8   | 1140.0  |
| 154  | 1.0  | NEWARK        | 134.0      | 178.0 | 156.0 | 11.1                   | 0.0     | 0.8     | 34.0       | 74.0  | 54.0  | 8930.9                 | 1334.9  | 4363.8  | 8961.6           | 1334.9  | 4364.6  |
| 159  | 1.0  | LITTLE SHO    | 123.0      | 163.0 | 150.0 | 10.0                   | 0.3     | 1.7     | 49.0       | 88.0  | 68.3  | 3384.6                 | 608.2   | 2113.3  | 3394.6           | 608.4   | 2113.2  |
| 156  | 2.0  | HOT CRK       | 137.0      | 157.0 | 147.0 | 2493.9                 | 1364.8  | 1864.0  | 71.0       | 120.0 | 93.9  | 8577.6                 | 3300.8  | 3637.1  | 11073.3          | 4670.3  | 7325.0  |
| 170  | 2.0  | PENDYER       | 102.0      | 132.0 | 117.0 | 5860.4                 | 2862.1  | 4191.3  | 88.0       | 129.0 | 108.3 | 6310.0                 | 2626.0  | 4313.8  | 12370.4          | 3489.1  | 8937.2  |
| 171  | 1.0  | CDAL          | 73.0       | 100.0 | 87.3  | 1703.6                 | 284.0   | 744.4   | 66.0       | 103.0 | 83.3  | 2424.4                 | 139.4   | 726.0   | 4130.0           | 445.4   | 1470.4  |
| 172  | 2.0  | GARDEN        | 89.0       | 112.0 | 100.3 | 7550.3                 | 4710.8  | 6044.9  | 63.0       | 102.0 | 82.3  | 956.1                  | 4942.3  | 7163.7  | 17119.4          | 9673.3  | 13208.6 |
| 173  | 1.0  | RAILROAD      | 98.0       | 149.0 | 123.3 | 336.2                  | 2.0     | 33.9    | 29.0       | 126.0 | 77.3  | 10178.5                | 22.0    | 1234.2  | 10814.6          | 24.0    | 1264.7  |
| 174  | 1.0  | JAKES         | 118.0      | 142.0 | 130.0 | 37.6                   | 4.5     | 17.1    | 13.0       | 37.0  | 26.0  | 13088.1                | 8203.2  | 10887.6 | 13143.8          | 8209.7  | 10904.7 |
| 175  | 1.0  | LONG          | 138.0      | 169.0 | 153.3 | 7.1                    | 0.1     | 1.1     | 34.0       | 73.0  | 54.3  | 8930.5                 | 1444.3  | 4268.2  | 8937.6           | 1444.4  | 4269.3  |
| 178  | 1.0  | BUTTE         | 129.0      | 194.0 | 161.3 | 19.0                   | 0.0     | 0.4     | 23.0       | 97.0  | 60.0  | 11560.8                | 308.2   | 3300.8  | 11579.8          | 308.2   | 3301.2  |
| 179  | 2.0  | STEPDIE       | 129.0      | 182.0 | 155.3 | 3101.2                 | 376.9   | 1434.9  | 0.0        | 83.0  | 42.3  | 14347.0                | 6864.0  | 11932.1 | 17448.2          | 7440.9  | 12369.0 |
| 180  | 2.0  | CAVE          | 71.0       | 92.0  | 81.3  | 10129.7                | 7143.3  | 8602.7  | 20.0       | 62.0  | 41.0  | 13773.2                | 9692.0  | 12083.5 | 23902.9          | 16835.3 | 20688.2 |
| 181  | 1.0  | DRY LAKE      | 49.0       | 69.0  | 59.0  | 6358.9                 | 2426.8  | 4092.0  | 46.0       | 109.0 | 77.3  | 6048.8                 | 112.4   | 1234.2  | 12407.7          | 2339.2  | 3328.2  |
| 182  | 1.0  | DELANAR       | 63.0       | 83.0  | 73.0  | 3353.0                 | 1018.2  | 1724.7  | 100.0      | 129.0 | 114.3 | 242.2                  | 16.1    | 68.0    | 3359.2           | 1034.3  | 1992.7  |
| 183  | 2.0  | LAKE          | 43.0       | 83.0  | 64.0  | 13780.1                | 8388.8  | 11133.1 | 29.0       | 68.0  | 46.3  | 12460.6                | 8930.3  | 11504.4 | 27240.4          | 17339.2 | 22661.3 |
| 184  | 2.0  | SPRING        | 49.0       | 131.0 | 100.0 | 13261.4                | 1634.0  | 6107.1  | 9.0        | 64.0  | 34.3  | 14228.9                | 9445.9  | 12523.4 | 27490.3          | 11100.0 | 18630.4 |
| 196  | 2.0  | HARLIN        | 11.0       | 73.0  | 43.0  | 16733.1                | 9343.6  | 14029.8 | 34.0       | 99.0  | 64.3  | 13750.6                | 3712.3  | 9384.2  | 29485.7          | 13255.9 | 23413.9 |
| 202  | 2.0  | PATTERSON     | 33.0       | 60.0  | 47.3  | 14932.1                | 11734.2 | 13458.7 | 58.0       | 91.0  | 74.3  | 10178.3                | 6162.9  | 8143.2  | 23130.6          | 17897.1 | 21601.9 |
| 207  | 2.0  | WHITERIVER    | 74.0       | 123.0 | 98.3  | 9689.9                 | 3618.6  | 6293.3  | 5.0        | 72.0  | 38.3  | 14310.4                | 8453.2  | 12332.2 | 24000.0          | 13071.9 | 18428.9 |
| 208  | 1.0  | PAHROC        | 74.0       | 100.0 | 87.0  | 1812.6                 | 284.0   | 771.4   | 97.0       | 138.0 | 117.3 | 308.2                  | 6.0     | 51.2    | 2120.8           | 292.0   | 822.6   |
| 209  | 1.0  | PANRAGAT      | 74.0       | 100.0 | 87.0  | 1812.6                 | 284.0   | 771.4   | 97.0       | 138.0 | 117.3 | 308.2                  | 6.0     | 51.2    | 2120.8           | 292.0   | 822.6   |
| 210  | 1.0  | COYTE         | 71.0       | 114.0 | 92.3  | 2164.7                 | 84.2    | 513.6   | 132.0      | 243.0 | 187.3 | 11.7                   | 0.0     | 0.0     | 2176.4           | 84.2    | 515.6   |
| 141  | 1.0  | RAUSTON       | 171.0      | 194.0 | 182.3 | 0.1                    | 0.0     | 0.0     | 112.0      | 137.0 | 134.3 | 85.7                   | 0.6     | 8.9     | 85.8             | 0.6     | 8.9     |
| 3    | 2.0  | DEEP CRK      | 132.0      | 164.0 | 148.0 | 2863.1                 | 1089.1  | 1812.6  | 60.0       | 89.6  | 74.8  | 9934.3                 | 6223.9  | 8104.1  | 12799.4          | 7412.0  | 9918.7  |
| 47   | 2.0  | HUNTINGTON    | 181.6      | 224.0 | 202.8 | 383.3                  | 101.3   | 254.9   | 72.0       | 116.0 | 94.0  | 8433.3                 | 3634.3  | 5823.3  | 9038.8           | 3735.8  | 6078.4  |
| 48   | 3.0  | BEAVER        | 32.0       | 81.6  | 66.8  | 14987.6                | 12526.9 | 13838.9 | 125.6      | 132.0 | 138.8 | 7015.4                 | 5031.6  | 9988.4  | 22003.0          | 17358.3 | 19827.3 |
| 49   | 2.0  | PARDMAN       | 41.6       | 72.0  | 56.8  | 14200.4                | 9982.9  | 12190.4 | 136.0      | 156.0 | 146.0 | 2173.2                 | 1197.3  | 1629.9  | 16373.3          | 11180.3 | 13820.1 |
| 51   | 1.0  | CEGAR CITY    | 28.0       | 52.0  | 40.0  | 12303.1                | 3619.2  | 8818.0  | 128.0      | 156.0 | 142.0 | 17.9                   | 0.7     | 3.8     | 12321.0          | 3619.9  | 8821.8  |
| 52   | 1.0  | LUND DIST     | 8.0        | 40.0  | 24.0  | 16306.1                | 8818.0  | 13393.3 | 93.6       | 140.0 | 116.8 | 401.6                  | 4.8     | 34.8    | 16907.7          | 8822.8  | 13448.0 |
| 53   | 1.0  | PINE(N)       | 196.0      | 237.0 | 218.8 | 0.0                    | 0.0     | 0.0     | 88.0       | 128.0 | 108.0 | 608.2                  | 17.9    | 122.8   | 608.2            | 17.9    | 122.8   |
| 34   | 1.0  | CRESENT       | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 116.0      | 141.0 | 128.8 | 39.1                   | 4.0     | 16.4    | 39.1             | 4.0     | 16.4    |
| 35   | 1.0  | CARIC L       | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 121.6      | 140.0 | 130.8 | 34.3                   | 4.8     | 12.3    | 34.3             | 4.8     | 12.3    |
| 36   | 2.0  | UPPER REES    | 212.0      | 244.0 | 228.0 | 172.7                  | 39.0    | 84.2    | 125.6      | 132.0 | 138.8 | 2868.6                 | 1338.0  | 2009.1  | 3041.2           | 1394.9  | 2093.3  |
| 137B | 2.0  | BIG SHOKY     | 192.0      | 229.0 | 210.3 | 393.9                  | 112.9   | 213.7   | 108.0      | 141.0 | 124.8 | 4363.8                 | 1834.4  | 2927.8  | 4737.6           | 1967.3  | 3143.3  |
| 138  | 1.0  | GRASS         | 208.0      | 232.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 103.6      | 125.6 | 115.6 | 131.4                  | 22.9    | 61.4    | 131.4            | 22.9    | 61.4    |
| 150  | 1.0  | LIT FISH L    | 160.0      | 176.0 | 168.0 | 0.3                    | 0.1     | 0.2     | 80.0       | 104.0 | 92.0  | 1032.6                 | 173.6   | 453.3   | 1033.1           | 173.6   | 453.3   |
| 153  | 1.0  | DIAMOND       | 168.0      | 208.0 | 188.0 | 0.2                    | 0.0     | 0.0     | 61.6       | 97.6  | 79.6  | 3048.8                 | 293.9   | 1080.4  | 3048.9           | 293.9   | 1080.4  |
| 161  | 1.0  | INDIAN SPR    | 124.0      | 163.0 | 144.8 | 31.9                   | 0.2     | 3.3     | 153.6      | 203.6 | 179.6 | 0.9                    | 0.0     | 0.0     | 32.8             | 0.2     | 3.3     |
| 169  | 1.0  | TINABO S      | 100.0      | 120.0 | 110.0 | 286.0                  | 47.3    | 131.4   | 136.0      | 176.0 | 156.0 | 7.6                    | 0.0     | 0.7     | 293.3            | 47.3    | 122.1   |
| 176  | 3.0  | RUBY          | 176.0      | 228.0 | 202.0 | 4158.1                 | 1603.7  | 2662.7  | 63.6       | 124.0 | 94.8  | 11803.3                | 7143.6  | 9544.3  | 15961.3          | 8747.3  | 12207.2 |
| 189  | 1.0  | TIPPETT       | 132.0      | 157.6 | 144.8 | 13.8                   | 0.7     | 3.3     | 43.6       | 73.6  | 59.6  | 6140.0                 | 1572.3  | 3363.8  | 6153.8           | 1973.0  | 3369.1  |
| 186  | 1.0  | ANTELOPE      | 132.0      | 188.0 | 170.0 | 1.4                    | 0.0     | 0.1     | 68.0       | 100.0 | 84.0  | 2173.2                 | 242.2   | 803.4   | 2174.5           | 242.2   | 803.5   |
| 187  | 1.0  | GOSMUTE       | 173.6      | 208.0 | 190.8 | 0.1                    | 0.0     | 0.0     | 77.6       | 128.0 | 102.8 | 1228.4                 | 17.9    | 192.1   | 1228.4           | 17.9    | 192.1   |
| 198  | 2.0  | DRY           | 24.0       | 40.0  | 32.0  | 13973.9                | 14390.8 | 15262.0 | 92.0       | 104.0 | 98.0  | 6048.8                 | 4738.2  | 5384.6  | 32024.7          | 19149.0 | 20446.6 |
| 201  | 3.0  | SPRING        | 24.0       | 32.0  | 28.0  | 16506.1                | 14987.6 | 15869.0 | 64.0       | 93.6  | 78.8  | 11914.8                | 9642.9  | 10825.8 | 28420.9          | 24630.3 | 26694.8 |
| 203  | 2.0  | ME            |            |       |       |                        |         |         |            |       |       |                        |         |         |                  |         |         |

Table 7.

## EFFECT INDEX OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP 16943.0  
 BASE B: COYOTE LONG TERM POP 12193.0

| NO   | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |         | COMBINED EFFECTS |         |         |     |
|------|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|---------|------------------|---------|---------|-----|
|      |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE     | MAX              | MIN     | AVE     |     |
| 4    | 3    | SNAKE         | 31.0       | 137.0 | 94.0  | 15057.8                | 7233.0  | 11349.0 | 132.0      | 225.0 | 178.3 | 5533.3                 | 1237.7 | 2874.9  | 20591.3          | 8460.7  | 14223.9 |     |
| 5    | 1    | PINE          | 18.0       | 62.0  | 40.0  | 14844.2                | 3528.5  | 8818.0  | 108.0      | 152.0 | 120.0 | 104.4                  | 1.0    | 12.3    | 14948.6          | 3529.3  | 8830.3  |     |
| 6    | 2    | WHITE         | 68.0       | 126.0 | 97.0  | 10570.0                | 3353.0  | 6486.7  | 158.0      | 214.0 | 186.0 | 934.7                  | 113.9  | 337.3   | 11324.7          | 3466.9  | 6844.0  |     |
| 7    | 1    | FISH SPR      | 108.0      | 154.0 | 131.0 | 143.0                  | 1.1     | 13.4    | 198.0      | 243.0 | 221.9 | 0.0                    | 0.0    | 0.0     | 143.0            | 1.1     | 15.4    |     |
| 8    | 1    | DUGWAY        | 126.0      | 162.0 | 144.0 | 26.0                   | 0.4     | 3.6     | 220.0      | 252.0 | 236.0 | 0.0                    | 0.0    | 0.0     | 26.0             | 0.4     | 3.6     |     |
| 9    | 2    | COYT CRK      | 135.0      | 174.0 | 154.5 | 2638.4                 | 771.4   | 1483.1  | 231.0      | 263.0 | 247.0 | 52.7                   | 10.5   | 24.1    | 2691.0           | 781.9   | 1507.2  |     |
| 46   | 3    | SEV DES       | 72.0       | 166.0 | 119.0 | 13393.3                | 4855.7  | 8914.1  | 171.0      | 263.0 | 217.0 | 3237.8                 | 529.5  | 1441.2  | 16311.1          | 5385.1  | 10355.3 |     |
| 46A  | 1    | SEV LAKE      | 34.0       | 103.0 | 79.5  | 5153.4                 | 188.2   | 1284.2  | 154.0      | 195.0 | 174.5 | 0.8                    | 0.0    | 0.0     | 5154.1           | 188.2   | 1284.3  |     |
| 50   | 1    | MILFORD       | 28.0       | 71.0  | 49.5  | 12303.1                | 2164.7  | 6232.3  | 117.0      | 159.0 | 138.0 | 45.7                   | 0.4    | 3.1     | 12348.8          | 2165.2  | 6237.5  |     |
| 53   | 3    | BERYL-ENT     | 0.0        | 20.0  | 10.0  | 16943.0                | 16638.4 | 16866.3 | 77.0       | 119.0 | 98.0  | 9219.8                 | 6416.1 | 7889.0  | 26262.8          | 23054.3 | 24735.3 |     |
| 54   | 1    | WAM WAM       | 26.0       | 71.0  | 48.5  | 12857.6                | 2164.7  | 6486.7  | 123.0      | 163.0 | 143.0 | 25.4                   | 0.2    | 2.9     | 12883.0          | 2165.0  | 6489.6  |     |
| 137A | 2    | BIG SHOKY     | 192.0      | 229.0 | 210.5 | 393.9                  | 80.4    | 184.2   | 149.0      | 194.0 | 171.5 | 1263.7                 | 262.0  | 606.4   | 1639.5           | 342.4   | 790.6   |     |
| 139  | 1    | KOBEH         | 169.0      | 212.0 | 190.5 | 0.1                    | 0.0     | 0.0     | 189.0      | 226.0 | 207.5 | 0.0                    | 0.0    | 0.0     | 0.2              | 0.0     | 0.0     |     |
| 140  | 2    | MONITOR       | 166.0      | 195.0 | 180.5 | 1018.2                 | 349.9   | 609.8   | 151.0      | 203.0 | 177.0 | 1190.5                 | 182.0  | 498.7   | 2208.7           | 531.8   | 1108.4  |     |
| 142  | 1    | ALKALI SPR    | 188.0      | 206.0 | 197.0 | 0.0                    | 0.0     | 0.0     | 134.0      | 157.0 | 145.8 | 8.0                    | 0.5    | 2.2     | 8.0              | 0.5     | 2.2     |     |
| 149  | 1    | STONE CBN     | 149.0      | 174.0 | 161.5 | 2.0                    | 0.1     | 0.4     | 112.0      | 135.0 | 133.3 | 72.9                   | 0.7    | 8.5     | 74.8             | 0.7     | 8.9     |     |
| 151  | 1    | ANTELOPE      | 158.0      | 182.0 | 170.0 | 0.6                    | 0.0     | 0.1     | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0     | 0.7              | 0.0     | 0.1     |     |
| 154  | 1    | NEWMARK       | 134.0      | 178.0 | 156.0 | 11.1                   | 0.0     | 0.8     | 166.0      | 217.0 | 191.5 | 0.2                    | 0.0    | 0.0     | 11.3             | 0.0     | 0.8     |     |
| 155  | 1    | LITTLE SHO    | 135.0      | 165.0 | 150.0 | 10.0                   | 0.3     | 1.7     | 118.0      | 188.0 | 153.0 | 41.5                   | 0.0    | 0.9     | 31.5             | 0.3     | 2.6     |     |
| 156  | 2    | HOT CRK       | 137.0      | 157.0 | 147.0 | 2495.9                 | 1369.8  | 1868.0  | 103.0      | 163.0 | 134.0 | 3959.1                 | 810.5  | 1951.9  | 6455.0           | 2180.3  | 3819.8  |     |
| 170  | 2    | PENOVY        | 102.0      | 132.0 | 117.0 | 5860.4                 | 2863.1  | 4191.3  | 63.0       | 95.0  | 80.0  | 7924.1                 | 4835.3 | 6246.9  | 13784.5          | 7718.4  | 10338.2 |     |
| 171  | 1    | COAL          | 75.0       | 100.0 | 87.5  | 1703.6                 | 286.0   | 744.4   | 62.0       | 97.0  | 79.5  | 2339.7                 | 262.0  | 924.3   | 4243.3           | 548.0   | 1668.8  |     |
| 172  | 2    | GARDEN        | 89.0       | 112.0 | 100.5 | 7530.3                 | 4710.8  | 6044.9  | 69.0       | 109.0 | 89.0  | 7502.3                 | 3628.0 | 5424.5  | 15052.6          | 8338.8  | 11479.4 |     |
| 173  | 1    | RAILROAD      | 98.0       | 149.0 | 123.5 | 336.2                  | 2.0     | 33.3    | 83.0       | 171.0 | 127.0 | 732.9                  | 0.1    | 16.9    | 1069.0           | 2.0     | 30.4    |     |
| 174  | 1    | JAMES         | 118.0      | 142.0 | 130.0 | 57.6                   | 4.5     | 17.1    | 155.0      | 186.0 | 170.5 | 0.7                    | 0.0    | 0.1     | 58.3             | 4.5     | 17.2    |     |
| 175  | 1    | LONG          | 138.0      | 169.0 | 153.5 | 7.1                    | 0.1     | 1.1     | 178.0      | 232.0 | 205.0 | 0.0                    | 0.0    | 0.0     | 7.2              | 0.1     | 1.1     |     |
| 178  | 1    | BUTTE         | 129.0      | 194.0 | 161.5 | 19.0                   | 0.0     | 0.4     | 178.0      | 234.0 | 216.0 | 0.0                    | 0.0    | 0.0     | 19.0             | 0.0     | 0.4     |     |
| 179  | 2    | STEPTOE       | 129.0      | 182.0 | 155.5 | 3101.2                 | 376.9   | 1436.9  | 132.0      | 243.0 | 187.5 | 2060.7                 | 29.5   | 337.4   | 5162.0           | 636.3   | 1774.3  |     |
| 180  | 2    | CAVE          | 71.0       | 92.0  | 81.5  | 10129.7                | 7143.3  | 8602.7  | 97.0       | 138.0 | 117.5 | 4668.9                 | 1746.8 | 2980.9  | 14778.6          | 8890.1  | 11583.6 |     |
| 181  | 1    | DRY LAKE      | 49.0       | 69.0  | 59.0  | 6358.9                 | 2426.8  | 4092.0  | 49.0       | 112.0 | 80.5  | 4376.9                 | 72.9   | 865.9   | 10935.8          | 2499.7  | 4957.9  |     |
| 182  | 1    | DELMAR        | 63.0       | 83.0  | 73.0  | 3353.0                 | 1018.2  | 1924.7  | 29.0       | 58.0  | 43.5  | 8651.7                 | 3089.4 | 5633.2  | 12004.7          | 4107.3  | 7357.9  |     |
| 183  | 2    | LAKE          | 43.0       | 83.0  | 64.0  | 13780.1                | 8388.8  | 11155.1 | 100.0      | 138.0 | 119.0 | 4379.7                 | 1746.8 | 2874.9  | 18175.7          | 10135.5 | 14030.0 |     |
| 184  | 2    | SPRING        | 49.0       | 151.0 | 100.0 | 10261.4                | 1654.0  | 6107.1  | 112.0      | 218.0 | 165.0 | 3390.7                 | 95.5   | 758.0   | 16652.0          | 1749.6  | 6865.1  |     |
| 196  | 2    | HARLIN        | 11.0       | 75.0  | 43.0  | 16735.1                | 9543.4  | 14029.8 | 91.0       | 145.0 | 118.0 | 5328.3                 | 1427.1 | 2943.3  | 21973.5          | 10970.7 | 16975.1 |     |
| 202  | 2    | PATTERSON     | 35.0       | 60.0  | 47.5  | 14952.1                | 11734.2 | 13458.7 | 75.0       | 103.0 | 89.0  | 6869.2                 | 4130.8 | 5424.5  | 21821.3          | 13865.0 | 18893.2 |     |
| 207  | 2    | WHITERIVER    | 74.0       | 123.0 | 98.5  | 9689.9                 | 3618.6  | 6275.5  | 89.0       | 169.0 | 129.0 | 5434.5                 | 661.4  | 2232.1  | 15124.3          | 4280.0  | 8527.6  |     |
| 208  | 1    | PAHRD         | 74.0       | 100.0 | 87.0  | 1812.6                 | 286.0   | 771.4   | 22.0       | 66.0  | 44.0  | 10008.9                | 2060.7 | 5533.3  | 11821.5          | 2346.7  | 6304.9  |     |
| 209  | 1    | PAHRANADAT    | 74.0       | 100.0 | 87.0  | 1812.6                 | 286.0   | 771.4   | 22.0       | 66.0  | 44.0  | 10008.9                | 2060.7 | 5533.3  | 11821.5          | 2346.7  | 6304.9  |     |
| 210  | 1    | COYOTE        | 71.0       | 114.0 | 92.5  | 2164.7                 | 84.2    | 315.6   | 0.0        | 31.0  | 15.5  | 12193.0                | 8238.2 | 11055.9 | 14359.7          | 8322.4  | 11571.5 |     |
| 141  | 1    | RAILSTON      | 171.0      | 194.0 | 182.5 | 0.1                    | 0.0     | 0.0     | 123.0      | 168.0 | 143.5 | 25.4                   | 0.1    | 2.2     | 25.5             | 0.1     | 2.2     |     |
| 3    | 2    | DEEP CRK      | 132.0      | 164.0 | 148.0 | 2863.1                 | 1089.1  | 1812.6  | 209.0      | 244.0 | 226.8 | 137.8                  | 28.0   | 44.1    | 3000.9           | 1117.2  | 1876.7  |     |
| 47   | 2    | HUNTINGTON    | 181.0      | 224.0 | 202.8 | 585.5                  | 101.3   | 254.9   | 224.0      | 272.0 | 248.0 | 72.9                   | 6.4    | 22.9    | 636.4            | 107.7   | 277.8   |     |
| 48   | 3    | BEAVER        | 32.0       | 81.0  | 66.8  | 14987.6                | 12526.9 | 13838.9 | 149.0      | 180.0 | 164.8 | 4419.6                 | 2805.7 | 3558.4  | 19407.2          | 15332.6 | 17397.4 |     |
| 49   | 2    | PARDMAN       | 41.0       | 72.0  | 56.8  | 14200.4                | 9982.9  | 12190.4 | 139.0      | 168.0 | 148.8 | 2197.1                 | 684.6  | 1273.4  | 15397.4          | 10867.5 | 13463.8 |     |
| 51   | 1    | CEDAR CITY    | 28.0       | 52.0  | 40.0  | 12303.1                | 3619.2  | 8818.0  | 103.0      | 149.0 | 127.6 | 128.7                  | 1.3    | 15.8    | 12431.8          | 3620.5  | 8833.8  |     |
| 52   | 1    | LUND DIST     | 8.0        | 40.0  | 24.0  | 16506.1                | 8818.0  | 13393.3 | 104.0      | 140.0 | 122.0 | 147.5                  | 4.1    | 28.0    | 16653.7          | 8822.1  | 13421.3 |     |
| 53   | 1    | PINE(N)       | 196.0      | 237.0 | 216.8 | 0.0                    | 0.0     | 0.0     | 224.0      | 277.0 | 230.8 | 0.0                    | 0.0    | 0.0     | 0.0              | 0.0     | 0.0     |     |
| 54   | 1    | CRESENT       | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 249.0      | 280.0 | 264.8 | 0.0                    | 0.0    | 0.0     | 0.0              | 0.0     | 0.0     |     |
| 55   | 1    | CARICO L      | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 0.0        | 236.0 | 272.0 | 254.0                  | 0.0    | 0.0     | 0.0              | 0.0     | 0.0     |     |
| 56   | 2    | UPPER REEB    | 212.0      | 244.0 | 228.0 | 172.7                  | 39.0    | 84.2    | 193.0      | 256.0 | 224.8 | 266.2                  | 15.2   | 70.3    | 438.9            | 34.2    | 154.4   |     |
| 137B | 2    | BIG SHOKY     | 192.0      | 221.0 | 206.8 | 393.9                  | 112.9   | 215.7   | 176.0      | 232.0 | 204.0 | 317.0                  | 50.2   | 174.6   | 910.8            | 163.2   | 390.2   |     |
| 138  | 1    | GRASS         | 208.0      | 232.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 0.0        | 220.0 | 253.0 | 226.8                  | 0.0    | 0.0     | 0.0              | 0.0     | 0.0     |     |
| 150  | 1    | LIT FISH L    | 140.0      | 174.0 | 168.0 | 0.5                    | 0.1     | 0.2     | 153.0      | 181.0 | 167.6 | 0.8                    | 0.0    | 0.1     | 1.3              | 0.1     | 0.3     |     |
| 153  | 1    | DIAMOND       | 168.0      | 208.0 | 188.0 | 0.2                    | 0.0     | 0.0     | 0.0        | 196.0 | 248.0 | 222.0                  | 0.0    | 0.0     | 0.0              | 0.2     | 0.0     | 0.0 |
| 161  | 1    | INDIAN SPR    | 124.0      | 165.0 | 144.8 | 31.9                   | 0.2     | 3.3     | 37.0       | 63.0  | 51.6  | 6848.2                 | 2105.5 | 4113.5  | 6880.0           | 2103.7  | 4116.7  |     |
| 169  | 1    | TIKA300 S     | 100.0      | 120.0 | 110.0 | 286.0                  | 47.5    | 121.4   | 8.0        | 41.0  | 24.8  | 11880.6                | 6017.5 | 9487.6  | 12166.6          | 6065.0  | 9609.0  |     |
| 176  | 3    | RUBY          | 176.0      | 228.0 | 202.0 | 4158.1                 | 1603.7  | 2662.7  | 224.0      | 288.0 | 256.0 | 1252.9                 | 282.5  | 624.3   | 5411.0           | 1887.2  | 3287.0  |     |
| 185  | 1    | TIPPETT       | 132.0      | 157.0 | 144.8 | 13.8                   | 0.7     | 3.3     | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0     | 13.8             | 0.7     | 3.3     |     |
| 186  | 1    | ANTELOPE      | 152.0      | 188.0 | 170.0 | 1.4                    | 0.0     | 0.1     | 233.0      | 261.0 | 247.6 | 0.0                    | 0.0    | 0.0     | 1.4              | 0.0     | 0.1     |     |
| 187  | 1    | GOSHUTE       | 173.0      | 208.0 | 190.8 | 0.1                    | 0.0     | 0.0     | 241.0      | 288.0 | 264.8 | 0.0                    | 0.0    | 0.0     | 0.1              | 0.0     | 0.0     |     |
| 197  | 1    | DRY           | 24.0       | 40.0  | 32.0  | 13975.9                | 14390.8 | 15262.0 | 80.0       | 96.0  | 88.0  | 6346.9                 | 4761.8 | 5533.3  | 22322.2          | 19152.6 | 20795.5 |     |
| 201  | 3    | SPRING        | 24.0       | 52.0  | 38.0  | 16506.1                | 14987.6 | 15869.0 | 96.0       | 116.0 | 106.0 | 8029.1                 | 6624.5 | 7326.2  | 24535.2          | 21612.1 | 23195.2 |     |
| 205  | 2    | MEADOW V      | 49.0       | 104.0 | 76.8  | 13181.5                | 3619.2  | 9281.2  | 8.0        | 64.0  | 36.0  | 12115.6                | 8029.1 | 10684.4 | 25297.2          | 13648.2 | 19965.6 |     |
|      |      |               |            |       |       |                        |         |         |            |       |       |                        |        |         |                  |         |         |     |

Table 8.

## EFFECT INDEX OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS

ALTERNATIVE NO. 8  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO.  | LOCATION NAME  | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|----------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |                | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0 SHANE      | 43.0       | 112.0 | 77.3  | 15835.8                | 9749.7  | 13114.7 | 25.0       | 89.0  | 57.0  | 13946.0                | 10017.3 | 12381.4 | 29781.9          | 19767.0 | 25496.1 |
| 5    | 1.0 PINE       | 25.0       | 31.0  | 38.0  | 13343.3                | 3956.6  | 9551.9  | 58.0       | 94.0  | 76.0  | 3634.3                 | 389.3   | 1358.0  | 16978.0          | 6346.0  | 10909.9 |
| 6    | 2.0 WHITE      | 40.0       | 103.0 | 71.3  | 14626.9                | 3833.3  | 10221.3 | 60.0       | 85.0  | 72.3  | 9936.3                 | 4844.0  | 8391.2  | 24363.2          | 12697.3 | 18612.3 |
| 7    | 1.0 FISH SPR   | 82.0       | 129.0 | 105.3 | 1107.0                 | 19.3    | 183.3   | 85.0       | 108.0 | 96.3  | 731.7                  | 122.8   | 320.7   | 1858.7           | 142.1   | 503.9   |
| 8    | 1.0 DUGWAY     | 98.0       | 132.0 | 115.0 | 341.7                  | 14.0    | 77.9    | 100.0      | 122.0 | 111.0 | 242.2                  | 33.0    | 93.9    | 382.9            | 47.0    | 171.8   |
| 9    | 2.0 GOVT CRK   | 103.0      | 143.0 | 123.0 | 3833.3                 | 2137.2  | 3677.9  | 114.0      | 142.0 | 128.0 | 3809.2                 | 1833.1  | 2695.8  | 9642.3           | 3970.3  | 6373.8  |
| 46   | 3.0 SEV DES    | 35.0       | 129.0 | 82.0  | 16290.4                | 8096.5  | 12694.7 | 82.0       | 155.0 | 118.3 | 10576.1                | 4825.8  | 7589.0  | 26866.5          | 12922.3 | 20282.8 |
| 46A  | 1.0 SEV LAKE   | 23.0       | 77.0  | 50.0  | 13876.7                | 1531.3  | 4207.3  | 75.0       | 103.0 | 89.0  | 1444.3                 | 188.9   | 365.8   | 15321.0          | 1720.2  | 6773.1  |
| 50   | 1.0 MILFORD    | 0.0        | 20.0  | 10.0  | 17221.0                | 14626.9 | 16532.3 | 91.0       | 169.0 | 130.0 | 488.3                  | 0.1     | 14.3    | 17709.3          | 14627.1 | 16546.7 |
| 53   | 3.0 BERYL-ENT  | 23.0       | 80.0  | 51.3  | 16812.8                | 12882.6 | 15269.3 | 83.0       | 180.0 | 131.3 | 10497.3                | 3300.8  | 6549.0  | 27310.0          | 16182.3 | 21818.3 |
| 54   | 1.0 MAN MAN    | 9.0        | 49.0  | 29.0  | 16661.0                | 4463.2  | 12217.4 | 69.0       | 100.0 | 84.3  | 2035.0                 | 242.2   | 778.1   | 18716.0          | 6705.4  | 12993.6 |
| 127A | 2.0 BIG SMOXY  | 211.0      | 258.0 | 234.3 | 183.3                  | 19.3    | 63.0    | 123.0      | 183.0 | 153.0 | 3064.1                 | 470.6   | 1316.4  | 3247.4           | 489.9   | 1379.3  |
| 129  | 1.0 ROSEN      | 178.0      | 215.0 | 196.3 | 0.0                    | 0.0     | 0.0     | 72.0       | 109.0 | 90.3  | 1729.1                 | 112.4   | 506.9   | 1789.2           | 112.4   | 506.9   |
| 140  | 2.0 MONITOR    | 186.0      | 209.0 | 197.3 | 304.6                  | 199.7   | 321.7   | 83.0       | 118.0 | 101.3 | 6864.0                 | 3465.0  | 5014.3  | 7368.6           | 3664.7  | 5326.0  |
| 142  | 1.0 ALKALI SPR | 218.0      | 233.0 | 225.3 | 0.0                    | 0.0     | 0.0     | 149.0      | 168.0 | 158.3 | 1.7                    | 0.1     | 0.3     | 1.7              | 0.1     | 0.3     |
| 149  | 1.0 STONE CBN  | 177.0      | 206.0 | 191.3 | 0.0                    | 0.0     | 0.0     | 98.0       | 143.0 | 121.3 | 284.7                  | 2.7     | 34.7    | 284.7            | 2.7     | 34.7    |
| 151  | 1.0 ANTELOPE   | 172.0      | 194.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 68.0       | 89.0  | 78.3  | 2173.2                 | 363.8   | 1139.9  | 2173.3           | 363.8   | 1139.9  |
| 154  | 1.0 NEWMARK    | 142.0      | 180.0 | 161.0 | 4.6                    | 0.0     | 0.4     | 34.0       | 74.0  | 54.0  | 8950.3                 | 1534.9  | 4363.8  | 8950.3           | 1534.9  | 4364.2  |
| 155  | 1.0 LITTLE SHO | 148.0      | 175.0 | 161.3 | 2.3                    | 0.1     | 0.4     | 49.0       | 88.0  | 68.3  | 5384.6                 | 608.2   | 2113.3  | 5384.6           | 608.2   | 2113.9  |
| 156  | 2.0 HOT CRK    | 160.0      | 186.0 | 173.0 | 1263.5                 | 304.6   | 812.3   | 71.0       | 120.0 | 95.3  | 8577.4                 | 3300.8  | 5637.1  | 9841.1           | 3803.3  | 6469.4  |
| 170  | 2.0 PENVOYER   | 134.0      | 168.0 | 151.0 | 2756.3                 | 966.7   | 1681.2  | 88.0       | 129.0 | 108.3 | 6510.0                 | 2626.0  | 4315.8  | 9266.3           | 3592.7  | 5997.0  |
| 171  | 1.0 COAL       | 106.0      | 134.0 | 120.0 | 175.3                  | 11.3    | 48.2    | 66.0       | 103.0 | 85.3  | 2424.4                 | 139.4   | 726.0   | 2599.9           | 170.7   | 774.2   |
| 172  | 2.0 GARDEN     | 117.0      | 142.0 | 129.3 | 4260.1                 | 2200.3  | 3110.8  | 63.0       | 102.0 | 82.3  | 9569.1                 | 4962.3  | 7163.7  | 12829.2          | 7162.8  | 10274.5 |
| 173  | 1.0 RAILROAD   | 118.0      | 178.0 | 148.0 | 58.6                   | 0.0     | 2.3     | 29.0       | 126.0 | 77.3  | 10178.3                | 32.0    | 1236.2  | 1037.1           | 32.0    | 1238.4  |
| 174  | 1.0 JAMES      | 123.0      | 145.0 | 134.0 | 35.8                   | 3.2     | 11.3    | 15.0       | 37.0  | 26.0  | 13088.1                | 8203.2  | 10887.7 | 13123.9          | 8208.4  | 10898.9 |
| 175  | 1.0 LONG       | 142.0      | 171.0 | 156.3 | 4.6                    | 0.1     | 0.8     | 34.0       | 75.0  | 54.3  | 8950.3                 | 1444.3  | 4268.2  | 8950.3           | 1444.4  | 4269.0  |
| 178  | 1.0 BUTTE      | 129.0      | 183.0 | 157.0 | 19.3                   | 0.0     | 0.7     | 23.0       | 97.0  | 60.0  | 11560.8                | 308.2   | 3300.8  | 11560.2          | 308.3   | 3301.3  |
| 179  | 2.0 STEPTOE    | 92.0       | 171.0 | 131.3 | 7260.6                 | 871.4   | 2949.4  | 0.0        | 85.0  | 42.3  | 14347.0                | 6864.0  | 11932.1 | 21607.6          | 7733.4  | 14881.3 |
| 180  | 2.0 CAVE       | 86.0       | 103.0 | 94.3  | 8096.5                 | 3833.3  | 6923.2  | 20.0       | 62.0  | 41.0  | 13773.2                | 9692.0  | 12083.5 | 21869.7          | 15323.2 | 19008.8 |
| 181  | 1.0 DRY LAKE   | 80.0       | 108.0 | 94.0  | 1263.3                 | 147.4   | 467.5   | 46.0       | 109.0 | 77.3  | 6048.8                 | 112.4   | 1236.2  | 7312.3           | 259.8   | 1703.6  |
| 182  | 1.0 DELANAR    | 100.0      | 120.0 | 110.0 | 290.7                  | 48.2    | 123.4   | 100.0      | 129.0 | 114.3 | 242.2                  | 16.1    | 68.0    | 332.9            | 64.4    | 191.4   |
| 183  | 2.0 LAKE       | 63.0       | 92.0  | 77.3  | 11486.0                | 7260.6  | 9330.1  | 23.0       | 68.0  | 46.3  | 13460.6                | 8950.3  | 11506.4 | 24946.6          | 16211.0 | 20836.5 |
| 184  | 2.0 SPRING     | 62.0       | 142.0 | 102.0 | 11633.3                | 2200.3  | 3956.6  | 9.0        | 64.0  | 36.3  | 14228.9                | 9445.9  | 12523.4 | 25862.4          | 11666.2 | 18480.0 |
| 196  | 2.0 HAWLIN     | 37.0       | 75.0  | 56.0  | 14973.8                | 9700.2  | 12305.0 | 34.0       | 93.0  | 64.3  | 12750.6                | 5342.3  | 9286.2  | 27726.4          | 13612.3 | 21889.2 |
| 202  | 2.0 PATTERSON  | 62.0       | 85.0  | 73.3  | 11633.3                | 6239.0  | 9923.2  | 38.0       | 91.0  | 74.3  | 10178.3                | 6162.9  | 8143.2  | 21811.9          | 14401.9 | 18066.5 |
| 207  | 2.0 WHITERIVER | 97.0       | 135.0 | 116.0 | 6393.1                 | 2681.7  | 4262.6  | 4.0        | 72.0  | 38.3  | 14310.4                | 8453.3  | 12333.2 | 20903.6          | 11133.0 | 16695.8 |
| 208  | 1.0 FAHROE     | 108.0      | 138.0 | 123.0 | 147.4                  | 7.2     | 35.8    | 97.0       | 138.0 | 117.3 | 308.2                  | 6.0     | 51.2    | 455.6            | 13.3    | 87.0    |
| 209  | 1.0 PAHRANAGAT | 108.0      | 138.0 | 123.0 | 147.4                  | 7.2     | 35.8    | 97.0       | 138.0 | 117.3 | 308.2                  | 6.0     | 51.2    | 455.6            | 13.3    | 87.0    |
| 210  | 1.0 COVOTE     | 123.0      | 180.0 | 151.3 | 35.8                   | 0.0     | 1.5     | 132.0      | 243.0 | 187.3 | 11.7                   | 0.0     | 0.0     | 47.3             | 0.0     | 1.5     |
| 141  | 1.0 RALSTON    | 194.0      | 222.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 112.0      | 137.0 | 134.3 | 85.7                   | 0.6     | 8.9     | 85.7             | 0.6     | 8.9     |
| 3    | 2.0 DEEP CRK   | 117.0      | 149.0 | 133.6 | 4199.3                 | 1754.9  | 2786.6  | 60.0       | 89.0  | 74.8  | 9936.3                 | 6322.9  | 8106.1  | 14135.6          | 8078.9  | 10892.7 |
| 47   | 2.0 MONTGOMERY | 181.0      | 220.0 | 200.8 | 593.1                  | 123.4   | 281.3   | 72.0       | 116.0 | 94.0  | 8453.3                 | 3634.3  | 5823.3  | 9048.4           | 3757.9  | 6104.9  |
| 48   | 3.0 BEAVER     | 17.0       | 48.0  | 32.8  | 16980.8                | 15512.4 | 16400.9 | 125.0      | 152.0 | 138.8 | 7015.4                 | 5031.6  | 9968.4  | 23996.2          | 20544.0 | 22389.3 |
| 49   | 2.0 PAROHAN    | 24.0       | 44.0  | 34.0  | 16238.0                | 14133.9 | 15304.9 | 136.0      | 156.0 | 146.0 | 2173.2                 | 1197.3  | 1629.8  | 18411.2          | 15321.3 | 18934.6 |
| 51   | 1.0 CEDAR CITY | 16.0       | 49.0  | 32.8  | 15512.4                | 6309.0  | 11100.7 | 128.0      | 156.0 | 142.0 | 17.9                   | 0.7     | 3.9     | 15530.3          | 6309.7  | 11104.6 |
| 52   | 1.0 LUND DIST  | 12.0       | 48.0  | 30.0  | 16238.0                | 6724.3  | 11926.7 | 93.0       | 140.0 | 116.8 | 401.6                  | 4.8     | 54.8    | 16639.6          | 6729.1  | 11981.3 |
| 53   | 1.0 PINE/NI    | 200.0      | 236.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 88.0       | 128.0 | 108.0 | 608.2                  | 17.9    | 122.8   | 608.2            | 17.9    | 122.8   |
| 54   | 1.0 CRESENT    | 228.0      | 236.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 116.0      | 141.0 | 128.8 | 39.1                   | 4.0     | 16.4    | 39.1             | 4.0     | 16.4    |
| 55   | 1.0 CARICO L   | 233.0      | 253.0 | 243.6 | 0.0                    | 0.0     | 0.0     | 121.0      | 140.0 | 130.8 | 34.3                   | 4.8     | 13.3    | 34.3             | 4.8     | 13.3    |
| 56   | 2.0 UPPER REES | 232.0      | 253.0 | 242.8 | 70.9                   | 24.3    | 42.0    | 123.0      | 152.0 | 138.8 | 2868.6                 | 1356.0  | 2009.1  | 2939.5           | 1382.3  | 2051.1  |
| 137B | 2.0 BIG SMOXY  | 212.0      | 237.0 | 224.8 | 175.3                  | 54.2    | 99.2    | 108.0      | 141.0 | 124.8 | 4363.8                 | 1854.4  | 2927.8  | 4539.3           | 1908.6  | 3027.0  |
| 138  | 1.0 GRASS      | 217.0      | 240.0 | 228.8 | 0.0                    | 0.0     | 0.0     | 109.0      | 123.0 | 119.6 | 151.4                  | 22.9    | 61.4    | 151.4            | 22.9    | 61.4    |
| 150  | 1.0 LIT FISH L | 180.0      | 196.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 80.0       | 104.0 | 92.0  | 1052.6                 | 173.4   | 453.3   | 1052.7           | 173.4   | 453.3   |
| 153  | 1.0 DIAMOND    | 173.0      | 212.0 | 192.8 | 0.1                    | 0.0     | 0.0     | 61.6       | 97.0  | 79.6  | 3048.8                 | 293.9   | 1080.4  | 3048.9           | 293.9   | 1080.4  |
| 161  | 1.0 INDIAN SPR | 160.0      | 204.0 | 182.0 | 0.3                    | 0.0     | 0.0     | 153.0      | 205.0 | 179.6 | 0.9                    | 0.0     | 0.0     | 1.4              | 0.0     | 0.1     |
| 169  | 1.0 TIKASOO S  | 137.0      | 157.0 | 147.6 | 7.6                    | 0.7     | 2.4     | 136.0      | 176.0 | 156.0 | 7.6                    | 0.0     | 0.7     | 15.1             | 0.7     | 3.1     |
| 176  | 3.0 RUBY       | 176.0      | 216.0 | 196.0 | 4226.3                 | 2075.3  | 3013.9  | 63.0       | 124.0 | 94.8  | 11803.3                | 7143.6  | 9544.5  | 16039.6          | 9219.1  | 12360.4 |
| 183  | 1.0 TIPPETTY   | 120.0      | 144.0 | 132.0 | 48.2                   | 3.6     | 14.0    | 45.6       | 73.6  | 59.6  | 6140.0                 | 1572.3  | 3365.8  | 6188.2           | 1575.9  | 3379.9  |
| 186  | 1.0 ANTELOPE   | 141.0      | 172.0 | 156.8 | 4.8                    | 0.1     | 0.8     | 68.0       | 100.0 | 84.0  | 2173.2                 | 242.2   | 805.4   | 2178.0           | 242.3   | 806.1   |
| 187  | 1.0 GOSHUTE    | 161.0      | 204.0 | 182.8 | 0.4                    | 0.0     | 0.0     | 77.0       | 128.0 | 102.8 | 1228.4                 | 17.9    | 192.1   | 1228.8           | 17.9    | 192.1   |
| 198  | 2.0 DRY        | 36.0       | 73.0  | 54.8  | 12503.0                | 9908.4  | 11219.3 | 92.0       | 104.0 | 98.0  | 6048.8                 | 4758.2  | 5384.6  | 18553.9          | 14666.3 | 18604.1 |
| 201  | 3.0 SPRING     | 32.0       | 68.0  | 50.0  | 15233.3                | 13963.2 | 14626.9 | 64.0       | 93.0  | 78.8  | 11914.8                | 9642.9  | 10825.8 | 27148.3          | 23606.1 | 29452.7 |
| 205  | 2.0 HEADON V   | 88.0       | 140.0 | 114.0 | 7814.1                 | 2330.6  | 4372.3  | 109.0      | 177.0 | 143.6 | 4211.3                 | 574.1   | 1749.6  | 12023.3          | 2904.7  | 6321.8  |
| 206  | 1.0 RARE SPR   |            |       |       |                        |         |         |            |       |       |                        |         |         |                  |         |         |

Table 9.

## EFFECT INDEX OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS

|               |       |      | ALTERNATIVE NO. 6 |      |       |                        |         |        |            |       |       |                        |        |        | BASE A: MILFORD LONG TERM POP. 17221.0 |         |         |            |   |     |                        |      |      |            |      |         | BASE B: COYOTE LONG TERM POP. 12193.0 |        |       |                  |       |       |     |      |         |        |        |   |   |   |       |      |       |      |         |        |         |       |       |       |       |       |       |         |        |         |   |   |   |          |      |       |       |        |      |       |       |       |       |     |     |     |        |      |       |   |   |   |        |      |       |       |       |      |      |       |       |       |     |     |     |       |      |      |   |   |   |          |       |       |       |        |        |        |       |       |       |      |      |      |        |        |        |    |   |   |         |      |       |      |         |        |         |       |       |       |        |       |        |         |        |         |     |   |   |          |      |      |      |         |        |        |       |       |       |     |     |     |         |        |        |    |   |   |         |     |      |      |         |         |         |       |       |       |      |     |     |         |         |         |    |   |   |           |      |      |      |         |         |         |      |       |      |        |        |        |         |         |         |    |   |   |         |     |      |      |         |        |         |       |       |       |      |     |     |         |        |         |      |   |   |           |       |       |       |       |      |      |       |       |       |        |       |       |        |       |       |     |   |   |       |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |     |   |   |            |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |           |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |     |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |     |   |   |         |       |       |       |        |       |       |       |       |       |        |       |        |        |        |        |     |   |   |          |       |       |       |        |       |        |      |      |      |        |        |        |         |        |        |     |   |   |      |       |       |       |       |      |      |      |      |      |        |       |       |        |       |       |     |   |   |        |       |       |       |        |        |        |      |       |      |        |        |        |         |        |        |     |   |   |          |       |       |       |      |     |     |      |       |       |       |     |      |       |     |      |     |   |   |       |       |       |       |      |     |      |       |       |       |     |     |     |      |     |      |     |   |   |      |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |       |       |       |       |      |     |     |       |       |       |     |     |     |      |     |     |     |   |   |         |      |       |       |        |       |        |       |       |       |        |      |       |        |       |        |     |   |   |      |      |       |      |        |        |        |      |       |       |        |        |        |         |        |        |     |   |   |          |      |       |      |        |       |       |      |       |      |        |      |       |        |       |        |     |   |   |          |       |       |       |       |      |       |      |      |      |        |        |        |        |        |        |     |   |   |      |      |      |      |         |        |        |       |       |       |        |        |        |         |        |         |     |   |   |        |      |       |       |         |        |        |       |       |       |        |      |       |         |        |        |     |   |   |        |      |      |      |         |        |         |      |       |       |        |        |        |         |         |         |     |   |   |           |      |      |      |         |        |        |      |       |      |        |        |        |         |         |         |     |   |   |            |      |       |       |        |        |        |      |       |       |        |       |        |         |        |        |     |   |   |        |       |       |       |       |     |      |      |      |      |         |        |        |         |        |        |     |   |   |            |       |       |       |       |     |      |      |      |      |         |        |        |         |        |        |     |   |   |        |       |       |       |      |     |     |     |      |      |         |        |         |         |        |         |     |   |   |         |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |   |   |   |          |       |       |       |        |        |        |       |       |       |       |      |      |        |        |        |    |   |   |            |       |       |       |       |       |       |       |       |       |      |     |      |       |       |       |    |   |   |        |      |      |      |         |         |         |       |       |       |        |        |        |         |         |         |    |   |   |         |      |      |      |         |         |         |       |       |       |        |       |        |         |         |         |    |   |   |            |      |      |      |         |        |         |       |       |       |       |     |      |         |        |         |    |   |   |           |      |      |      |         |        |         |       |       |       |       |     |      |         |        |         |    |   |   |        |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |            |       |       |       |      |      |      |       |       |       |       |      |      |       |      |       |      |   |   |           |       |       |       |       |      |      |       |       |       |       |      |       |       |       |       |     |   |   |       |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |      |      |      |        |        |        |        |        |        |     |   |   |           |       |       |       |     |     |     |     |      |      |         |        |        |         |        |        |     |   |   |      |       |       |       |        |        |        |       |       |       |        |       |       |        |        |        |     |   |   |         |       |       |       |      |     |      |       |       |       |     |     |     |      |     |      |     |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |     |      |      |      |         |        |         |      |      |      |        |        |        |         |         |         |     |   |   |        |      |      |      |         |         |         |      |       |       |        |        |        |         |         |         |     |   |   |          |      |       |       |        |        |        |     |      |      |         |        |         |         |         |         |     |   |   |          |       |       |       |       |      |      |      |      |  |
|---------------|-------|------|-------------------|------|-------|------------------------|---------|--------|------------|-------|-------|------------------------|--------|--------|----------------------------------------|---------|---------|------------|---|-----|------------------------|------|------|------------|------|---------|---------------------------------------|--------|-------|------------------|-------|-------|-----|------|---------|--------|--------|---|---|---|-------|------|-------|------|---------|--------|---------|-------|-------|-------|-------|-------|-------|---------|--------|---------|---|---|---|----------|------|-------|-------|--------|------|-------|-------|-------|-------|-----|-----|-----|--------|------|-------|---|---|---|--------|------|-------|-------|-------|------|------|-------|-------|-------|-----|-----|-----|-------|------|------|---|---|---|----------|-------|-------|-------|--------|--------|--------|-------|-------|-------|------|------|------|--------|--------|--------|----|---|---|---------|------|-------|------|---------|--------|---------|-------|-------|-------|--------|-------|--------|---------|--------|---------|-----|---|---|----------|------|------|------|---------|--------|--------|-------|-------|-------|-----|-----|-----|---------|--------|--------|----|---|---|---------|-----|------|------|---------|---------|---------|-------|-------|-------|------|-----|-----|---------|---------|---------|----|---|---|-----------|------|------|------|---------|---------|---------|------|-------|------|--------|--------|--------|---------|---------|---------|----|---|---|---------|-----|------|------|---------|--------|---------|-------|-------|-------|------|-----|-----|---------|--------|---------|------|---|---|-----------|-------|-------|-------|-------|------|------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-----|---|---|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-----|---|---|------------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|-----------|-------|-------|-------|-----|-----|-----|-------|-------|-------|------|-----|-----|------|-----|-----|-----|---|---|----------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|---------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|------------|-------|-------|-------|-----|-----|-----|-------|-------|-------|------|-----|-----|------|-----|-----|-----|---|---|---------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--------|-----|---|---|----------|-------|-------|-------|--------|-------|--------|------|------|------|--------|--------|--------|---------|--------|--------|-----|---|---|------|-------|-------|-------|-------|------|------|------|------|------|--------|-------|-------|--------|-------|-------|-----|---|---|--------|-------|-------|-------|--------|--------|--------|------|-------|------|--------|--------|--------|---------|--------|--------|-----|---|---|----------|-------|-------|-------|------|-----|-----|------|-------|-------|-------|-----|------|-------|-----|------|-----|---|---|-------|-------|-------|-------|------|-----|------|-------|-------|-------|-----|-----|-----|------|-----|------|-----|---|---|------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|-------|-------|-------|-------|------|-----|-----|-------|-------|-------|-----|-----|-----|------|-----|-----|-----|---|---|---------|------|-------|-------|--------|-------|--------|-------|-------|-------|--------|------|-------|--------|-------|--------|-----|---|---|------|------|-------|------|--------|--------|--------|------|-------|-------|--------|--------|--------|---------|--------|--------|-----|---|---|----------|------|-------|------|--------|-------|-------|------|-------|------|--------|------|-------|--------|-------|--------|-----|---|---|----------|-------|-------|-------|-------|------|-------|------|------|------|--------|--------|--------|--------|--------|--------|-----|---|---|------|------|------|------|---------|--------|--------|-------|-------|-------|--------|--------|--------|---------|--------|---------|-----|---|---|--------|------|-------|-------|---------|--------|--------|-------|-------|-------|--------|------|-------|---------|--------|--------|-----|---|---|--------|------|------|------|---------|--------|---------|------|-------|-------|--------|--------|--------|---------|---------|---------|-----|---|---|-----------|------|------|------|---------|--------|--------|------|-------|------|--------|--------|--------|---------|---------|---------|-----|---|---|------------|------|-------|-------|--------|--------|--------|------|-------|-------|--------|-------|--------|---------|--------|--------|-----|---|---|--------|-------|-------|-------|-------|-----|------|------|------|------|---------|--------|--------|---------|--------|--------|-----|---|---|------------|-------|-------|-------|-------|-----|------|------|------|------|---------|--------|--------|---------|--------|--------|-----|---|---|--------|-------|-------|-------|------|-----|-----|-----|------|------|---------|--------|---------|---------|--------|---------|-----|---|---|---------|-------|-------|-------|-----|-----|-----|-------|-------|-------|------|-----|-----|------|-----|-----|---|---|---|----------|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|------|------|--------|--------|--------|----|---|---|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|------|-------|-------|-------|----|---|---|--------|------|------|------|---------|---------|---------|-------|-------|-------|--------|--------|--------|---------|---------|---------|----|---|---|---------|------|------|------|---------|---------|---------|-------|-------|-------|--------|-------|--------|---------|---------|---------|----|---|---|------------|------|------|------|---------|--------|---------|-------|-------|-------|-------|-----|------|---------|--------|---------|----|---|---|-----------|------|------|------|---------|--------|---------|-------|-------|-------|-------|-----|------|---------|--------|---------|----|---|---|--------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|----|---|---|----------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|----|---|---|----------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|----|---|---|------------|-------|-------|-------|------|------|------|-------|-------|-------|-------|------|------|-------|------|-------|------|---|---|-----------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-----|---|---|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|------------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|---------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|------------|-------|-------|-------|-----|-----|-----|------|------|------|--------|--------|--------|--------|--------|--------|-----|---|---|-----------|-------|-------|-------|-----|-----|-----|-----|------|------|---------|--------|--------|---------|--------|--------|-----|---|---|------|-------|-------|-------|--------|--------|--------|-------|-------|-------|--------|-------|-------|--------|--------|--------|-----|---|---|---------|-------|-------|-------|------|-----|------|-------|-------|-------|-----|-----|-----|------|-----|------|-----|---|---|----------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|---------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|---|---|-----|------|------|------|---------|--------|---------|------|------|------|--------|--------|--------|---------|---------|---------|-----|---|---|--------|------|------|------|---------|---------|---------|------|-------|-------|--------|--------|--------|---------|---------|---------|-----|---|---|----------|------|-------|-------|--------|--------|--------|-----|------|------|---------|--------|---------|---------|---------|---------|-----|---|---|----------|-------|-------|-------|-------|------|------|------|------|--|
| LOCATION NAME |       |      | MILES TO A        |      |       | EFFECT INDEX OF BASE A |         |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS                       |         |         | MILES TO A |   |     | EFFECT INDEX OF BASE A |      |      | MILES TO B |      |         | EFFECT INDEX OF BASE B                |        |       | COMBINED EFFECTS |       |       |     |      |         |        |        |   |   |   |       |      |       |      |         |        |         |       |       |       |       |       |       |         |        |         |   |   |   |          |      |       |       |        |      |       |       |       |       |     |     |     |        |      |       |   |   |   |        |      |       |       |       |      |      |       |       |       |     |     |     |       |      |      |   |   |   |          |       |       |       |        |        |        |       |       |       |      |      |      |        |        |        |    |   |   |         |      |       |      |         |        |         |       |       |       |        |       |        |         |        |         |     |   |   |          |      |      |      |         |        |        |       |       |       |     |     |     |         |        |        |    |   |   |         |     |      |      |         |         |         |       |       |       |      |     |     |         |         |         |    |   |   |           |      |      |      |         |         |         |      |       |      |        |        |        |         |         |         |    |   |   |         |     |      |      |         |        |         |       |       |       |      |     |     |         |        |         |      |   |   |           |       |       |       |       |      |      |       |       |       |        |       |       |        |       |       |     |   |   |       |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |     |   |   |            |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |           |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |     |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |     |   |   |         |       |       |       |        |       |       |       |       |       |        |       |        |        |        |        |     |   |   |          |       |       |       |        |       |        |      |      |      |        |        |        |         |        |        |     |   |   |      |       |       |       |       |      |      |      |      |      |        |       |       |        |       |       |     |   |   |        |       |       |       |        |        |        |      |       |      |        |        |        |         |        |        |     |   |   |          |       |       |       |      |     |     |      |       |       |       |     |      |       |     |      |     |   |   |       |       |       |       |      |     |      |       |       |       |     |     |     |      |     |      |     |   |   |      |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |       |       |       |       |      |     |     |       |       |       |     |     |     |      |     |     |     |   |   |         |      |       |       |        |       |        |       |       |       |        |      |       |        |       |        |     |   |   |      |      |       |      |        |        |        |      |       |       |        |        |        |         |        |        |     |   |   |          |      |       |      |        |       |       |      |       |      |        |      |       |        |       |        |     |   |   |          |       |       |       |       |      |       |      |      |      |        |        |        |        |        |        |     |   |   |      |      |      |      |         |        |        |       |       |       |        |        |        |         |        |         |     |   |   |        |      |       |       |         |        |        |       |       |       |        |      |       |         |        |        |     |   |   |        |      |      |      |         |        |         |      |       |       |        |        |        |         |         |         |     |   |   |           |      |      |      |         |        |        |      |       |      |        |        |        |         |         |         |     |   |   |            |      |       |       |        |        |        |      |       |       |        |       |        |         |        |        |     |   |   |        |       |       |       |       |     |      |      |      |      |         |        |        |         |        |        |     |   |   |            |       |       |       |       |     |      |      |      |      |         |        |        |         |        |        |     |   |   |        |       |       |       |      |     |     |     |      |      |         |        |         |         |        |         |     |   |   |         |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |   |   |   |          |       |       |       |        |        |        |       |       |       |       |      |      |        |        |        |    |   |   |            |       |       |       |       |       |       |       |       |       |      |     |      |       |       |       |    |   |   |        |      |      |      |         |         |         |       |       |       |        |        |        |         |         |         |    |   |   |         |      |      |      |         |         |         |       |       |       |        |       |        |         |         |         |    |   |   |            |      |      |      |         |        |         |       |       |       |       |     |      |         |        |         |    |   |   |           |      |      |      |         |        |         |       |       |       |       |     |      |         |        |         |    |   |   |        |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |            |       |       |       |      |      |      |       |       |       |       |      |      |       |      |       |      |   |   |           |       |       |       |       |      |      |       |       |       |       |      |       |       |       |       |     |   |   |       |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |      |      |      |        |        |        |        |        |        |     |   |   |           |       |       |       |     |     |     |     |      |      |         |        |        |         |        |        |     |   |   |      |       |       |       |        |        |        |       |       |       |        |       |       |        |        |        |     |   |   |         |       |       |       |      |     |      |       |       |       |     |     |     |      |     |      |     |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |     |      |      |      |         |        |         |      |      |      |        |        |        |         |         |         |     |   |   |        |      |      |      |         |         |         |      |       |       |        |        |        |         |         |         |     |   |   |          |      |       |       |        |        |        |     |      |      |         |        |         |         |         |         |     |   |   |          |       |       |       |       |      |      |      |      |  |
| NO.           | APPL. | NAME | N                 | F    | AVE   | MAX                    | MIN     | AVE    | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX                                    | MIN     | AVE     | N          | F | AVE | MAX                    | MIN  | AVE  | N          | F    | AVE     | MAX                                   | MIN    | AVE   |                  |       |       |     |      |         |        |        |   |   |   |       |      |       |      |         |        |         |       |       |       |       |       |       |         |        |         |   |   |   |          |      |       |       |        |      |       |       |       |       |     |     |     |        |      |       |   |   |   |        |      |       |       |       |      |      |       |       |       |     |     |     |       |      |      |   |   |   |          |       |       |       |        |        |        |       |       |       |      |      |      |        |        |        |    |   |   |         |      |       |      |         |        |         |       |       |       |        |       |        |         |        |         |     |   |   |          |      |      |      |         |        |        |       |       |       |     |     |     |         |        |        |    |   |   |         |     |      |      |         |         |         |       |       |       |      |     |     |         |         |         |    |   |   |           |      |      |      |         |         |         |      |       |      |        |        |        |         |         |         |    |   |   |         |     |      |      |         |        |         |       |       |       |      |     |     |         |        |         |      |   |   |           |       |       |       |       |      |      |       |       |       |        |       |       |        |       |       |     |   |   |       |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |       |       |       |       |       |       |        |       |       |        |       |       |     |   |   |            |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |           |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |     |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |     |   |   |         |       |       |       |        |       |       |       |       |       |        |       |        |        |        |        |     |   |   |          |       |       |       |        |       |        |      |      |      |        |        |        |         |        |        |     |   |   |      |       |       |       |       |      |      |      |      |      |        |       |       |        |       |       |     |   |   |        |       |       |       |        |        |        |      |       |      |        |        |        |         |        |        |     |   |   |          |       |       |       |      |     |     |      |       |       |       |     |      |       |     |      |     |   |   |       |       |       |       |      |     |      |       |       |       |     |     |     |      |     |      |     |   |   |      |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |       |       |       |       |      |     |     |       |       |       |     |     |     |      |     |     |     |   |   |         |      |       |       |        |       |        |       |       |       |        |      |       |        |       |        |     |   |   |      |      |       |      |        |        |        |      |       |       |        |        |        |         |        |        |     |   |   |          |      |       |      |        |       |       |      |       |      |        |      |       |        |       |        |     |   |   |          |       |       |       |       |      |       |      |      |      |        |        |        |        |        |        |     |   |   |      |      |      |      |         |        |        |       |       |       |        |        |        |         |        |         |     |   |   |        |      |       |       |         |        |        |       |       |       |        |      |       |         |        |        |     |   |   |        |      |      |      |         |        |         |      |       |       |        |        |        |         |         |         |     |   |   |           |      |      |      |         |        |        |      |       |      |        |        |        |         |         |         |     |   |   |            |      |       |       |        |        |        |      |       |       |        |       |        |         |        |        |     |   |   |        |       |       |       |       |     |      |      |      |      |         |        |        |         |        |        |     |   |   |            |       |       |       |       |     |      |      |      |      |         |        |        |         |        |        |     |   |   |        |       |       |       |      |     |     |     |      |      |         |        |         |         |        |         |     |   |   |         |       |       |       |     |     |     |       |       |       |      |     |     |      |     |     |   |   |   |          |       |       |       |        |        |        |       |       |       |       |      |      |        |        |        |    |   |   |            |       |       |       |       |       |       |       |       |       |      |     |      |       |       |       |    |   |   |        |      |      |      |         |         |         |       |       |       |        |        |        |         |         |         |    |   |   |         |      |      |      |         |         |         |       |       |       |        |       |        |         |         |         |    |   |   |            |      |      |      |         |        |         |       |       |       |       |     |      |         |        |         |    |   |   |           |      |      |      |         |        |         |       |       |       |       |     |      |         |        |         |    |   |   |        |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |    |   |   |            |       |       |       |      |      |      |       |       |       |       |      |      |       |      |       |      |   |   |           |       |       |       |       |      |      |       |       |       |       |      |       |       |       |       |     |   |   |       |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |            |       |       |       |     |     |     |      |      |      |        |        |        |        |        |        |     |   |   |           |       |       |       |     |     |     |     |      |      |         |        |        |         |        |        |     |   |   |      |       |       |       |        |        |        |       |       |       |        |       |       |        |        |        |     |   |   |         |       |       |       |      |     |      |       |       |       |     |     |     |      |     |      |     |   |   |          |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |         |       |       |       |     |     |     |       |       |       |     |     |     |     |     |     |     |   |   |     |      |      |      |         |        |         |      |      |      |        |        |        |         |         |         |     |   |   |        |      |      |      |         |         |         |      |       |       |        |        |        |         |         |         |     |   |   |          |      |       |       |        |        |        |     |      |      |         |        |         |         |         |         |     |   |   |          |       |       |       |       |      |      |      |      |  |
| 4             | 3     | 0    | SHAKE             | 43.0 | 112.0 | 77.5                   | 13835.8 | 9749.7 | 13114.7    | 132.0 | 225.0 | 178.5                  | 5533.5 | 1227.7 | 2874.9                                 | 21369.3 | 10977.4 | 13989.7    | 7 | 1   | 0                      | PINE | 25.0 | 31.0       | 38.0 | 13343.3 | 9956.6                                | 9951.9 | 108.0 | 152.0            | 120.0 | 104.4 | 1.0 | 12.3 | 13447.8 | 9957.6 | 9964.2 | 4 | 2 | 0 | WHITE | 40.0 | 103.0 | 71.5 | 14424.9 | 9832.3 | 10221.3 | 198.0 | 214.0 | 186.0 | 994.7 | 113.9 | 357.3 | 15581.7 | 9947.2 | 10378.6 | 7 | 1 | 0 | FISH SPR | 82.0 | 129.0 | 105.5 | 1107.0 | 19.3 | 183.3 | 198.0 | 245.0 | 221.5 | 0.0 | 0.0 | 0.0 | 1107.0 | 19.3 | 183.3 | 8 | 1 | 0 | DUGWAY | 98.0 | 132.0 | 115.0 | 341.7 | 14.0 | 77.9 | 220.0 | 252.0 | 236.0 | 0.0 | 0.0 | 0.0 | 341.7 | 14.0 | 77.9 | 9 | 2 | 0 | GOVT CRK | 103.0 | 143.0 | 123.0 | 9833.3 | 2137.2 | 3677.9 | 231.0 | 263.0 | 247.0 | 52.7 | 10.5 | 24.1 | 3885.9 | 2147.7 | 3702.1 | 46 | 3 | 0 | SEV DES | 35.0 | 129.0 | 82.0 | 16290.4 | 8096.5 | 12694.7 | 171.0 | 263.0 | 217.0 | 3237.8 | 529.5 | 1441.2 | 19528.2 | 8626.0 | 14125.9 | 46A | 1 | 0 | SEV LAKE | 23.0 | 77.0 | 50.0 | 13876.7 | 1531.3 | 6207.3 | 154.0 | 195.0 | 174.5 | 0.8 | 0.0 | 0.0 | 13877.5 | 1531.3 | 6207.3 | 50 | 1 | 0 | MILFORD | 0.0 | 20.0 | 10.0 | 17221.0 | 14624.9 | 16332.3 | 117.0 | 159.0 | 138.0 | 45.7 | 0.4 | 5.1 | 17266.7 | 14627.3 | 16337.4 | 52 | 3 | 0 | SEVYL-ENT | 23.0 | 80.0 | 51.5 | 16812.8 | 12882.6 | 15269.3 | 77.0 | 119.0 | 98.0 | 9319.8 | 6416.1 | 7889.0 | 26132.5 | 19278.7 | 23158.3 | 54 | 1 | 0 | MAH MAH | 9.0 | 49.0 | 29.0 | 16661.0 | 6463.2 | 12217.4 | 123.0 | 163.0 | 143.0 | 25.4 | 0.2 | 2.9 | 16686.3 | 6463.5 | 12220.3 | 137A | 2 | 0 | BIG SHOKY | 211.0 | 258.0 | 234.5 | 183.3 | 19.3 | 63.0 | 149.0 | 194.0 | 171.5 | 1265.7 | 262.0 | 406.4 | 1449.0 | 281.3 | 669.4 | 139 | 1 | 0 | KOBEN | 178.0 | 213.0 | 196.5 | 0.0 | 0.0 | 0.0 | 189.0 | 226.0 | 207.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 140 | 2 | 0 | MONITOR | 186.0 | 209.0 | 197.5 | 304.6 | 199.7 | 321.7 | 131.0 | 203.0 | 177.0 | 1190.5 | 182.0 | 498.7 | 1695.1 | 381.6 | 820.4 | 142 | 1 | 0 | ALKALI SPR | 218.0 | 233.0 | 226.5 | 0.0 | 0.0 | 0.0 | 134.0 | 137.0 | 145.5 | 8.0 | 0.5 | 2.2 | 8.0 | 0.5 | 2.2 | 149 | 1 | 0 | STONE CBN | 177.0 | 204.0 | 191.5 | 0.0 | 0.0 | 0.0 | 112.0 | 155.0 | 133.5 | 72.9 | 0.7 | 8.5 | 72.9 | 0.7 | 8.5 | 151 | 1 | 0 | ANTELOPE | 172.0 | 194.0 | 183.0 | 0.1 | 0.0 | 0.0 | 149.0 | 197.0 | 183.0 | 0.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 154 | 1 | 0 | NEWMARK | 142.0 | 180.0 | 161.0 | 4.6 | 0.0 | 0.4 | 166.0 | 217.0 | 191.5 | 0.2 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 155 | 1 | 0 | LITTLE SHD | 148.0 | 173.0 | 161.5 | 2.3 | 0.1 | 0.4 | 148.0 | 188.0 | 153.0 | 41.5 | 0.0 | 0.9 | 43.7 | 0.1 | 1.3 | 156 | 2 | 0 | MOT CRK | 160.0 | 184.0 | 173.0 | 1263.5 | 304.6 | 812.3 | 102.0 | 163.0 | 134.0 | 3959.1 | 810.5 | 1951.9 | 3222.6 | 1313.1 | 2764.2 | 170 | 2 | 0 | PENOVIER | 134.0 | 168.0 | 151.0 | 2756.3 | 966.7 | 1681.2 | 63.0 | 95.0 | 80.0 | 7424.1 | 4855.5 | 6344.9 | 10680.3 | 5822.2 | 8028.1 | 171 | 1 | 0 | COAL | 106.0 | 134.0 | 120.0 | 175.5 | 11.3 | 48.2 | 62.0 | 97.0 | 79.5 | 2539.7 | 262.0 | 924.3 | 2715.2 | 273.3 | 972.6 | 172 | 2 | 0 | GARDEN | 117.0 | 142.0 | 129.5 | 4260.1 | 2200.3 | 3110.8 | 69.0 | 109.0 | 89.0 | 7502.3 | 3628.0 | 5434.5 | 11762.4 | 5828.3 | 8545.3 | 173 | 1 | 0 | RAILROAD | 118.0 | 178.0 | 148.0 | 58.6 | 0.0 | 2.3 | 83.0 | 171.0 | 127.0 | 732.9 | 0.1 | 16.9 | 791.4 | 0.1 | 19.1 | 174 | 1 | 0 | JAMES | 123.0 | 145.0 | 134.0 | 35.8 | 3.2 | 11.3 | 155.0 | 184.0 | 170.5 | 0.7 | 0.0 | 0.1 | 34.5 | 3.2 | 11.4 | 175 | 1 | 0 | LONG | 142.0 | 171.0 | 156.5 | 4.6 | 0.1 | 0.8 | 178.0 | 232.0 | 205.0 | 0.0 | 0.0 | 0.0 | 4.6 | 0.1 | 0.8 | 178 | 1 | 0 | BUTTE | 129.0 | 185.0 | 157.0 | 19.3 | 0.0 | 0.7 | 178.0 | 254.0 | 216.0 | 0.0 | 0.0 | 0.0 | 19.4 | 0.0 | 0.7 | 179 | 2 | 0 | STEPTOE | 92.0 | 171.0 | 131.5 | 7260.6 | 871.4 | 2949.4 | 132.0 | 243.0 | 187.5 | 2060.7 | 29.5 | 337.4 | 9321.3 | 900.9 | 3286.9 | 180 | 2 | 0 | CAVE | 86.0 | 103.0 | 94.5 | 8096.5 | 5832.3 | 6922.2 | 97.0 | 138.0 | 117.5 | 4468.9 | 1746.8 | 2980.9 | 12763.4 | 7580.0 | 9904.1 | 181 | 1 | 0 | DRY LAKE | 80.0 | 108.0 | 94.0 | 1263.5 | 147.4 | 467.5 | 49.0 | 112.0 | 80.5 | 4574.9 | 72.9 | 865.9 | 5840.4 | 220.3 | 1332.4 | 182 | 1 | 0 | DELFAPAR | 100.0 | 120.0 | 110.0 | 290.7 | 48.2 | 123.4 | 29.0 | 58.0 | 43.5 | 8631.7 | 3089.4 | 5632.2 | 8942.4 | 3137.4 | 5756.6 | 183 | 2 | 0 | LAKE | 63.0 | 92.0 | 77.5 | 11486.0 | 7260.6 | 9330.1 | 100.0 | 138.0 | 119.0 | 4395.7 | 1746.8 | 2874.9 | 15881.7 | 9007.3 | 12205.0 | 184 | 2 | 0 | SPRING | 62.0 | 142.0 | 102.0 | 11633.5 | 2200.3 | 3956.6 | 112.0 | 218.0 | 165.0 | 3290.7 | 95.5 | 758.0 | 15024.1 | 2295.8 | 6714.6 | 196 | 2 | 0 | HARLIN | 37.0 | 73.0 | 56.0 | 14975.8 | 9700.2 | 12503.0 | 71.0 | 145.0 | 118.0 | 3228.3 | 1427.1 | 2943.3 | 20214.3 | 11127.3 | 15480.2 | 202 | 2 | 0 | PATTERSON | 62.0 | 83.0 | 73.5 | 11633.5 | 8239.0 | 9923.2 | 75.0 | 103.0 | 89.0 | 4869.2 | 4130.8 | 5454.5 | 18502.6 | 12349.9 | 13357.7 | 207 | 2 | 0 | WHITERIVER | 97.0 | 133.0 | 116.0 | 6593.1 | 2681.7 | 4362.6 | 89.0 | 169.0 | 129.0 | 5434.5 | 661.4 | 2232.1 | 12027.7 | 3543.1 | 6394.7 | 208 | 1 | 0 | PAHROC | 108.0 | 138.0 | 123.0 | 147.4 | 7.2 | 35.8 | 22.0 | 66.0 | 44.0 | 10008.9 | 2060.7 | 5532.5 | 10156.3 | 2048.0 | 3569.3 | 209 | 1 | 0 | PAHRAHAGAT | 108.0 | 138.0 | 123.0 | 147.4 | 7.2 | 35.8 | 22.0 | 66.0 | 44.0 | 10008.9 | 2060.7 | 5532.5 | 10156.3 | 2048.0 | 3569.3 | 210 | 1 | 0 | COYOTE | 123.0 | 180.0 | 151.5 | 35.8 | 0.0 | 1.5 | 0.0 | 31.0 | 15.5 | 12195.0 | 8238.2 | 11055.9 | 12230.8 | 8238.2 | 11057.4 | 141 | 1 | 0 | RALSTON | 194.0 | 222.0 | 208.0 | 0.0 | 0.0 | 0.0 | 123.0 | 168.0 | 145.5 | 25.4 | 0.1 | 2.2 | 25.4 | 0.1 | 2.2 | 3 | 2 | 0 | DEEP CRK | 117.0 | 149.0 | 133.6 | 4199.3 | 1754.9 | 2786.6 | 209.0 | 244.0 | 226.8 | 137.8 | 28.0 | 44.1 | 4337.2 | 1785.0 | 2850.6 | 47 | 2 | 0 | MUNTINGTON | 181.0 | 220.0 | 200.8 | 395.1 | 123.4 | 281.3 | 224.0 | 272.0 | 248.0 | 72.9 | 6.4 | 22.9 | 668.0 | 129.8 | 304.3 | 48 | 3 | 0 | BEAVER | 17.0 | 48.0 | 32.8 | 16980.8 | 15512.4 | 16400.9 | 149.0 | 180.0 | 164.8 | 4419.6 | 2805.7 | 3558.4 | 21400.4 | 18218.1 | 19959.4 | 49 | 2 | 0 | PARGHAN | 24.0 | 44.0 | 34.0 | 16238.0 | 14133.9 | 15504.9 | 129.0 | 168.0 | 148.8 | 2197.1 | 684.6 | 1273.4 | 18435.1 | 14818.5 | 16578.3 | 51 | 1 | 0 | CEDAR CITY | 16.0 | 49.0 | 32.8 | 15512.4 | 6309.0 | 11100.7 | 105.0 | 149.0 | 127.6 | 128.7 | 1.3 | 13.8 | 15641.1 | 6310.3 | 11116.6 | 52 | 1 | 0 | LUND DIST | 12.0 | 48.0 | 30.0 | 16238.0 | 6724.3 | 11926.7 | 104.0 | 140.0 | 122.0 | 147.5 | 4.1 | 28.0 | 16385.5 | 6728.3 | 11934.8 | 53 | 1 | 0 | PINEIN | 200.0 | 236.0 | 218.0 | 0.0 | 0.0 | 0.0 | 224.0 | 277.0 | 250.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54 | 1 | 0 | CRESSENT | 228.0 | 236.0 | 232.0 | 0.0 | 0.0 | 0.0 | 249.0 | 280.5 | 264.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55 | 1 | 0 | CARICO L | 233.0 | 253.0 | 243.6 | 0.0 | 0.0 | 0.0 | 236.0 | 272.0 | 254.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56 | 2 | 0 | UPPER REES | 232.0 | 253.0 | 242.8 | 70.9 | 24.3 | 42.0 | 193.0 | 256.0 | 224.8 | 266.2 | 13.2 | 70.3 | 337.1 | 29.5 | 112.3 | 137B | 2 | 0 | BIG SHOKY | 212.0 | 237.0 | 224.8 | 175.5 | 54.2 | 99.2 | 176.0 | 232.0 | 204.0 | 517.0 | 50.2 | 174.6 | 692.5 | 104.5 | 273.8 | 138 | 1 | 0 | GRASS | 217.0 | 240.0 | 228.8 | 0.0 | 0.0 | 0.0 | 220.0 | 253.0 | 236.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 139 | 1 | 0 | LIT FISH L | 180.0 | 194.0 | 188.0 | 0.0 | 0.0 | 0.0 | 133.0 | 181.0 | 167.6 | 0.8 | 0.0 | 0.1 | 0.8 | 0.0 | 0.1 | 140 | 1 | 0 | DIAMOND | 173.0 | 212.0 | 192.8 | 0.1 | 0.0 | 0.0 | 196.0 | 248.0 | 222.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 141 | 1 | 0 | INDIAN SPR | 160.0 | 204.0 | 182.0 | 0.5 | 0.0 | 0.0 | 37.0 | 65.0 | 51.6 | 4848.2 | 2105.5 | 4113.5 | 6648.7 | 2105.3 | 4113.5 | 149 | 1 | 0 | TIRABOO S | 137.0 | 157.0 | 147.6 | 7.6 | 0.7 | 2.4 | 8.0 | 41.6 | 24.8 | 11880.4 | 6017.5 | 9487.6 | 11088.1 | 6018.2 | 9490.0 | 176 | 3 | 0 | RUBY | 176.0 | 216.0 | 196.0 | 4224.3 | 2075.5 | 3015.9 | 224.0 | 288.0 | 256.0 | 1252.9 | 283.5 | 624.3 | 3479.2 | 2359.0 | 3640.2 | 183 | 1 | 0 | TIPPETT | 120.0 | 144.0 | 132.0 | 48.2 | 3.6 | 14.0 | 204.0 | 232.0 | 218.0 | 0.0 | 0.0 | 0.0 | 48.2 | 3.6 | 14.0 | 186 | 1 | 0 | ANTELOPE | 141.0 | 172.0 | 156.8 | 4.8 | 0.1 | 0.8 | 233.0 | 261.0 | 247.6 | 0.0 | 0.0 | 0.0 | 4.8 | 0.1 | 0.8 | 187 | 1 | 0 | GOSHUTE | 161.0 | 204.0 | 182.8 | 0.4 | 0.0 | 0.0 | 241.0 | 288.0 | 264.8 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 198 | 2 | 0 | DAY | 56.0 | 73.0 | 64.8 | 12503.0 | 9908.4 | 11219.5 | 80.0 | 96.0 | 88.0 | 4346.9 | 4761.8 | 5532.5 | 18851.9 | 14670.1 | 16733.0 | 201 | 3 | 0 | SPRING | 52.0 | 68.0 | 60.0 | 15233.5 | 13963.2 | 14626.9 | 96.0 | 116.0 | 106.0 | 8029.1 | 6624.5 | 7326.2 | 23262.6 | 20587.7 | 21953.1 | 205 | 2 | 0 | MEADOW V | 88.0 | 140.0 | 114.0 | 7814.1 | 2330.4 | 4972.3 | 8.0 | 64.0 | 36.0 | 12113.6 | 8029.1 | 10684.4 | 19929.7 | 10359.7 | 13526.6 | 206 | 1 | 0 | KANE SPR | 101.0 | 128.0 | 114.8 | 254.8 | 21.5 | 79.4 | 16.0 | 48.0 |  |

Table 10.

| COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON GREAT BASIN VALLEYS |               |        |                                     |         |         |         |         |         |         |
|-------------------------------------------------------------------------------|---------------|--------|-------------------------------------|---------|---------|---------|---------|---------|---------|
| NO                                                                            | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |         |         | A       |
|                                                                               |               |        | 0                                   | 1       | 2       | 3       | 4       | 5       |         |
| 4                                                                             | SHAKE         | 3.0    | 13718.4                             | 12360.8 | 13629.7 | 23730.4 | 14233.9 | 25498.1 | 13989.7 |
| 5                                                                             | PINE          | 1.0    | 7266.2                              | 6693.4  | 1920.8  | 10176.0 | 8830.3  | 10909.9 | 9364.2  |
| 6                                                                             | WHITE         | 2.0    | 8225.9                              | 3381.4  | 12339.3 | 14877.9 | 4844.0  | 18612.3 | 10578.6 |
| 7                                                                             | FISH SPR      | 1.0    | 139.1                               | 11.7    | 4344.4  | 336.0   | 13.4    | 302.9   | 182.3   |
| 8                                                                             | DUGWAY        | 1.0    | 99.2                                | 2.7     | 5123.9  | 97.3    | 3.6     | 171.8   | 77.9    |
| 9                                                                             | GOVT CRK      | 2.0    | 2623.2                              | 1135.0  | 9864.6  | 4178.9  | 1507.2  | 4372.8  | 3702.1  |
| 46                                                                            | SEV DES       | 3.0    | 11522.4                             | 8639.2  | 14906.8 | 16303.1 | 10359.3 | 20283.8 | 14133.9 |
| 46A                                                                           | SEV LANE      | 1.0    | 4711.3                              | 972.8   | 10399.1 | 1850.0  | 1284.3  | 4773.1  | 4207.3  |
| 50                                                                            | RILFORD       | 1.0    | 12335.0                             | 4727.6  | 886.0   | 6246.8  | 6237.3  | 16346.7 | 16337.4 |
| 52                                                                            | BERYL-ENT     | 3.0    | 21918.8                             | 23103.1 | 17326.0 | 23413.3 | 24733.3 | 21818.3 | 23138.3 |
| 54                                                                            | MAN MAN       | 1.0    | 9277.0                              | 4917.3  | 4073.3  | 7264.8  | 6489.6  | 12995.6 | 12230.3 |
| 137A                                                                          | BIG SNOWY     | 2.0    | 841.8                               | 933.3   | 817.2   | 1300.4  | 790.4   | 1379.3  | 649.4   |
| 139                                                                           | KOBEN         | 1.0    | 0.0                                 | 0.0     | 0.0     | 306.9   | 0.0     | 306.9   | 0.0     |
| 140                                                                           | MONITOR       | 2.0    | 897.1                               | 1114.8  | 883.8   | 5624.1  | 1108.4  | 5326.0  | 820.4   |
| 142                                                                           | ALKALI SPR    | 1.0    | 2.8                                 | 2.8     | 2.8     | 0.3     | 2.2     | 0.3     | 2.2     |
| 144                                                                           | STONE CEN     | 1.0    | 11.1                                | 11.4    | 11.1    | 25.1    | 8.9     | 34.7    | 8.3     |
| 141                                                                           | ANTELOPE      | 1.0    | 0.0                                 | 0.1     | 0.1     | 1160.0  | 0.1     | 1139.9  | 0.0     |
| 156                                                                           | NEHAWK        | 1.0    | 0.3                                 | 0.6     | 3.2     | 4264.6  | 0.8     | 4264.2  | 0.4     |
| 155                                                                           | LITTLE SHO    | 1.0    | 1.4                                 | 2.4     | 1.4     | 2113.2  | 2.6     | 2113.9  | 1.2     |
| 156                                                                           | HOT CRK       | 2.0    | 3173.3                              | 3970.3  | 2934.1  | 7823.0  | 3819.9  | 6449.4  | 2744.2  |
| 170                                                                           | PENOVY        | 2.0    | 9386.1                              | 11484.9 | 8718.3  | 8507.2  | 10538.2 | 9977.0  | 8029.1  |
| 171                                                                           | COAL          | 1.0    | 1246.9                              | 1774.1  | 1210.9  | 1470.4  | 1668.8  | 774.2   | 972.6   |
| 172                                                                           | GARDEN        | 2.0    | 4676.3                              | 11694.3 | 8273.3  | 13208.4 | 11479.4 | 10274.3 | 8943.3  |
| 173                                                                           | RAILROAD      | 1.0    | 22.8                                | 47.3    | 22.2    | 1269.7  | 30.4    | 1238.4  | 19.1    |
| 174                                                                           | JAMES         | 1.0    | 8.7                                 | 13.1    | 32.2    | 10904.7 | 17.2    | 10896.6 | 11.4    |
| 175                                                                           | LONG          | 1.0    | 0.4                                 | 0.9     | 11.8    | 4269.3  | 1.1     | 4269.0  | 0.8     |
| 178                                                                           | BUTTE         | 1.0    | 0.4                                 | 0.3     | 31.3    | 3301.2  | 0.4     | 3301.3  | 0.7     |
| 179                                                                           | STEPDUE       | 2.0    | 2680.3                              | 1330.2  | 4788.1  | 13269.0 | 1774.3  | 14881.3 | 3286.9  |
| 180                                                                           | CAVE          | 2.0    | 9137.7                              | 10419.3 | 7749.8  | 20698.2 | 11383.6 | 19008.8 | 9904.1  |
| 181                                                                           | DRY LAKE      | 1.0    | 1486.6                              | 4233.4  | 1130.9  | 3238.2  | 4893.7  | 1703.3  | 1323.6  |
| 182                                                                           | DELANAR       | 1.0    | 7449.2                              | 8832.3  | 7373.9  | 1992.7  | 7337.9  | 191.4   | 9736.6  |
| 183                                                                           | LAKE          | 2.0    | 10843.9                             | 12213.9 | 8543.0  | 22661.3 | 14030.0 | 20836.3 | 12203.0 |
| 184                                                                           | SPRING        | 2.0    | 3513.6                              | 3618.3  | 7937.9  | 18630.4 | 6863.1  | 18480.0 | 6714.6  |
| 186                                                                           | HAWLIN        | 1.0    | 13247.6                             | 14482.6 | 10341.3 | 23413.3 | 16973.3 | 21889.3 | 15446.3 |
| 202                                                                           | PATTERSON     | 2.0    | 14467.3                             | 17310.1 | 10747.2 | 21601.9 | 18893.2 | 18066.2 | 13337.7 |
| 207                                                                           | WHITERIVER    | 2.0    | 6233.8                              | 7691.3  | 3771.3  | 18428.4 | 8327.6  | 16493.8 | 6594.7  |
| 208                                                                           | PARROC        | 1.0    | 7272.3                              | 7829.4  | 7243.2  | 822.6   | 6304.9  | 87.0    | 3569.3  |
| 209                                                                           | PARANAGAT     | 1.0    | 7272.3                              | 7829.4  | 7243.2  | 822.6   | 6304.9  | 87.0    | 3569.3  |
| 210                                                                           | COVOTE        | 1.0    | 14476.7                             | 14866.1 | 14475.4 | 315.6   | 11371.3 | 1.5     | 11037.4 |
| 141                                                                           | RALETON       | 1.0    | 3.8                                 | 2.8     | 2.8     | 8.9     | 2.2     | 8.9     | 2.2     |
| 3                                                                             | DEEP CRK      | 2.0    | 2198.9                              | 1456.9  | 6425.0  | 9918.7  | 1876.7  | 10892.7 | 2850.6  |
| 47                                                                            | HUNTINGTON    | 2.0    | 243.4                               | 223.1   | 635.4   | 6078.4  | 277.8   | 6104.9  | 304.3   |
| 48                                                                            | BEAVER        | 2.0    | 17107.3                             | 13141.8 | 13330.0 | 19827.3 | 17297.4 | 22389.3 | 19939.4 |
| 49                                                                            | PAROWAN       | 2.0    | 12282.9                             | 10901.3 | 6719.3  | 12820.1 | 13643.8 | 14924.4 | 16378.3 |
| 51                                                                            | CEDAR CITY    | 1.0    | 8446.4                              | 6700.2  | 150.8   | 8821.8  | 8833.8  | 11104.6 | 11116.6 |
| 52                                                                            | LUND DIST     | 1.0    | 9089.3                              | 10181.9 | 176.1   | 13448.0 | 13421.3 | 11981.3 | 11954.8 |
| 53                                                                            | PINE(H)       | 1.0    | 0.0                                 | 0.0     | 0.0     | 122.8   | 0.0     | 122.8   | 0.0     |
| 54                                                                            | CRESENT       | 1.0    | 0.0                                 | 0.0     | 0.0     | 16.4    | 0.0     | 16.4    | 0.0     |
| 55                                                                            | CARICO L      | 1.0    | 0.0                                 | 0.0     | 0.0     | 12.3    | 0.0     | 12.3    | 0.0     |
| 56                                                                            | UPPER REEB    | 2.0    | 123.9                               | 135.8   | 116.7   | 2093.3  | 134.4   | 2091.1  | 112.3   |
| 137B                                                                          | BIG SNOWY     | 2.0    | 303.9                               | 391.9   | 273.3   | 2143.9  | 290.2   | 3027.0  | 273.8   |
| 138                                                                           | GRASS         | 1.0    | 0.0                                 | 0.0     | 0.0     | 61.4    | 0.0     | 61.4    | 0.0     |
| 150                                                                           | LIT FISH L    | 1.0    | 0.0                                 | 0.0     | 0.0     | 453.3   | 0.3     | 453.3   | 0.1     |
| 153                                                                           | DIAMOND       | 1.0    | 0.0                                 | 0.0     | 0.0     | 1080.4  | 0.0     | 1080.4  | 0.0     |
| 161                                                                           | INDIAN SPR    | 1.0    | 3383.8                              | 3388.3  | 3383.8  | 3.3     | 4116.7  | 0.1     | 4113.3  |
| 169                                                                           | TIKABOD S     | 1.0    | 12424.0                             | 12514.2 | 12422.2 | 122.1   | 9609.0  | 3.1     | 9690.0  |
| 176                                                                           | RUBY          | 2.0    | 3106.3                              | 2834.3  | 3232.0  | 12207.2 | 3287.0  | 12360.4 | 3640.2  |
| 185                                                                           | TIPPETT       | 1.0    | 10.7                                | 2.3     | 371.3   | 334.9   | 3.3     | 3279.9  | 14.2    |
| 186                                                                           | ANTELOPE      | 1.0    | 0.4                                 | 0.1     | 98.0    | 803.5   | 0.1     | 804.1   | 0.8     |
| 187                                                                           | GOSMUTE       | 1.0    | 0.0                                 | 0.0     | 8.2     | 192.1   | 0.0     | 192.1   | 0.0     |
| 196                                                                           | DRY           | 2.0    | 13760.9                             | 18803.7 | 9813.4  | 20446.6 | 20795.3 | 16604.1 | 16730.0 |
| 201                                                                           | SPRING        | 2.0    | 20694.3                             | 21612.7 | 17210.9 | 26694.8 | 23195.2 | 23432.7 | 21933.1 |
| 203                                                                           | MEADOW V      | 2.0    | 17486.3                             | 21019.3 | 14408.9 | 19030.8 | 19643.6 | 6321.8  | 19236.6 |
| 206                                                                           | NAME SPR      | 1.0    | 10572.8                             | 11582.8 | 0512.5  | 1420.2  | 9443.2  | 89.3    | 8108.3  |
| 211                                                                           | THREE LAM     | 1.0    | 8310.1                              | 8314.0  | 8310.0  | 5.2     | 6332.1  | 0.0     | 6246.9  |
| 215                                                                           | BLACK HTNS    | 3.0    | 18428.9                             | 20429.8 | 13430.9 | 10602.3 | 19232.1 | 7486.2  | 16313.8 |
| 216                                                                           | GARNET        | 2.0    | 19827.0                             | 17321.8 | 14932.0 | 3796.3  | 14829.7 | 1369.7  | 12612.0 |
| 217                                                                           | HIDDEN V N    | 2.0    | 16230.0                             | 16092.8 | 16235.0 | 4229.9  | 13429.3 | 1756.0  | 12933.6 |
| 218                                                                           | CALIF WASH    | 2.0    | 16043.4                             | 17928.3 | 14907.9 | 6452.4  | 13428.2 | 1930.3  | 12923.1 |
| 219                                                                           | RUDDY R       | 1.0    | 15038.8                             | 17367.8 | 15035.6 | 3032.6  | 14331.4 | 4.3     | 11503.1 |
| 220                                                                           | LOWER MO      | 1.0    | 11287.7                             | 11598.0 | 11381.4 | 286.0   | 8978.7  | 8.3     | 8701.0  |
| 221                                                                           | TULE DES      | 1.0    | 7238.6                              | 9604.0  | 7038.1  | 3390.1  | 8743.0  | 293.2   | 3666.1  |
| 222                                                                           | VIRGIN R      | 2.0    | 16378.7                             | 19901.2 | 12618.1 | 11474.0 | 19320.9 | 4812.4  | 14869.3 |
| 223                                                                           | GOLD BUTTE    | 3.0    | 18960.4                             | 21107.7 | 13605.9 | 11669.0 | 20082.1 | 8821.1  | 17234.1 |

Table 11.

| GREAT BASIN VALLEYS RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000.0 |         |            |         |            |         |            |         |            |         |            |         |
|-------------------------------------------------------------------------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
| ALT 0                                                                         | ALT 1   | ALT 2      | ALT 3   | ALT 4      | ALT 5   | ALT 6      | ALT 7   | ALT 8      | ALT 9   | ALT 10     | ALT 11  |
| RESOURCE                                                                      | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   |
| BERYL-ENT                                                                     | 21918.8 | BERYL-ENT  | 23103.1 | BERYL-ENT  | 17326.0 | SPRING     | 26694.8 | BERYL-ENT  | 24733.3 | SHAKE      | 25498.1 |
| SPRING                                                                        | 20694.3 | SPRING     | 21612.7 | SPRING     | 17210.9 | SHAKE      | 23730.4 | SPRING     | 23195.2 | SPRING     | 25432.7 |
| GOLD BUTTE                                                                    | 18960.4 | GOLD BUTTE | 21107.7 | SHAKE      | 13629.7 | BERYL-ENT  | 23413.3 | DRY        | 20793.3 | BEAVER     | 22389.3 |
| BLACK HTNS                                                                    | 18428.9 | MEADOW V   | 21019.3 | BLACK HTNS | 13430.9 | HAWLIN     | 23413.3 | GOLD BUTTE | 20082.1 | HAWLIN     | 21889.3 |
| MEADOW V                                                                      | 17486.3 | BLACK HTNS | 20694.3 | GOLD BUTTE | 16043.4 | LAKE       | 22661.3 | BERYL-ENT  | 19643.6 | BERYL-ENT  | 21818.3 |
| BEAVER                                                                        | 17107.7 | VIRGIN R   | 19901.2 | BEAVER     | 15330.0 | PATTERSON  | 21601.9 | VIRGIN R   | 19330.9 | LAKE       | 20836.3 |
| VIRGIN R                                                                      | 16378.7 | DRY        | 18803.7 | HIDDEN V N | 12593.0 | CAVE       | 20698.2 | BLACK HTNS | 19232.1 | SEV DES    | 20283.8 |
| HIDDEN V N                                                                    | 16230.0 | HIDDEN V N | 18092.8 | RUDDY R    | 13039.6 | DRY        | 20646.6 | PATTERSON  | 18893.2 | CAVE       | 19008.8 |
| CALIF WASH                                                                    | 16043.4 | CALIF WASH | 17928.3 | GARNET     | 14932.0 | BEAVER     | 19827.3 | BEAVER     | 17297.4 | WHITE      | 18612.3 |
| GARNET                                                                        | 15827.0 | GARNET     | 17321.8 | CALIF WASH | 14907.9 | SPRING     | 18630.4 | HAWLIN     | 16973.3 | SPRING     | 18480.0 |
| DRY                                                                           | 13760.9 | RUDDY R    | 17367.8 | SEV DES    | 14906.8 | WHITERIVER | 18628.8 | HIDDEN V N | 13429.3 | PATTERSON  | 16936.3 |
| RUDDY R                                                                       | 15038.8 | PATTERSON  | 17310.1 | COVOTE     | 14475.4 | SEV DES    | 16303.1 | CALIF WASH | 13429.3 | PAROWAN    | 16934.6 |
| PATTERSON                                                                     | 14467.3 | BEAVER     | 13141.8 | MEADOW V   | 14408.9 | WHITE      | 14877.9 | GARNET     | 14829.7 | WHITERIVER | 16693.3 |
| COVOTE                                                                        | 14476.7 | COVOTE     | 14866.1 | VIRGIN R   | 12618.1 | PAROWAN    | 12820.1 | RUDDY R    | 14331.4 | DRY        | 16664.1 |
| SHAKE                                                                         | 13718.4 | HAWLIN     | 14482.6 | WHITE      | 12339.3 | LUND DIST  | 13448.0 | SHAKE      | 14233.9 | RILFORD    | 16346.7 |
| HAWLIN                                                                        | 12347.6 | TIKABOD S  | 12514.2 | TIKABOD S  | 12422.2 | STEPDUE    | 13369.0 | LAKE       | 14030.0 | CALIF WASH | 16378.3 |
| PAROWAN                                                                       | 12282.9 | SHAKE      | 12360.8 | LOWER MO   | 11381.4 | GARDEN     | 13208.4 | PAROWAN    | 13463.8 | MAN MAN    | 12995.6 |
| RILFORD                                                                       | 12335.0 | LAKE       | 12213.9 | PATTERSON  | 10747.2 | RUBY       | 12207.2 | LUND DIST  | 13421.3 | RUBY       | 12360.4 |
| TIKABOD S                                                                     | 12424.0 | GARDEN     | 11694.3 | SEV LANE   | 10399.1 | GOLD BUTTE | 11669.0 | CAVE       | 11383.6 | LUND DIST  | 11981.3 |
| SEV DES                                                                       | 11522.4 | LOWER MO   | 11598.0 | NAME SPR   | 11382.8 | VIRGIN R   | 11674.0 | COVOTE     | 11371.3 | CEDAR CITY | 11104.6 |
| LOWER MO                                                                      | 11287.7 | NAME SPR   | 11382.8 | HAWLIN     | 10344.1 | MEADOW V   | 11030.8 | GARDEN     | 11479.4 | PINE       | 10909.9 |
| LAKE                                                                          | 10843.9 | PENOVY     | 11484.9 |            |         | JAMES      | 10904.7 | PENOVY     | 10538.2 | JAMES      | 10896.6 |
| NAME SPR                                                                      | 10572.8 | PAROWAN    | 10901.3 |            |         | BLACK HTNS | 10602.3 | SEV DES    | 10293.3 | DEEP CRK   | 10892.7 |
|                                                                               |         | CAVE       | 10419.3 |            |         | PINE       | 10176.0 |            |         | GARDEN     | 10874.3 |
|                                                                               |         | LUND DIST  | 10181.9 |            |         |            |         |            |         | WHITE      | 10578.6 |

Table 12. Ranking of OB alternatives by mean, effect index E, and standard deviation about mean E for 74 hydrologic subunits.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING |
|--------------|----------|----------------|----------------------------|-------------------------------|---------------------------|--------------------|
| 1            | 2        | Coyote Delta   | 6,104                      | 5,861                         | 681                       | 1                  |
| 2            | 6        | Milford Coyote | 6,684                      | 6,662                         | 774                       | 2                  |
| 3            | 0        | Coyote Milford | 6,730                      | 6,636                         | 771                       | 3                  |
| 4            | 5        | Milford Ely    | 6,907                      | 7,754                         | 901                       | 6                  |
| 5            | 1        | Coyote Beryl   | 6,930                      | 7,242                         | 842                       | 5                  |
| 6            | 4        | Beryl Coyote   | 6,957                      | 7,207                         | 838                       | 4                  |
| 7            | 3        | Beryl Ely      | 7,179                      | 7,635                         | 887                       | 7                  |

3953

Table 13. Subjective ranking of OB siting alternatives with respect to several resources. Predicted impact increases with rank.

| RESOURCE                     | SUBJECTIVE RANK |   |   |   |   |   |   |
|------------------------------|-----------------|---|---|---|---|---|---|
|                              | 1               | 2 | 3 | 4 | 5 | 6 | 7 |
| 74 Hydrologic Subunits       | 2               | 6 | 0 | 4 | 1 | 5 | 3 |
| 35 Recreation Areas          | 2               | 0 | 6 | 1 | 4 | 5 | 3 |
| 55 Wilderness Areas          | 2               | 6 | 5 | 0 | 3 | 4 | 1 |
| 79 Significant Natural Areas | 2               | 6 | 0 | 1 | 4 | 5 | 3 |
| Pronghorn Habitat            | 2               | 1 | 0 | 4 | 6 | 3 | 5 |
| Bighorn Habitat              | 5               | 3 | 6 | 2 | 0 | 4 | 1 |
| Utah Prairie Dog             | 2               | 1 | 0 | 4 | 3 | 6 | 5 |
| Sage Grouse Habitat          | 2               | 1 | 0 | 4 | 6 | 3 | 5 |
| Desert Tortoise Habitat      | 5               | 3 | 6 | 2 | 0 | 4 | 1 |

3863

Table 14. Alternatives in order and their subjective rankings with respect to several resources. Predicted impact increases with rank.

| RESOURCE                     | ALTERNATIVE |     |     |     |     |     |     |
|------------------------------|-------------|-----|-----|-----|-----|-----|-----|
|                              | 0           | 1   | 2   | 3   | 4   | 5   | 6   |
| 74 Hydrologic Subunits       | 3           | 5   | 1   | 7   | 4   | 6   | 2   |
| 35 Recreation Areas          | 2           | 4   | 1   | 7   | 5   | 6   | 3   |
| 55 Wilderness Areas          | 4           | 7   | 1   | 5   | 6   | 4   | 1   |
| 79 Significant Natural Areas | 3           | 4   | 1   | 7   | 5   | 6   | 2   |
| Pronghorn Habitat            | 3           | 2   | 1   | 6   | 4   | 7   | 5   |
| Bighorn Habitat              | 5           | 7   | 4   | 2   | 6   | 1   | 3   |
| Utah Prairie Dog             | 3           | 2   | 1   | 5   | 4   | 7   | 6   |
| Sage Grouse Habitat          | 3           | 2   | 1   | 6   | 4   | 7   | 5   |
| Desert Tortoise Habitat      | 5           | 7   | 4   | 2   | 6   | 1   | 3   |
| Mean Rank for All Resources  | 3.4         | 4.4 | 1.7 | 5.2 | 4.9 | 5.0 | 3.3 |

4040

This analysis considers only indirect potential impact of OB sites on resources-- and only the operational stage. Short term impacts are not evaluated. Nor are already existing impacts considered, but only those impacts which would be added to the region as a result of the base construction and occupation. This may not be reasonable in the case of Clark County where the additional impact of 20,000 people may be negligible for many resources. In this case, the analysis may overemphasize the impact of an OB site in or near an already populous region.

The split basing alternative (Alternative 8) was not analyzed because in an ordinal ranking system, Alternative 8 would be the easy winner since only one base would be located in the region rather than two bases.

Finally, air distance may not be the best choice of measurement. The model is being refined to replace air distances with an estimate of travel time. This will have several advantages including ability to map the impact surfaces. Further, this will not predict a high level of impact in inaccessible areas simply because they happen to be close to the OB site. On the same line, higher impact levels may occur at more accessible locations and lesser impacts at more distant locations. While refinements to the model are in progress, the relative impact assessment shown here is not expected to change significantly. In particular, when used in conjunction with other issues, refinements in the evaluation of indirect effects indices is not expected to produce significant changes in a selection among alternative sites.

### **BIBLIOGRAPHY**

- Dyer, A.A. and R.S. Whaley, 1968. Predicting use of recreation sites. Utah Agric. Expt. Stn. Bull No. 447. 21 p.
- Huff, D.L. 1963. A probabilistic analysis of shopping center trade areas. Land Economics 39:81-90.
- Reilly, W.J. 1929. Methods for the study of retail relationships. Bureau of Business Research Studies in Marketing 4. Austin, Texas.
- Anonymous. 1979. Statewide Angler Use Survey. Nevada Dept. of Wildlife Job Progress Report.

## **APPENDIX I**

### **DATA USED FOR VALIDATION OF EFFECTS INDEX MODEL**

| USE OF FISHING STREAMS IN NEVADA |               |        |                  |          |       |         |          |          |
|----------------------------------|---------------|--------|------------------|----------|-------|---------|----------|----------|
| ID                               | STREAM        | APPEAL | HOME CNTY        | HOME POP | DIST  | ANGLERS | ANGLRDAY | EFFINDX  |
| 1012                             | BAKER CK      | 2.0    | CLARK            | 376800.0 | 210.0 | 207.0   | 1170.0   | 4185.9   |
| 1012                             | BAKER CK      | 3.0    | LANDER           | 3400.0   | 182.0 | 10.0    | 14.0     | 757.0    |
| 1012                             | BAKER CK      | 3.0    | LYON             | 11100.0  | 268.0 | 22.0    | 87.0     | 427.3    |
| 1012                             | BAKER CK      | 3.0    | WHITE PINE       | 9300.0   | 37.6  | 97.0    | 498.0    | 8722.4   |
| 1013                             | BAKER CK, SF  | 3.0    | CLARK            | 376800.0 | 210.0 | 110.0   | 186.0    | 50994.3  |
| 1018                             | BASTIAN CK    | 1.0    | WHITE PINE       | 9300.0   | 18.4  | 37.0    | 32.0     | 8099.7   |
| 1025                             | BERRY CK, LWR | 2.0    | CLARK            | 376800.0 | 234.0 | 45.0    | 110.0    | 1411.1   |
| 1025                             | BERRY CK, LWR | 2.0    | WASHOE           | 163200.0 | 276.0 | 3.0     | 45.0     | 68.7     |
| 1025                             | BERRY CK, LWR | 2.0    | WHITE PINE       | 9300.0   | 21.6  | 118.0   | 227.0    | 8867.6   |
| 1026                             | BERRY CK, NF  | 1.0    | WHITE PINE       | 9300.0   | 14.4  | 20.0    | 120.0    | 8545.3   |
| 1033                             | BIRD          | 2.0    | MINERAL          | 5500.0   | 228.0 | 5.0     | 6.0      | 27.3     |
| 1033                             | BIRD          | 2.0    | WHITE PINE       | 9300.0   | 11.2  | 88.0    | 397.0    | 9181.7   |
| 1084                             | CAVE CK       | 2.0    | CLARK            | 376800.0 | 218.0 | 65.0    | 275.0    | 2951.5   |
| 1084                             | CAVE CK       | 2.0    | LINCOLN          | 3300.0   | 100.0 | 4.0     | 60.0     | 1189.5   |
| 1084                             | CAVE CK       | 2.0    | WHITE PINE       | 9300.0   | 13.6  | 97.0    | 112.0    | 9126.1   |
| 1074                             | CLEVE CK      | 2.0    | CHURCHILL        | 12400.0  | 228.0 | 55.0    | 68.0     | 61.6     |
| 1074                             | CLEVE CK      | 4.0    | CLARK            | 376800.0 | 224.0 | 276.0   | 660.0    | 104764.5 |
| 1074                             | CLEVE CK      | 2.0    | ELKO             | 15000.0  | 130.0 | 10.0    | 1.0      | 2674.0   |
| 1074                             | CLEVE CK      | 2.0    | LINCOLN          | 3300.0   | 102.0 | 17.0    | 119.0    | 1141.4   |
| 1074                             | CLEVE CK      | 2.0    | WASHOE           | 163200.0 | 284.0 | 22.0    | 4.0      | 43.5     |
| 1074                             | CLEVE CK      | 1.0    | WHITE PINE       | 9300.0   | 16.0  | 8.0     | 49.0     | 8377.3   |
| 1112                             | CURRENT CK    | 2.0    | CLARK            | 376800.0 | 192.0 | 58.0    | 110.0    | 8759.0   |
| 1112                             | CURRENT CK    | 2.0    | NYE              | 6500.0   | 72.0  | 24.0    | 155.0    | 3829.8   |
| 1112                             | CURRENT CK    | 2.0    | WHITE PINE       | 9300.0   | 40.0  | 33.0    | 14.0     | 7899.1   |
| 1133                             | DUCK CK       | 2.0    | CLARK            | 376800.0 | 226.0 | 3.0     | 192.0    | 2054.2   |
| 1133                             | DUCK CK       | 2.0    | NYE              | 6500.0   | 120.0 | 59.0    | 17.0     | 1495.4   |
| 1133                             | DUCK CK       | 2.0    | WASHOE           | 163200.0 | 278.0 | 30.0    | 85.0     | 61.4     |
| 1133                             | DUCK CK       | 2.0    | WHITE PINE       | 9300.0   | 18.4  | 96.0    | 382.0    | 8984.2   |
| 1136                             | EAST CK       | 1.0    | WHITE PINE       | 9300.0   | 20.8  | 78.0    | 6.0      | 7794.6   |
| 1187                             | HUNTINGTON CK | 2.0    | CLARK            | 376800.0 | 272.0 | 3.0     | 55.0     | 198.4    |
| 1187                             | HUNTINGTON CK | 1.0    | ELKO             | 15000.0  | 58.0  | 10.0    | 12.0     | 3800.0   |
| 1190                             | ILLIPAH CK    | 1.0    | ELKO             | 15000.0  | 106.0 | 1.0     | 1.0      | 152.9    |
| 1190                             | ILLIPAH CK    | 2.0    | EUREKA           | 800.0    | 34.0  | 39.0    | 1.0      | 711.0    |
| 1190                             | ILLIPAH CK    | 2.0    | ORMSBY, CARSON C | 29500.0  | 240.0 | 4.0     | 39.0     | 82.6     |
| 1190                             | ILLIPAH CK    | 2.0    | WASHOE           | 163200.0 | 242.0 | 24.0    | 52.0     | 414.4    |
| 1190                             | ILLIPAH CK    | 2.0    | WHITE PINE       | 9300.0   | 28.0  | 86.0    | 137.0    | 8585.0   |
| 1215                             | KALAMAZOO CK  | 3.0    | CLARK            | 376800.0 | 246.0 | 106.0   | 460.0    | 24221.1  |
| 1215                             | KALAMAZOO CK  | 1.0    | LINCOLN          | 3300.0   | 128.0 | 6.0     | 21.0     | 4.1      |
| 1215                             | KALAMAZOO CK  | 1.0    | NYE              | 6500.0   | 138.0 | 8.0     | 3.0      | 2.7      |
| 1215                             | KALAMAZOO CK  | 3.0    | WHITE PINE       | 9300.0   | 27.2  | 142.0   | 659.0    | 8993.1   |
| 1226                             | LEHMAN CK     | 3.0    | CLARK            | 376800.0 | 220.0 | 351.0   | 887.0    | 41959.4  |
| 1226                             | LEHMAN CK     | 3.0    | LINCOLN          | 3300.0   | 86.0  | 48.0    | 13.0     | 2359.6   |
| 1226                             | LEHMAN CK     | 3.0    | WASHOE           | 163200.0 | 310.0 | 67.0    | 270.0    | 2089.0   |
| 1226                             | LEHMAN CK     | 3.0    | WHITE PINE       | 9300.0   | 41.6  | 121.0   | 1796.0   | 8598.0   |
| 1250                             | MCCOY CK      | 1.0    | WHITE PINE       | 9300.0   | 20.8  | 19.0    | 22.0     | 7794.6   |
| 1290                             | PIERMONT CK   | 1.0    | WHITE PINE       | 9300.0   | 21.6  | 15.0    | 30.0     | 7687.4   |
| 1359                             | SILVER CK     | 1.0    | CLARK            | 376800.0 | 222.0 | 57.0    | 115.0    | 0.0      |
| 1359                             | SILVER CK     | 3.0    | MINERAL          | 5500.0   | 248.0 | 7.0     | 4.0      | 338.1    |
| 1359                             | SILVER CK     | 3.0    | WHITE PINE       | 9300.0   | 36.8  | 135.0   | 1493.0   | 8746.0   |
| 1372                             | SNAKE CK      | 4.0    | CLARK            | 376800.0 | 212.0 | 655.0   | 1935.0   | 119723.4 |
| 1372                             | SNAKE CK      | 3.0    | ESMERALDA        | 700.0    | 180.0 | 10.0    | 12.0     | 161.0    |
| 1372                             | SNAKE CK      | 3.0    | LINCOLN          | 3300.0   | 80.0  | 35.0    | 156.0    | 2468.7   |
| 1372                             | SNAKE CK      | 3.0    | WHITE PINE       | 9300.0   | 42.4  | 84.0    | 1556.0   | 8571.8   |
| 1393                             | STEPTOE CK    | 2.0    | CLARK            | 376800.0 | 218.0 | 10.0    | 55.0     | 2951.5   |
| 1393                             | STEPTOE CK    | 2.0    | LINCOLN          | 3300.0   | 100.0 | 3.0     | 50.0     | 1189.5   |
| 1393                             | STEPTOE CK    | 2.0    | NYE              | 6500.0   | 112.0 | 16.0    | 17.0     | 1807.2   |
| 1393                             | STEPTOE CK    | 3.0    | WHITE PINE       | 9300.0   | 8.8   | 189.0   | 765.0    | 9267.4   |
| 1397                             | STRAWBERRY CK | 1.0    | WHITE PINE       | 9300.0   | 36.8  | 82.0    | 80.0     | 5350.9   |
| 1406                             | TAFT CK       | 2.0    | CLARK            | 376800.0 | 232.0 | 8.0     | 110.0    | 1551.9   |
| 1406                             | TAFT CK       | 2.0    | WHITE PINE       | 9300.0   | 20.8  | 19.0    | 16.0     | 8898.4   |
| 1424                             | TIMBER CK     | 2.0    | CLARK            | 376800.0 | 236.0 | 3.0     | 55.0     | 1282.0   |
| 1424                             | TIMBER CK     | 3.0    | WHITE PINE       | 9300.0   | 16.8  | 150.0   | 699.0    | 9181.7   |
| 1457                             | WHITE RIVER   | 3.0    | CLARK            | 376800.0 | 200.0 | 113.0   | 495.0    | 61415.1  |
| 1457                             | WHITE RIVER   | 2.0    | ELKO             | 15000.0  | 136.0 | 3.0     | 3.0      | 2272.1   |
| 1457                             | WHITE RIVER   | 2.0    | LINCOLN          | 3300.0   | 98.0  | 3.0     | 6.0      | 1238.5   |
| 1457                             | WHITE RIVER   | 2.0    | NYE              | 6500.0   | 78.0  | 4.0     | 3.0      | 3493.8   |
| 1457                             | WHITE RIVER   | 2.0    | WASHOE           | 163200.0 | 250.0 | 5.0     | 4.0      | 277.3    |
| 1457                             | WHITE RIVER   | 3.0    | WHITE PINE       | 9300.0   | 32.8  | 148.0   | 331.0    | 8857.1   |
| 1475                             | WILLOW CK     | 1.0    | WHITE PINE       | 9300.0   | 14.4  | 63.0    | 40.0     | 8545.3   |

| USE OF LAKES IN NEVADA |              |        |                 |          |       |         |          |          |
|------------------------|--------------|--------|-----------------|----------|-------|---------|----------|----------|
| ID                     | STREAM       | APPEAL | HOME CNTY       | HOME POP | DIST  | ANGLERS | ANGLRDAY | EFFINDX  |
| 3002                   | ADAMS-MCGILL | 3.0    | CLARK           | 376800.0 | 160.0 | 888.0   | 3269.0   | 118003.8 |
| 3002                   | ADAMS-MCGILL | 3.0    | EUREKA          | 800.0    | 94.0  | 26.0    | 16.0     | 535.9    |
| 3002                   | ADAMS-MCGILL | 3.0    | LINCOLN         | 3300.0   | 58.0  | 110.0   | 367.0    | 2833.1   |
| 3002                   | ADAMS-MCGILL | 1.0    | MINERAL         | 5500.0   | 196.0 | 14.0    | 85.0     | 0.0      |
| 3002                   | ADAMS-MCGILL | 2.0    | NYE             | 6500.0   | 70.0  | 97.0    | 369.0    | 3942.4   |
| 3002                   | ADAMS-MCGILL | 1.0    | PERSHING        | 3000.0   | 296.0 | 4.0     | 22.0     | 0.0      |
| 3002                   | ADAMS-MCGILL | 1.0    | WASHOE          | 163200.0 | 270.0 | 6.0     | 4.0      | 0.0      |
| 3002                   | ADAMS-MCGILL | 4.0    | WHITE PINE      | 9300.0   | 63.2  | 653.0   | 5211.0   | 8399.1   |
| 3009                   | BAKER LK     | 1.0    | WHITE PINE      | 9300.0   | 37.6  | 33.0    | 43.0     | 5222.5   |
| 3041                   | CAVE LK      | 1.0    | CHURCHILL       | 12400.0  | 324.0 | 7.0     | 8.0      | 0.0      |
| 3041                   | CAVE LK      | 4.0    | CLARK           | 376800.0 | 220.0 | 1778.0  | 3944.0   | 109620.1 |
| 3041                   | CAVE LK      | 1.0    | ELKO            | 15000.0  | 130.0 | 4.0     | 33.0     | 15.1     |
| 3041                   | CAVE LK      | 2.0    | EUREKA          | 800.0    | 72.0  | 14.0    | 16.0     | 471.4    |
| 3041                   | CAVE LK      | 2.0    | LINCOLN         | 3300.0   | 102.0 | 88.0    | 187.0    | 1141.4   |
| 3041                   | CAVE LK      | 3.0    | MINERAL         | 5500.0   | 220.0 | 42.0    | 100.0    | 612.5    |
| 3041                   | CAVE LK      | 1.0    | NYE             | 6500.0   | 116.0 | 31.0    | 48.0     | 26.8     |
| 3041                   | CAVE LK      | 3.0    | ORMSBY, CARSN C | 29500.0  | 278.0 | 66.0    | 263.0    | 886.4    |
| 3041                   | CAVE LK      | 1.0    | PERSHING        | 3000.0   | 218.0 | 4.0     | 55.0     | 0.0      |
| 3041                   | CAVE LK      | 1.0    | STOREY          | 1200.0   | 266.0 | 11.0    | 4.0      | 0.0      |
| 3041                   | CAVE LK      | 2.0    | WASHOE          | 163200.0 | 280.0 | 183.0   | 507.0    | 54.7     |
| 3041                   | CAVE LK      | 5.0    | WHITE PINE      | 9300.0   | 11.2  | 1360.0  | 8118.0   | 9281.0   |
| 3051                   | COMINS LK    | 1.0    | CHURCHILL       | 12400.0  | 220.0 | 11.0    | 8.0      | 0.0      |
| 3051                   | COMINS LK    | 2.0    | CLARK           | 376800.0 | 216.0 | 976.0   | 2018.0   | 3224.9   |
| 3051                   | COMINS LK    | 3.0    | DOUGLAS         | 14300.0  | 274.0 | 33.0    | 190.0    | 474.9    |
| 3051                   | COMINS LK    | 1.0    | ELKO            | 15000.0  | 128.0 | 17.0    | 47.0     | 18.7     |
| 3051                   | COMINS LK    | 1.0    | ESMERALDA       | 700.0    | 160.0 | 8.0     | 11.0     | 0.0      |
| 3051                   | COMINS LK    | 1.0    | EUREKA          | 800.0    | 68.0  | 27.0    | 24.0     | 121.2    |
| 3051                   | COMINS LK    | 1.0    | HUMBOLDT        | 7600.0   | 196.0 | 10.0    | 69.0     | 0.0      |
| 3051                   | COMINS LK    | 1.0    | LINCOLN         | 3300.0   | 100.0 | 20.0    | 149.0    | 55.7     |
| 3051                   | COMINS LK    | 3.0    | MINERAL         | 5500.0   | 214.0 | 66.0    | 178.0    | 689.2    |
| 3051                   | COMINS LK    | 1.0    | NYE             | 6500.0   | 110.0 | 23.0    | 26.0     | 46.6     |
| 3051                   | COMINS LK    | 4.0    | ORMSBY, CARSN C | 29500.0  | 272.0 | 162.0   | 277.0    | 4468.5   |
| 3051                   | COMINS LK    | 1.0    | WASHOE          | 163200.0 | 274.0 | 6.0     | 90.0     | 0.0      |
| 3051                   | COMINS LK    | 4.0    | WHITE PINE      | 9300.0   | 7.2   | 743.0   | 4993.0   | 9287.7   |
| 3116                   | HAYMEADOW RS | 3.0    | CLARK           | 376800.0 | 156.0 | 359.0   | 14020.0  | 124965.9 |
| 3116                   | HAYMEADOW RS | 1.0    | ESMERALDA       | 700.0    | 120.0 | 4.0     | 16.0     | 2.0      |
| 3116                   | HAYMEADOW RS | 1.0    | LANDER          | 3400.0   | 182.0 | 10.0    | 12.0     | 0.0      |
| 3116                   | HAYMEADOW RS | 1.0    | LINCOLN         | 3300.0   | 58.0  | 38.0    | 165.0    | 836.0    |
| 3116                   | HAYMEADOW RS | 2.0    | WHITE PINE      | 9300.0   | 66.4  | 264.0   | 1544.0   | 5930.6   |
| 3130                   | ILLIPAH RES  | 1.0    | CLARK           | 376800.0 | 228.0 | 114.0   | 477.0    | 0.0      |
| 3130                   | ILLIPAH RES  | 3.0    | EUREKA          | 800.0    | 34.0  | 40.0    | 112.0    | 759.1    |
| 3130                   | ILLIPAH RES  | 2.0    | LINCOLN         | 3300.0   | 122.0 | 48.0    | 26.0     | 722.6    |
| 3130                   | ILLIPAH RES  | 1.0    | WASHOE          | 163200.0 | 242.0 | 51.0    | 180.0    | 0.0      |
| 3130                   | ILLIPAH RES  | 4.0    | WHITE PINE      | 9300.0   | 27.2  | 733.0   | 2574.0   | 9126.1   |
| 3025                   | RUBY MARSH   | 3.0    | CHURCHILL       | 12400.0  | 190.0 | 118.0   | 230.0    | 2412.1   |
| 3025                   | RUBY MARSH   | 4.0    | CLARK           | 376800.0 | 292.0 | 610.0   | 1481.0   | 42803.2  |
| 3025                   | RUBY MARSH   | 4.0    | DOUGLAS         | 14300.0  | 254.0 | 214.0   | 429.0    | 2757.8   |
| 3025                   | RUBY MARSH   | 5.0    | ELKO            | 15000.0  | 46.0  | 1883.0  | 13607.0  | 14490.6  |
| 3025                   | RUBY MARSH   | 3.0    | ESMERALDA       | 700.0    | 188.0 | 12.0    | 136.0    | 140.9    |
| 3025                   | RUBY MARSH   | 3.0    | EUREKA          | 800.0    | 62.0  | 84.0    | 408.0    | 672.0    |
| 3025                   | RUBY MARSH   | 3.0    | HUMBOLDT        | 7600.0   | 126.0 | 146.0   | 513.0    | 3699.3   |
| 3025                   | RUBY MARSH   | 3.0    | LANDER          | 3400.0   | 88.0  | 196.0   | 746.0    | 2393.1   |
| 3025                   | RUBY MARSH   | 3.0    | LINCOLN         | 3300.0   | 188.0 | 75.0    | 192.0    | 664.3    |
| 3025                   | RUBY MARSH   | 1.0    | LYON            | 11100.0  | 202.0 | 3.0     | 290.0    | 0.0      |
| 3025                   | RUBY MARSH   | 1.0    | MINERAL         | 5500.0   | 212.0 | 30.0    | 70.0     | 0.0      |
| 3025                   | RUBY MARSH   | 3.0    | NYE             | 6500.0   | 154.0 | 127.0   | 369.0    | 2217.2   |
| 3025                   | RUBY MARSH   | 4.0    | ORMSBY, CARSN C | 29500.0  | 242.0 | 374.0   | 984.0    | 6622.1   |
| 3025                   | RUBY MARSH   | 1.0    | PERSHING        | 3000.0   | 164.0 | 15.0    | 132.0    | 0.1      |
| 3025                   | RUBY MARSH   | 5.0    | WASHOE          | 163200.0 | 244.0 | 1359.0  | 6574.0   | 61741.7  |
| 3025                   | RUBY MARSH   | 4.0    | WHITE PINE      | 9300.0   | 84.0  | 745.0   | 7218.0   | 7768.0   |

**APPENDIX II**

**PROGRAM LISTING AND OUTPUT OF  
ANALYSES OF POTENTIAL IMPACT OF OB SITES ON EIGHT RESOURCES**

PASCAL COMPILER - E T H ZURICH / UNIVERSITY OF MINNESOTA  
\*\*\* HDP SYSTEMS \*\*\*

```

000004 1 PROGRAM BASEFF( INPUT, OUTPUT, DBPOP, DBDIST, TAPE1, TAPE2, TAPE3),
000074 2 (* PROGRAM TO COMPUTE INDEX OF EFFECT ON ANY LOCATION WITHIN GREAT *)
000074 3 (* BASIN FROM 0 8 BYTES BY ALTERNATIVE *)
000074 4 (* INPUT DATA FILES. *)
000074 5 (* DBPOP CONTAINS OPERATING BASE NAMES AND TOTAL *)
000074 6 (* POPULATION (A7, FB 0, 2X, A7, FB 0) *)
000074 7 (* FOR EACH BASE AND ALTERNATIVE *)
000074 8 (* DBDIST CONTAINS LOCATION AND DISTANCES FROM EACH *)
000074 9 (* 0 8 *)
000074 10
000074 11 (* FREAD // P3RCLIN' INCLUDE FORMATTED READ ROUTINES *)

```

----- BEGIN INCLUDED TEXT

```

000074 11 (* --- FREAD - FORMATTED READ PROCEDURES. --- *)
000074 11 (* PASS 4 PARAMETERS IN X-REGISTERS *)
000074 11 PROCEDURE FREADCHAR( VAR F : TEXT; VAR RESULT : CHAR ); EXTERN.
000074 11 PROCEDURE FREADINTEGER( VAR F : TEXT; VAR RESULT : INTEGER;
000074 12 WIDTH : INTEGER ); EXTERN.
000074 11 PROCEDURE FREADREAL( VAR F : TEXT; VAR RESULT : REAL;
000074 12 WIDTH, FRACWIDTH : INTEGER ); EXTERN.
000074 11 PROCEDURE FSKIP( VAR F : TEXT; WIDTH : INTEGER ); EXTERN.
000074 11 (* RESUME OLD X-OPTION *)

```

----- END INCLUDED TEXT

```

000004 12 CONST SIGMA = 35; SIEFFECT = 10000.
000004 13
000074 14 TYPE BASE = (BERYL, MILFORD, DELTA, ELY, COYOTE).
000074 15 METRIC = (INCH, MILE).
000074 16 NAME = PACKED ARRAY(1..7) OF CHAR.
000074 17 STRING = PACKED ARRAY(1..40) OF CHAR.
000074 18 VECTOR = ARRAY(1..100) OF REAL.
000074 19
000074 20 VAR ALTERN ARRAY(0..6) OF BASE;
000074 21 POP ARRAY(0..6) OF REAL;
000074 22 MEASURE : METRIC;
000074 23 LOCATION ARRAY(1..100, 1..2) OF ALFA;
000074 24 DISTANCE ARRAY(1..100, 0..9) OF REAL;
000074 25 I, J, N, ALT, INDEXA, INDEXB, PAGE, PAGES, MAX, TITLELEN, LINECNT, LINEMILES : INTEGER.
000074 26 BUG BOOLEAN.
000074 27 YUP CHAR.
000074 28
000074 29 BASEA, BASEB, BASEC, BASED, BASEE, BASEF, BASEG, BASEH, BASEI, BASEJ, BASEK, BASEL, BASEM, BASEN, BASEO, BASEP, BASEQ, BASER, BASES, BASET, BASEU, BASEV, BASEW, BASEX, BASEY, BASEZ, BASEAA, BASEAB, BASEAC, BASEAD, BASEAE, BASEAF, BASEAG, BASEAH, BASEAI, BASEAJ, BASEAK, BASEAL, BASEAM, BASEAN, BASEAO, BASEAP, BASEAQ, BASEAR, BASEAS, BASEAT, BASEAU, BASEAV, BASEAW, BASEAX, BASEAY, BASEAZ, BASEBA, BASEBB, BASEBC, BASEBD, BASEBE, BASEBF, BASEBG, BASEBH, BASEBI, BASEBJ, BASEBK, BASEBL, BASEBM, BASEBN, BASEBO, BASEBP, BASEBQ, BASEBR, BASEBS, BASEBT, BASEBU, BASEBV, BASEBW, BASEBX, BASEBY, BASEBZ, BASECA, BASECB, BASECC, BASECD, BASECE, BASECF, BASECG, BASECH, BASECI, BASECJ, BASECK, BASECL, BASECM, BASECN, BASECO, BASECP, BASECQ, BASECR, BASECS, BASECT, BASECU, BASECV, BASECW, BASECX, BASECY, BASECZ, BASEDA, BASEDB, BASEDC, BASEDD, BASEDE, BASEDF, BASEDG, BASEDH, BASEDI, BASEDJ, BASEDK, BASEDL, BASEDM, BASEDN, BASEDO, BASEDP, BASEDQ, BASEDR, BASEDS, BASEDT, BASEDU, BASEDV, BASEDW, BASEDX, BASEDY, BASEDZ, BASEEA, BASEEB, BASEEC, BASEED, BASEEE, BASEEF, BASEEG, BASEEH, BASEEI, BASEEJ, BASEEK, BASEEL, BASEEM, BASEEN, BASEEO, BASEEP, BASEEQ, BASEER, BASEES, BASEET, BASEEU, BASEEV, BASEEW, BASEEX, BASEEY, BASEEZ, BASEFA, BASEFB, BASEFC, BASEFD, BASEFE, BASEFF, BASEFG, BASEFH, BASEFI, BASEFJ, BASEFK, BASEFL, BASEFM, BASEFN, BASEFO, BASEFP, BASEFQ, BASEFR, BASEFS, BASEFT, BASEFU, BASEFV, BASEFW, BASEFX, BASEFY, BASEFZ, BASEGA, BASEGB, BASEGC, BASEGD, BASEGE, BASEGF, BASEGG, BASEGH, BASEGI, BASEGJ, BASEGK, BASEGL, BASEGM, BASEGN, BASEGO, BASEGP, BASEGQ, BASEGR, BASEGS, BASEGT, BASEGU, BASEGV, BASEGW, BASEGX, BASEGY, BASEGZ, BASEHA, BASEHB, BASEHC, BASEHD, BASEHE, BASEHF, BASEHG, BASEHH, BASEHI, BASEHJ, BASEHK, BASEHL, BASEHM, BASEHN, BASEHO, BASEHP, BASEHQ, BASEHR, BASEHS, BASEHT, BASEHU, BASEHV, BASEHW, BASEHX, BASEHY, BASEHZ, BASEIA, BASEIB, BASEIC, BASEID, BASEIE, BASEIF, BASEIG, BASEIH, BASEII, BASEIJ, BASEIK, BASEIL, BASEIM, BASEIN, BASEIO, BASEIP, BASEIQ, BASEIR, BASEIS, BASEIT, BASEIU, BASEIV, BASEIW, BASEIX, BASEIY, BASEIZ, BASEJA, BASEJB, BASEJC, BASEJD, BASEJE, BASEJF, BASEJG, BASEJH, BASEJI, BASEJJ, BASEJK, BASEJL, BASEJM, BASEJN, BASEJO, BASEJP, BASEJQ, BASEJR, BASEJS, BASEJT, BASEJU, BASEJV, BASEJW, BASEJX, BASEJY, BASEJZ, BASEKA, BASEKB, BASEKC, BASEKD, BASEKE, BASEKF, BASEKG, BASEKH, BASEKI, BASEKJ, BASEKK, BASEKL, BASEKM, BASEKN, BASEKO, BASEKP, BASEKQ, BASEKR, BASEKS, BASEKT, BASEKU, BASEKV, BASEKW, BASEKX, BASEKY, BASEKZ, BASELA, BASELB, BASELC, BASELD, BASELE, BASELF, BASELG, BASELH, BASELI, BASELJ, BASELK, BASELL, BASELM, BASELN, BASELO, BASELP, BASELQ, BASELR, BASELS, BASELT, BASELU, BASELV, BASELW, BASELX, BASELY, BASELZ, BASEMA, BASEMB, BASEMC, BASEMD, BASEME, BASEMF, BASEMG, BASEMH, BASEMI, BASEMJ, BASEMK, BASEML, BASEMM, BASEMN, BASEMO, BASEMP, BASEMQ, BASEMR, BASEMS, BASEMT, BASEMU, BASEMV, BASEMW, BASEMX, BASEMY, BASEMZ, BASENA, BASENB, BASENC, BASEND, BASENE, BASENF, BASENG, BASENH, BASENI, BASENJ, BASENK, BASENL, BASENM, BASENO, BASENP, BASENQ, BASENR, BASENS, BASENT, BASENU, BASENV, BASENW, BASENX, BASENY, BASENZ, BASEOA, BASEOB, BASEOC, BASEOD, BASEOE, BASEOF, BASEOG, BASEOH, BASEOI, BASEOJ, BASEOK, BASEOL, BASEOM, BASEON, BASEOO, BASEOP, BASEOQ, BASEOR, BASEOS, BASEOT, BASEOU, BASEOV, BASEOW, BASEOX, BASEOY, BASEOZ, BASEPA, BASEPB, BASEPC, BASEPD, BASEPE, BASEPF, BASEPG, BASEPH, BASEPI, BASEPJ, BASEPK, BASEPL, BASEPM, BASEPN, BASEPO, BASEPP, BASEPQ, BASEPR, BASEPS, BASEPT, BASEPU, BASEPV, BASEPW, BASEPX, BASEPY, BASEPZ, BASEQA, BASEQB, BASEQC, BASEQD, BASEQE, BASEQF, BASEQG, BASEQH, BASEQI, BASEQJ, BASEQK, BASEQL, BASEQM, BASEQN, BASEQO, BASEQP, BASEQQ, BASEQR, BASEQS, BASEQT, BASEQU, BASEQV, BASEQW, BASEQX, BASEQY, BASEQZ, BASERA, BASERB, BASERC, BASERD, BASERE, BASERF, BASERG, BASERH, BASERI, BASERJ, BASERK, BASERL, BASERM, BASERN, BASERO, BASERP, BASERQ, BASERR, BASERS, BASERT, BASERU, BASERV, BASERW, BASERX, BASERY, BASERZ, BASESA, BASESB, BASESC, BASESD, BASESE, BASESF, BASESG, BASESH, BASESI, BASESJ, BASESK, BASESL, BASESM, BASESN, BASESO, BASESP, BASESQ, BASESR, BASESS, BASEST, BASESU, BASESV, BASESW, BASESX, BASESY, BASESZ, BASETA, BASETB, BASETC, BASETD, BASETE, BASETF, BASETG, BASETH, BASETI, BASETJ, BASETK, BASETL, BASETM, BASETN, BASETO, BASETP, BASETQ, BASETR, BASETS, BASETT, BASETU, BASETV, BASETW, BASETX, BASETY, BASETZ, BASEUA, BASEUB, BASEUC, BASEUD, BASEUE, BASEUF, BASEUG, BASEUH, BASEUI, BASEUJ, BASEUK, BASEUL, BASEUM, BASEUN, BASEUO, BASEUP, BASEUQ, BASEUR, BASEUS, BASEUT, BASEUU, BASEUV, BASEUW, BASEUX, BASEUY, BASEUZ, BASEVA, BASEVB, BASEVC, BASEVD, BASEVE, BASEVF, BASEVG, BASEVH, BASEVI, BASEVJ, BASEVK, BASEVL, BASEVM, BASEVN, BASEVO, BASEVP, BASEVQ, BASEVR, BASEVS, BASEVT, BASEVU, BASEVV, BASEVW, BASEVX, BASEVY, BASEVZ, BASEWA, BASEWB, BASEWC, BASEWD, BASEWE, BASEWF, BASEWG, BASEWH, BASEWI, BASEWJ, BASEWK, BASEWL, BASEWM, BASEWN, BASEWO, BASEWP, BASEWQ, BASEWR, BASEWS, BASEWT, BASEWU, BASEWV, BASEWW, BASEWX, BASEWY, BASEWZ, BASEXA, BASEXB, BASEXC, BASEXD, BASEXE, BASEXF, BASEXG, BASEXH, BASEXI, BASEXJ, BASEXK, BASEXL, BASEXM, BASEXN, BASEXO, BASEXP, BASEXQ, BASEXR, BASEXS, BASEXT, BASEXU, BASEXV, BASEXW, BASEXX, BASEXY, BASEXZ, BASEYA, BASEYB, BASEYC, BASEYD, BASEYE, BASEYF, BASEYG, BASEYH, BASEYI, BASEYJ, BASEYK, BASEYL, BASEYM, BASEYN, BASEYO, BASEYP, BASEYQ, BASEYR, BASEYS, BASEYT, BASEYU, BASEYV, BASEYW, BASEYX, BASEYY, BASEYZ, BASEZA, BASEZB, BASEZC, BASEZD, BASEZE, BASEZF, BASEZG, BASEZH, BASEZI, BASEZJ, BASEZK, BASEZL, BASEZM, BASEZN, BASEZO, BASEZP, BASEZQ, BASEZR, BASEZS, BASEZT, BASEZU, BASEZV, BASEZW, BASEZX, BASEZY, BASEZZ.
000074 29
000074 30 VALUE ALTERN = (COYOTE, MILFORD), (COYOTE, BERYL), (COYOTE, DELTA),
000074 31 (BERYL, ELY), (BERYL, COYOTE), (MILFORD, ELY),
000074 32 (MILFORD, COYOTE).
000074 33
000074 34 PROCEDURE SORT( VAR V : DYNAMIC VECTOR; N : INTEGER ); EXTERN.
000074 35
000074 36 PROCEDURE LINE( VAR F : TEXT; X : INTEGER );
000074 37 VAR I : INTEGER;

```

PASCAL COMPILER - ETH ZURICH / UNIVERSITY OF MINNESOTA  
\*\*\* NDR SYSTEMS \*\*\*

```

000003 40 BEGIN
000005 47 FOR I = 1 TO X DO WRITE(F, '-').
000022 48 WRITELN(F)
000034 49 END (* LINE *).
000033 50
000033 51 FUNCTION NORM(X, SIGMA REAL) REAL.
000005 52 CONST MU = 0.
000005 53 VAR A REAL.
000006 54 BEGIN (* NORM *)
000006 55 A = SQR((X - MU)/SIGMA).
000011 56 NORM = EXP(-0.5 * A * A)
000014 57 END (* NORM *).
000027 58
000027 59 PROCEDURE TAB(VAR F: TEXT; X INTEGER).
000004 60 VAR I INTEGER.
000005 61 BEGIN
000005 62 FOR I = 1 TO X DO WRITE(F, ' ')
000010 63 END (* TAB *).
000030 64
000030 65 PROCEDURE TAPEHEAD(VAR F: TEXT). (* PRINT HEADER ON TAPE *)
000003 66 VAR I: TABOVER, INTEGER.
000005 67 BEGIN
000005 68 TABOVER = (89 - TITILEN) DIV 2.
000010 69 TAB(F, TABOVER), WRITELN(F, 'EFFECT INDEX OF BASING ALTERNATIVES ON ',
000017 70 TITILEN).
000027 71 LINE(F, 130) (* PUT A LINE OF --- ACROSS PAGE *)
000032 72 TAB(F, 55), WRITELN(F, 'ALTERNATIVE NO. ', ALT 4), (* FIRST LINE OF HEADER *)
000031 73 TAB(F, 46), WRITELN(F, 'BASE A ', ALTBASE(ALT, 0)), LONG TERM POP.
000070 74 POP(ALT, 0), B 0), (* SECOND LINE OF HEADER *)
000110 75 TAB(F, 46), WRITELN(F, 'BASE B ', ALTBASE(ALT, 1)), LONG TERM POP.
000135 76 POP(ALT, 1), B 0), (* THIRD LINE OF HEADER *)
000147 77 WRITELN(F, (* SKIP A LINE *).
000152 78 LINE(F, 130).
000152 79 TAB(F, 6), WRITE(F, 'LOCATION'), TAB(F, 9), WRITE(F, 'MILES TO A'),
000170 80 TAB(F, 7), WRITE(F, 'EFFECT INDEX OF BASE A'), TAB(F, 5),
000211 81 WRITE(F, 'MILES TO B'), TAB(F, 6), WRITE(F, 'EFFECT INDEX OF BASE B'),
000227 82 TAB(F, 7), WRITELN(F, 'COMBINED EFFECTS'),
000242 83 WRITE(F, 'NO APPL. NAME'),
000250 84 FOR I = 1 TO 2 DO BEGIN
000253 85 TAB(F, 3), WRITE(F, 'N F AVE'),
000264 86 TAB(F, 7), WRITE(F, 'MAX'), TAB(F, 5), WRITE(F, 'MIN'),
000305 87 TAB(F, 5), WRITE(F, 'AVE')
000316 88 END (* FOR I *).
000323 89 TAB(F, 5), WRITE(F, 'MAX'), TAB(F, 5), WRITE(F, 'MIN'), TAB(F, 5),
000345 90 WRITELN(F, 'AVE') (* LAST LINE *).
000355 91 LINE(F, 132).
000360 92 LINECNT = 10, PAGES = 1,
000363 93 END (* TAPEHEAD *).
000425 94
000425 95 PROCEDURE TAPEBODY(VAR F: TEXT; X INTEGER). (* PRINT DATA IN TAPE *)
000004 96 VAR I, J INTEGER.
000006 97 BEGIN
000006 98 WRITE(F, 'LOCATION(X, 1) 5), WRITE(F, 'APPEAL(X) 3 1), TAB(F, 2),
000027 99 WRITE(F, 'LOCATION(X, 2)),
000040 100 FOR I = 0 TO 1 DO BEGIN
000043 101 FOR J = 1 TO 3 DO WRITE(F, 'DIST(X, 1) 6 0), WRITE(F, ' '),
000071 102 FOR J = 1 TO 3 DO WRITE(F, 'EFFINDEX(X, 1) 3 1,
000106 103 END (* FOR J *).
000116 104 FOR I = 7 TO 9 DO WRITE(F, 'EFFINDEX(X) 6 1),
000134 105 WRITELN(F).

```

```

000137 106 LINECNT = LINECNT + 1.
000141 107 IF LINECNT = 62 THEN BEGIN
000143 108   FOR I = 1 TO 4 DO WRITELN(F),
000155 109   LINECNT := 0, PAGES := PAGES + 1,
000160 110   END (* IF *),
000160 111 END (* TAPE1BODY *),
000170 112
000170 113 PROCEDURE TAPE2HD( VAR F: TEXT );
000003 114 VAR I: TABOVER: INTEGER;
000005 115 BEGIN
000005 116   TABOVER := (43 - TITLELN) DIV 2,
000010 117   TAB(F, TABOVER); WRITELN(F, 'COMBINED AVERAGE EFFECT INDEXES OF BASING',
000017 118   'ALTERNATIVES DU', TITLE TITLELN ),
000034 119   LINE(F, 100),
000037 120   TAB(F, 6); WRITE(F, 'LOCATION'), TAB(F, 36); WRITELN(F, 'AVERAGE EFFECT INDEX BY ALTERNATIVE'),
000062 121   WRITE(F, 'HC NAME'), TAB(F, 10); WRITE(F, 'APPEAL
000100 122   FOR I = 0 TO 6 DO BEGIN
000104 123     TAB(F, 5); WRITE(F, I),
000114 124     IF I < 6 THEN TAB(F, 4) ELSE WRITELN(F),
000125 125   END (* FOR I *),
000132 126   LINE(F, 100),
000134 127   LINECNT := 5
000154 128 END (* TAPE2HD *),
000163 129
000163 130 PROCEDURE TAPE3HD( VAR F: TEXT );
000003 131 VAR I: TABOVER: INTEGER;
000005 132 BEGIN
000005 133   TABOVER := ( 69 - TITLELN ) DIV 2,
000010 134   TAB(F, TABOVER); WRITELN( F, TITLE TITLELN, 'RANKED IN ORDER OF MEAN EFFECT',
000024 135   'INDEX GREATER THAN', SICEFFECT 5 ),
000040 136   LINE(F, 132),
000042 137   FOR I = 0 TO 6 DO BEGIN (* FIRST LINE *)
000047 138     TAB(F, 7); WRITE(F, 'ALT', I, 2),
000064 139     IF I < 6 THEN TAB(F, 7)
000070 140   END (* FOR I *),
000076 141   WRITELN(F),
000101 142   FOR I = 0 TO 6 DO BEGIN
000105 143     WRITE(F, 'RESOURCE INDEX'),
000113 144     IF I < 6 THEN TAB(F, 3),
000120 145     END (* FOR I *),
000125 146   WRITELN(F),
000130 147   LINE(F, 132),
000133 148   LINECNT := 5
000133 149 END (* TAPE3HD *),
000154 150
000154 151 PROCEDURE SORTPRINT( VAR F: TEXT );
000003 152 VAR I, J, K, L: BIGGEST: INTEGER;
000010 153   V, XX: VECTOR;
000020 154   YV: ARRAY[1..100] OF ALFA;
000044 155   MAX: ARRAY[0..6] OF INTEGER;
000073 156   PATCH: BOOLEAN;
000074 157   SORTEDX: ARRAY[1..100, 0..6] OF REAL;
000170 158   SORTEDY: ARRAY[1..100, 0..6] OF ALFA;
000324 159   BEGIN
000324 160     BIGGEST := 0
000006 161     FOR I = 0 TO 6 DO BEGIN
000011 162       K := 0,
000013 163       FOR J = 1 TO MAX DO BEGIN
000017 164         IF AVEFFECT(J, I) > SICEFFECT THEN BEGIN (* SORT ONLY SIGNIFICANT IMPACTS *)
000030 165           K := K + 1,

```

PASCAL COMPILER - E. T. M. ZURICH / UNIVERSITY OF MINNESOTA  
\*\*\* MAP SYSTEMS \*\*\*

```

000032 166      VIK(J) = AVEFFECT(J,I);
000033 167      VIK(J) = VIK(J) (* KEEP TRACK OF THE ORIGINAL ORDER *);
000034 168      VYIK(J) = LOCATION(J,2) (* KEEP TRACK OF NAME TOO *);
000035 169      END (* IF *);
000036 170      END (* FOR J *);
000037 171      SORT(V, K);
000038 172      KMAX(I) = K;
000039 173      IF K > BIGGEST THEN BIGGEST = K;
000040 174      (* NOW THAT V HAS BEEN SORTED, FIND THE ASSOCIATED NAMES *)
000041 175      FOR J := 1 TO K DO BEGIN
000042 176          L = 0; MATCH = FALSE;
000043 177          REPEAT
000044 178              L = L + 1;
000045 179              IF X(I,L) = VIK-J+1 THEN BEGIN
000046 180                  SORTEDX(J,I) = VIK-J+1; (* TO INSERT THE ORDER OF V *)
000047 181                  SORTEDY(J,I) = Y(I,L);
000048 182                  MATCH = TRUE;
000049 183                  END (* IF *);
000050 184                  UNTIL MATCH = TRUE;
000051 185                  END (* FOR J *);
000052 186                  END (* FOR I *);
000053 187      (* NOW OUTPUT THE SORTED MATRIX *)
000054 188      TAPEEND(F);
000055 189      FOR I := 1 TO BIGGEST DO BEGIN (* OUTPUT THE MATRIX *)
000056 190          FOR J := 0 TO 6 DO BEGIN
000057 191              IF I <= KMAX(J) THEN
000058 192                  WRITE(F, SORTEDY(I,J), SORTEDX(I,J) & 1)
000059 193              ELSE
000060 194                  TAB(F,18);
000061 195              IF J < 6 THEN WRITE(F, ' ');
000062 196              END (* FOR J *);
000063 197              WRITELN(F);
000064 198              LINECNT := LINECNT + 1;
000065 199              IF LINECNT = 42 THEN BEGIN
000066 200                  FOR J := 1 TO 4 DO WRITELN(F);
000067 201                  LINECNT := 0;
000068 202                  END (* IF *);
000069 203              END (* FOR I -- OUTPUT THE MATRIX *);
000070 204              LINE(F,126);
000071 205              END (* SORTPRINT *);
000072 206      BEGIN (* MAIN *)
000073 207          RESET(ORPOP); RESET(ORDIST); REWRITE(TAPE1); REWRITE(TAPE1);
000074 208          BUG = FALSE;
000075 209          WRITELN('HOW MANY LINES OF MILES?'); READLN; READ(LINEMILES);
000076 210          WRITELN('ENTER TITLE -- 1 TO 40 CHARS');
000077 211          TITLELEN = 0; READLN;
000078 212          WHILE NOT EOLN(INPUT) DO BEGIN
000079 213              TITLELEN = TITLELEN + 1;
000080 214              READX(TITLE, TITLELEN);
000081 215              END (* WHILE *);
000082 216          (* NOW READ IN POPULATION LEVELS FOR EACH ALTERNATIVE *)
000083 217          FOR I := 0 TO 6 DO BEGIN
000084 218              FSKIP(ORPOP, 9);
000085 219          END

```

PASCAL COMPILER - E. T. ZURICH / UNIVERSITY OF MINNESOTA  
\*\*\* MDR SYSTEMS \*\*\*

```

000137 224      FOR J = 0 TO 1 DO BEGIN
000142 225          FOR K = 1 TO 7 DO READ( OBPOP, ALTBASE(I,J,K)),
000171 226              FREAMEAL( OBPOP, POP(I,J), B, O),
000200 227              IF J = 0 THEN SKIP( OBPOP, 5 )
000203 228      END ( * FOR J * ),
000210 229      READLN( OBPOP ) ( * READY TO READ NEXT LINE * ),
000211 230      END ( * FOR I -- READIN POP AND BASE NAMES * ),
000214 231
000214 232      ( * NOW READ IN LOCATION NUMBERS AND NAMES * )
000214 233      ( * AND THEIR DISTANCES FROM DB SITES * )
000214 234
000216 235      WHILE NOT EOF(GBDIST) DO BEGIN
000216 236          I = 1 + 1,
000220 237          FOR J = 1 TO 2 DO
000222 238              FOR K = 1 TO 10 DO READ( GBDIST, LOCATION(I,J,K) ),
000223 239              READ( GBDIST, APPEAL(I) ),
000224 240              FOR J = 0 TO 9 DO READ( GBDIST, DISTANCE(I,J) ),
000226 241              READLN( GBDIST ) ( * READY TO READ NEXT LINE * ),
000230 242      END ( * GBDIST READIN * ),
000230 243      MAX = 1,
000230 244      FOR I = LINEFILES+1 TO MAX DO
000231 245          FOR J = 0 TO 9 DO DISTANCE(I,J) = DISTANCE(I,J) * B ( * B MI/IN * ),
000231 246
000231 247      IF BUG = TRUE THEN BEGIN
000247 248          FOR I = 0 TO 6 DO BEGIN
000247 249              FOR J = 0 TO 1 DO BEGIN
000251 250                  WRITE( ALTBASE(I,J) ),
000251 251                  WRITE( POP(I,J), 10 0 ),
000257 252                  END ( * FOR J * ),
000257 253                  WRITELN
000257 254                  END ( * FOR I * ),
000257 255                  END ( * BUG IF * ),
000257 256
000257 257      ( * NOW OUTPUT THE DATA FILE FOR A CHECK ON THE READIN * )
000257 258
000257 259      FOR I = 1 TO MAX DO BEGIN
000257 260          FOR J = 1 TO 2 DO WRITE( LOCATION(I,J) ),
000257 261          WRITE( APPEAL(I), 4 1 ),
000257 262          FOR J = 0 TO 9 DO WRITE( DISTANCE(I,J) & 0 ), WRITELN,
000257 263          END ( * FOR I * ),
000257 264
000257 265      ( * NOW LOOP THROUGH ALTERNATIVES AND COMPUTE EFFECT INDEX FOR ALL SITES * )
000257 266
000257 267      ALT = 0
000257 268      WHILE ALT < 7 DO BEGIN
000257 269          BASEA = ALTBASE(ALT, 0),
000257 270          BASEB = ALTBASE(ALT, 1),
000257 271          INDEXA = 2 * ORD(BASEA),
000257 272          INDEXB = 2 * ORD(BASEB),
000257 273
000257 274          IF BUG = TRUE THEN WRITELN( ALT, ALT 2, INDEXES, INDEXA 4, INDEXB 4 ),
000257 275
000257 276          FOR I = 1 TO MAX DO BEGIN ( * EFFECT COMPUTATION LOOP * )
000257 277              DIST(I, 0) = DISTANCE(I, INDEXA),
000257 278              DIST(I, 0) = DISTANCE(I, INDEXA+1),
000257 279              DIST(I, 0) = ( DIST(I, 0) + DIST(I, 0) ) / 2,
000257 280              FOR J = 1 TO 3 DO
000257 281                  FOR EFFINDEX(J) = NORM( DIST(I, 0), SIGMA * APPEAL(I) ) * POP(ALT, 0),
000257 282                  DIST(I, 1) = DISTANCE(I, INDEXB),
000257 283
000257 284
000257 285
000257 286
000257 287
000257 288
000257 289
000257 290
000257 291
000257 292
000257 293
000257 294
000257 295
000257 296
000257 297
000257 298
000257 299
000257 300
000257 301
000257 302
000257 303
000257 304
000257 305
000257 306
000257 307
000257 308
000257 309
000257 310
000257 311
000257 312
000257 313
000257 314
000257 315
000257 316
000257 317
000257 318
000257 319
000257 320
000257 321
000257 322
000257 323
000257 324
000257 325
000257 326
000257 327
000257 328
000257 329
000257 330
000257 331
000257 332
000257 333
000257 334
000257 335
000257 336
000257 337
000257 338
000257 339
000257 340
000257 341
000257 342
000257 343
000257 344
000257 345
000257 346
000257 347
000257 348
000257 349
000257 350
000257 351
000257 352
000257 353
000257 354
000257 355
000257 356
000257 357
000257 358
000257 359
000257 360
000257 361
000257 362
000257 363
000257 364
000257 365
000257 366
000257 367
000257 368
000257 369
000257 370
000257 371
000257 372
000257 373
000257 374
000257 375
000257 376
000257 377
000257 378
000257 379
000257 380
000257 381
000257 382
000257 383
000257 384
000257 385
000257 386
000257 387
000257 388
000257 389
000257 390
000257 391
000257 392
000257 393
000257 394
000257 395
000257 396
000257 397
000257 398
000257 399
000257 400
000257 401
000257 402
000257 403
000257 404
000257 405
000257 406
000257 407
000257 408
000257 409
000257 410
000257 411
000257 412
000257 413
000257 414
000257 415
000257 416
000257 417
000257 418
000257 419
000257 420
000257 421
000257 422
000257 423
000257 424
000257 425
000257 426
000257 427
000257 428
000257 429
000257 430
000257 431
000257 432
000257 433
000257 434
000257 435
000257 436
000257 437
000257 438
000257 439
000257 440
000257 441
000257 442
000257 443
000257 444
000257 445
000257 446
000257 447
000257 448
000257 449
000257 450
000257 451
000257 452
000257 453
000257 454
000257 455
000257 456
000257 457
000257 458
000257 459
000257 460
000257 461
000257 462
000257 463
000257 464
000257 465
000257 466
000257 467
000257 468
000257 469
000257 470
000257 471
000257 472
000257 473
000257 474
000257 475
000257 476
000257 477
000257 478
000257 479
000257 480
000257 481
000257 482
000257 483
000257 484
000257 485
000257 486
000257 487
000257 488
000257 489
000257 490
000257 491
000257 492
000257 493
000257 494
000257 495
000257 496
000257 497
000257 498
000257 499
000257 500
000257 501
000257 502
000257 503
000257 504
000257 505
000257 506
000257 507
000257 508
000257 509
000257 510
000257 511
000257 512
000257 513
000257 514
000257 515
000257 516
000257 517
000257 518
000257 519
000257 520
000257 521
000257 522
000257 523
000257 524
000257 525
000257 526
000257 527
000257 528
000257 529
000257 530
000257 531
000257 532
000257 533
000257 534
000257 535
000257 536
000257 537
000257 538
000257 539
000257 540
000257 541
000257 542
000257 543
000257 544
000257 545
000257 546
000257 547
000257 548
000257 549
000257 550
000257 551
000257 552
000257 553
000257 554
000257 555
000257 556
000257 557
000257 558
000257 559
000257 560
000257 561
000257 562
000257 563
000257 564
000257 565
000257 566
000257 567
000257 568
000257 569
000257 570
000257 571
000257 572
000257 573
000257 574
000257 575
000257 576
000257 577
000257 578
000257 579
000257 580
000257 581
000257 582
000257 583
000257 584
000257 585
000257 586
000257 587
000257 588
000257 589
000257 590
000257 591
000257 592
000257 593
000257 594
000257 595
000257 596
000257 597
000257 598
000257 599
000257 600
000257 601
000257 602
000257 603
000257 604
000257 605
000257 606
000257 607
000257 608
000257 609
000257 610
000257 611
000257 612
000257 613
000257 614
000257 615
000257 616
000257 617
000257 618
000257 619
000257 620
000257 621
000257 622
000257 623
000257 624
000257 625
000257 626
000257 627
000257 628
000257 629
000257 630
000257 631
000257 632
000257 633
000257 634
000257 635
000257 636
000257 637
000257 638
000257 639
000257 640
000257 641
000257 642
000257 643
000257 644
000257 645
000257 646
000257 647
000257 648
000257 649
000257 650
000257 651
000257 652
000257 653
000257 654
000257 655
000257 656
000257 657
000257 658
000257 659
000257 660
000257 661
000257 662
000257 663
000257 664
000257 665
000257 666
000257 667
000257 668
000257 669
000257 670
000257 671
000257 672
000257 673
000257 674
000257 675
000257 676
000257 677
000257 678
000257 679
000257 680
000257 681
000257 682
000257 683
000257 684
000257 685
000257 686
000257 687
000257 688
000257 689
000257 690
000257 691
000257 692
000257 693
000257 694
000257 695
000257 696
000257 697
000257 698
000257 699
000257 700
000257 701
000257 702
000257 703
000257 704
000257 705
000257 706
000257 707
000257 708
000257 709
000257 710
000257 711
000257 712
000257 713
000257 714
000257 715
000257 716
000257 717
000257 718
000257 719
000257 720
000257 721
000257 722
000257 723
000257 724
000257 725
000257 726
000257 727
000257 728
000257 729
000257 730
000257 731
000257 732
000257 733
000257 734
000257 735
000257 736
000257 737
000257 738
000257 739
000257 740
000257 741
000257 742
000257 743
000257 744
000257 745
000257 746
000257 747
000257 748
000257 749
000257 750
000257 751
000257 752
000257 753
000257 754
000257 755
000257 756
000257 757
000257 758
000257 759
000257 760
000257 761
000257 762
000257 763
000257 764
000257 765
000257 766
000257 767
000257 768
000257 769
000257 770
000257 771
000257 772
000257 773
000257 774
000257 775
000257 776
000257 777
000257 778
000257 779
000257 780
000257 781
000257 782
000257 783
000257 784
000257 785
000257 786
000257 787
000257 788
000257 789
000257 790
000257 791
000257 792
000257 793
000257 794
000257 795
000257 796
000257 797
000257 798
000257 799
000257 800
000257 801
000257 802
000257 803
000257 804
000257 805
000257 806
000257 807
000257 808
000257 809
000257 810
000257 811
000257 812
000257 813
000257 814
000257 815
000257 816
000257 817
000257 818
000257 819
000257 820
000257 821
000257 822
000257 823
000257 824
000257 825
000257 826
000257 827
000257 828
000257 829
000257 830
000257 831
000257 832
000257 833
000257 834
000257 835
000257 836
000257 837
000257 838
000257 839
000257 840
000257 841
000257 842
000257 843
000257 844
000257 845
000257 846
000257 847
000257 848
000257 849
000257 850
000257 851
000257 852
000257 853
000257 854
000257 855
000257 856
000257 857
000257 858
000257 859
000257 860
000257 861
000257 862
000257 863
000257 864
000257 865
000257 866
000257 867
000257 868
000257 869
000257 870
000257 871
000257 872
000257 873
000257 874
000257 875
000257 876
000257 877
000257 878
000257 879
000257 880
000257 881
000257 882
000257 883
000257 884
000257 885
000257 886
000257 887
000257 888
000257 889
000257 890
000257 891
000257 892
000257 893
000257 894
000257 895
000257 896
000257 897
000257 898
000257 899
000257 900
000257 901
000257 902
000257 903
000257 904
000257 905
000257 906
000257 907
000257 908
000257 909
000257 910
000257 911
000257 912
000257 913
000257 914
000257 915
000257 916
000257 917
000257 918
000257 919
000257 920
000257 921
000257 922
000257 923
000257 924
000257 925
000257 926
000257 927
000257 928
000257 929
000257 930
000257 931
000257 932
000257 933
000257 934
000257 935
000257 936
000257 937
000257 938
000257 939
000257 940
000257 941
000257 942
000257 943
000257 944
000257 945
000257 946
000257 947
000257 948
000257 949
000257 950
000257 951
000257 952
000257 953
000257 954
000257 955
000257 956
000257 957
000257 958
000257 959
000257 960
000257 961
000257 962
000257 963
000257 964
000257 965
000257 966
000257 967
000257 968
000257 969
000257 970
000257 971
000257 972
000257 973
000257 974
000257 975
000257 976
000257 977
000257 978
000257 979
000257 980
000257 981
000257 982
000257 983
000257 984
000257 985
000257 986
000257 987
000257 988
000257 989
000257 990
000257 991
000257 992
000257 993
000257 994
000257 995
000257 996
000257 997
000257 998
000257 999
000257 1000

```

PASCAL COMPILER - E T M ZURICH / UNIVERSITY OF MINNESOTA  
\*\*\* FOR SYSTEMS \*\*\*

```

000452      DIST(2,1) := DISTANCE(I, INDEX(8+1),
000453      DIST(2,1) := ( DIST(1,1) + DIST(2,1) ) / 2.
000454      FOR J := 1 TO 3 DO
000455      EFFINDEX(J+3) := NORM( DIST(J,1), SIGMA * APPEAL(1) ) * POP(ALT,1),
000456      (* NOW COMBINE THE EFFECT INDEXES *)
000457      FOR J := 1 TO 3 DO
000458      EFFINDEX(J+3) := EFFINDEX(J) + EFFINDEX(J+3),
000459      IF BUG = TRUE THEN BEGIN
000460      FOR J := 1 TO 3 DO BEGIN
000461      FOR K := 0 TO 1 DO WRITE('DIST ARRAY( J,1, ', K,1, ') = ', DIST(J,K), 6,1, ' '),
000462      Writeln
000463      END (* FOR J *)
000464      FOR J := 1 TO 9 DO Writeln('EFFINDEX( J,1, ') = ', EFFINDEX(J), 10,1),
000465      END (* IF BUG *)
000466      TAPE1BODY( TAPE1, 1 ),
000467      AVEFFECT(I,ALT) := EFFINDEX(9)
000468      END (* FOR I *)
000469      LINE( TAPE1, 132 ),
000470      ALT := ALT + 1,
000471      I := (MAX DIV 66) + 1,
000472      PAGE := (66 * I) - MAX - 1,
000473      IF PAGES > 1 THEN PAGE := 66 - LINECNT - 1,
000474      FOR I := 1 TO PAGE DO Writeln( TAPE1 ) (* ADVANCE TO TOP OF FORM *),
000475      END (* WHILE *)
000476      (* WRITE TAPE2 *)
000477      TAPE2HD( TAPE2 ),
000478      FOR I := 1 TO MAX DO BEGIN
000479      FOR J := 1 TO 2 DO WRITE( TAPE2, LOCATION(I,J) ),
000480      WRITE(TAPE2, APPEAL(I), 10,1),
000481      FOR J := 0 TO 6 DO WRITE( TAPE2, AVEFFECT(I,J), 10,1),
000482      Writeln( TAPE2 )
000483      END (* FOR I *)
000484      LINE( TAPE2, 100 ),
000485      (* NOW SORT AVEFFECT BY EFFECT LEVEL > SIGEFFECT AND PRINT TAPE3 *)
000486      SORTPRINT(TAPE3),
000487      END (* MAIN *)
000488
000489      COMPILER ESTIMATED 'W' OPTION = 0173028

```

## EFFECT INDEX OF BASING ALTERNATIVES ON WILDERNESS AREAS

ALTERNATIVE NO. 0  
 BASE A: COYOTE LONG TERM POP 15967.0  
 BASE B: MILFORD LONG TERM POP 13071.0

| NO. | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 1.0  | FISH SPR      | 208.0      | 224.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 80.0       | 104.0 | 96.0  | 394.1                  | 198.1   | 303.8   | 554.1            | 198.1   | 303.8   |
| 2   | 2.0  | CONGER MT     | 176.0      | 188.0 | 182.0 | 476.9                  | 423.4   | 343.6   | 66.0       | 74.0  | 70.0  | 8280.3                 | 7473.4  | 7928.0  | 9057.3           | 7908.9  | 8471.6  |
| 3   | 2.0  | DEEP CREEK    | 208.0      | 234.0 | 221.0 | 193.2                  | 59.8    | 109.3   | 104.0      | 128.0 | 116.0 | 4239.0                 | 2494.1  | 3211.3  | 4328.2           | 2915.9  | 3420.6  |
| 4   | 1.0  | KING TOP      | 160.0      | 176.0 | 168.0 | 0.3                    | 0.1     | 0.2     | 38.0       | 98.0  | 48.0  | 7250.0                 | 3211.3  | 5103.8  | 7250.3           | 3211.3  | 5104.0  |
| 5   | 1.0  | MAN WASH MT   | 140.0      | 156.0 | 148.0 | 3.4                    | 0.8     | 2.1     | 28.0       | 44.0  | 36.0  | 9491.3                 | 5921.0  | 7701.5  | 9496.9           | 5921.8  | 7703.6  |
| 6   | 1.0  | NOTCH PK      | 176.0      | 192.0 | 184.0 | 0.1                    | 0.0     | 0.0     | 48.0       | 62.0  | 55.0  | 5123.8                 | 2722.1  | 3808.7  | 5103.9           | 2722.1  | 3808.7  |
| 7   | 1.0  | HOWELL PK     | 184.0      | 194.0 | 190.0 | 0.0                    | 0.0     | 0.0     | 62.0       | 70.0  | 66.0  | 3722.1                 | 1769.0  | 2208.8  | 3722.1           | 1769.0  | 2208.8  |
| 8   | 1.0  | SHAWEE MT     | 194.0      | 208.0 | 201.0 | 0.0                    | 0.0     | 0.0     | 64.0       | 82.0  | 73.0  | 2494.1                 | 840.2   | 1484.8  | 2494.1           | 840.2   | 1484.8  |
| 9   | 1.0  | LTL SAHARA    | 238.0      | 248.0 | 243.0 | 0.0                    | 0.0     | 0.0     | 94.0       | 102.0 | 98.0  | 354.8                  | 187.1   | 259.3   | 354.8            | 187.1   | 259.3   |
| 10  | 3.0  | PINE VALLE    | 88.0       | 100.0 | 94.0  | 11238.2                | 10143.3 | 10493.2 | 44.0       | 80.0  | 72.0  | 10893.1                | 9778.1  | 10332.3 | 22093.4          | 19923.4 | 21027.7 |
| 11  | 2.0  | ARC DOVE      | 182.0      | 200.0 | 191.0 | 343.6                  | 269.3   | 384.0   | 216.0      | 232.0 | 224.0 | 111.9                  | 53.8    | 78.1    | 455.3            | 323.4   | 464.1   |
| 12  | 1.0  | ROBERTS MT    | 220.0      | 228.0 | 224.0 | 0.0                    | 0.0     | 0.0     | 202.0      | 212.0 | 207.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 13  | 1.0  | RAMHIDE       | 124.0      | 136.0 | 131.0 | 30.0                   | 6.7     | 14.3    | 182.0      | 196.0 | 189.0 | 0.0                    | 0.0     | 0.0     | 30.1             | 6.7     | 14.5    |
| 14  | 2.0  | KAMICH        | 104.0      | 124.0 | 114.0 | 3293.3                 | 3323.2  | 4239.3  | 184.0      | 200.0 | 192.0 | 413.0                  | 226.6   | 303.8   | 3708.3           | 3545.9  | 4343.2  |
| 15  | 1.0  | ANTELOPE      | 150.0      | 176.0 | 163.0 | 1.6                    | 0.1     | 0.3     | 170.0      | 186.0 | 178.0 | 0.1                    | 0.0     | 0.0     | 1.7              | 0.1     | 0.3     |
| 16  | 1.0  | PALISADE M    | 112.0      | 132.0 | 122.0 | 93.4                   | 13.0    | 36.7    | 158.0      | 176.0 | 167.0 | 0.3                    | 0.0     | 0.1     | 93.9             | 13.1    | 36.9    |
| 17  | 1.0  | THE HALL      | 112.0      | 132.0 | 122.0 | 93.4                   | 13.0    | 36.7    | 158.0      | 176.0 | 167.0 | 0.3                    | 0.0     | 0.1     | 93.9             | 13.1    | 36.9    |
| 18  | 1.0  | PARK RANGE    | 132.0      | 160.0 | 156.0 | 1.3                    | 0.3     | 0.8     | 80.0       | 82.0  | 81.0  | 959.0                  | 840.2   | 899.0   | 960.3            | 840.7   | 898.8   |
| 19  | 2.0  | MOREY         | 140.0      | 148.0 | 144.0 | 2160.9                 | 1708.2  | 1924.4  | 182.0      | 176.0 | 179.0 | 443.0                  | 354.1   | 497.0   | 2603.9           | 2262.3  | 2421.4  |
| 20  | 1.0  | S REVELLE     | 94.0       | 94.0  | 94.0  | 433.4                  | 433.4   | 433.4   | 176.0      | 180.0 | 178.0 | 0.0                    | 0.0     | 0.0     | 433.3            | 433.3   | 433.3   |
| 21  | 2.0  | QUINN         | 88.0       | 104.0 | 96.0  | 7245.1                 | 3293.3  | 6234.6  | 144.0      | 160.0 | 152.0 | 1973.4                 | 999.0   | 1237.2  | 8820.4           | 6234.3  | 7471.8  |
| 22  | 1.0  | WEEPANSPRO    | 68.0       | 86.0  | 77.0  | 2418.6                 | 780.2   | 1419.8  | 110.0      | 124.0 | 117.0 | 93.6                   | 24.6    | 49.0    | 2512.2           | 804.8   | 1468.8  |
| 23  | 1.0  | GRANT RG      | 96.0       | 112.0 | 104.0 | 371.2                  | 93.4    | 193.2   | 128.0      | 142.0 | 135.0 | 16.3                   | 3.9     | 7.7     | 387.3            | 98.9    | 200.9   |
| 24  | 1.0  | BLUE EAGLE    | 110.0      | 132.0 | 121.0 | 114.4                  | 13.0    | 40.3    | 124.0      | 138.0 | 131.0 | 24.6                   | 3.3     | 11.9    | 139.0            | 18.3    | 32.4    |
| 25  | 1.0  | RIORDAN M     | 110.0      | 132.0 | 121.0 | 114.4                  | 13.0    | 40.3    | 124.0      | 138.0 | 131.0 | 24.6                   | 3.3     | 11.9    | 139.0            | 18.3    | 32.4    |
| 26  | 2.0  | RUBY RTNS     | 246.0      | 264.0 | 255.0 | 33.2                   | 11.7    | 19.9    | 190.0      | 204.0 | 197.0 | 328.3                  | 187.1   | 249.1   | 361.7            | 198.8   | 269.1   |
| 27  | 1.0  | GOSHUECYN     | 214.0      | 224.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 146.0      | 152.0 | 149.0 | 2.2                    | 1.0     | 1.5     | 2.2              | 1.0     | 1.5     |
| 28  | 2.0  | BO EGAN       | 118.0      | 142.0 | 130.0 | 3836.3                 | 2040.0  | 2846.3  | 102.0      | 112.0 | 107.0 | 4521.1                 | 3634.2  | 4063.8  | 8377.4           | 5674.3  | 6910.2  |
| 29  | 1.0  | DELANARHTS    | 12.0       | 34.0  | 23.0  | 15053.6                | 9961.1  | 12866.2 | 126.0      | 146.0 | 136.0 | 30.0                   | 2.2     | 6.9     | 15075.6          | 9963.3  | 12873.1 |
| 30  | 1.0  | FORTIRANGE    | 116.0      | 128.0 | 122.0 | 43.8                   | 19.9    | 36.7    | 76.0       | 84.0  | 80.0  | 1237.2                 | 733.7   | 959.0   | 1303.0           | 753.4   | 995.7   |
| 31  | 2.0  | WHITE ROCK    | 102.0      | 110.0 | 106.0 | 5922.8                 | 4645.2  | 5072.3  | 56.0       | 60.0  | 60.0  | 9491.3                 | 8603.8  | 9052.6  | 15014.3          | 12251.0 | 14123.9 |
| 32  | 2.0  | PARNIP PK     | 80.0       | 102.0 | 91.0  | 8310.0                 | 3522.8  | 6838.7  | 68.0       | 86.0  | 77.0  | 8134.4                 | 4149.4  | 7137.7  | 16444.4          | 11668.2 | 13996.3 |
| 33  | 1.0  | FAR S EGAN    | 108.0      | 120.0 | 114.0 | 136.7                  | 44.7    | 79.3    | 100.0      | 108.0 | 104.0 | 220.6                  | 111.9   | 158.1   | 357.3            | 156.6   | 227.3   |
| 34  | 1.0  | DNMR          | 2.0        | 4.0   | 3.0   | 13941.0                | 15863.1 | 15908.3 | 140.0      | 204.0 | 172.0 | 4.4                    | 0.0     | 0.1     | 15943.3          | 15863.1 | 15908.3 |
| 35  | 1.0  | ARROW CYN     | 2.0        | 8.0   | 5.0   | 13941.0                | 15353.3 | 15804.9 | 132.0      | 162.0 | 137.0 | 1.0                    | 0.3     | 0.6     | 15942.0          | 15353.3 | 15803.3 |
| 36  | 3.0  | ZION NP       | 102.0      | 128.0 | 119.0 | 9961.1                 | 7393.0  | 8764.9  | 62.0       | 98.0  | 80.0  | 10979.9                | 9433.7  | 9778.1  | 20941.0          | 16050.7 | 18343.0 |
| 37  | 3.0  | CEDAR BRKS    | 126.0      | 130.0 | 128.0 | 7772.0                 | 7419.3  | 7393.0  | 52.0       | 56.0  | 54.0  | 11562.3                | 11338.2 | 11431.8 | 19334.3          | 18757.3 | 19046.8 |
| 38  | 3.0  | ASHDOWN       | 124.0      | 130.0 | 127.0 | 7950.2                 | 7419.3  | 7483.3  | 50.0       | 56.0  | 52.0  | 11670.0                | 11338.2 | 11307.6 | 19620.2          | 18757.3 | 19190.9 |
| 39  | 2.0  | RED CYN NO    | 156.0      | 162.0 | 159.0 | 1332.8                 | 1097.0  | 1210.3  | 56.0       | 60.0  | 58.0  | 9491.3                 | 9032.6  | 9273.2  | 10824.3          | 10149.6 | 10483.3 |
| 40  | 3.0  | BRYCE CYN     | 134.0      | 168.0 | 161.0 | 3446.3                 | 4439.4  | 4928.2  | 70.0       | 78.0  | 74.0  | 10466.4                | 9919.3  | 10196.6 | 13912.9          | 14358.7 | 15124.7 |
| 41  | 1.0  | TABLE MTN     | 108.0      | 122.0 | 115.0 | 136.7                  | 36.7    | 72.3    | 72.0       | 80.0  | 76.0  | 1373.4                 | 939.0   | 1237.2  | 1712.0           | 993.7   | 1309.3  |
| 42  | 2.0  | JARBIDGE      | 340.0      | 358.0 | 349.0 | 0.1                    | 0.0     | 0.1     | 260.0      | 272.0 | 266.0 | 13.2                   | 6.9     | 9.6     | 13.3             | 6.9     | 9.6     |
| 43  | 2.0  | LOVE PK       | 306.0      | 306.0 | 306.0 | 1.1                    | 1.1     | 1.1     | 166.0      | 166.0 | 166.0 | 785.3                  | 785.3   | 785.3   | 785.3            | 785.3   | 785.3   |
| 44  | 2.0  | MT GRAFTON    | 116.0      | 132.0 | 124.0 | 4044.9                 | 2698.1  | 3232.5  | 90.0       | 96.0  | 93.0  | 3719.4                 | 3103.8  | 3407.8  | 9764.3           | 7802.0  | 8733.1  |
| 45  | 2.0  | FARDEGANS     | 112.0      | 120.0 | 116.0 | 4439.4                 | 3673.3  | 4044.9  | 104.0      | 112.0 | 108.0 | 4339.0                 | 3634.2  | 3973.7  | 8774.4           | 7307.7  | 8020.4  |
| 46  | 1.0  | SOPANROCS     | 44.0       | 56.0  | 50.0  | 7245.1                 | 4439.4  | 5793.3  | 130.0      | 134.0 | 132.0 | 13.2                   | 6.6     | 10.7    | 7258.3           | 4448.0  | 5765.9  |
| 47  | 1.0  | EASTPANRAN    | 36.0       | 42.0  | 39.0  | 9407.9                 | 7772.0  | 8582.3  | 148.0      | 154.0 | 151.0 | 1.7                    | 0.8     | 1.2     | 9409.6           | 7772.8  | 8583.3  |
| 48  | 1.0  | MADESCARPS    | 32.0       | 34.0  | 33.0  | 10912.3                | 9961.1  | 10237.3 | 142.0      | 148.0 | 145.0 | 3.3                    | 1.7     | 2.3     | 10516.0          | 9962.8  | 10239.7 |
| 49  | 1.0  | LOPANRANLK    | 32.0       | 34.0  | 33.0  | 10912.3                | 9961.1  | 10237.3 | 142.0      | 148.0 | 145.0 | 3.3                    | 1.7     | 2.3     | 10516.0          | 9962.8  | 10239.7 |
| 50  | 1.0  | FM123         | 0.0        | 2.0   | 1.0   | 13967.0                | 13941.0 | 13960.3 | 146.0      | 180.0 | 163.0 | 2.2                    | 0.0     | 0.3     | 13969.2          | 13941.0 | 13960.3 |
| 51  | 1.0  | GRPVINESPR    | 44.0       | 56.0  | 50.0  | 7245.1                 | 4439.4  | 5793.3  | 100.0      | 114.0 | 107.0 | 220.4                  | 63.0    | 122.1   | 7463.7           | 4504.4  | 5877.4  |
| 52  | 2.0  | MEADOW HTS    | 8.0        | 40.0  | 24.0  | 15863.1                | 13361.8 | 15033.6 | 120.0      | 150.0 | 135.0 | 3007.2                 | 1213.8  | 2033.4  | 18870.3          | 14877.7 | 17091.0 |
| 53  | 2.0  | NORMON VLS    | 20.0       | 40.0  | 30.0  | 15328.4                | 13561.8 | 14566.0 | 120.0      | 140.0 | 130.0 | 3007.2                 | 1769.0  | 2330.1  | 18333.6          | 15330.8 | 16896.0 |
| 54  | 1.0  | PENN CYN      | 20.0       | 20.0  | 20.0  | 13561.8                | 13561.8 | 13561.8 | 144.0      | 144.0 | 144.0 | 2.8                    | 2.8     | 2.8     | 13564.6          | 13564.6 | 13564.6 |
| 55  | 2.0  | GRAN SPR      | 188.0      | 192.0 | 190.0 | 423.4                  | 371.2   | 401.3   | 88.0       | 96.0  | 92.0  | 5931.0                 | 5103.8  | 5510.9  | 6264.4           | 5473.0  | 5912.1  |

## EFFECT INDEX OF BASING ALTERNATIVES ON WILDERNESS AREAS

ALTERNATIVE NO. 1  
 BASE A: CONVOY LONG TERM POP. 1967.0  
 BASE B: SERV. LONG TERM POP. 1967.0

| NO. | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |       |               | N          | F     | Ave   | MAX                    | MIN     | Ave     | N          | F     | Ave   | MAX                    | MIN     | Ave     | MAX              | MIN     | Ave     |
| 1   | 1.0   | FISH SPR      | 208.0      | 224.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 132.0      | 150.0 | 141.0 | 10.8                   | 1.3     | 2.8     | 10.8             | 1.3     | 2.8     |
| 2   | 2.0   | CONGER HT     | 174.0      | 188.0 | 181.0 | 476.9                  | 433.4   | 445.2   | 88.0       | 114.0 | 101.0 | 3823.8                 | 3487.8  | 4532.1  | 4800.3           | 3840.9  | 3878.7  |
| 3   | 2.0   | DEEP CREEK    | 208.0      | 234.0 | 221.0 | 193.8                  | 99.8    | 109.3   | 140.0      | 160.0 | 154.0 | 1726.7                 | 786.4   | 1141.8  | 1920.1           | 780.8   | 1280.4  |
| 4   | 1.0   | KIND TOP      | 140.0      | 174.0 | 148.0 | 0.8                    | 0.1     | 0.3     | 78.0       | 94.0  | 87.0  | 1671.3                 | 298.3   | 504.3   | 1071.7           | 298.4   | 384.8   |
| 5   | 1.0   | WAM WAM HT    | 140.0      | 154.0 | 148.0 | 5.4                    | 0.8     | 2.1     | 84.0       | 74.0  | 64.0  | 3848.3                 | 1814.8  | 2168.7  | 2873.7           | 1213.8  | 2170.8  |
| 6   | 1.0   | NOTCH PK      | 174.0      | 192.0 | 184.0 | 0.1                    | 0.0     | 0.0     | 94.0       | 110.0 | 102.0 | 348.4                  | 91.9    | 183.7   | 348.4            | 91.9    | 183.7   |
| 7   | 1.0   | HOMELL PK     | 184.0      | 194.0 | 190.0 | 0.0                    | 0.0     | 0.0     | 108.0      | 116.0 | 112.0 | 109.8                  | 32.9    | 74.7    | 109.9            | 32.9    | 74.7    |
| 8   | 1.0   | SHASEY HT     | 194.0      | 208.0 | 201.0 | 0.0                    | 0.0     | 0.0     | 114.0      | 120.0 | 122.0 | 43.8                   | 13.0    | 29.3    | 43.8             | 13.0    | 29.3    |
| 9   | 1.0   | LTL SAMARA    | 228.0      | 248.0 | 243.0 | 0.0                    | 0.0     | 0.0     | 130.0      | 138.0 | 134.0 | 1.3                    | 0.8     | 0.8     | 1.3              | 0.8     | 0.8     |
| 10  | 3.0   | PINE VALLE    | 88.0       | 100.0 | 94.0  | 11238.2                | 10145.3 | 10493.2 | 16.0       | 22.0  | 24.0  | 18489.9                | 12291.6 | 12903.1 | 23724.1          | 22394.9 | 23198.3 |
| 11  | 2.0   | ARC DONE      | 182.0      | 200.0 | 191.0 | 843.4                  | 249.3   | 386.0   | 204.0      | 222.0 | 214.0 | 149.0                  | 84.0    | 119.9   | 712.4            | 233.8   | 303.9   |
| 12  | 1.0   | ROBERTS HT    | 220.0      | 228.0 | 224.0 | 0.0                    | 0.0     | 0.0     | 204.0      | 212.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 13  | 1.0   | RAMMIDE       | 124.0      | 138.0 | 131.0 | 20.0                   | 6.7     | 14.3    | 150.0      | 164.0 | 157.0 | 1.3                    | 0.2     | 0.3     | 21.4             | 6.9     | 18.0    |
| 14  | 2.0   | RAMICH        | 104.0      | 124.0 | 114.0 | 3298.3                 | 3323.3  | 4229.3  | 144.0      | 160.0 | 152.0 | 1497.9                 | 941.6   | 1177.9  | 6733.4           | 4846.9  | 9416.9  |
| 15  | 1.0   | ANTELOPE      | 130.0      | 174.0 | 143.0 | 1.4                    | 0.1     | 0.3     | 134.0      | 174.0 | 164.0 | 0.8                    | 0.1     | 0.2     | 2.4              | 0.1     | 0.3     |
| 16  | 1.0   | PALISADE M    | 112.0      | 132.0 | 122.0 | 95.4                   | 13.0    | 34.7    | 128.0      | 144.0 | 137.0 | 14.0                   | 2.1     | 4.0     | 111.4            | 19.2    | 42.8    |
| 17  | 1.0   | THE HALL      | 112.0      | 132.0 | 122.0 | 95.4                   | 13.0    | 34.7    | 128.0      | 144.0 | 137.0 | 14.0                   | 2.1     | 4.0     | 111.4            | 19.2    | 42.8    |
| 18  | 1.0   | PARK RANGE    | 132.0      | 160.0 | 156.0 | 1.3                    | 0.9     | 0.8     | 134.0      | 164.0 | 160.0 | 0.6                    | 0.2     | 0.4     | 1.9              | 0.7     | 1.1     |
| 19  | 2.0   | MOREY         | 140.0      | 148.0 | 144.0 | 2140.9                 | 1708.2  | 1924.4  | 134.0      | 160.0 | 157.0 | 1141.2                 | 941.4   | 1037.4  | 3302.1           | 2649.8  | 2942.0  |
| 20  | 1.0   | S REVEILLE    | 94.0       | 94.0  | 94.0  | 433.4                  | 433.4   | 433.4   | 134.0      | 138.0 | 137.0 | 4.8                    | 3.4     | 4.8     | 440.2            | 428.8   | 439.8   |
| 21  | 2.0   | GUINN         | 88.0       | 104.0 | 96.0  | 7845.1                 | 5275.3  | 6234.4  | 110.0      | 116.0 | 113.0 | 3723.7                 | 2891.2  | 3487.3  | 10978.8          | 8946.7  | 9721.9  |
| 22  | 1.0   | MEEPANSPRO    | 68.0       | 86.0  | 77.0  | 2418.6                 | 780.2   | 1419.8  | 68.0       | 84.0  | 77.0  | 1944.0                 | 627.1   | 1141.2  | 4365.6           | 1407.2  | 2361.0  |
| 23  | 1.0   | GRANT RS      | 94.0       | 112.0 | 104.0 | 371.2                  | 95.4    | 193.2   | 100.0      | 116.0 | 108.0 | 214.6                  | 32.9    | 109.8   | 307.8            | 148.3   | 303.0   |
| 24  | 1.0   | BLUE EAGLE    | 110.0      | 132.0 | 121.0 | 114.4                  | 13.0    | 46.9    | 102.0      | 120.0 | 111.0 | 183.7                  | 34.0    | 84.0    | 298.1            | 49.0    | 124.8   |
| 25  | 1.0   | RIDGEMAN M    | 110.0      | 132.0 | 121.0 | 114.4                  | 13.0    | 46.9    | 102.0      | 120.0 | 111.0 | 183.7                  | 34.0    | 84.0    | 298.1            | 49.0    | 124.8   |
| 26  | 2.0   | RUBY HTS      | 244.0      | 264.0 | 254.0 | 30.2                   | 11.7    | 19.9    | 210.0      | 238.0 | 219.0 | 148.4                  | 43.8    | 94.1    | 175.8            | 79.8    | 114.1   |
| 27  | 1.0   | GOSHUECYN     | 214.0      | 224.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 148.0      | 178.0 | 173.0 | 0.1                    | 0.0     | 0.1     | 0.1              | 0.0     | 0.1     |
| 28  | 2.0   | SO EGAN       | 118.0      | 142.0 | 130.0 | 3884.3                 | 3040.0  | 3844.3  | 90.0       | 108.0 | 99.0  | 3419.7                 | 3903.4  | 4780.9  | 9472.0           | 9443.6  | 7947.2  |
| 29  | 1.0   | DELAHARHTS    | 12.0       | 34.0  | 23.0  | 15035.6                | 9941.1  | 12844.2 | 70.0       | 84.0  | 78.0  | 1734.9                 | 427.1   | 1071.3  | 16792.8          | 10888.2 | 13937.8 |
| 30  | 1.0   | FORTIRANGE    | 114.0      | 128.0 | 122.0 | 48.8                   | 19.9    | 34.7    | 68.0       | 80.0  | 74.0  | 1944.0                 | 941.6   | 1373.0  | 3007.8           | 941.5   | 1407.7  |
| 31  | 2.0   | WHITE ROCK    | 102.0      | 110.0 | 104.0 | 5322.8                 | 4443.2  | 3073.3  | 38.0       | 44.0  | 41.0  | 11079.7                | 10332.4 | 10811.6 | 16398.8          | 18178.3 | 13884.3 |
| 32  | 2.0   | PARSHIP PK    | 80.0       | 102.0 | 91.0  | 8310.0                 | 5322.8  | 6858.7  | 38.0       | 38.0  | 43.0  | 11079.7                | 9739.4  | 10428.1 | 19388.7          | 18848.2 | 17394.9 |
| 33  | 1.0   | FAR S EGAN    | 108.0      | 120.0 | 114.0 | 134.7                  | 44.7    | 79.3    | 84.0       | 90.0  | 87.0  | 788.4                  | 476.8   | 984.3   | 887.1            | 515.2   | 643.7   |
| 34  | 1.0   | DNAR          | 2.0        | 4.0   | 3.0   | 15941.0                | 13863.1 | 15908.3 | 82.0       | 144.0 | 114.0 | 823.0                  | 2.1     | 43.8    | 16765.9          | 18848.2 | 18972.2 |
| 35  | 1.0   | ARRON CYN     | 2.0        | 8.0   | 3.0   | 15941.0                | 13863.1 | 15904.9 | 90.0       | 94.0  | 93.0  | 478.8                  | 298.3   | 376.0   | 16411.4          | 18823.6 | 16180.9 |
| 36  | 3.0   | ZION NP       | 102.0      | 128.0 | 115.0 | 9961.1                 | 7398.0  | 8744.9  | 30.0       | 48.0  | 49.0  | 12388.7                | 10406.1 | 11809.9 | 22281.8          | 18001.1 | 20074.8 |
| 37  | 3.0   | CEDAR BRKS    | 124.0      | 130.0 | 127.0 | 7772.0                 | 7419.3  | 7595.0  | 44.0       | 48.0  | 46.0  | 11753.8                | 11540.7 | 11699.7 | 19237.2          | 18960.0 | 19234.6 |
| 38  | 3.0   | ASHDOWN       | 124.0      | 130.0 | 127.0 | 7790.2                 | 7419.3  | 7483.3  | 40.0       | 44.0  | 43.0  | 11925.7                | 11630.7 | 11801.7 | 19285.9          | 19078.0 | 19485.0 |
| 39  | 2.0   | RED CYN NO    | 134.0      | 142.0 | 139.0 | 1332.8                 | 1097.0  | 1210.3  | 72.0       | 74.0  | 74.0  | 7341.9                 | 7118.4  | 7339.9  | 8894.4           | 8213.4  | 8330.1  |
| 40  | 3.0   | BRYCE CYN     | 134.0      | 148.0 | 141.0 | 9446.9                 | 4439.4  | 4928.2  | 7.8        | 84.0  | 44.9  | 12798.4                | 9176.8  | 11613.3 | 18245.1          | 13614.2 | 16342.7 |
| 41  | 1.0   | TABLE MTH     | 108.0      | 122.0 | 115.0 | 134.7                  | 24.7    | 72.3    | 84.0       | 64.0  | 60.0  | 3848.3                 | 2411.9  | 3953.7  | 3703.0           | 3448.2  | 3024.9  |
| 42  | 2.0   | JARSDICE      | 340.0      | 358.0 | 349.0 | 0.1                    | 0.0     | 0.1     | 382.0      | 398.0 | 390.0 | 3.8                    | 1.8     | 2.4     | 4.0              | 1.5     | 2.8     |
| 43  | 2.0   | LONE PK       | 304.0      | 306.0 | 304.0 | 1.1                    | 1.1     | 1.1     | 313.0      | 313.0 | 313.0 | 129.3                  | 129.3   | 129.3   | 134.4            | 134.4   | 134.4   |
| 44  | 2.0   | NY GRAFTON    | 114.0      | 132.0 | 124.0 | 4044.9                 | 2498.1  | 3225.2  | 88.0       | 88.0  | 84.0  | 4679.8                 | 2823.3  | 4847.0  | 10724.4          | 8321.4  | 9372.2  |
| 45  | 2.0   | FARSDOGANE    | 112.0      | 120.0 | 116.0 | 4439.4                 | 3473.3  | 4044.9  | 88.0       | 94.0  | 92.0  | 3823.8                 | 3011.3  | 3410.9  | 10348.9          | 8684.7  | 9435.9  |
| 46  | 1.0   | SOPAHROCS     | 44.0       | 56.0  | 50.0  | 7243.1                 | 4439.4  | 3735.3  | 80.0       | 84.0  | 82.0  | 941.4                  | 788.4   | 823.0   | 8184.7           | 3139.9  | 4380.3  |
| 47  | 1.0   | EASTPAWIAN    | 34.0       | 42.0  | 39.0  | 9407.9                 | 7772.0  | 8982.3  | 94.0       | 98.0  | 96.0  | 348.4                  | 284.4   | 298.3   | 7734.2           | 8026.4  | 8880.7  |
| 48  | 1.0   | HADSCARPE     | 32.0       | 34.0  | 33.0  | 10512.9                | 9941.1  | 10237.3 | 92.0       | 94.0  | 94.0  | 403.8                  | 298.3   | 348.4   | 10918.0          | 10237.4 | 10388.7 |
| 49  | 1.0   | LOPAHRAHLA    | 32.0       | 34.0  | 33.0  | 10512.9                | 9941.1  | 10237.3 | 92.0       | 94.0  | 94.0  | 403.8                  | 298.3   | 348.4   | 10918.0          | 10237.4 | 10388.7 |
| 50  | 1.0   | FUJIS         | 0.0        | 2.0   | 1.0   | 15947.0                | 15941.0 | 15945.0 | 88.0       | 120.0 | 104.0 | 944.0                  | 34.0    | 158.3   | 14311.0          | 13974.9 | 16115.8 |
| 51  | 1.0   | SERVINESPR    | 44.0       | 56.0  | 50.0  | 7243.1                 | 4439.4  | 3735.3  | 40.0       | 34.0  | 47.0  | 4679.8                 | 3903.4  | 4394.4  | 13924.3          | 8343.8  | 10944.7 |
| 52  | 2.0   | MEADOW VAL    | 8.0        | 40.0  | 24.0  | 13843.1                | 13841.0 | 15099.4 | 40.0       | 88.0  | 74.0  | 8888.4                 | 6474.3  | 7794.2  | 24214.8          | 20241.3 | 22330.3 |
| 53  | 2.0   | NGARDON HTS   | 20.0       | 40.0  | 30.0  | 15328.4                | 13341.8 | 14844.0 | 40.0       | 80.0  | 70.0  | 8888.4                 | 6474.3  | 7794.2  | 24214.8          | 20241.3 | 22330.3 |
| 54  | 1.0   | PENN CYN      | 20.0       | 20.0  | 20.0  | 13341.8                | 13341.8 | 13341.8 | 88.0       | 88.0  | 88.0  | 344.0                  | 344.0   | 344.0   | 14109.9          | 14109.9 | 14109.9 |
| 55  | 2.0   | GRAN SPR      | 188.0      | 192.0 | 190.0 | 423.4                  | 371.2   | 481.3   | 120.0      | 124.0 | 122.0 | 2723.7                 | 2672.8  | 2819.4  | 3384.1           | 2843.9  | 3211.4  |

## EFFECT INDEX OF BASING ALTERNATIVES ON WILDERNESS AREAS

ALTERNATIVE NO. 2  
 BASE A: COYOTE LONG TERM POP. 19967.0  
 BASE B: DELTA LONG TERM POP. 13679.0

| NO | APPL | NAME        | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |         | COMBINED EFFECTS |         |         |
|----|------|-------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|---------|------------------|---------|---------|
|    |      |             | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE     | MAX              | MIN     | AVE     |
| 1  | 1.0  | FISH SPR    | 208.0      | 224.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 48.0       | 58.0  | 53.0  | 3341.2                 | 3463.3 | 3246.3  | 3341.2           | 3463.3  | 3246.3  |
| 2  | 2.0  | CONGER MT   | 176.0      | 188.0 | 182.0 | 676.9                  | 433.4   | 543.6   | 58.0       | 66.0  | 62.0  | 9704.6                 | 8770.3 | 9240.7  | 10381.4          | 9203.7  | 9784.3  |
| 3  | 2.0  | DEEP CREEK  | 208.0      | 234.0 | 221.0 | 193.2                  | 59.8    | 109.3   | 76.0       | 90.0  | 83.0  | 7587.3                 | 5985.4 | 6772.7  | 7780.5           | 6045.2  | 6882.1  |
| 4  | 1.0  | KING TOP    | 160.0      | 176.0 | 168.0 | 0.3                    | 0.1     | 0.2     | 52.0       | 66.0  | 59.0  | 4536.6                 | 2311.3 | 3303.7  | 4537.1           | 2311.6  | 3303.9  |
| 5  | 1.0  | WAM WAM MT  | 140.0      | 156.0 | 148.0 | 5.4                    | 0.8     | 2.1     | 48.0       | 82.0  | 73.0  | 2072.0                 | 879.3  | 1377.0  | 2077.4           | 880.1   | 1379.1  |
| 6  | 1.0  | NOTCH PK    | 176.0      | 192.0 | 184.0 | 0.1                    | 0.0     | 0.0     | 40.0       | 52.0  | 46.0  | 7119.2                 | 4536.6 | 5767.2  | 7119.3           | 4536.7  | 5767.2  |
| 7  | 1.0  | HOWELL PK   | 184.0      | 194.0 | 190.0 | 0.0                    | 0.0     | 0.0     | 36.0       | 48.0  | 42.0  | 7587.3                 | 5341.2 | 6431.2  | 7587.3           | 5341.2  | 6431.2  |
| 8  | 1.0  | SHADEY MT   | 194.0      | 208.0 | 201.0 | 0.0                    | 0.0     | 0.0     | 32.0       | 44.0  | 38.0  | 9006.1                 | 6206.9 | 7587.3  | 9006.1           | 6206.9  | 7587.3  |
| 9  | 1.0  | LTL SAHARA  | 238.0      | 248.0 | 243.0 | 0.0                    | 0.0     | 0.0     | 20.0       | 28.0  | 24.0  | 11618.3                | 9933.0 | 10813.1 | 11618.3          | 9933.0  | 10813.1 |
| 10 | 3.0  | PINE VALLE  | 68.0       | 100.0 | 94.0  | 11238.2                | 10143.3 | 10495.2 | 136.0      | 152.0 | 144.0 | 5912.3                 | 4797.3 | 5341.2  | 17150.6          | 14942.6 | 16036.5 |
| 11 | 2.0  | ARC DONE    | 182.0      | 200.0 | 191.0 | 343.6                  | 269.3   | 386.0   | 234.0      | 270.0 | 262.0 | 18.9                   | 8.0    | 12.4    | 362.6            | 277.6   | 398.4   |
| 12 | 1.0  | ROBERTS MT  | 220.0      | 228.0 | 224.0 | 0.0                    | 0.0     | 0.0     | 202.0      | 216.0 | 209.0 | 0.0                    | 0.0    | 0.0     | 0.0              | 0.0     | 0.0     |
| 13 | 1.0  | RAMMIDE     | 124.0      | 138.0 | 131.0 | 30.0                   | 6.7     | 14.5    | 220.0      | 234.0 | 227.0 | 0.0                    | 0.0    | 0.0     | 30.0             | 6.7     | 14.5    |
| 14 | 2.0  | KANICH      | 104.0      | 124.0 | 114.0 | 3293.3                 | 3325.2  | 4229.3  | 228.0      | 244.0 | 236.0 | 68.0                   | 31.3   | 46.3    | 3363.4           | 3336.7  | 4285.9  |
| 15 | 1.0  | ANTELOPE    | 150.0      | 176.0 | 163.0 | 1.6                    | 0.1     | 0.3     | 194.0      | 214.0 | 204.0 | 0.0                    | 0.0    | 0.0     | 1.6              | 0.1     | 0.3     |
| 16 | 1.0  | PALESADE M  | 112.0      | 132.0 | 122.0 | 95.4                   | 13.0    | 36.7    | 194.0      | 210.0 | 202.0 | 0.0                    | 0.0    | 0.0     | 95.4             | 13.0    | 36.7    |
| 17 | 1.0  | THE HALL    | 112.0      | 132.0 | 122.0 | 95.4                   | 13.0    | 36.7    | 194.0      | 210.0 | 202.0 | 0.0                    | 0.0    | 0.0     | 95.4             | 13.0    | 36.7    |
| 18 | 1.0  | PARK RANGE  | 132.0      | 160.0 | 156.0 | 1.3                    | 0.5     | 0.8     | 202.0      | 204.0 | 203.0 | 0.0                    | 0.0    | 0.0     | 1.3              | 0.5     | 0.8     |
| 19 | 2.0  | MOREY       | 140.0      | 148.0 | 144.0 | 2160.9                 | 1708.2  | 1926.4  | 208.0      | 214.0 | 211.0 | 165.3                  | 127.8  | 145.4   | 2326.4           | 1836.0  | 2070.0  |
| 20 | 1.0  | S REVEILLE  | 94.0       | 94.0  | 94.0  | 433.4                  | 433.4   | 433.4   | 224.0      | 228.0 | 226.0 | 0.0                    | 0.0    | 0.0     | 433.4            | 433.4   | 433.4   |
| 21 | 2.0  | QUINN       | 88.0       | 104.0 | 96.0  | 7249.1                 | 3293.3  | 6324.6  | 184.0      | 204.0 | 194.0 | 432.2                  | 193.8  | 293.9   | 7677.3           | 5491.3  | 6328.3  |
| 22 | 1.0  | WEEPANSPRO  | 68.0       | 86.0  | 77.0  | 2418.6                 | 780.2   | 1419.8  | 160.0      | 178.0 | 169.0 | 0.4                    | 0.0    | 0.1     | 2419.0           | 780.2   | 1419.9  |
| 23 | 1.0  | GRANT RG    | 96.0       | 112.0 | 104.0 | 371.2                  | 95.4    | 193.2   | 74.0       | 90.0  | 82.0  | 1463.4                 | 501.4  | 879.3   | 1834.6           | 596.9   | 1072.5  |
| 24 | 1.0  | BLUE EAGLE  | 110.0      | 132.0 | 121.0 | 114.4                  | 13.0    | 40.3    | 160.0      | 176.0 | 168.0 | 0.4                    | 0.0    | 0.1     | 114.8            | 13.1    | 40.7    |
| 25 | 1.0  | RIDORDANS M | 110.0      | 132.0 | 121.0 | 114.4                  | 13.0    | 40.3    | 160.0      | 176.0 | 168.0 | 0.4                    | 0.0    | 0.1     | 114.8            | 13.1    | 40.7    |
| 26 | 2.0  | RUBY MTNS   | 246.0      | 266.0 | 256.0 | 33.2                   | 11.7    | 19.9    | 170.0      | 180.0 | 175.0 | 716.7                  | 501.4  | 601.0   | 749.9            | 513.1   | 620.9   |
| 27 | 1.0  | GOSHUECVN   | 214.0      | 226.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 126.0      | 132.0 | 129.0 | 21.0                   | 11.2   | 15.4    | 21.0             | 11.2    | 15.4    |
| 28 | 2.0  | SO EGAN     | 118.0      | 142.0 | 130.0 | 3856.3                 | 2040.0  | 2846.3  | 132.0      | 146.0 | 139.0 | 2311.3                 | 1533.9 | 1904.7  | 6167.8           | 3593.9  | 4751.1  |
| 29 | 1.0  | DELAHARITE  | 12.0       | 34.0  | 23.0  | 13055.6                | 9961.1  | 12866.2 | 192.0      | 208.0 | 200.0 | 0.0                    | 0.0    | 0.0     | 13055.6          | 9961.1  | 12866.2 |
| 30 | 1.0  | FORTIRANGE  | 116.0      | 128.0 | 122.0 | 65.8                   | 19.9    | 36.7    | 114.0      | 124.0 | 119.0 | 68.0                   | 25.7   | 42.3    | 133.7            | 45.6    | 79.0    |
| 31 | 2.0  | WHITE ROCK  | 102.0      | 110.0 | 106.0 | 5522.8                 | 4645.2  | 5072.3  | 118.0      | 126.0 | 122.0 | 3303.7                 | 2707.1 | 2995.4  | 8826.5           | 7352.2  | 8068.7  |
| 32 | 2.0  | PARSHIP PK  | 80.0       | 102.0 | 91.0  | 8310.0                 | 5522.8  | 6898.7  | 122.0      | 144.0 | 133.0 | 2995.4                 | 1646.6 | 2249.8  | 11303.3          | 7171.3  | 9108.6  |
| 33 | 1.0  | FAIR S EGAN | 108.0      | 120.0 | 114.0 | 136.7                  | 44.7    | 79.3    | 136.0      | 150.0 | 143.0 | 7.2                    | 1.4    | 3.2     | 143.9            | 46.1    | 82.4    |
| 34 | 1.0  | DMR         | 2.0        | 4.0   | 3.0   | 15941.0                | 15863.1 | 15908.5 | 204.0      | 268.0 | 236.0 | 0.0                    | 0.0    | 0.0     | 15941.0          | 15863.1 | 15908.5 |
| 35 | 1.0  | ARROW CYN   | 2.0        | 8.0   | 5.0   | 15941.0                | 15555.3 | 15804.9 | 220.0      | 230.0 | 225.0 | 0.0                    | 0.0    | 0.0     | 15941.0          | 15555.3 | 15804.9 |
| 36 | 3.0  | ZION NP     | 102.0      | 128.0 | 115.0 | 9961.1                 | 7593.0  | 8764.9  | 132.0      | 166.0 | 149.0 | 6206.9                 | 3920.3 | 4997.9  | 16168.0          | 11515.2 | 13762.7 |
| 37 | 3.0  | CEDAR BRKS  | 126.0      | 130.0 | 128.0 | 7772.0                 | 7419.3  | 7593.0  | 120.0      | 132.0 | 126.0 | 7119.2                 | 6206.9 | 6658.3  | 14891.2          | 13626.2 | 14253.2 |
| 38 | 3.0  | ASHDOWN     | 124.0      | 130.0 | 127.0 | 7950.2                 | 7419.3  | 7683.3  | 120.0      | 146.0 | 133.0 | 7119.2                 | 5202.6 | 6132.7  | 15069.5          | 12621.9 | 13816.0 |
| 39 | 2.0  | RED CYN NO  | 156.0      | 162.0 | 159.0 | 1332.8                 | 1097.0  | 1210.3  | 110.0      | 116.0 | 113.0 | 3979.5                 | 3463.3 | 3716.9  | 5312.3           | 4562.3  | 4927.2  |
| 40 | 3.0  | RAYCE CYN   | 154.0      | 168.0 | 161.0 | 5446.5                 | 4439.4  | 4928.2  | 120.0      | 134.0 | 127.0 | 7119.2                 | 6058.9 | 6582.3  | 12565.7          | 10498.3 | 11510.5 |
| 41 | 1.0  | TABLE MTN   | 108.0      | 122.0 | 115.0 | 136.7                  | 36.7    | 72.3    | 116.0      | 124.0 | 120.0 | 56.3                   | 25.7   | 38.3    | 193.0            | 62.4    | 110.6   |
| 42 | 2.0  | JARSDICE    | 340.0      | 358.0 | 349.0 | 0.1                    | 0.0     | 0.1     | 220.0      | 228.0 | 224.0 | 98.0                   | 68.0   | 81.7    | 98.1             | 68.0    | 81.8    |
| 43 | 2.0  | LONE PK     | 306.0      | 306.0 | 306.0 | 1.1                    | 1.1     | 1.1     | 94.0       | 94.0  | 94.0  | 3552.4                 | 3552.4 | 3552.4  | 3552.4           | 3552.4  | 3552.4  |
| 44 | 2.0  | MT GRAFTON  | 116.0      | 132.0 | 124.0 | 4044.9                 | 2698.1  | 3323.2  | 124.0      | 130.0 | 127.0 | 2848.8                 | 2438.5 | 2638.1  | 6893.7           | 5126.6  | 5963.3  |
| 45 | 2.0  | PARSOEDARB  | 112.0      | 120.0 | 116.0 | 4639.4                 | 3673.3  | 4044.9  | 138.0      | 152.0 | 143.0 | 1959.3                 | 1294.7 | 1800.7  | 6398.7           | 4968.2  | 5645.6  |
| 46 | 1.0  | SOPAHROCS   | 44.0       | 56.0  | 50.0  | 7245.1                 | 4439.4  | 5755.3  | 188.0      | 194.0 | 191.0 | 0.0                    | 0.0    | 0.0     | 7245.1           | 4439.4  | 5755.3  |
| 47 | 1.0  | EASTPAHARAN | 36.0       | 42.0  | 39.0  | 9407.9                 | 7772.0  | 8582.3  | 210.0      | 216.0 | 213.0 | 0.0                    | 0.0    | 0.0     | 9407.9           | 7772.0  | 8582.4  |
| 48 | 1.0  | MADSCARPS   | 32.0       | 34.0  | 33.0  | 10512.3                | 9961.1  | 10237.3 | 204.0      | 212.0 | 208.0 | 0.0                    | 0.0    | 0.0     | 10512.3          | 9961.1  | 10237.3 |
| 49 | 1.0  | LOPAHRAHKA  | 32.0       | 34.0  | 33.0  | 10512.3                | 9961.1  | 10237.3 | 204.0      | 212.0 | 208.0 | 0.0                    | 0.0    | 0.0     | 10512.3          | 9961.1  | 10237.3 |
| 50 | 1.0  | FW123       | 0.0        | 2.0   | 1.0   | 15967.0                | 15941.0 | 15960.5 | 212.0      | 232.0 | 222.0 | 0.0                    | 0.0    | 0.0     | 15967.0          | 15941.0 | 15960.5 |
| 51 | 1.0  | GRPVINESPR  | 44.0       | 56.0  | 50.0  | 7245.1                 | 4439.4  | 5755.3  | 168.0      | 180.0 | 174.0 | 0.1                    | 0.0    | 0.1     | 7245.2           | 4439.4  | 5755.3  |
| 52 | 2.0  | MEADOW VAL  | 8.0        | 40.0  | 24.0  | 15863.1                | 13561.8 | 15053.5 | 180.0      | 218.0 | 199.0 | 301.4                  | 107.1  | 240.3   | 16364.3          | 13669.0 | 15296.1 |
| 53 | 2.0  | HORMON MTS  | 20.0       | 40.0  | 30.0  | 15328.4                | 13561.8 | 14566.0 | 188.0      | 210.0 | 199.0 | 371.3                  | 152.0  | 240.3   | 15699.7          | 13713.8 | 14806.3 |
| 54 | 1.0  | PENN CYN    | 20.0       | 20.0  | 20.0  | 13561.8                | 13561.8 | 13561.8 | 208.0      | 208.0 | 208.0 | 0.0                    | 0.0    | 0.0     | 13561.8          | 13561.8 | 13561.8 |
| 55 | 2.0  | GRAN SPR    | 188.0      | 192.0 | 190.0 | 433.4                  | 371.2   | 401.3   | 82.0       | 90.0  | 84.0  | 6887.7                 | 5983.4 | 6431.2  | 7321.2           | 6356.6  | 6832.5  |

## EFFECT INDEX OF BASING ALTERNATIVES ON WILDERNESS AREAS

ALTERNATIVE NO. 3  
 BASE A: BEVLY LONG TERM POP. 14942.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|    |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1  | 1.0  | FISH SPR      | 132.0      | 130.0 | 141.0 | 13.8                   | 1.7     | 5.1     | 78.0       | 88.0  | 83.0  | 1197.5                 | 608.2   | 842.2   | 1211.4           | 609.9   | 867.2   |
| 2  | 2.0  | CONDER HT     | 88.0       | 114.0 | 101.0 | 7487.9                 | 4498.4  | 5983.1  | 56.0       | 64.0  | 60.0  | 10418.1                | 9443.9  | 9926.3  | 18104.0          | 13944.4 | 15919.4 |
| 3  | 2.0  | DEEP CREEK    | 140.0      | 148.0 | 154.0 | 3293.0                 | 931.1   | 1304.4  | 38.0       | 78.0  | 68.0  | 10178.3                | 7711.4  | 8950.5  | 12471.3          | 8462.7  | 10437.1 |
| 4  | 1.0  | KING TOP      | 78.0       | 96.0  | 87.0  | 1414.2                 | 393.9   | 771.4   | 56.0       | 80.0  | 68.0  | 3989.0                 | 1032.4  | 2173.2  | 5403.2           | 1444.5  | 2944.6  |
| 5  | 1.0  | MAN MAN MT    | 56.0       | 76.0  | 66.0  | 4710.8                 | 1403.7  | 2842.1  | 90.0       | 88.0  | 89.0  | 523.9                  | 608.2   | 543.8   | 5234.7           | 2311.9  | 3428.9  |
| 6  | 1.0  | NOTCH PK      | 94.0       | 110.0 | 102.0 | 459.9                  | 121.4   | 242.3   | 74.0       | 84.0  | 81.0  | 1358.0                 | 701.0   | 983.7   | 1817.9           | 822.4   | 1228.2  |
| 7  | 1.0  | HOMELL PK     | 108.0      | 116.0 | 112.0 | 145.0                  | 69.8    | 101.3   | 74.0       | 84.0  | 79.0  | 1334.9                 | 805.4   | 1123.2  | 1679.9           | 873.1   | 1224.3  |
| 8  | 1.0  | SHASEY HT     | 114.0      | 130.0 | 122.0 | 84.2                   | 17.1    | 39.0    | 78.0       | 88.0  | 83.0  | 1197.5                 | 608.2   | 842.2   | 1281.7           | 623.3   | 901.1   |
| 9  | 1.0  | LTL SANARA    | 130.0      | 138.0 | 134.0 | 1.7                    | 0.6     | 1.1     | 132.0      | 138.0 | 133.0 | 11.7                   | 4.0     | 8.4     | 13.4             | 4.7     | 9.5     |
| 10 | 3.0  | PINE VALLE    | 16.0       | 32.0  | 24.0  | 16747.4                | 16174.2 | 16304.1 | 142.0      | 158.0 | 150.0 | 3749.3                 | 4624.4  | 5171.3  | 22494.7          | 20798.7 | 21677.5 |
| 11 | 2.0  | ARC DONE      | 206.0      | 222.0 | 214.0 | 223.1                  | 110.9   | 158.3   | 130.0      | 144.0 | 137.0 | 2557.6                 | 1729.1  | 2113.3  | 2780.6           | 1840.0  | 2271.8  |
| 12 | 1.0  | ROBERTS HT    | 204.0      | 212.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 86.0       | 92.0  | 89.0  | 701.0                  | 433.3   | 563.8   | 701.0            | 433.3   | 563.8   |
| 13 | 1.0  | RAWHIDE       | 150.0      | 164.0 | 157.0 | 1.7                    | 0.3     | 0.7     | 104.0      | 120.0 | 112.0 | 173.6                  | 40.2    | 83.7    | 173.2            | 40.3    | 86.3    |
| 14 | 2.0  | KAHICH        | 144.0      | 160.0 | 153.0 | 1924.7                 | 1243.1  | 1354.3  | 120.0      | 134.0 | 127.0 | 3300.8                 | 2294.3  | 2746.9  | 5323.4           | 3339.4  | 4231.4  |
| 15 | 1.0  | ANTELOPE      | 154.0      | 174.0 | 164.0 | 1.1                    | 0.1     | 0.2     | 82.0       | 92.0  | 87.0  | 922.2                  | 433.3   | 633.2   | 923.3            | 433.4   | 633.5   |
| 16 | 1.0  | PALISADE M    | 128.0      | 146.0 | 137.0 | 21.1                   | 2.8     | 8.0     | 84.0       | 104.0 | 94.0  | 803.4                  | 173.4   | 389.5   | 824.5            | 174.4   | 397.4   |
| 17 | 1.0  | THE WALL      | 128.0      | 146.0 | 137.0 | 21.1                   | 2.8     | 8.0     | 84.0       | 104.0 | 94.0  | 803.4                  | 173.4   | 389.5   | 824.5            | 174.4   | 397.4   |
| 18 | 1.0  | PARK RANGE    | 156.0      | 164.0 | 160.0 | 0.8                    | 0.3     | 0.3     | 78.0       | 84.0  | 81.0  | 1197.5                 | 603.4   | 983.7   | 1198.4           | 803.7   | 984.2   |
| 19 | 2.0  | MOREY         | 154.0      | 160.0 | 157.0 | 1306.4                 | 1243.1  | 1349.8  | 88.0       | 94.0  | 91.0  | 4310.0                 | 3823.3  | 4162.9  | 8014.6           | 7046.6  | 7332.6  |
| 20 | 1.0  | S REVEILLE    | 136.0      | 138.0 | 137.0 | 8.9                    | 7.1     | 8.0     | 124.0      | 124.0 | 125.0 | 27.0                   | 22.0    | 24.4    | 33.9             | 29.1    | 32.4    |
| 21 | 2.0  | QUINN         | 110.0      | 116.0 | 113.0 | 4929.1                 | 4292.2  | 4603.9  | 82.0       | 104.0 | 93.0  | 7224.1                 | 4738.2  | 5933.7  | 12132.2          | 9030.4  | 10339.4 |
| 22 | 1.0  | KEEPAHSPRG    | 48.0       | 86.0  | 77.0  | 2366.4                 | 827.9   | 1506.4  | 82.0       | 100.0 | 91.0  | 922.2                  | 242.2   | 488.5   | 3488.7           | 1070.0  | 1993.1  |
| 23 | 1.0  | GRANT RD      | 100.0      | 116.0 | 108.0 | 286.0                  | 69.8    | 145.0   | 68.0       | 88.0  | 78.0  | 2173.2                 | 608.2   | 1197.5  | 2439.2           | 678.0   | 1342.6  |
| 24 | 1.0  | BLUE EAGLE    | 102.0      | 120.0 | 111.0 | 242.3                  | 47.3    | 110.9   | 50.0       | 68.0  | 59.0  | 5171.3                 | 2173.2  | 3443.0  | 5412.9           | 2220.7  | 3373.9  |
| 25 | 1.0  | RIDGEMAN M    | 102.0      | 120.0 | 111.0 | 242.3                  | 47.3    | 110.9   | 50.0       | 68.0  | 59.0  | 5171.3                 | 2173.2  | 3443.0  | 5412.9           | 2220.7  | 3373.9  |
| 26 | 2.0  | RUBY HTNS     | 210.0      | 228.0 | 219.0 | 188.2                  | 84.2    | 126.9   | 84.0       | 102.0 | 93.0  | 4983.4                 | 4942.5  | 5933.7  | 7171.7           | 3044.7  | 4062.7  |
| 27 | 1.0  | GOSHUECYN     | 148.0      | 178.0 | 173.0 | 0.2                    | 0.0     | 0.1     | 44.0       | 58.0  | 52.0  | 4048.8                 | 3434.3  | 4738.2  | 6049.0           | 3434.4  | 4738.3  |
| 28 | 2.0  | SO EGAN       | 90.0       | 108.0 | 99.0  | 7413.7                 | 3153.4  | 4232.3  | 24.0       | 30.0  | 28.0  | 13390.7                | 11114.6 | 12381.4 | 20804.4          | 16270.0 | 18413.7 |
| 29 | 1.0  | DELAWARE HTS  | 70.0       | 86.0  | 78.0  | 2293.0                 | 827.9   | 1414.2  | 132.0      | 154.0 | 144.0 | 11.7                   | 0.7     | 3.0     | 2304.7           | 828.5   | 1417.3  |
| 30 | 1.0  | FORTIRANGE    | 68.0       | 80.0  | 74.0  | 2366.4                 | 1243.1  | 1812.6  | 48.0       | 60.0  | 54.0  | 3602.1                 | 3300.8  | 4363.8  | 6168.5           | 4543.9  | 6176.4  |
| 31 | 2.0  | WHITE ROCK    | 38.0       | 44.0  | 41.0  | 14421.7                | 13905.8 | 14272.4 | 64.0       | 74.0  | 70.0  | 9445.9                 | 7937.8  | 8701.9  | 24067.6          | 21843.6 | 22944.2 |
| 32 | 2.0  | PARNIP PK     | 38.0       | 42.0  | 40.0  | 14421.7                | 12857.4 | 13780.1 | 74.0       | 94.0  | 85.0  | 7937.8                 | 5823.3  | 6864.0  | 22579.5          | 18481.2 | 20444.1 |
| 33 | 1.0  | FAR S EGAN    | 84.0       | 90.0  | 87.0  | 931.1                  | 621.1   | 771.4   | 48.0       | 62.0  | 55.0  | 3602.1                 | 2987.9  | 4173.9  | 6333.1           | 3609.0  | 4943.3  |
| 34 | 1.0  | DNMR          | 82.0       | 146.0 | 114.0 | 1089.1                 | 2.8     | 84.2    | 144.0      | 200.0 | 172.0 | 3.0                    | 0.0     | 0.1     | 1092.1           | 2.8     | 84.3    |
| 35 | 1.0  | ARROW CYN     | 90.0       | 96.0  | 93.0  | 621.1                  | 393.9   | 494.4   | 172.0      | 184.0 | 178.0 | 0.1                    | 0.0     | 0.0     | 621.2            | 393.9   | 494.4   |
| 36 | 3.0  | ZION NP       | 30.0       | 68.0  | 49.0  | 16263.4                | 13737.8 | 15193.0 | 132.0      | 192.0 | 172.0 | 3031.6                 | 2693.8  | 3730.4  | 21297.0          | 18423.6 | 18945.4 |
| 37 | 3.0  | CEDAR BRKS    | 44.0       | 48.0  | 46.0  | 13318.8                | 13242.0 | 13392.7 | 154.0      | 180.0 | 158.0 | 4738.2                 | 4493.1  | 4624.4  | 20277.0          | 19735.1 | 20017.2 |
| 38 | 3.0  | ASHDOWN       | 40.0       | 46.0  | 43.0  | 13737.1                | 13392.7 | 13580.2 | 132.0      | 158.0 | 135.0 | 5031.6                 | 4624.4  | 4823.8  | 20788.7          | 20017.2 | 20404.0 |
| 39 | 2.0  | RED CYN NO    | 72.0       | 76.0  | 74.0  | 9982.9                 | 9397.7  | 9489.9  | 74.0       | 80.0  | 77.0  | 8203.2                 | 7446.9  | 7834.5  | 18188.1          | 16844.6 | 17324.4 |
| 40 | 3.0  | BRUCE CYN     | 7.8        | 86.0  | 46.9  | 16896.3                | 12114.9 | 15334.4 | 182.0      | 188.0 | 185.0 | 3194.1                 | 2888.2  | 3038.4  | 20090.3          | 15003.1 | 18373.0 |
| 41 | 1.0  | TABLE MTN     | 56.0       | 64.0  | 60.0  | 4710.8                 | 3183.4  | 3898.0  | 64.0       | 74.0  | 69.0  | 2693.8                 | 1534.9  | 2033.0  | 7406.4           | 4718.5  | 5933.0  |
| 42 | 2.0  | JARRIDGE      | 282.0      | 298.0 | 290.0 | 3.1                    | 2.0     | 3.2     | 170.0      | 184.0 | 178.0 | 731.7                  | 420.4   | 543.8   | 736.8            | 422.3   | 549.0   |
| 43 | 2.0  | LONE PK       | 213.0      | 213.0 | 213.0 | 145.4                  | 145.4   | 145.4   | 219.0      | 219.0 | 219.0 | 107.3                  | 107.3   | 107.3   | 272.8            | 272.8   | 272.8   |
| 44 | 2.0  | MT GRAFTON    | 80.0       | 88.0  | 84.0  | 8818.0                 | 7687.9  | 8247.0  | 36.0       | 52.0  | 44.0  | 12349.8                | 10887.6 | 11773.1 | 21387.8          | 18375.3 | 20022.2 |
| 45 | 2.0  | FARSDOGANS    | 88.0       | 96.0  | 92.0  | 7687.9                 | 6615.7  | 7143.3  | 48.0       | 56.0  | 52.0  | 11341.2                | 10418.1 | 10887.6 | 19029.1          | 17033.8 | 18030.9 |
| 46 | 1.0  | SOPAHROCS     | 80.0       | 84.0  | 82.0  | 1243.1                 | 931.1   | 1089.1  | 120.0      | 130.0 | 125.0 | 40.2                   | 14.5    | 24.4    | 1283.3           | 943.6   | 1112.5  |
| 47 | 1.0  | EASTPAHRAN    | 94.0       | 98.0  | 96.0  | 459.9                  | 336.2   | 393.9   | 140.0      | 146.0 | 143.0 | 4.8                    | 2.4     | 3.4     | 464.7            | 338.6   | 397.3   |
| 48 | 1.0  | MADSCARPS     | 92.0       | 96.0  | 94.0  | 535.3                  | 393.9   | 459.9   | 140.0      | 146.0 | 143.0 | 4.8                    | 2.4     | 3.4     | 340.2            | 396.2   | 463.3   |
| 49 | 1.0  | LOPAHRANLK    | 92.0       | 96.0  | 94.0  | 535.3                  | 393.9   | 459.9   | 140.0      | 146.0 | 143.0 | 4.8                    | 2.4     | 3.4     | 340.2            | 396.2   | 463.3   |
| 50 | 1.0  | FW123         | 88.0       | 120.0 | 104.0 | 718.2                  | 47.3    | 203.0   | 134.0      | 204.0 | 179.0 | 0.9                    | 0.0     | 0.0     | 719.1            | 47.3    | 203.0   |
| 51 | 1.0  | GRPVINESPR    | 40.0       | 54.0  | 47.0  | 8818.0                 | 3153.4  | 4877.3  | 18.0       | 144.0 | 81.0  | 12349.8                | 3.0     | 983.7   | 21287.8          | 9136.4  | 7843.0  |
| 52 | 2.0  | HEADON VAL    | 60.0       | 88.0  | 74.0  | 11734.2                | 7687.9  | 9489.9  | 148.0      | 172.0 | 160.0 | 1534.9                 | 701.0   | 1032.6  | 13289.1          | 8388.9  | 10742.3 |
| 53 | 2.0  | MORRISON HTS  | 60.0       | 80.0  | 70.0  | 11734.2                | 8818.0  | 10216.4 | 152.0      | 172.0 | 162.0 | 1358.0                 | 701.0   | 983.7   | 13092.2          | 9319.0  | 11262.1 |
| 54 | 1.0  | PENN CYN      | 88.0       | 88.0  | 88.0  | 718.2                  | 718.2   | 718.2   | 152.0      | 152.0 | 152.0 | 1.2                    | 1.2     | 1.2     | 719.4            | 719.4   | 719.4   |
| 55 | 2.0  | GRAN SPR      | 120.0      | 124.0 | 122.0 | 3898.0                 | 3528.5  | 3710.2  | 38.0       | 44.0  | 41.0  | 12381.4                | 11773.1 | 12085.5 | 16279.4          | 15303.6 | 15993.7 |

## EFFECT INDEX OF BASING ALTERNATIVES ON WILDERNESS AREAS

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP. 16943.0  
 BASE B: COYOTE LONG TERM POP. 12193.0

| NO. | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |       |               | N          | F     | Ave   | MAX                    | MIN     | Ave     | N          | F     | Ave   | MAX                    | MIN     | Ave     | MAX              | MIN     | Ave     |
| 1   | 1.0   | FISH SPR      | 132.0      | 130.0 | 141.0 | 13.8                   | 1.7     | 5.1     | 208.0      | 224.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 13.8             | 1.7     | 5.1     |
| 2   | 2.0   | CONGER MT     | 88.0       | 114.0 | 101.0 | 7687.9                 | 4498.4  | 5983.1  | 176.0      | 188.0 | 182.0 | 517.0                  | 331.0   | 413.2   | 6204.9           | 4627.5  | 6398.3  |
| 3   | 2.0   | DEEP CREEK    | 140.0      | 148.0 | 134.0 | 2293.0                 | 951.1   | 1504.6  | 208.0      | 234.0 | 221.0 | 147.3                  | 45.7    | 83.3    | 2440.3           | 994.8   | 1590.1  |
| 1   | 1.0   | KING TOP      | 78.0       | 96.0  | 87.0  | 1414.2                 | 393.9   | 771.4   | 160.0      | 176.0 | 168.0 | 0.4                    | 0.0     | 0.1     | 1414.4           | 393.9   | 771.5   |
| 5   | 1.0   | MAN HAM MT    | 56.0       | 76.0  | 66.0  | 4710.8                 | 1603.7  | 2863.1  | 140.0      | 156.0 | 148.0 | 4.1                    | 0.6     | 1.6     | 4714.9           | 1604.3  | 2864.7  |
| 6   | 1.0   | NOTCH PK      | 94.0       | 110.0 | 102.0 | 459.9                  | 121.4   | 242.3   | 176.0      | 192.0 | 184.0 | 0.0                    | 0.0     | 0.0     | 460.0            | 121.4   | 242.3   |
| 7   | 1.0   | HONELL PK     | 108.0      | 116.0 | 112.0 | 145.0                  | 69.8    | 101.3   | 186.0      | 194.0 | 190.0 | 0.0                    | 0.0     | 0.0     | 145.0            | 69.8    | 101.3   |
| 8   | 1.0   | SHAWBY MT     | 114.0      | 130.0 | 122.0 | 84.2                   | 17.1    | 39.0    | 194.0      | 208.0 | 201.0 | 0.0                    | 0.0     | 0.0     | 84.2             | 17.1    | 39.0    |
| 9   | 1.0   | LTL SAHARA    | 150.0      | 158.0 | 154.0 | 1.7                    | 0.6     | 1.1     | 238.0      | 248.0 | 243.0 | 0.0                    | 0.0     | 0.0     | 1.7              | 0.6     | 1.1     |
| 10  | 3.0   | PINE VALLE    | 16.0       | 32.0  | 24.0  | 16747.4                | 16174.2 | 16304.1 | 88.0       | 100.0 | 94.0  | 8983.3                 | 7748.6  | 8168.4  | 23230.8          | 23922.8 | 24474.8 |
| 11  | 2.0   | ARC DOME      | 204.0      | 222.0 | 214.0 | 223.1                  | 110.9   | 158.3   | 182.0      | 200.0 | 191.0 | 413.2                  | 205.9   | 294.8   | 628.3            | 216.8   | 452.1   |
| 12  | 1.0   | ROBERTS MT    | 204.0      | 212.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 220.0      | 228.0 | 224.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 13  | 1.0   | RAMHIDE       | 150.0      | 164.0 | 157.0 | 1.7                    | 0.3     | 0.7     | 124.0      | 138.0 | 131.0 | 22.9                   | 3.1     | 11.1    | 24.7             | 3.4     | 11.8    |
| 14  | 2.0   | KAWICH        | 146.0      | 160.0 | 153.0 | 1924.7                 | 1243.1  | 1394.3  | 104.0      | 124.0 | 114.0 | 4044.3                 | 2539.7  | 3227.8  | 9949.1           | 3782.8  | 4778.4  |
| 15  | 1.0   | ANTELOPE      | 154.0      | 174.0 | 164.0 | 1.1                    | 0.1     | 0.3     | 150.0      | 176.0 | 163.0 | 1.3                    | 0.0     | 0.2     | 2.3              | 0.1     | 0.3     |
| 16  | 1.0   | PALISADE M    | 128.0      | 146.0 | 137.0 | 21.1                   | 2.8     | 8.0     | 112.0      | 132.0 | 122.0 | 72.9                   | 9.9     | 28.0    | 94.0             | 12.8    | 34.0    |
| 17  | 1.0   | THE HALL      | 128.0      | 146.0 | 137.0 | 21.1                   | 2.8     | 8.0     | 112.0      | 132.0 | 122.0 | 72.9                   | 9.9     | 28.0    | 94.0             | 12.8    | 34.0    |
| 18  | 1.0   | PARK RANGE    | 156.0      | 164.0 | 160.0 | 0.8                    | 0.3     | 0.5     | 132.0      | 160.0 | 136.0 | 1.0                    | 0.4     | 0.6     | 1.8              | 0.6     | 1.1     |
| 19  | 2.0   | MOREY         | 154.0      | 160.0 | 157.0 | 1506.6                 | 1243.1  | 1369.8  | 140.0      | 148.0 | 144.0 | 1650.4                 | 1304.6  | 1469.8  | 3157.0           | 2547.7  | 2829.4  |
| 20  | 1.0   | S REVELLE     | 136.0      | 138.0 | 137.0 | 8.9                    | 7.1     | 8.0     | 94.0       | 94.0  | 94.0  | 331.0                  | 331.0   | 331.0   | 340.0            | 338.2   | 339.6   |
| 21  | 2.0   | QUINN         | 110.0      | 116.0 | 113.0 | 4929.1                 | 4292.2  | 4603.9  | 88.0       | 104.0 | 96.0  | 5533.3                 | 4044.3  | 4761.8  | 10462.6          | 8336.7  | 9363.6  |
| 22  | 1.0   | WEEPAHSPR     | 68.0       | 86.0  | 77.0  | 2364.4                 | 827.9   | 1504.6  | 68.0       | 86.0  | 77.0  | 1847.2                 | 593.9   | 1086.4  | 4413.6           | 1423.7  | 2291.0  |
| 23  | 1.0   | GRANT RG      | 100.0      | 116.0 | 108.0 | 284.0                  | 69.8    | 145.0   | 96.0       | 112.0 | 104.0 | 283.3                  | 72.9    | 147.3   | 369.3            | 142.7   | 292.3   |
| 24  | 1.0   | BLUE EAGLE    | 102.0      | 120.0 | 111.0 | 242.3                  | 47.3    | 110.9   | 110.0      | 132.0 | 121.0 | 87.4                   | 9.9     | 31.0    | 329.9            | 37.4    | 141.9   |
| 25  | 1.0   | RIORDANS M    | 102.0      | 120.0 | 111.0 | 242.3                  | 47.3    | 110.9   | 110.0      | 132.0 | 121.0 | 87.4                   | 9.9     | 31.0    | 329.9            | 37.4    | 141.9   |
| 26  | 2.0   | RUBY MTS      | 210.0      | 228.0 | 219.0 | 188.2                  | 84.2    | 126.9   | 246.0      | 264.0 | 254.0 | 25.4                   | 8.9     | 13.2    | 213.6            | 93.1    | 142.1   |
| 27  | 1.0   | GOSHUECYN     | 168.0      | 178.0 | 173.0 | 0.2                    | 0.0     | 0.1     | 214.0      | 226.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 0.2              | 0.0     | 0.1     |
| 28  | 2.0   | SD EGAN       | 90.0       | 108.0 | 99.0  | 7413.7                 | 3153.4  | 6232.3  | 118.0      | 142.0 | 130.0 | 2945.3                 | 1598.1  | 2173.9  | 10299.0          | 6711.3  | 8406.3  |
| 29  | 1.0   | DELAHARMTS    | 70.0       | 86.0  | 78.0  | 2293.0                 | 827.9   | 1414.2  | 12.0       | 34.0  | 23.0  | 11498.9                | 7607.9  | 9826.7  | 13791.9          | 8435.8  | 11241.0 |
| 30  | 1.0   | FORTIRANGE    | 68.0       | 80.0  | 74.0  | 2364.4                 | 1243.1  | 1812.6  | 116.0      | 128.0 | 122.0 | 30.2                   | 13.2    | 28.0    | 2616.6           | 1298.3  | 1840.6  |
| 31  | 2.0   | WHITE ROCK    | 38.0       | 44.0  | 41.0  | 14631.7                | 13905.8 | 14272.4 | 102.0      | 110.0 | 106.0 | 4218.1                 | 3547.8  | 3874.8  | 18839.9          | 17453.6 | 18147.2 |
| 32  | 2.0   | PARNIP PK     | 38.0       | 44.0  | 41.0  | 14631.7                | 13905.8 | 14272.4 | 102.0      | 110.0 | 106.0 | 4218.1                 | 3547.8  | 3874.8  | 18839.9          | 17453.6 | 18147.2 |
| 33  | 1.0   | FAR S EGAN    | 84.0       | 90.0  | 87.0  | 951.1                  | 621.1   | 771.4   | 108.0      | 120.0 | 114.0 | 104.4                  | 34.2    | 60.6    | 1053.3           | 689.3   | 832.0   |
| 34  | 1.0   | DNR           | 82.0       | 144.0 | 114.0 | 1089.1                 | 2.8     | 84.2    | 2.0        | 4.0   | 3.0   | 12173.1                | 12113.4 | 12150.3 | 13264.2          | 12118.4 | 12224.3 |
| 35  | 1.0   | ARROW CYN     | 90.0       | 96.0  | 93.0  | 621.1                  | 393.9   | 496.4   | 2.0        | 8.0   | 5.0   | 12173.1                | 11880.6 | 12071.2 | 12796.2          | 12274.4 | 12367.6 |
| 36  | 3.0   | ZION NP       | 30.0       | 48.0  | 49.0  | 16263.4                | 13737.8 | 15193.0 | 102.0      | 128.0 | 115.0 | 7607.9                 | 5800.8  | 6694.3  | 22673.3          | 19538.3 | 21889.3 |
| 37  | 3.0   | CEDAR BRKS    | 44.0       | 48.0  | 46.0  | 13518.8                | 13262.0 | 15392.7 | 126.0      | 130.0 | 128.0 | 5933.9                 | 5666.6  | 5800.8  | 21494.8          | 20928.6 | 21193.4 |
| 38  | 3.0   | ASHDOWN       | 40.0       | 46.0  | 43.0  | 13737.1                | 13392.7 | 15380.2 | 124.0      | 130.0 | 127.0 | 6072.1                 | 5666.6  | 5868.2  | 21829.2          | 21059.2 | 21448.4 |
| 39  | 2.0   | RED CYN NO    | 72.0       | 76.0  | 74.0  | 9982.9                 | 9397.7  | 9689.9  | 156.0      | 162.0 | 159.0 | 1017.9                 | 837.8   | 924.3   | 11000.8          | 10523.6 | 10614.2 |
| 40  | 3.0   | BRYCE CYN     | 7.8        | 86.0  | 46.9  | 16896.3                | 12114.9 | 15334.4 | 134.0      | 168.0 | 161.0 | 4159.8                 | 3390.7  | 3764.0  | 21036.1          | 15203.6 | 19098.4 |
| 41  | 1.0   | TABLE MTN     | 56.0       | 64.0  | 60.0  | 4710.8                 | 3183.6  | 2898.0  | 108.0      | 122.0 | 115.0 | 104.4                  | 28.0    | 33.2    | 4813.2           | 3211.7  | 3953.2  |
| 42  | 2.0   | JARBIDGE      | 282.0      | 298.0 | 290.0 | 3.1                    | 2.0     | 3.2     | 340.0      | 358.0 | 349.0 | 0.1                    | 0.0     | 0.0     | 3.2              | 2.0     | 3.2     |
| 43  | 2.0   | LONE PK       | 213.0      | 213.0 | 213.0 | 163.4                  | 163.4   | 163.4   | 306.0      | 306.0 | 306.0 | 0.9                    | 0.9     | 0.9     | 166.2            | 166.2   | 166.2   |
| 44  | 2.0   | MT GRAFTON    | 80.0       | 88.0  | 84.0  | 8818.0                 | 7687.9  | 8247.0  | 116.0      | 132.0 | 124.0 | 3089.4                 | 2060.7  | 2529.7  | 11907.3          | 9748.7  | 10786.7 |
| 45  | 2.0   | FORSBERG      | 88.0       | 96.0  | 92.0  | 7687.9                 | 6613.9  | 7143.3  | 112.0      | 120.0 | 116.0 | 3390.7                 | 2803.7  | 3089.4  | 11078.6          | 9421.4  | 10232.7 |
| 46  | 1.0   | SOPHROCS      | 80.0       | 84.0  | 82.0  | 1243.1                 | 951.1   | 1089.1  | 44.0       | 56.0  | 50.0  | 5533.3                 | 3390.7  | 4393.7  | 6776.6           | 4341.8  | 5484.8  |
| 47  | 1.0   | SASTHARRAN    | 94.0       | 98.0  | 96.0  | 459.9                  | 336.2   | 393.9   | 36.0       | 42.0  | 39.0  | 7185.4                 | 5933.9  | 6334.9  | 7643.3           | 6272.1  | 6948.7  |
| 48  | 1.0   | HADSCAMPS     | 92.0       | 96.0  | 94.0  | 333.3                  | 393.9   | 459.9   | 32.0       | 34.0  | 33.0  | 8029.1                 | 7607.9  | 7818.8  | 8364.4           | 8001.8  | 8278.8  |
| 49  | 1.0   | LDFAHRAK      | 92.0       | 96.0  | 94.0  | 333.3                  | 393.9   | 459.9   | 32.0       | 34.0  | 33.0  | 8029.1                 | 7607.9  | 7818.8  | 8364.4           | 8001.8  | 8278.8  |
| 50  | 1.0   | FW123         | 88.0       | 120.0 | 104.0 | 718.2                  | 47.3    | 203.0   | 0.0        | 2.0   | 1.0   | 12193.0                | 12173.1 | 12190.0 | 12913.2          | 12222.4 | 12393.0 |
| 51  | 1.0   | GRPVINESPR    | 40.0       | 54.0  | 47.0  | 8818.0                 | 5153.4  | 6877.3  | 44.0       | 56.0  | 50.0  | 5533.3                 | 3390.7  | 4393.7  | 14331.3          | 8544.0  | 11272.9 |
| 52  | 2.0   | MEADOW VAL    | 60.0       | 88.0  | 74.0  | 11734.2                | 7687.9  | 9689.9  | 8.0        | 40.0  | 24.0  | 12113.6                | 10338.0 | 11498.9 | 22849.8          | 18043.9 | 21188.7 |
| 53  | 2.0   | MORMON MTS    | 60.0       | 80.0  | 70.0  | 11734.2                | 6818.0  | 10276.4 | 20.0       | 40.0  | 30.0  | 11707.3                | 10338.0 | 11124.9 | 22441.3          | 19176.0 | 21401.4 |
| 54  | 1.0   | PENN CYN      | 88.0       | 88.0  | 88.0  | 718.2                  | 718.2   | 718.2   | 20.0       | 20.0  | 20.0  | 10338.0                | 10338.0 | 10338.0 | 11076.2          | 11076.2 | 11076.2 |
| 55  | 2.0   | GRAN SPR      | 120.0      | 124.0 | 122.0 | 3898.0                 | 3528.5  | 3710.2  | 188.0      | 192.0 | 190.0 | 331.0                  | 283.3   | 306.3   | 4229.1           | 3812.0  | 4016.6  |

## EFFECT INDEX OF BASING ALTERNATIVES ON WILDERNESS AREAS

ALTERNATIVE NO. 5  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|    |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1  | 1.0  | FISH SPR      | 88.0       | 104.0 | 96.0  | 730.0                  | 208.3   | 400.3   | 78.0       | 88.0  | 83.0  | 1197.3                 | 608.2   | 862.2   | 1927.6           | 816.3   | 1262.3  |
| 2  | 2.0  | CONGER MT     | 44.0       | 74.0  | 70.0  | 11041.3                | 9848.8  | 10443.1 | 36.0       | 64.0  | 60.0  | 10418.1                | 9445.9  | 9926.3  | 21459.3          | 19294.8 | 20381.4 |
| 3  | 2.0  | DEEP CREEK    | 104.0      | 128.0 | 116.0 | 3711.4                 | 3235.9  | 4362.4  | 58.0       | 78.0  | 68.0  | 10178.5                | 7711.6  | 8950.5  | 15889.9          | 10947.4 | 13313.1 |
| 4  | 1.0  | KING TOP      | 38.0       | 58.0  | 48.0  | 9551.9                 | 4362.4  | 6724.3  | 36.0       | 80.0  | 68.0  | 3989.0                 | 1052.4  | 2173.2  | 13540.9          | 3415.2  | 10897.4 |
| 5  | 1.0  | WAM WAM MT    | 28.0       | 44.0  | 36.0  | 12503.0                | 7814.1  | 10144.7 | 90.0       | 88.0  | 89.0  | 525.9                  | 608.2   | 565.8   | 13030.9          | 8422.3  | 10712.3 |
| 6  | 1.0  | NOTCH PK      | 48.0       | 62.0  | 55.0  | 6724.3                 | 3586.4  | 5010.0  | 74.0       | 86.0  | 81.0  | 1258.0                 | 701.0   | 985.7   | 8082.2           | 4287.4  | 5995.7  |
| 7  | 1.0  | HOWELL PK     | 62.0       | 70.0  | 66.0  | 3586.4                 | 2330.6  | 2910.1  | 74.0       | 84.0  | 79.0  | 1534.9                 | 805.4   | 1123.2  | 5121.3           | 3136.0  | 4033.3  |
| 8  | 1.0  | SWASEY MT     | 64.0       | 82.0  | 73.0  | 3235.9                 | 1107.0  | 1956.2  | 78.0       | 88.0  | 83.0  | 1197.3                 | 608.2   | 862.2   | 4432.4           | 1715.2  | 2818.4  |
| 9  | 1.0  | LTL SAMARA    | 94.0       | 102.0 | 98.0  | 467.3                  | 246.3   | 341.7   | 132.0      | 138.0 | 135.0 | 11.7                   | 6.0     | 8.4     | 479.2            | 252.3   | 350.1   |
| 10 | 3.0  | PINE VALLE    | 64.0       | 80.0  | 72.0  | 14301.6                | 12882.6 | 13613.0 | 142.0      | 158.0 | 150.0 | 5749.3                 | 4624.6  | 5171.3  | 20050.9          | 17507.2 | 18784.4 |
| 11 | 2.0  | ARC DOME      | 216.0      | 232.0 | 224.0 | 147.4                  | 70.9    | 102.9   | 130.0      | 144.0 | 137.0 | 2357.6                 | 1729.1  | 2113.3  | 2704.9           | 1800.1  | 2216.4  |
| 12 | 1.0  | ROBERTS MT    | 202.0      | 212.0 | 207.0 | 0.0                    | 0.0     | 0.0     | 86.0       | 92.0  | 89.0  | 701.0                  | 453.3   | 565.8   | 701.0            | 453.3   | 565.8   |
| 13 | 1.0  | RAMHIDE       | 182.0      | 196.0 | 189.0 | 0.0                    | 0.0     | 0.0     | 104.0      | 120.0 | 112.0 | 173.6                  | 40.2    | 85.7    | 173.6            | 40.2    | 85.7    |
| 14 | 2.0  | KAMICH        | 184.0      | 200.0 | 192.0 | 544.1                  | 290.7   | 400.3   | 120.0      | 134.0 | 127.0 | 3309.8                 | 2296.3  | 2766.9  | 3844.9           | 2587.0  | 3167.2  |
| 15 | 1.0  | ANTELOPE      | 170.0      | 186.0 | 178.0 | 0.1                    | 0.0     | 0.0     | 82.0       | 92.0  | 87.0  | 922.2                  | 453.3   | 653.2   | 922.4            | 453.3   | 653.2   |
| 16 | 1.0  | PALISADE M    | 158.0      | 176.0 | 167.0 | 0.6                    | 0.1     | 0.2     | 84.0       | 104.0 | 94.0  | 805.4                  | 173.6   | 389.5   | 806.0            | 173.6   | 389.7   |
| 17 | 1.0  | THE HALL      | 158.0      | 176.0 | 167.0 | 0.6                    | 0.1     | 0.2     | 84.0       | 104.0 | 94.0  | 805.4                  | 173.6   | 389.5   | 806.0            | 173.6   | 389.7   |
| 18 | 1.0  | PARK RANGE    | 80.0       | 82.0  | 81.0  | 1263.3                 | 1107.0  | 1183.1  | 78.0       | 84.0  | 81.0  | 1197.3                 | 605.4   | 985.7   | 2461.0           | 1912.4  | 2168.8  |
| 19 | 2.0  | MOREY         | 182.0      | 176.0 | 179.0 | 586.3                  | 730.0   | 694.8   | 88.0       | 94.0  | 91.0  | 6910.0                 | 5823.5  | 6162.9  | 7096.3           | 6533.6  | 6817.7  |
| 20 | 1.0  | S REVELLE     | 176.0      | 180.0 | 178.0 | 0.1                    | 0.0     | 0.0     | 124.0      | 126.0 | 125.0 | 27.0                   | 22.0    | 24.4    | 27.0             | 22.0    | 24.4    |
| 21 | 2.0  | QUINN         | 144.0      | 160.0 | 152.0 | 2075.3                 | 1263.3  | 1630.0  | 82.0       | 104.0 | 93.0  | 7224.1                 | 4758.2  | 5935.7  | 9299.6           | 6021.7  | 7563.7  |
| 22 | 1.0  | WEEPANSPRO    | 110.0      | 124.0 | 117.0 | 123.4                  | 32.4    | 64.5    | 82.0       | 100.0 | 91.0  | 922.2                  | 242.2   | 488.5   | 1045.6           | 274.6   | 553.0   |
| 23 | 1.0  | GRANT RG      | 128.0      | 142.0 | 135.0 | 21.3                   | 4.6     | 10.1    | 68.0       | 88.0  | 78.0  | 2173.2                 | 608.2   | 1197.3  | 2194.7           | 612.8   | 1207.7  |
| 24 | 1.0  | BLUE EAGLE    | 124.0      | 138.0 | 131.0 | 32.4                   | 7.2     | 15.6    | 30.0       | 68.0  | 59.0  | 5171.3                 | 2173.2  | 3465.0  | 5203.7           | 2180.4  | 3480.7  |
| 25 | 1.0  | RIDORDANS M   | 124.0      | 138.0 | 131.0 | 32.4                   | 7.2     | 15.6    | 30.0       | 68.0  | 59.0  | 5171.3                 | 2173.2  | 3465.0  | 5203.7           | 2180.4  | 3480.7  |
| 26 | 2.0  | RUBY MTHS     | 190.0      | 204.0 | 197.0 | 432.8                  | 246.3   | 328.3   | 84.0       | 102.0 | 93.0  | 4983.4                 | 4962.5  | 5935.7  | 7416.2           | 3209.0  | 6264.0  |
| 27 | 1.0  | GOSHUECYN     | 144.0      | 152.0 | 149.0 | 2.9                    | 1.4     | 2.0     | 46.0       | 58.0  | 52.0  | 6048.8                 | 3634.5  | 4758.2  | 6051.7           | 3639.9  | 4760.2  |
| 28 | 2.0  | BO EGAN       | 102.0      | 112.0 | 107.0 | 3956.6                 | 4788.1  | 5334.1  | 36.0       | 50.0  | 38.0  | 13390.7                | 11116.6 | 12381.4 | 19347.3          | 15904.7 | 17735.3 |
| 29 | 1.0  | DELMARHTS     | 124.0      | 146.0 | 136.0 | 26.4                   | 2.9     | 9.1     | 132.0      | 156.0 | 144.0 | 11.7                   | 0.7     | 3.0     | 38.1             | 3.6     | 12.1    |
| 30 | 1.0  | FORTIRANGE    | 74.0       | 84.0  | 80.0  | 1630.0                 | 966.7   | 1263.3  | 48.0       | 60.0  | 54.0  | 5602.1                 | 3300.8  | 4363.8  | 7232.0           | 4267.3  | 5627.3  |
| 31 | 2.0  | WHITE ROCK    | 56.0       | 64.0  | 60.0  | 12503.0                | 11338.1 | 11926.7 | 64.0       | 76.0  | 70.0  | 9445.9                 | 7957.8  | 8701.9  | 21950.9          | 19295.9 | 20628.6 |
| 32 | 2.0  | PARSNIP PK    | 68.0       | 86.0  | 77.0  | 10743.4                | 8096.3  | 9403.9  | 76.0       | 94.0  | 85.0  | 7957.8                 | 5823.5  | 6864.0  | 18701.2          | 13920.1 | 16268.0 |
| 33 | 1.0  | FAR S EGAN    | 100.0      | 108.0 | 104.0 | 290.7                  | 147.4   | 208.3   | 48.0       | 62.0  | 55.0  | 5602.1                 | 2987.9  | 4173.9  | 5892.7           | 3133.3  | 4382.2  |
| 34 | 1.0  | DNAH          | 140.0      | 204.0 | 172.0 | 5.8                    | 0.0     | 0.1     | 144.0      | 200.0 | 172.0 | 3.0                    | 0.0     | 0.1     | 8.8              | 0.0     | 0.2     |
| 35 | 1.0  | ARROW CYN     | 132.0      | 162.0 | 157.0 | 1.4                    | 0.4     | 0.7     | 172.0      | 184.0 | 178.0 | 0.1                    | 0.0     | 0.0     | 0.0              | 1.3     | 0.4     |
| 36 | 3.0  | ZION NP       | 62.0       | 78.0  | 80.0  | 14466.0                | 11140.4 | 12882.6 | 152.0      | 172.0 | 172.0 | 5021.6                 | 2695.8  | 3750.4  | 19497.6          | 13836.2 | 16633.0 |
| 37 | 2.0  | CEDAR BRKS    | 52.0       | 56.0  | 54.0  | 13233.3                | 14938.0 | 15087.8 | 126.0      | 160.0 | 158.0 | 4758.2                 | 4493.1  | 4624.6  | 19991.7          | 19431.1 | 19712.4 |
| 38 | 2.0  | ASHDOWN       | 50.0       | 56.0  | 53.0  | 15375.1                | 14938.0 | 15161.2 | 152.0      | 158.0 | 155.0 | 5031.6                 | 4624.6  | 4825.8  | 20406.7          | 19562.6 | 19966.9 |
| 39 | 2.0  | RED CYN NO    | 56.0       | 60.0  | 58.0  | 12503.0                | 11926.7 | 12217.4 | 74.0       | 80.0  | 77.0  | 8205.2                 | 7466.9  | 7834.3  | 20710.2          | 19393.6 | 20052.0 |
| 40 | 3.0  | BYRCE CYN     | 70.0       | 78.0  | 74.0  | 13789.5                | 13068.6 | 13433.9 | 182.0      | 188.0 | 185.0 | 3194.1                 | 2888.2  | 3038.6  | 16983.6          | 15956.8 | 16472.3 |
| 41 | 1.0  | TABLE MTN     | 72.0       | 80.0  | 74.0  | 2075.3                 | 1263.3  | 1630.0  | 64.0       | 74.0  | 69.0  | 2695.8                 | 1534.9  | 2055.0  | 4771.3           | 2798.4  | 3685.0  |
| 42 | 2.0  | JARSBIDGE     | 260.0      | 272.0 | 266.0 | 17.4                   | 9.1     | 12.6    | 170.0      | 186.0 | 178.0 | 751.7                  | 420.4   | 565.8   | 769.1            | 429.4   | 578.4   |
| 43 | 2.0  | LONE PK       | 166.0      | 166.0 | 166.0 | 1034.9                 | 1034.9  | 1034.9  | 219.0      | 219.0 | 219.0 | 107.5                  | 107.5   | 107.5   | 1142.4           | 1142.4  | 1142.4  |
| 44 | 2.0  | MT GRAFTON    | 90.0       | 96.0  | 93.0  | 7535.3                 | 6724.3  | 7124.8  | 36.0       | 52.0  | 44.0  | 12569.8                | 10887.6 | 11775.1 | 20105.1          | 17611.8 | 18899.9 |
| 45 | 2.0  | FARSOEGANS    | 104.0      | 112.0 | 108.0 | 5711.4                 | 4788.1  | 5237.9  | 48.0       | 56.0  | 52.0  | 11341.2                | 10418.1 | 10887.6 | 17052.5          | 13206.1 | 16123.3 |
| 46 | 1.0  | SOPAHROCS     | 120.0      | 134.0 | 132.0 | 17.4                   | 11.3    | 14.0    | 120.0      | 130.0 | 125.0 | 40.2                   | 14.5    | 24.4    | 57.6             | 25.8    | 38.4    |
| 47 | 1.0  | EASTPAHRAN    | 148.0      | 154.0 | 151.0 | 2.3                    | 1.1     | 1.6     | 140.0      | 146.0 | 143.0 | 4.8                    | 2.4     | 3.4     | 7.1              | 3.5     | 5.0     |
| 48 | 1.0  | HADSCARPS     | 142.0      | 148.0 | 145.0 | 4.6                    | 2.3     | 3.2     | 140.0      | 146.0 | 143.0 | 4.8                    | 2.4     | 3.4     | 9.4              | 4.6     | 6.6     |
| 49 | 1.0  | LOPAHRAHLK    | 142.0      | 148.0 | 145.0 | 4.6                    | 2.3     | 3.2     | 140.0      | 146.0 | 143.0 | 4.8                    | 2.4     | 3.4     | 9.4              | 4.6     | 6.6     |
| 50 | 1.0  | FW123         | 146.0      | 180.0 | 163.0 | 2.9                    | 0.0     | 0.3     | 154.0      | 204.0 | 179.0 | 0.9                    | 0.0     | 0.0     | 3.8              | 0.0     | 0.4     |
| 51 | 1.0  | GRPVINESPR    | 100.0      | 114.0 | 107.0 | 290.7                  | 85.6    | 160.9   | 18.0       | 144.0 | 81.0  | 12569.8                | 3.0     | 985.7   | 12860.5          | 88.6    | 1146.6  |
| 52 | 2.0  | HEADON VAL    | 120.0      | 130.0 | 125.0 | 3962.0                 | 1733.6  | 2481.7  | 148.0      | 172.0 | 160.0 | 1534.9                 | 701.0   | 1052.6  | 5496.8           | 2434.6  | 3734.3  |
| 53 | 2.0  | NORON MTS     | 120.0      | 140.0 | 130.0 | 3962.0                 | 2330.6  | 3069.9  | 152.0      | 172.0 | 162.0 | 1358.0                 | 701.0   | 985.7   | 5319.9           | 3051.6  | 4055.6  |
| 54 | 1.0  | PENN CYN      | 144.0      | 144.0 | 144.0 | 3.6                    | 3.6     | 3.6     | 152.0      | 152.0 | 152.0 | 1.2                    | 1.2     | 1.2     | 4.8              | 4.8     | 4.8     |
| 55 | 2.0  | GRAM SPR      | 88.0       | 96.0  | 92.0  | 7814.1                 | 6724.3  | 7260.6  | 38.0       | 44.0  | 41.0  | 12381.4                | 11775.1 | 12085.3 | 20195.4          | 18499.4 | 19346.1 |

## EFFECT INDEX OF BASING ALTERNATIVES ON WILDERNESS AREAS

ALTERNATIVE NO. 6  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: COVOTE LONG TERM POP. 12193.0

| NO. | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 1.0  | FISH SPR      | 88.0       | 104.0 | 96.0  | 730.0                  | 208.3   | 400.3   | 208.0      | 224.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 730.0            | 208.3   | 400.3   |
| 2   | 2.0  | CONGER MT     | 64.0       | 74.0  | 70.0  | 11041.3                | 9848.8  | 10445.1 | 176.0      | 188.0 | 182.0 | 517.0                  | 331.0   | 415.2   | 11556.2          | 10179.9 | 10860.3 |
| 3   | 2.0  | DEEP CREEK    | 104.0      | 128.0 | 116.0 | 5711.4                 | 3235.9  | 4362.6  | 208.0      | 234.0 | 221.0 | 147.9                  | 49.7    | 83.9    | 5858.9           | 3261.3  | 4446.1  |
| 1   | 1.0  | KING TOP      | 38.0       | 58.0  | 48.0  | 9591.9                 | 4362.6  | 6724.3  | 160.0      | 176.0 | 168.0 | 0.4                    | 0.0     | 0.1     | 9592.3           | 4362.6  | 6724.4  |
| 3   | 1.0  | MAN MAN MT    | 28.0       | 44.0  | 36.0  | 12509.0                | 7814.1  | 10146.7 | 140.0      | 156.0 | 148.0 | 4.1                    | 0.6     | 1.6     | 12509.1          | 7814.7  | 10148.3 |
| 4   | 1.0  | NOTCH PK      | 48.0       | 62.0  | 55.0  | 6724.3                 | 3586.4  | 5010.0  | 176.0      | 192.0 | 184.0 | 0.0                    | 0.0     | 0.0     | 6724.3           | 3586.4  | 5010.0  |
| 7   | 1.0  | HOMELL PK     | 62.0       | 70.0  | 66.0  | 3586.4                 | 2330.6  | 2910.1  | 184.0      | 194.0 | 190.0 | 0.0                    | 0.0     | 0.0     | 3586.4           | 2330.6  | 2910.1  |
| 8   | 1.0  | SHABBY MT     | 64.0       | 82.0  | 73.0  | 3235.9                 | 1107.0  | 1936.2  | 194.0      | 208.0 | 201.0 | 0.0                    | 0.0     | 0.0     | 3235.9           | 1107.0  | 1936.2  |
| 9   | 1.0  | LTL SAMARA    | 94.0       | 102.0 | 98.0  | 467.3                  | 246.3   | 341.7   | 238.0      | 248.0 | 243.0 | 0.0                    | 0.0     | 0.0     | 467.3            | 246.3   | 241.7   |
| 10  | 3.0  | PINE VALLS    | 64.0       | 80.0  | 72.0  | 14301.6                | 12882.6 | 13613.0 | 88.0       | 100.0 | 94.0  | 8982.3                 | 7748.5  | 8168.6  | 22884.9          | 20431.2 | 21781.7 |
| 11  | 2.0  | ARC DOME      | 216.0      | 232.0 | 224.0 | 147.4                  | 70.9    | 102.9   | 182.0      | 200.0 | 191.0 | 415.2                  | 205.9   | 296.8   | 562.6            | 276.8   | 397.7   |
| 12  | 1.0  | ROBERTS MT    | 202.0      | 212.0 | 207.0 | 0.0                    | 0.0     | 0.0     | 220.0      | 228.0 | 224.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 13  | 1.0  | RAMMIDE       | 182.0      | 196.0 | 189.0 | 0.0                    | 0.0     | 0.0     | 124.0      | 138.0 | 131.0 | 22.9                   | 3.1     | 11.1    | 22.0             | 3.1     | 11.1    |
| 14  | 2.0  | KANICH        | 184.0      | 200.0 | 192.0 | 344.1                  | 270.7   | 400.3   | 104.0      | 124.0 | 114.0 | 4044.3                 | 2337.7  | 3237.8  | 4988.6           | 2830.4  | 2638.1  |
| 15  | 1.0  | ANTELOPE      | 170.0      | 186.0 | 178.0 | 0.1                    | 0.0     | 0.0     | 190.0      | 176.0 | 163.0 | 1.3                    | 0.0     | 0.2     | 1.4              | 0.1     | 0.3     |
| 16  | 1.0  | PALISADE M    | 158.0      | 176.0 | 167.0 | 0.6                    | 0.1     | 0.2     | 112.0      | 132.0 | 122.0 | 72.9                   | 9.9     | 28.0    | 73.5             | 10.0    | 28.2    |
| 17  | 1.0  | THE WALL      | 158.0      | 176.0 | 167.0 | 0.6                    | 0.1     | 0.2     | 112.0      | 132.0 | 122.0 | 72.9                   | 9.9     | 28.0    | 73.5             | 10.0    | 28.2    |
| 18  | 1.0  | PARK RANGE    | 80.0       | 82.0  | 81.0  | 1263.3                 | 1107.0  | 1183.1  | 132.0      | 160.0 | 156.0 | 1.0                    | 0.4     | 0.6     | 1264.3           | 1107.3  | 1183.7  |
| 19  | 2.0  | MOREY         | 182.0      | 176.0 | 179.0 | 386.3                  | 730.0   | 634.8   | 140.0      | 148.0 | 144.0 | 1650.4                 | 1204.6  | 1469.8  | 2236.7           | 2034.7  | 2124.6  |
| 20  | 1.0  | S REVEILLE    | 176.0      | 180.0 | 178.0 | 0.1                    | 0.0     | 0.0     | 94.0       | 94.0  | 94.0  | 331.0                  | 331.0   | 331.0   | 331.1            | 331.1   | 331.1   |
| 21  | 2.0  | QUINN         | 144.0      | 160.0 | 152.0 | 2075.3                 | 1263.3  | 1630.0  | 88.0       | 104.0 | 96.0  | 9332.3                 | 4044.3  | 4761.8  | 7609.0           | 9308.0  | 6391.8  |
| 22  | 1.0  | WESPANPRO     | 110.0      | 124.0 | 117.0 | 123.4                  | 32.4    | 64.3    | 68.0       | 66.0  | 77.0  | 1847.2                 | 395.9   | 1084.4  | 1970.6           | 438.3   | 1148.9  |
| 23  | 1.0  | GRANT RD      | 128.0      | 142.0 | 135.0 | 21.3                   | 4.6     | 10.1    | 96.0       | 112.0 | 104.0 | 283.3                  | 72.9    | 147.3   | 304.9            | 77.3    | 137.7   |
| 24  | 1.0  | BLUE EAGLE    | 124.0      | 138.0 | 131.0 | 32.4                   | 7.2     | 15.6    | 110.0      | 132.0 | 121.0 | 87.4                   | 9.9     | 31.0    | 119.8            | 17.2    | 46.6    |
| 25  | 1.0  | RIDGEMAN M    | 124.0      | 138.0 | 131.0 | 32.4                   | 7.2     | 15.6    | 110.0      | 132.0 | 121.0 | 87.4                   | 9.9     | 31.0    | 119.8            | 17.2    | 46.6    |
| 26  | 2.0  | RUBY HTNS     | 190.0      | 204.0 | 197.0 | 432.8                  | 246.3   | 328.3   | 246.0      | 266.0 | 256.0 | 25.4                   | 8.9     | 13.2    | 458.1            | 235.4   | 343.3   |
| 27  | 1.0  | GOSMAECYN     | 146.0      | 152.0 | 149.0 | 2.9                    | 1.4     | 2.0     | 214.0      | 226.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 2.9              | 1.4     | 2.0     |
| 28  | 2.0  | SO EGAN       | 102.0      | 112.0 | 107.0 | 5956.6                 | 4788.1  | 5354.1  | 118.0      | 142.0 | 130.0 | 2945.3                 | 1938.1  | 2173.9  | 8901.9           | 6346.2  | 7328.0  |
| 29  | 1.0  | DELAWARETS    | 126.0      | 146.0 | 136.0 | 26.4                   | 2.9     | 9.1     | 12.0       | 34.0  | 23.0  | 11498.9                | 7607.9  | 9826.7  | 11323.3          | 7610.8  | 9828.8  |
| 30  | 1.0  | FORTIRANGE    | 76.0       | 84.0  | 80.0  | 1630.0                 | 966.7   | 1263.3  | 116.0      | 128.0 | 122.0 | 50.2                   | 13.2    | 28.0    | 1680.2           | 981.9   | 1291.3  |
| 31  | 2.0  | WHITE ROCK    | 56.0       | 64.0  | 60.0  | 12503.0                | 11338.1 | 11926.7 | 102.0      | 110.0 | 106.0 | 4318.1                 | 3547.8  | 3874.8  | 16723.1          | 14889.9 | 15801.3 |
| 32  | 2.0  | PARSHIP PK    | 68.0       | 86.0  | 77.0  | 10743.4                | 8096.3  | 9403.9  | 80.0       | 102.0 | 91.0  | 6346.9                 | 4218.1  | 5238.2  | 17090.3          | 12314.7 | 14642.6 |
| 33  | 1.0  | FAR S EGAN    | 100.0      | 108.0 | 104.0 | 290.7                  | 147.4   | 208.3   | 108.0      | 120.0 | 114.0 | 104.4                  | 34.2    | 60.6    | 395.1            | 181.6   | 268.9   |
| 34  | 1.0  | DNR           | 140.0      | 204.0 | 172.0 | 5.8                    | 0.0     | 0.1     | 2.0        | 4.0   | 3.0   | 12175.1                | 12113.6 | 12130.3 | 12180.9          | 12115.6 | 12150.4 |
| 35  | 1.0  | ARRON CYN     | 132.0      | 162.0 | 137.0 | 1.4                    | 0.4     | 0.7     | 2.0        | 8.0   | 3.0   | 12175.1                | 11880.4 | 12071.2 | 12176.3          | 11880.9 | 12071.9 |
| 36  | 3.0  | ZION MT       | 62.0       | 78.0  | 80.0  | 14466.0                | 11140.4 | 12882.6 | 102.0      | 128.0 | 113.0 | 7607.9                 | 5800.8  | 6494.3  | 23073.9          | 14941.1 | 19576.9 |
| 37  | 3.0  | CEDAR BRKS    | 52.0       | 56.0  | 54.0  | 15233.3                | 14938.0 | 15087.8 | 126.0      | 130.0 | 128.0 | 5935.9                 | 5666.6  | 5800.8  | 21149.3          | 20604.6 | 20888.3 |
| 38  | 2.0  | ASHDOWN       | 50.0       | 56.0  | 53.0  | 15375.1                | 14938.0 | 15161.2 | 124.0      | 130.0 | 127.0 | 6072.1                 | 5666.6  | 5868.2  | 21447.2          | 20604.6 | 21029.4 |
| 39  | 2.0  | RED CYN NO    | 36.0       | 60.0  | 38.0  | 12503.0                | 11926.7 | 12217.4 | 136.0      | 162.0 | 159.0 | 1017.9                 | 837.8   | 924.3   | 13522.9          | 12764.6 | 13141.8 |
| 40  | 3.0  | BRUCE CYN     | 70.0       | 78.0  | 74.0  | 13789.3                | 13066.6 | 13433.9 | 134.0      | 168.0 | 161.0 | 4159.8                 | 3390.7  | 3764.0  | 17949.3          | 16459.2 | 17197.9 |
| 41  | 1.0  | TABLE MTN     | 72.0       | 80.0  | 76.0  | 2075.3                 | 1263.3  | 1630.0  | 108.0      | 122.0 | 113.0 | 104.4                  | 28.0    | 35.2    | 2179.9           | 1291.3  | 1685.2  |
| 42  | 2.0  | JARBIDGE      | 260.0      | 272.0 | 266.0 | 17.4                   | 9.1     | 12.6    | 340.0      | 358.0 | 349.0 | 0.1                    | 0.0     | 0.0     | 17.3             | 9.1     | 12.7    |
| 43  | 2.0  | LONE PK       | 166.0      | 166.0 | 166.0 | 1034.9                 | 1034.9  | 1034.9  | 306.0      | 306.0 | 306.0 | 0.9                    | 0.9     | 0.9     | 1033.8           | 1033.8  | 1033.8  |
| 44  | 2.0  | MT GRAFTON    | 90.0       | 96.0  | 93.0  | 7533.3                 | 6724.3  | 7124.8  | 116.0      | 132.0 | 124.0 | 3089.4                 | 2060.7  | 2339.7  | 10624.7          | 8785.0  | 9664.3  |
| 45  | 2.0  | FARGOEGANS    | 104.0      | 112.0 | 108.0 | 5711.4                 | 4788.1  | 5237.9  | 112.0      | 120.0 | 116.0 | 3290.7                 | 2803.7  | 3089.4  | 9102.0           | 7593.7  | 8327.3  |
| 46  | 1.0  | SPAWRDCS      | 120.0      | 134.0 | 122.0 | 17.4                   | 11.3    | 14.0    | 44.0       | 56.0  | 50.0  | 5523.5                 | 3390.7  | 4393.7  | 5350.9           | 3402.0  | 4409.7  |
| 47  | 1.0  | EASTMANRAN    | 148.0      | 154.0 | 151.0 | 2.3                    | 1.1     | 1.6     | 36.0       | 42.0  | 39.0  | 7185.4                 | 5935.9  | 6554.9  | 7187.6           | 5937.0  | 6554.4  |
| 48  | 1.0  | MADSCARPS     | 142.0      | 148.0 | 145.0 | 4.6                    | 2.3     | 3.2     | 32.0       | 34.0  | 33.0  | 8029.1                 | 7607.9  | 7818.8  | 8033.6           | 7610.2  | 7822.1  |
| 49  | 1.0  | LOPAMRANK     | 142.0      | 148.0 | 145.0 | 4.6                    | 2.3     | 3.2     | 32.0       | 34.0  | 33.0  | 8029.1                 | 7607.9  | 7818.8  | 8033.6           | 7610.2  | 7822.1  |
| 50  | 1.0  | FWI22         | 146.0      | 180.0 | 163.0 | 2.9                    | 0.0     | 0.3     | 0.0        | 2.0   | 1.0   | 12193.0                | 12175.1 | 12190.0 | 12197.9          | 12175.1 | 12190.0 |
| 51  | 1.0  | GRPVINESPR    | 100.0      | 114.0 | 107.0 | 290.7                  | 85.4    | 160.9   | 44.0       | 56.0  | 50.0  | 5523.5                 | 3390.7  | 4393.7  | 5824.2           | 3476.2  | 4556.6  |
| 52  | 2.0  | MEADOW VAL    | 120.0      | 130.0 | 125.0 | 3962.0                 | 1733.4  | 2681.7  | 8.0        | 40.0  | 24.0  | 12113.6                | 10338.0 | 11498.9 | 16077.6          | 12091.6 | 14180.3 |
| 53  | 2.0  | MORRON HTS    | 120.0      | 140.0 | 130.0 | 3962.0                 | 2330.6  | 3069.9  | 20.0       | 40.0  | 30.0  | 11707.3                | 10358.0 | 11124.9 | 15669.2          | 12688.6 | 14194.8 |
| 54  | 1.0  | PENN CYN      | 144.0      | 144.0 | 144.0 | 3.6                    | 3.6     | 3.6     | 20.0       | 20.0  | 20.0  | 10358.0                | 10358.0 | 10358.0 | 10361.6          | 10361.6 | 10361.6 |
| 55  | 2.0  | GRAN SPR      | 88.0       | 96.0  | 92.0  | 7814.1                 | 6724.3  | 7260.6  | 188.0      | 192.0 | 190.0 | 331.0                  | 283.3   | 306.5   | 8143.1           | 7007.7  | 7567.0  |

COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON WILDERNESS AREAS

| NO. | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |         |         |
|-----|---------------|--------|-------------------------------------|---------|---------|---------|---------|---------|
|     |               |        | 0                                   | 1       | 2       | 3       | 4       | 5       |
| 1   | FISH SPR      | 1.0    | 303.8                               | 3.8     | 434.3   | 867.2   | 5.1     | 1242.9  |
| 2   | CONGER MT     | 2.0    | 8471.6                              | 3079.7  | 9784.3  | 13919.4 | 6398.3  | 20381.4 |
| 3   | DEEP CREEK    | 2.0    | 3420.6                              | 1250.6  | 4882.1  | 10437.1 | 1590.1  | 13313.1 |
| 4   | KING TOP      | 1.0    | 3104.0                              | 584.5   | 3303.9  | 2944.6  | 771.3   | 8897.4  |
| 5   | MAN MAN MT    | 1.0    | 7703.6                              | 2170.8  | 1374.1  | 3428.9  | 2864.7  | 10712.9 |
| 6   | NOTCH PK      | 1.0    | 3802.7                              | 183.7   | 3767.2  | 1228.2  | 242.3   | 9949.7  |
| 7   | HOMELL PK     | 1.0    | 2208.8                              | 76.7    | 6431.3  | 1224.3  | 101.3   | 4033.3  |
| 8   | SWASEY MT     | 1.0    | 1484.8                              | 29.5    | 7387.3  | 901.1   | 39.0    | 2818.4  |
| 9   | LTL SAHARA    | 1.0    | 259.3                               | 0.8     | 10813.1 | 9.5     | 1.1     | 350.1   |
| 10  | PINE VALLE    | 3.0    | 21027.7                             | 23198.3 | 16036.3 | 21677.3 | 24674.8 | 18784.4 |
| 11  | ARC DOME      | 2.0    | 464.1                               | 305.9   | 398.4   | 2271.8  | 433.1   | 2216.4  |
| 12  | ROBERTS MT    | 1.0    | 0.0                                 | 0.0     | 0.0     | 565.8   | 0.0     | 565.8   |
| 13  | RAMHIDE       | 1.0    | 14.5                                | 13.0    | 14.5    | 86.3    | 11.8    | 85.7    |
| 14  | KAMICH        | 2.0    | 4343.2                              | 3416.9  | 4285.9  | 4321.4  | 4792.4  | 3167.2  |
| 15  | ANTELOPE      | 1.0    | 0.3                                 | 0.3     | 0.3     | 633.3   | 0.3     | 633.3   |
| 16  | PALISADE M    | 1.0    | 36.9                                | 42.8    | 36.7    | 397.4   | 36.0    | 389.7   |
| 17  | THE WALL      | 1.0    | 36.9                                | 42.8    | 36.7    | 397.4   | 36.0    | 389.7   |
| 18  | PARK RANGE    | 1.0    | 898.8                               | 1.1     | 0.8     | 986.2   | 1.1     | 2168.8  |
| 19  | MOREY         | 2.0    | 2421.4                              | 2962.0  | 2070.0  | 7532.6  | 2829.6  | 6817.7  |
| 20  | S REVEILLE    | 1.0    | 433.5                               | 439.3   | 433.4   | 329.0   | 34.4    | 321.1   |
| 21  | QUINN         | 2.0    | 7471.8                              | 9721.9  | 6328.3  | 10539.6 | 9263.6  | 7565.7  |
| 22  | WEEPANSPRO    | 1.0    | 1448.8                              | 2561.0  | 1419.9  | 1995.1  | 2591.0  | 553.0   |
| 23  | GRANT RG      | 1.0    | 200.9                               | 303.0   | 1072.3  | 1342.4  | 292.3   | 1207.7  |
| 24  | BLUE EAGLE    | 1.0    | 52.4                                | 124.3   | 40.7    | 3575.9  | 141.9   | 3480.7  |
| 25  | RIORDANS W    | 1.0    | 52.4                                | 124.3   | 40.7    | 3575.9  | 141.9   | 3480.7  |
| 26  | RUBY MTS      | 2.0    | 269.1                               | 116.1   | 420.9   | 6062.7  | 142.1   | 6264.0  |
| 27  | GOSHUECYN     | 1.0    | 1.5                                 | 0.1     | 13.4    | 4758.3  | 0.1     | 4760.2  |
| 28  | SO EGAN       | 2.0    | 6910.2                              | 7567.2  | 4751.1  | 18613.7 | 8406.3  | 17735.3 |
| 29  | DELAHARMTS    | 1.0    | 12873.1                             | 13937.3 | 12864.2 | 1417.3  | 11241.0 | 12.1    |
| 30  | FORTIRANGE    | 1.0    | 793.7                               | 1409.7  | 79.0    | 4176.4  | 1840.6  | 5627.3  |
| 31  | WHITE ROCK    | 2.0    | 14125.9                             | 15884.3 | 8068.7  | 22974.2 | 18147.2 | 20428.6 |
| 32  | PARSHIP PK    | 2.0    | 13994.5                             | 17296.9 | 9108.6  | 20444.1 | 19018.5 | 14442.4 |
| 33  | FAR S EGAN    | 1.0    | 337.5                               | 463.7   | 82.6    | 4945.3  | 822.0   | 4382.2  |
| 34  | DNMR          | 1.0    | 15908.5                             | 15972.2 | 15908.5 | 84.3    | 12234.3 | 0.2     |
| 35  | ARROW CYN     | 1.0    | 13805.3                             | 16180.9 | 15804.9 | 496.4   | 12367.6 | 0.8     |
| 36  | ZION NP       | 3.0    | 18543.0                             | 20274.8 | 13762.7 | 18945.4 | 21889.3 | 16632.0 |
| 37  | CEDAR BRKS    | 3.0    | 19046.8                             | 19254.6 | 14233.2 | 20017.2 | 21193.4 | 19712.4 |
| 38  | ASHDOWN       | 3.0    | 19190.9                             | 19485.0 | 13816.0 | 20406.0 | 21448.4 | 19984.9 |
| 39  | RED CYN NO    | 2.0    | 10483.5                             | 8550.1  | 4927.2  | 17524.4 | 10614.2 | 20032.0 |
| 40  | RYCE CYN      | 3.0    | 13124.7                             | 16343.7 | 11310.3 | 18373.0 | 19098.4 | 16472.3 |
| 41  | TABLE MTN     | 1.0    | 1309.3                              | 3024.9  | 110.6   | 5953.0  | 3953.2  | 3685.0  |
| 42  | JARIBIDGE     | 2.0    | 9.6                                 | 2.3     | 81.8    | 369.0   | 3.2     | 578.4   |
| 43  | LORE PK       | 2.0    | 786.6                               | 126.4   | 3533.3  | 272.8   | 166.2   | 1142.4  |
| 44  | MT GRAFTON    | 2.0    | 8733.1                              | 9372.2  | 5963.3  | 20022.2 | 10786.7 | 18899.9 |
| 45  | FARBOEGANS    | 2.0    | 8020.4                              | 9455.9  | 5845.6  | 18030.9 | 10232.7 | 16125.3 |
| 46  | SOPAHROCS     | 1.0    | 5765.9                              | 6580.3  | 5735.3  | 1113.5  | 5484.8  | 38.4    |
| 47  | EASTPAHRAN    | 1.0    | 8583.3                              | 8880.7  | 8582.4  | 397.3   | 6748.7  | 5.0     |
| 48  | HADSCARPS     | 1.0    | 10239.7                             | 10385.7 | 10237.3 | 463.3   | 8278.8  | 6.6     |
| 49  | LOPAHRANKL    | 1.0    | 10239.7                             | 10385.7 | 10237.3 | 463.3   | 8278.8  | 6.6     |
| 50  | FW123         | 1.0    | 15960.7                             | 16115.8 | 15960.3 | 203.0   | 12399.0 | 0.4     |
| 51  | GRPVINESPR    | 1.0    | 5877.4                              | 10944.7 | 5753.3  | 7863.0  | 11272.9 | 1146.6  |
| 52  | MEADOW VAL    | 2.0    | 17091.0                             | 22393.3 | 13296.1 | 10742.3 | 21188.7 | 3734.3  |
| 53  | MORNON MTS    | 2.0    | 16896.0                             | 22393.2 | 14804.3 | 11262.1 | 21401.4 | 4053.6  |
| 54  | PENN CYN      | 1.0    | 13564.6                             | 14103.9 | 13561.8 | 719.4   | 11076.2 | 4.8     |
| 55  | GRAN SPR      | 2.0    | 5912.1                              | 3211.6  | 6832.3  | 15795.7 | 4016.6  | 19346.1 |

WILDERNESS AREAS RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0              | ALT 1              | ALT 2              | ALT 3              | ALT 4              | ALT 5              | ALT 6              |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX     |
| PINE VALLE 21027.7 | PINE VALLE 23198.3 | PINE VALLE 16036.3 | WHITE ROCK 22974.2 | PINE VALLE 24674.8 | WHITE ROCK 20428.6 | PINE VALLE 21781.7 |
| ASHDOWN 19190.9    | MEADOW VAL 22393.3 | FW123 15960.3      | PINE VALLE 21677.3 | ZION NP 21889.3    | CONGER MT 20381.4  | ASHDOWN 21027.4    |
| CEDAR BRKS 19046.8 | MORNON MTS 22350.2 | DNMR 15908.5       | PARSHIP PK 20444.1 | ASHDOWN 21448.4    | RED CYN NO 20032.0 | CEDAR BRKS 20888.3 |
| ZION NP 18543.0    | ZION NP 20274.8    | ARROW CYN 15804.9  | ASHDOWN 20406.0    | MORNON MTS 21401.4 | ASHDOWN 19984.9    | ZION NP 17974.9    |
| MEADOW VAL 17091.0 | ASHDOWN 19485.0    | MEADOW VAL 13296.1 | MT GRAFTON 20022.2 | CEDAR BRKS 21193.4 | CEDAR BRKS 19712.4 | RYCE CYN 17197.9   |
| MORNON MTS 16896.0 | CEDAR BRKS 19254.6 | MORNON MTS 14804.3 | CEDAR BRKS 20017.2 | MEADOW VAL 21188.7 | GRAN SPR 19346.1   | WHITE ROCK 15801.3 |
| FW123 15960.7      | PARSHIP PK 17296.9 | CEDAR BRKS 14253.2 | ZION NP 18945.4    | RYCE CYN 19098.4   | MT GRAFTON 18899.9 | PARSHIP PK 14642.4 |
| DNMR 15908.5       | RYCE CYN 16343.7   | ASHDOWN 13816.0    | SO EGAN 18613.7    | PARSHIP PK 19018.5 | PINE VALLE 18784.4 | MORNON MTS 14194.8 |
| ARROW CYN 15805.3  | ARROW CYN 16180.9  | ZION NP 13762.7    | RYCE CYN 18373.0   | WHITE ROCK 18147.2 | SO EGAN 17735.3    | MEADOW VAL 14180.3 |
| RYCE CYN 15124.7   | FW123 16115.8      | PENN CYN 13561.8   | FARBOEGANS 18030.9 | ARROW CYN 12367.6  | ZION NP 16633.0    | RED CYN NO 13141.8 |
| WHITE ROCK 14125.9 | DNMR 15972.2       | DELAHARMTS 12864.2 | RED CYN NO 17524.4 | FW123 12399.0      | RYCE CYN 16472.3   | FW123 12190.4      |
| PARSHIP PK 13994.5 | WHITE ROCK 15884.3 | RYCE CYN 11310.3   | CONGER MT 15919.4  | DNMR 12234.3       | PARSHIP PK 16368.0 | DNMR 12130.4       |
| PENN CYN 13564.6   | PENN CYN 14103.9   | LTL SAHARA 10813.1 | GRAN SPR 15795.7   | GRPVINESPR 11272.9 | FARBOEGANS 16125.3 | ARROW CYN 12071.9  |
| DELAHARMTS 12873.1 | DELAHARMTS 13937.3 | HADSCARPS 10237.3  | MORNON MTS 11262.1 | DELAHARMTS 11241.0 | DEEP CREEK 13313.1 | CONGER MT 10860.3  |
| RED CYN NO 10483.5 | GRPVINESPR 10944.7 | HADSCARPS 10237.3  | MEADOW VAL 10742.3 | PENN CYN 11076.2   | MAN MAN MT 10712.9 | PENN CYN 10361.6   |
| HADSCARPS 10239.7  | HADSCARPS 10585.7  |                    | QUINN 10539.6      | MT GRAFTON 10786.7 |                    | MAN MAN MT 10148.3 |
|                    |                    |                    | DEEP CREEK 10457.1 | RED CYN NO 10614.2 |                    |                    |
|                    |                    |                    |                    | FARBOEGANS 10232.7 |                    |                    |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for 55 wilderness areas.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 2        | Coyote Delta   | 6,158                                   | 5,495                         | 741                       | 1                               |
| 2            | 6        | Milford Coyote | 6,477                                   | 6,502                         | 877                       | 2                               |
| 3            | 5        | Milford Ely    | 6,484                                   | 7,370                         | 994                       | 3                               |
| 4            | 0        | Coyote Milford | 6,625                                   | 6,634                         | 894                       | 4                               |
| 5            | 4        | Beryl Coyote   | 6,762                                   | 7,597                         | 1,024                     | 5                               |
| 6            | 3        | Beryl Ely      | 6,768                                   | 7,609                         | 1,026                     | 6                               |
| 7            | 1        | Coyote Beryl   | 6,835                                   | 7,575                         | 1,021                     | 7                               |

3960

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

## EFFECT INDEX OF SAVING ALTERNATIVES ON SIGNIF. NATURAL AREAS

ALTERNATIVE NO. 0  
 BASE A: COVOTE LONG TERM POP. 13967.0  
 BASE B: MILFORD LONG TERM POP. 13071.0

| NO. | LOCATION<br>APPL. NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------------------------|------------|-------|-------|------------------------|--------|--------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |                        | N          | F     | AVE   | MAX                    | MIN    | AVE    | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 2.0 WHEELER PK         | 132.0      | 144.0 | 138.0 | 2498.1                 | 1924.4 | 2287.0 | 63.0       | 75.0  | 69.0  | 8718.1                 | 7362.4  | 8041.2  | 11416.2          | 9287.0  | 10328.3 |
| 2   | 3.0 LEHMAN CAV         | 140.0      | 140.0 | 140.0 | 4364.2                 | 4364.2 | 4364.2 | 75.0       | 75.0  | 75.0  | 10127.9                | 10127.9 | 10127.9 | 14492.1          | 14492.1 | 14492.1 |
| 3   | 1.0 SANDY CAVE         | 196.0      | 196.0 | 196.0 | 0.0                    | 0.0    | 0.0    | 83.0       | 83.0  | 83.0  | 484.8                  | 484.8   | 484.8   | 484.8            | 484.8   | 484.8   |
| 4   | 2.0 G B N P            | 132.0      | 140.0 | 140.0 | 2498.1                 | 1171.3 | 1813.8 | 79.0       | 66.0  | 72.3  | 6714.1                 | 8380.3  | 7444.9  | 9412.2           | 9552.0  | 9458.7  |
| 5   | 2.0 LEX ARCH           | 132.0      | 132.0 | 132.0 | 2498.1                 | 2498.1 | 2498.1 | 63.0       | 63.0  | 63.0  | 8718.1                 | 8718.1  | 8718.1  | 11416.2          | 11416.2 | 11416.2 |
| 6   | 1.0 DRES               | 140.0      | 132.0 | 144.0 | 3.4                    | 1.3    | 2.7    | 43.0       | 43.0  | 43.0  | 6143.4                 | 6143.4  | 6143.4  | 6150.7           | 6146.7  | 6148.0  |
| 7   | 1.0 FISH SPR           | 224.0      | 230.0 | 227.0 | 0.0                    | 0.0    | 0.0    | 108.0      | 114.0 | 111.0 | 111.9                  | 63.0    | 63.4    | 111.9            | 63.0    | 85.4    |
| 8   | 1.0 PUM BUTTE          | 219.0      | 219.0 | 219.0 | 0.0                    | 0.0    | 0.0    | 83.0       | 83.0  | 83.0  | 484.8                  | 484.8   | 484.8   | 484.8            | 484.8   | 484.8   |
| 9   | 1.0 TOPAZ              | 213.0      | 213.0 | 213.0 | 0.0                    | 0.0    | 0.0    | 83.0       | 89.0  | 87.0  | 484.8                  | 315.3   | 393.1   | 484.8            | 315.3   | 593.1   |
| 10  | 1.0 CLEAR LAKE         | 199.0      | 207.0 | 203.0 | 0.0                    | 0.0    | 0.0    | 63.0       | 71.0  | 67.0  | 2586.7                 | 1670.0  | 2092.1  | 2586.7           | 1670.0  | 2092.1  |
| 11  | 1.0 DEER HAS A         | 203.0      | 219.0 | 211.0 | 0.0                    | 0.0    | 0.0    | 67.0       | 82.0  | 75.0  | 2092.1                 | 783.3   | 1315.8  | 2092.1           | 783.3   | 1315.8  |
| 12  | 2.0 ANT SPR TR         | 204.0      | 212.0 | 208.0 | 228.3                  | 162.7  | 193.2  | 73.0       | 81.0  | 77.0  | 7508.4                 | 4492.0  | 7137.7  | 7816.9           | 4884.7  | 7230.9  |
| 13  | 1.0 STEAMBOAT          | 112.0      | 112.0 | 112.0 | 93.4                   | 93.4   | 93.4   | 48.0       | 48.0  | 48.0  | 5103.8                 | 5103.8  | 5103.8  | 5199.2           | 5199.2  | 5199.2  |
| 14  | 3.0 CEDAR BRNS         | 132.0      | 132.0 | 132.0 | 7243.1                 | 7243.1 | 7243.1 | 36.0       | 36.0  | 36.0  | 11338.2                | 11338.2 | 11338.2 | 18583.2          | 18583.2 | 18583.2 |
| 15  | 3.0 BRYCE CYN          | 154.0      | 172.0 | 164.0 | 3293.3                 | 4173.9 | 4715.0 | 72.0       | 80.0  | 76.0  | 10332.3                | 9778.1  | 10058.6 | 13428.0          | 13952.0 | 14773.8 |
| 16  | 1.0 DEER HAS B         | 128.0      | 144.0 | 136.0 | 19.9                   | 3.4    | 8.4    | 46.0       | 46.0  | 46.0  | 3910.9                 | 3910.9  | 3910.9  | 3910.9           | 3910.9  | 3910.9  |
| 17  | 3.0 ZION NP            | 104.0      | 120.0 | 113.0 | 9992.2                 | 8310.0 | 8948.0 | 36.0       | 88.0  | 72.0  | 11338.2                | 9199.9  | 10332.3 | 20930.4          | 17509.9 | 19280.3 |
| 18  | 2.0 RED MTNS           | 72.0       | 80.0  | 76.0  | 9407.9                 | 8310.0 | 8856.4 | 90.0       | 95.0  | 92.3  | 3719.4                 | 3204.3  | 3459.2  | 15127.3          | 13214.3 | 14315.4 |
| 19  | 1.0 JOSEPH TR          | 64.0       | 64.0  | 64.0  | 3000.2                 | 3000.2 | 3000.2 | 108.0      | 108.0 | 108.0 | 111.9                  | 111.9   | 111.9   | 3112.1           | 3112.1  | 3112.1  |
| 20  | 1.0 DEER HAS C         | 68.0       | 84.0  | 76.0  | 2418.6                 | 896.3  | 1311.3 | 80.0       | 96.0  | 88.0  | 939.0                  | 303.8   | 354.1   | 3277.6           | 1200.1  | 2063.4  |
| 21  | 1.0 RIP ARCH           | 70.0       | 70.0  | 70.0  | 2160.9                 | 2160.9 | 2160.9 | 92.0       | 92.0  | 92.0  | 413.0                  | 413.0   | 413.0   | 2573.9           | 2573.9  | 2573.9  |
| 22  | 2.0 RUBY MTNS          | 232.0      | 248.0 | 240.0 | 24.3                   | 10.3   | 16.1   | 196.0      | 204.0 | 200.0 | 239.3                  | 187.1   | 220.6   | 283.8            | 197.4   | 236.8   |
| 23  | 3.0 RUBY LAKE          | 232.0      | 248.0 | 240.0 | 1390.3                 | 981.4  | 1171.3 | 176.0      | 184.0 | 180.0 | 3207.8                 | 2813.0  | 3007.2  | 4598.1           | 3796.4  | 4176.7  |
| 24  | 1.0 FRANKA LA          | 248.0      | 232.0 | 230.0 | 0.0                    | 0.0    | 0.0    | 184.0      | 190.0 | 187.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 25  | 1.0 IND PEAK           | 112.0      | 118.0 | 115.0 | 93.4                   | 34.3   | 72.3   | 36.0       | 40.0  | 38.0  | 7701.3                 | 6802.8  | 7250.0  | 7794.9           | 6857.1  | 7322.3  |
| 26  | 1.0 LUNA CRATER        | 120.0      | 120.0 | 120.0 | 44.7                   | 44.7   | 44.7   | 164.0      | 164.0 | 164.0 | 0.2                    | 0.2     | 0.2     | 44.9             | 44.9    | 44.9    |
| 27  | 1.0 HICKS STM          | 154.0      | 154.0 | 154.0 | 0.8                    | 0.8    | 0.8    | 174.0      | 174.0 | 174.0 | 0.0                    | 0.0     | 0.0     | 0.8              | 0.8     | 0.8     |
| 28  | 2.0 MOREY PK           | 140.0      | 148.0 | 144.0 | 2160.9                 | 1708.2 | 1924.4 | 174.0      | 180.0 | 177.0 | 393.1                  | 479.2   | 324.5   | 2736.0           | 2187.3  | 2436.9  |
| 29  | 1.0 NV LN ROE          | 80.0       | 100.0 | 90.0  | 1171.3                 | 269.3  | 383.3  | 168.0      | 184.0 | 174.0 | 0.1                    | 0.0     | 0.0     | 1171.4           | 269.3   | 383.4   |
| 30  | 2.0 ARC DONE           | 192.0      | 192.0 | 192.0 | 371.2                  | 371.2  | 371.2  | 232.0      | 232.0 | 232.0 | 33.8                   | 33.8    | 33.8    | 423.0            | 423.0   | 423.0   |
| 31  | 2.0 ICHTHY SITE        | 204.0      | 204.0 | 204.0 | 228.3                  | 228.3  | 228.3  | 232.0      | 232.0 | 232.0 | 30.0                   | 30.0    | 30.0    | 248.4            | 248.4   | 248.4   |
| 32  | 1.0 RSTS MTNS          | 214.0      | 224.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 198.0      | 212.0 | 203.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 33  | 2.0 DIA PUNCH          | 186.0      | 186.0 | 186.0 | 467.8                  | 467.8  | 467.8  | 208.0      | 208.0 | 208.0 | 138.1                  | 138.1   | 138.1   | 624.0            | 624.0   | 624.0   |
| 34  | 1.0 GOLD JOSH          | 140.0      | 140.0 | 140.0 | 3.4                    | 3.4    | 3.4    | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 3.4              | 3.4     | 3.4     |
| 35  | 3.0 DEATH VAL          | 112.0      | 124.0 | 118.0 | 9039.8                 | 7930.2 | 8491.4 | 236.0      | 248.0 | 242.0 | 1043.3                 | 803.4   | 918.0   | 10083.3          | 8732.6  | 9409.4  |
| 36  | 2.0 WHITE MTN          | 198.0      | 204.0 | 198.0 | 371.2                  | 228.3  | 292.3  | 288.0      | 296.0 | 292.0 | 2.8                    | 1.7     | 2.2     | 373.9            | 230.3   | 294.3   |
| 37  | 1.0 MTY CRN RO         | 124.0      | 148.0 | 136.0 | 30.0                   | 2.1    | 8.4    | 176.0      | 192.0 | 184.0 | 0.0                    | 0.0     | 0.0     | 30.1             | 2.1     | 8.4     |
| 38  | 1.0 SARGOL FLT         | 114.0      | 124.0 | 119.0 | 79.2                   | 24.3   | 44.7   | 232.0      | 240.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 79.2             | 24.3    | 44.7    |
| 39  | 2.0 DTH VAL DV         | 132.0      | 138.0 | 135.0 | 1511.3                 | 1250.0 | 1373.7 | 260.0      | 268.0 | 264.0 | 13.2                   | 6.4     | 10.7    | 1524.3           | 1258.4  | 1386.4  |
| 40  | 1.0 LEV CAVE           | 72.0       | 72.0  | 72.0  | 1924.4                 | 1924.4 | 1924.4 | 148.0      | 148.0 | 148.0 | 1.7                    | 1.7     | 1.7     | 1924.1           | 1924.1  | 1924.1  |
| 41  | 2.0 TROY PEAK          | 92.0       | 112.0 | 102.0 | 4731.9                 | 4439.4 | 4532.8 | 136.0      | 144.0 | 140.0 | 1779.9                 | 1373.4  | 1749.0  | 8711.8           | 6014.8  | 7291.8  |
| 42  | 2.0 RR VAL WMA         | 120.0      | 124.0 | 122.0 | 3473.3                 | 3223.2 | 2494.3 | 140.0      | 132.0 | 144.0 | 1749.0                 | 1237.2  | 1484.8  | 3442.4           | 4364.2  | 4981.3  |
| 43  | 1.0 LOCKES RCH         | 128.0      | 128.0 | 128.0 | 19.9                   | 19.9   | 19.9   | 132.0      | 132.0 | 132.0 | 1.0                    | 1.0     | 1.0     | 21.0             | 21.0    | 21.0    |
| 44  | 1.0 DUCK M20           | 148.0      | 148.0 | 148.0 | 2.1                    | 2.1    | 2.1    | 132.0      | 132.0 | 132.0 | 1.0                    | 1.0     | 1.0     | 3.1              | 3.1     | 3.1     |
| 45  | 1.0 HEUSSER MT         | 184.0      | 184.0 | 184.0 | 0.0                    | 0.0    | 0.0    | 136.0      | 136.0 | 136.0 | 6.9                    | 6.9     | 6.9     | 6.9              | 6.9     | 6.9     |
| 46  | 1.0 WILD GRAMS         | 200.0      | 200.0 | 200.0 | 0.0                    | 0.0    | 0.0    | 232.0      | 232.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 47  | 1.0 MT JEFF            | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 216.0      | 216.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 0.1              | 0.1     | 0.1     |
| 48  | 1.0 GOSH CAVE          | 224.0      | 224.0 | 224.0 | 0.0                    | 0.0    | 0.0    | 148.0      | 148.0 | 148.0 | 1.0                    | 1.0     | 1.0     | 1.0              | 1.0     | 1.0     |
| 49  | 1.0 GOSH CYN           | 220.0      | 220.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 148.0      | 148.0 | 148.0 | 1.7                    | 1.7     | 1.7     | 1.7              | 1.7     | 1.7     |
| 50  | 1.0 MERC SAP           | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 132.0      | 132.0 | 132.0 | 10.7                   | 10.7    | 10.7    | 10.7             | 10.7    | 10.7    |
| 51  | 2.0 MT GRAFTON         | 116.0      | 132.0 | 124.0 | 4044.9                 | 2498.1 | 3323.2 | 90.0       | 96.0  | 93.0  | 3719.4                 | 3102.8  | 3407.8  | 9764.2           | 7802.0  | 8723.1  |
| 52  | 1.0 WHPL CAVE          | 116.0      | 116.0 | 116.0 | 63.8                   | 63.8   | 63.8   | 104.0      | 104.0 | 104.0 | 138.1                  | 138.1   | 138.1   | 223.9            | 223.9   | 223.9   |
| 53  | 2.0 HILND RND          | 68.0       | 76.0  | 72.0  | 9961.1                 | 8836.4 | 9407.9 | 90.0       | 96.0  | 93.0  | 3719.4                 | 3102.8  | 3407.8  | 13680.3          | 13940.2 | 14813.7 |
| 54  | 2.0 MT MORIAM          | 142.0      | 180.0 | 171.0 | 1097.0                 | 583.3  | 808.0  | 80.0       | 84.0  | 88.0  | 4802.8                 | 3102.8  | 3407.8  | 7899.8           | 5689.1  | 6738.9  |
| 55  | 1.0 SHMP CEDAR         | 138.0      | 144.0 | 142.0 | 6.7                    | 2.7    | 4.3    | 84.0       | 84.0  | 84.0  | 733.7                  | 733.7   | 733.7   | 740.3            | 734.4   | 738.0   |
| 56  | 1.0 SPR VAL FL         | 132.0      | 134.0 | 133.0 | 1.3                    | 1.0    | 1.1    | 94.0       | 98.0  | 96.0  | 384.8                  | 339.3   | 303.8   | 356.1            | 260.3   | 305.0   |
| 57  | 1.0 SHOS PYGMY         | 152.0      | 152.0 | 152.0 | 1.3                    | 1.3    | 1.3    | 92.0       | 92.0  | 92.0  | 413.0                  | 413.0   | 413.0   | 414.3            | 414.3   | 414.3   |
| 58  | 1.0 SPR VAL SW         | 140.0      | 144.0 | 142.0 | 3.4                    | 3.4    | 3.4    | 82.0       | 82.0  | 82.0  | 840.2                  | 840.2   | 840.2   | 843.4            | 843.4   | 843.4   |
| 59  | 1.0 SHOS PONDS         | 144.0      | 144.0 | 144.0 | 3.4                    | 3.4    | 3.4    | 84.0       | 84.0  | 84.0  | 733.7                  | 733.7   | 733.7   | 737.1            | 737.1   | 737.1   |
| 60  | 2.0 GLEASH CYN         | 76.0       | 84.0  | 80.0  | 8836.4                 | 7772.0 | 8310.0 | 72.0       | 78.0  | 75.0  | 7701.3                 | 7023.7  | 7362.4  | 16357.9          | 14797.7 | 15472.7 |
| 61  | 1.0 BIG SPRG           | 76.0       | 76.0  | 76.0  | 1311.3                 | 1311.3 | 1311.3 | 76.0       | 76.0  | 76.0  | 1237.2                 | 1237.2  | 1237.2  | 2748.3           | 2748.3  | 2748.3  |
| 62  | 2.0 CATH GORGE         | 72.0       | 72.0  | 72.0  | 9407.9                 | 9407.9 | 9407.9 | 88.0       | 88.0  | 88.0  | 3931.0                 | 3931.0  | 3931.0  | 15338.8          | 15338.8 | 15338.8 |
| 63  | 1.0 PR BIG SPR         | 142.0      | 142.0 | 142.0 | 4.3                    | 4.3    | 4.3    | 120.0      | 120.0 | 120.0 | 36.6                   | 36.6    | 36.6    | 40.9             | 40.9    | 40.9    |
| 64  | 1.0 MOR SPR FS         | 120.0      | 120.0 | 120.0 | 44.7                   | 44.7   | 44.7   | 118.0      | 118.0 | 118.0 | 44.3                   | 44.3    | 44.3    | 89.2             | 89.2    | 89.2    |
| 6   |                        |            |       |       |                        |        |        |            |       |       |                        |         |         |                  |         |         |

## EFFECT INDEX OF BASING ALTERNATIVES ON SIGNIF. NATURAL AREAS

ALTERNATIVE NO. 1  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: BERYL LONG TERM POP. 12834.0

| NO. | LOCATION<br>APPL NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|-----------------------|------------|-------|-------|------------------------|--------|--------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |                       | N          | F     | AVE   | MAX                    | MIN    | AVE    | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 2.0 WHEELER PAV       | 132.0      | 144.0 | 138.0 | 2698.1                 | 1924.4 | 2287.0 | 71.0       | 83.0  | 77.0  | 7673.0                 | 6354.3  | 7008.3  | 10371.2          | 8278.7  | 9293.4  |
| 2   | 3.0 LEHMAN CAV        | 140.0      | 140.0 | 140.0 | 6364.2                 | 6364.2 | 6364.2 | 83.0       | 83.0  | 83.0  | 9390.2                 | 9390.2  | 9390.2  | 15954.3          | 15954.3 | 15954.3 |
| 3   | 1.0 GANDY CAVE        | 196.0      | 196.0 | 196.0 | 0.0                    | 0.0    | 0.0    | 107.0      | 107.0 | 107.0 | 119.9                  | 119.9   | 119.9   | 119.9            | 119.9   | 119.9   |
| 4   | 2.0 G B N P           | 132.0      | 140.0 | 146.0 | 2698.1                 | 1171.5 | 1813.8 | 83.0       | 123.0 | 103.0 | 6354.3                 | 2741.0  | 4347.3  | 9032.5           | 2912.5  | 4161.1  |
| 5   | 3.0 LEX ARCH          | 132.0      | 132.0 | 132.0 | 2698.1                 | 2698.1 | 2698.1 | 71.0       | 71.0  | 71.0  | 7673.0                 | 7673.0  | 7673.0  | 10371.2          | 10371.2 | 10371.2 |
| 6   | 4.0 DRES              | 140.0      | 152.0 | 146.0 | 3.4                    | 1.3    | 2.7    | 51.0       | 51.0  | 51.0  | 4439.2                 | 4439.2  | 4439.2  | 4444.5           | 4444.4  | 4441.8  |
| 7   | 1.0 FISH SPR          | 224.0      | 230.0 | 227.0 | 0.0                    | 0.0    | 0.0    | 134.0      | 140.0 | 137.0 | 8.4                    | 4.3     | 6.0     | 8.4              | 4.3     | 6.0     |
| 8   | 1.0 FUM BUTTE         | 219.0      | 219.0 | 219.0 | 0.0                    | 0.0    | 0.0    | 122.0      | 122.0 | 122.0 | 29.5                   | 29.5    | 29.5    | 29.5             | 29.5    | 29.5    |
| 9   | 1.0 TOPAZ             | 215.0      | 213.0 | 214.0 | 0.0                    | 0.0    | 0.0    | 116.0      | 122.0 | 119.0 | 32.9                   | 29.5    | 29.5    | 32.9             | 29.5    | 29.5    |
| 10  | 1.0 CLEAR LAKE        | 199.0      | 207.0 | 203.0 | 0.0                    | 0.0    | 0.0    | 100.0      | 108.0 | 104.0 | 216.4                  | 109.8   | 135.3   | 216.4            | 109.8   | 135.3   |
| 11  | 1.0 DEER HAS A        | 203.0      | 219.0 | 211.0 | 0.0                    | 0.0    | 0.0    | 104.0      | 120.0 | 112.0 | 135.3                  | 36.0    | 76.7    | 135.3            | 36.0    | 76.7    |
| 12  | 2.0 ANT SPR TR        | 204.0      | 212.0 | 208.0 | 228.5                  | 162.7  | 193.2  | 104.0      | 112.0 | 108.0 | 4256.4                 | 3568.3  | 3903.6  | 4485.0           | 3731.1  | 4096.8  |
| 13  | 1.0 STEAMBOAT         | 112.0      | 112.0 | 112.0 | 93.4                   | 93.4   | 93.4   | 24.0       | 24.0  | 24.0  | 10145.2                | 10145.2 | 10145.2 | 10240.6          | 10240.6 | 10240.6 |
| 14  | 3.0 CEDAR BRKS        | 132.0      | 132.0 | 132.0 | 7245.1                 | 7245.1 | 7245.1 | 48.0       | 48.0  | 48.0  | 11560.7                | 11560.7 | 11560.7 | 18803.7          | 18803.7 | 18803.7 |
| 15  | 3.0 BRUCE CYN         | 136.0      | 172.0 | 154.0 | 3293.5                 | 4173.9 | 4713.0 | 80.0       | 86.0  | 86.0  | 9603.8                 | 9319.4  | 14896.3 | 13207.0          | 14034.4 | 14034.4 |
| 16  | 1.0 DEER HAS B        | 128.0      | 144.0 | 136.0 | 19.9                   | 3.4    | 8.4    | 40.0       | 46.0  | 43.0  | 4679.5                 | 3410.9  | 4034.0  | 4699.4           | 3414.3  | 4042.4  |
| 17  | 3.0 ZION NP           | 106.0      | 120.0 | 113.0 | 9592.2                 | 8310.0 | 8948.0 | 32.0       | 40.0  | 46.0  | 12251.6                | 10900.8 | 11659.7 | 21843.9          | 19210.8 | 20607.7 |
| 18  | 2.0 RED MTNS          | 72.0       | 80.0  | 76.0  | 9407.9                 | 8310.0 | 8856.4 | 32.0       | 38.0  | 35.0  | 11560.7                | 11075.7 | 11326.0 | 20768.5          | 19385.7 | 20182.3 |
| 19  | 1.0 JOSHUA TR         | 64.0       | 64.0  | 64.0  | 3000.2                 | 3000.2 | 3000.2 | 48.0       | 48.0  | 48.0  | 3011.3                 | 3011.3  | 3011.3  | 8011.5           | 8011.5  | 8011.5  |
| 20  | 1.0 DEER HAS C        | 68.0       | 84.0  | 76.0  | 2418.6                 | 896.3  | 1511.3 | 24.0       | 32.0  | 28.0  | 10145.2                | 8449.8  | 9319.4  | 12563.7          | 9346.1  | 10820.7 |
| 21  | 1.0 RIP ARCH          | 70.0       | 70.0  | 70.0  | 2160.9                 | 2160.9 | 2160.9 | 30.0       | 30.0  | 30.0  | 8888.4                 | 8888.4  | 8888.4  | 11049.3          | 11049.3 | 11049.3 |
| 22  | 2.0 RUBY MTNS         | 252.0      | 268.0 | 260.0 | 24.5                   | 10.5   | 16.1   | 208.0      | 224.0 | 216.0 | 135.3                  | 76.7    | 109.8   | 179.8            | 87.2    | 126.0   |
| 23  | 3.0 RUBY LAKE         | 232.0      | 248.0 | 240.0 | 1390.3                 | 981.4  | 1171.5 | 188.0      | 196.0 | 192.0 | 2582.6                 | 2247.6  | 2411.5  | 3973.9           | 3229.0  | 3583.0  |
| 24  | 1.0 FRANK LA          | 248.0      | 252.0 | 250.0 | 0.0                    | 0.0    | 0.0    | 202.0      | 208.0 | 205.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 25  | 1.0 IND PEAK          | 112.0      | 118.0 | 115.0 | 93.4                   | 34.3   | 72.3   | 26.0       | 30.0  | 28.0  | 9739.4                 | 8988.4  | 9319.4  | 9824.8           | 8942.8  | 9391.7  |
| 26  | 1.0 LUN CRATER        | 120.0      | 120.0 | 120.0 | 44.7                   | 44.7   | 44.7   | 140.0      | 140.0 | 140.0 | 4.3                    | 4.3     | 4.3     | 49.0             | 49.0    | 49.0    |
| 27  | 1.0 HICHS ESN         | 136.0      | 156.0 | 156.0 | 0.8                    | 0.8    | 0.8    | 160.0      | 160.0 | 160.0 | 0.4                    | 0.4     | 0.4     | 1.1              | 1.1     | 1.1     |
| 28  | 2.0 MOREY R           | 140.0      | 148.0 | 144.0 | 2160.9                 | 1708.2 | 1924.4 | 134.0      | 160.0 | 157.0 | 1141.2                 | 941.6   | 1037.4  | 3302.1           | 2649.8  | 2942.0  |
| 29  | 1.0 NV LN R           | 80.0       | 100.0 | 90.0  | 1171.5                 | 269.5  | 385.3  | 140.0      | 160.0 | 150.0 | 4.3                    | 0.4     | 1.3     | 1175.8           | 269.5   | 586.4   |
| 30  | 2.0 ARC DONE          | 192.0      | 192.0 | 192.0 | 371.2                  | 371.2  | 371.2  | 212.0      | 212.0 | 212.0 | 130.8                  | 130.8   | 130.8   | 502.0            | 502.0   | 502.0   |
| 31  | 2.0 ICTHY SITE        | 204.0      | 204.0 | 204.0 | 228.5                  | 228.5  | 228.5  | 228.0      | 228.0 | 228.0 | 63.8                   | 63.8    | 63.8    | 292.3            | 292.3   | 292.3   |
| 32  | 1.0 RSTS MTNS         | 214.0      | 226.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 192.0      | 208.0 | 200.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 33  | 2.0 DIA PUNCH         | 186.0      | 186.0 | 186.0 | 467.8                  | 467.8  | 467.8  | 188.0      | 188.0 | 188.0 | 348.4                  | 348.4   | 348.4   | 816.2            | 816.2   | 816.2   |
| 34  | 1.0 GOLD JOSH         | 140.0      | 140.0 | 140.0 | 5.4                    | 5.4    | 5.4    | 200.0      | 200.0 | 200.0 | 0.0                    | 0.0     | 0.0     | 5.4              | 5.4     | 5.4     |
| 35  | 3.0 DEATH VAL         | 112.0      | 124.0 | 118.0 | 9039.8                 | 7930.2 | 8491.4 | 192.0      | 208.0 | 200.0 | 2411.5                 | 1804.0  | 2091.8  | 11451.3          | 9734.2  | 10583.2 |
| 36  | 2.0 WHITE MTN         | 192.0      | 204.0 | 198.0 | 371.2                  | 228.5  | 292.3  | 236.0      | 262.0 | 262.0 | 16.0                   | 8.4     | 11.7    | 387.2            | 237.0   | 304.0   |
| 37  | 1.0 HOT CRK RG        | 124.0      | 148.0 | 136.0 | 30.0                   | 2.1    | 8.4    | 164.0      | 164.0 | 136.0 | 1.7                    | 0.2     | 0.6     | 31.7             | 2.3     | 9.0     |
| 38  | 1.0 SARCOB FLT        | 114.0      | 126.0 | 120.0 | 79.3                   | 24.5   | 44.7   | 192.0      | 200.0 | 196.0 | 0.0                    | 0.0     | 0.0     | 79.3             | 24.5    | 44.7    |
| 39  | 2.0 DTH VAL OV        | 132.0      | 138.0 | 135.0 | 1311.3                 | 1250.0 | 1373.7 | 124.0      | 232.0 | 228.0 | 76.7                   | 52.9    | 63.8    | 1588.0           | 1302.9  | 1439.9  |
| 40  | 1.0 LEV CAVE          | 72.0       | 72.0  | 72.0  | 1924.4                 | 1924.4 | 1924.4 | 110.0      | 110.0 | 110.0 | 91.9                   | 91.9    | 91.9    | 2014.3           | 2014.3  | 2014.3  |
| 41  | 2.0 TROY PEAK         | 42.0       | 112.0 | 102.0 | 4731.9                 | 4439.4 | 5322.8 | 106.0      | 116.0 | 111.0 | 4077.8                 | 3251.2  | 3650.5  | 7690.7           | 7172.3  | 7172.3  |
| 42  | 2.0 RR VAL WMA        | 120.0      | 124.0 | 122.0 | 3673.5                 | 3325.2 | 3496.5 | 120.0      | 128.0 | 124.0 | 2952.7                 | 2411.5  | 2672.8  | 4626.1           | 3736.8  | 4169.2  |
| 43  | 1.0 LOCKES RCH        | 128.0      | 128.0 | 128.0 | 19.9                   | 19.9   | 19.9   | 130.0      | 129.2 | 129.6 | 13.0                   | 14.1    | 13.5    | 32.9             | 34.0    | 33.4    |
| 44  | 1.0 DUCK H2O          | 148.0      | 148.0 | 148.0 | 2.1                    | 2.1    | 2.1    | 136.0      | 136.0 | 136.0 | 6.8                    | 6.8     | 6.8     | 6.8              | 6.8     | 6.8     |
| 45  | 1.0 MEUSBER HT        | 184.0      | 184.0 | 184.0 | 0.0                    | 0.0    | 0.0    | 136.0      | 136.0 | 136.0 | 6.8                    | 6.8     | 6.8     | 6.8              | 6.8     | 6.8     |
| 46  | 1.0 WILD GRANS        | 200.0      | 200.0 | 200.0 | 0.0                    | 0.0    | 0.0    | 212.0      | 212.0 | 212.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 47  | 1.0 MT JEFF           | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 192.0      | 192.0 | 192.0 | 0.0                    | 0.0     | 0.0     | 0.1              | 0.1     | 0.1     |
| 48  | 1.0 GOSH CAVE         | 224.0      | 224.0 | 224.0 | 0.0                    | 0.0    | 0.0    | 166.0      | 166.0 | 166.0 | 0.2                    | 0.2     | 0.2     | 0.2              | 0.2     | 0.2     |
| 49  | 1.0 GOSH CYN          | 220.0      | 220.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 162.0      | 162.0 | 162.0 | 0.3                    | 0.3     | 0.3     | 0.3              | 0.3     | 0.3     |
| 50  | 1.0 MERIC GAP         | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 124.0      | 124.0 | 124.0 | 24.1                   | 24.1    | 24.1    | 24.2             | 24.2    | 24.2    |
| 51  | 2.0 MT GRAFTON        | 116.0      | 132.0 | 124.0 | 4044.9                 | 2698.1 | 3225.2 | 80.0       | 88.0  | 84.0  | 6679.5                 | 5823.5  | 6247.0  | 10724.4          | 8521.4  | 9572.2  |
| 52  | 1.0 WHIPL CAVE        | 116.0      | 116.0 | 116.0 | 63.8                   | 63.8   | 63.8   | 84.0       | 84.0  | 84.0  | 720.4                  | 720.4   | 720.4   | 786.2            | 786.2   | 786.2   |
| 53  | 2.0 MILND RING        | 68.0       | 76.0  | 72.0  | 9961.1                 | 8856.4 | 9407.9 | 52.0       | 56.0  | 54.0  | 9739.4                 | 9319.4  | 9531.0  | 19700.5          | 18175.8 | 18938.8 |
| 54  | 2.0 MT MORTAN         | 162.0      | 180.0 | 171.0 | 1097.0                 | 585.3  | 808.0  | 90.0       | 108.0 | 99.0  | 5615.7                 | 3903.6  | 4720.9  | 6712.7           | 4488.9  | 5528.8  |
| 55  | 1.0 SHUP CEDAR        | 138.0      | 146.0 | 142.0 | 6.7                    | 2.7    | 4.3    | 76.0       | 84.0  | 80.0  | 1214.8                 | 720.4   | 941.6   | 1221.5           | 723.1   | 943.9   |
| 56  | 1.0 SPR VAL FL        | 132.0      | 134.0 | 133.0 | 1.3                    | 1.0    | 1.1    | 92.0       | 96.0  | 94.0  | 405.3                  | 298.3   | 348.4   | 406.8            | 299.3   | 349.3   |
| 57  | 1.0 SHOS PYGMY        | 132.0      | 132.0 | 132.0 | 1.3                    | 1.3    | 1.3    | 92.0       | 92.0  | 92.0  | 405.3                  | 405.3   | 405.3   | 406.8            | 406.8   | 406.8   |
| 58  | 1.0 SPR VAL SW        | 140.0      | 144.0 | 142.0 | 5.4                    | 3.4    | 4.3    | 84.0       | 88.0  | 86.0  | 720.4                  | 544.0   | 627.1   | 723.8            | 547.4   | 621.3   |
| 59  | 1.0 SHOS POND         | 144.0      | 144.0 | 144.0 | 3.4                    | 3.4    | 3.4    | 84.0       | 84.0  | 84.0  | 720.4                  | 720.4   | 720.4   | 723.8            | 723.8   | 723.8   |
| 60  | 2.0 GLEASH CYN        | 76.0       | 84.0  | 80.0  | 8836.4                 | 7772.0 | 8310.0 | 28.0       | 34.0  | 31.0  | 11847.3                | 11406.0 | 11633.2 | 20703.6          | 19178.0 | 19943.2 |
| 61  | 1.0 BIG SPRG          | 76.0       | 76.0  | 76.0  | 1311.3                 | 1311.3 | 1311.3 | 40.0       | 40.0  | 40.0  | 6679.5                 | 6679.5  | 6679.5  | 8190.9           | 8190.9  | 8190.9  |
| 62  | 2.0 CATH GORGE        | 72.0       | 72.0  | 72.0  | 9407.9                 | 9407.9 | 9407.9 | 46.0       | 46.0  | 46.0  | 10241.7                | 10241.7 | 10241.7 | 19749.5          | 19749.5 | 19749.5 |
| 63  | 1.0 PR BIG SPR        | 142.0      | 142.0 | 142.0 | 4.3                    | 4.3    | 4.3    | 108.0      | 108.0 | 108.0 | 109.8                  | 109.8   | 109.8   | 114.1            | 114.1   | 114.1   |
| 64  | 1.0 MOR SPR FS        | 120.0      | 120.0 | 120.0 | 44.7                   | 44.7   | 44.7   | 97.2       | 98.0  | 97.4  | 271.4                  | 234.6   | 262.9   |                  |         |         |

## EFFECT INDEX OF BASING ALTERNATIVES ON SIGNIF NATURAL AREAS

ALTERNATIVE NO. 2  
 BASE A: COVOTE LONG TERM POP 15967 0  
 BASE B: DELTA LONG TERM POP 13679 0

| NO. | APPL | LOCATION    | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------|-------------|------------|-------|-------|------------------------|--------|--------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |      |             | N          | F     | AVE   | MAX                    | MIN    | AVE    | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 2.0  | WHEELER PK  | 132.0      | 144.0 | 138.0 | 2698.1                 | 1924.4 | 2287.0 | 67.0       | 73.0  | 71.0  | 8652.1                 | 7705.1  | 8178.2  | 11350.2          | 9629.5  | 10463.3 |
| 2   | 3.0  | LEHMAN CAV  | 140.0      | 140.0 | 140.0 | 6364.2                 | 6364.2 | 6364.2 | 73.0       | 73.0  | 73.0  | 10599.0                | 10599.0 | 10599.0 | 17163.2          | 17163.2 | 17163.2 |
| 3   | 1.0  | GANDY CAVE  | 196.0      | 196.0 | 196.0 | 0.0                    | 0.0    | 0.0    | 31.0       | 31.0  | 31.0  | 4731.4                 | 4731.4  | 4731.4  | 4731.4           | 4731.4  | 4731.4  |
| 4   | 2.0  | G S N P     | 132.0      | 160.0 | 146.0 | 2698.1                 | 1171.5 | 1813.8 | 55.0       | 103.0 | 79.0  | 10046.1                | 4633.5  | 7233.7  | 12744.3          | 5803.0  | 9049.5  |
| 5   | 2.0  | LEX ARCH    | 132.0      | 132.0 | 132.0 | 2698.1                 | 2698.1 | 2698.1 | 73.0       | 73.0  | 73.0  | 7705.1                 | 7705.1  | 7705.1  | 10403.2          | 10403.2 | 10403.2 |
| 6   | 1.0  | DRIES       | 140.0      | 132.0 | 146.0 | 3.4                    | 1.3    | 2.7    | 41.0       | 73.0  | 67.0  | 2993.4                 | 1932.9  | 2189.4  | 3000.8           | 1332.2  | 2192.0  |
| 7   | 1.0  | FISH SPR    | 224.0      | 230.0 | 227.0 | 0.0                    | 0.0    | 0.0    | 46.0       | 54.0  | 50.0  | 3767.2                 | 4160.6  | 4930.6  | 3767.2           | 4160.6  | 4930.6  |
| 8   | 1.0  | PUM BUTTE   | 219.0      | 219.0 | 219.0 | 0.0                    | 0.0    | 0.0    | 16.0       | 16.0  | 16.0  | 12321.8                | 12321.8 | 12321.8 | 12321.8          | 12321.8 | 12321.8 |
| 9   | 1.0  | TOPAZ       | 215.0      | 213.0 | 214.0 | 0.0                    | 0.0    | 0.0    | 10.0       | 10.0  | 10.0  | 13131.9                | 13131.9 | 13131.9 | 13131.9          | 13131.9 | 13131.9 |
| 10  | 1.0  | CLEAR LAKE  | 199.0      | 207.0 | 203.0 | 0.0                    | 0.0    | 0.0    | 12.0       | 24.0  | 18.0  | 12898.2                | 10813.1 | 11984.5 | 12898.2          | 10813.1 | 11984.5 |
| 11  | 1.0  | DEER HAS A  | 203.0      | 219.0 | 211.0 | 0.0                    | 0.0    | 0.0    | 28.0       | 34.0  | 32.0  | 9933.0                 | 8059.7  | 9006.1  | 9933.0           | 8059.7  | 9006.1  |
| 12  | 2.0  | ANT SPR TR  | 204.0      | 212.0 | 208.0 | 228.5                  | 162.7  | 193.2  | 34.0       | 42.0  | 38.0  | 12157.0                | 11423.7 | 11804.9 | 12385.5          | 11388.4 | 11998.1 |
| 13  | 1.0  | STEAMBOAT   | 112.0      | 112.0 | 112.0 | 95.4                   | 95.4   | 95.4   | 112.0      | 112.0 | 112.0 | 81.7                   | 81.7    | 81.7    | 177.2            | 177.2   | 177.2   |
| 14  | 2.0  | CECIL BRKS  | 132.0      | 132.0 | 132.0 | 7245.1                 | 7245.1 | 7245.1 | 120.0      | 120.0 | 120.0 | 7119.2                 | 7119.2  | 7119.2  | 14364.3          | 14364.3 | 14364.3 |
| 15  | 3.0  | BRUCE CYN   | 136.0      | 172.0 | 164.0 | 3293.5                 | 4173.9 | 4715.0 | 116.0      | 132.0 | 124.0 | 7430.6                 | 4204.9  | 6811.0  | 10276.1          | 10380.8 | 11526.0 |
| 16  | 1.0  | DEER HAS B  | 128.0      | 144.0 | 136.0 | 19.9                   | 3.4    | 8.4    | 108.0      | 116.0 | 112.0 | 117.1                  | 56.3    | 81.7    | 137.0            | 39.7    | 90.2    |
| 17  | 3.0  | ZION NP     | 106.0      | 120.0 | 113.0 | 9592.2                 | 8310.0 | 8948.0 | 132.0      | 136.0 | 144.0 | 6206.9                 | 4536.6  | 5341.2  | 13799.1          | 12846.7 | 14289.2 |
| 18  | 2.0  | RED MTS     | 72.0       | 80.0  | 76.0  | 9407.9                 | 8310.0 | 8836.4 | 158.0      | 162.0 | 160.0 | 1070.9                 | 939.8   | 1003.6  | 10478.8          | 9249.8  | 9860.0  |
| 19  | 1.0  | JOSHUA TR   | 64.0       | 64.0  | 64.0  | 3000.2                 | 3000.2 | 3000.2 | 176.0      | 176.0 | 176.0 | 0.0                    | 0.0     | 0.0     | 3000.3           | 3000.3  | 3000.3  |
| 20  | 1.0  | DEER HAS C  | 68.0       | 84.0  | 76.0  | 2418.6                 | 896.3  | 1311.3 | 150.0      | 162.0 | 156.0 | 1.4                    | 0.3     | 0.7     | 2420.0           | 896.6   | 1312.0  |
| 21  | 1.0  | RIP ARCH    | 70.0       | 70.0  | 70.0  | 2160.9                 | 2160.9 | 2160.9 | 160.0      | 160.0 | 160.0 | 0.4                    | 0.4     | 0.4     | 2161.3           | 2161.3  | 2161.3  |
| 22  | 2.0  | RUBY MTS    | 232.0      | 248.0 | 240.0 | 24.3                   | 10.5   | 16.1   | 172.0      | 180.0 | 174.0 | 668.4                  | 301.4   | 379.9   | 668.4            | 301.4   | 379.9   |
| 23  | 3.0  | RUBY LAKE   | 232.0      | 248.0 | 240.0 | 1390.3                 | 981.4  | 1171.5 | 164.0      | 168.0 | 166.0 | 4039.4                 | 3803.3  | 3920.3  | 3429.7           | 4784.7  | 5091.7  |
| 24  | 1.0  | FRANK LK    | 248.0      | 252.0 | 250.0 | 0.0                    | 0.0    | 0.0    | 166.0      | 170.0 | 168.0 | 0.2                    | 0.1     | 0.1     | 0.2              | 0.1     | 0.1     |
| 25  | 1.0  | IND PEAK    | 112.0      | 118.0 | 115.0 | 93.4                   | 34.3   | 72.3   | 100.0      | 106.0 | 103.0 | 230.9                  | 139.4   | 180.1   | 326.3            | 193.7   | 252.3   |
| 26  | 1.0  | LUN CRATER  | 120.0      | 120.0 | 120.0 | 44.7                   | 44.7   | 44.7   | 208.0      | 208.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 44.7             | 44.7    | 44.7    |
| 27  | 1.0  | NICKS STN   | 136.0      | 156.0 | 156.0 | 0.8                    | 0.8    | 0.8    | 208.0      | 208.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 0.8              | 0.8     | 0.8     |
| 28  | 2.0  | MOREY PK    | 140.0      | 148.0 | 144.0 | 2160.9                 | 1708.2 | 1924.4 | 212.0      | 216.0 | 214.0 | 139.4                  | 117.1   | 127.8   | 2300.3           | 1825.2  | 2032.2  |
| 29  | 1.0  | NV WH RGE   | 80.0       | 100.0 | 90.0  | 1171.5                 | 269.5  | 385.3  | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 1171.5           | 269.5   | 385.3   |
| 30  | 2.0  | ARC DOME    | 192.0      | 192.0 | 192.0 | 371.2                  | 371.2  | 371.2  | 264.0      | 264.0 | 264.0 | 11.2                   | 11.2    | 11.2    | 382.3            | 382.3   | 382.3   |
| 31  | 2.0  | ICHTHY SITE | 204.0      | 204.0 | 204.0 | 228.5                  | 228.5  | 228.5  | 280.0      | 280.0 | 280.0 | 4.6                    | 4.6     | 4.6     | 233.1            | 233.1   | 233.1   |
| 32  | 1.0  | RYTS MTS    | 214.0      | 226.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 198.0      | 212.0 | 202.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 33  | 2.0  | DIA PUNCH   | 186.0      | 186.0 | 186.0 | 467.8                  | 467.8  | 467.8  | 230.0      | 230.0 | 230.0 | 61.9                   | 61.9    | 61.9    | 329.7            | 329.7   | 329.7   |
| 34  | 1.0  | GOLD JOSH   | 140.0      | 140.0 | 140.0 | 3.4                    | 3.4    | 3.4    | 280.0      | 280.0 | 280.0 | 0.0                    | 0.0     | 0.0     | 3.4              | 3.4     | 3.4     |
| 35  | 3.0  | DEATH VAL   | 112.0      | 124.0 | 118.0 | 9039.8                 | 7950.2 | 8491.4 | 288.0      | 302.0 | 295.0 | 318.0                  | 218.8   | 264.3   | 9337.8           | 8168.9  | 8755.4  |
| 36  | 2.0  | WHITE MTN   | 192.0      | 204.0 | 198.0 | 371.2                  | 228.5  | 292.3  | 324.0      | 336.0 | 330.0 | 0.3                    | 0.1     | 0.2     | 371.5            | 228.7   | 292.5   |
| 37  | 1.0  | HOT CRK RG  | 124.0      | 148.0 | 136.0 | 30.0                   | 2.1    | 8.4    | 208.0      | 224.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 30.0             | 2.1     | 8.4     |
| 38  | 1.0  | SARCOS FLT  | 114.0      | 126.0 | 120.0 | 79.3                   | 24.5   | 44.7   | 284.0      | 292.0 | 288.0 | 0.0                    | 0.0     | 0.0     | 79.3             | 24.5    | 44.7    |
| 39  | 2.0  | OTH VAL OV  | 132.0      | 158.0 | 155.0 | 1511.3                 | 1250.0 | 1375.7 | 308.0      | 316.0 | 312.0 | 0.9                    | 0.5     | 0.7     | 1512.2           | 1250.6  | 1376.4  |
| 40  | 1.0  | LEV CAVE    | 72.0       | 72.0  | 72.0  | 1924.4                 | 1924.4 | 1924.4 | 200.0      | 200.0 | 200.0 | 0.0                    | 0.0     | 0.0     | 1924.4           | 1924.4  | 1924.4  |
| 41  | 2.0  | TROY PEAK   | 92.0       | 112.0 | 102.0 | 6731.9                 | 4439.4 | 5522.8 | 176.0      | 192.0 | 184.0 | 379.9                  | 318.0   | 432.2   | 7311.7           | 4757.4  | 5955.1  |
| 42  | 2.0  | RR VAL WHA  | 120.0      | 124.0 | 122.0 | 3673.5                 | 3225.2 | 3496.5 | 172.0      | 188.0 | 180.0 | 668.4                  | 371.3   | 501.4   | 4241.8           | 3696.4  | 3997.9  |
| 43  | 1.0  | LOCKES RCH  | 128.0      | 128.0 | 128.0 | 19.9                   | 19.9   | 19.9   | 184.0      | 184.0 | 184.0 | 0.0                    | 0.0     | 0.0     | 19.9             | 19.9    | 19.9    |
| 44  | 1.0  | DUCK H2O    | 148.0      | 148.0 | 148.0 | 2.1                    | 2.1    | 2.1    | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 2.2              | 2.2     | 2.2     |
| 45  | 1.0  | MEUSSER MT  | 184.0      | 184.0 | 184.0 | 0.0                    | 0.0    | 0.0    | 132.0      | 132.0 | 132.0 | 11.2                   | 11.2    | 11.2    | 11.2             | 11.2    | 11.2    |
| 46  | 1.0  | WILD GRANS  | 200.0      | 200.0 | 200.0 | 0.0                    | 0.0    | 0.0    | 248.0      | 248.0 | 248.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 47  | 1.0  | NT JEFF     | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 240.0      | 240.0 | 240.0 | 0.0                    | 0.0     | 0.0     | 0.1              | 0.1     | 0.1     |
| 48  | 1.0  | GOSH CAVE   | 224.0      | 224.0 | 224.0 | 0.0                    | 0.0    | 0.0    | 128.0      | 128.0 | 128.0 | 17.1                   | 17.1    | 17.1    | 17.1             | 17.1    | 17.1    |
| 49  | 1.0  | GOSH CYN    | 220.0      | 220.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 128.0      | 128.0 | 128.0 | 21.0                   | 21.0    | 21.0    | 21.0             | 21.0    | 21.0    |
| 50  | 1.0  | MERC CAP    | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 124.0      | 124.0 | 124.0 | 23.7                   | 23.7    | 23.7    | 23.8             | 23.8    | 23.8    |
| 51  | 2.0  | MT GRAFTON  | 116.0      | 132.0 | 124.0 | 4044.9                 | 2698.1 | 3325.2 | 124.0      | 130.0 | 127.0 | 2848.8                 | 2438.5  | 2638.1  | 6893.7           | 5136.4  | 5963.3  |
| 52  | 1.0  | UNIPL CAVE  | 116.0      | 116.0 | 116.0 | 63.8                   | 63.8   | 63.8   | 140.0      | 140.0 | 140.0 | 4.6                    | 4.6     | 4.6     | 70.4             | 70.4    | 70.4    |
| 53  | 2.0  | HILND RNO   | 68.0       | 76.0  | 72.0  | 9961.1                 | 8836.4 | 9407.9 | 148.0      | 154.0 | 151.0 | 1463.4                 | 1216.4  | 1323.4  | 11424.5          | 10072.7 | 10742.3 |
| 54  | 2.0  | MT MORIAH   | 162.0      | 180.0 | 171.0 | 1097.0                 | 583.3  | 808.0  | 82.0       | 96.0  | 89.0  | 4887.7                 | 3341.2  | 6093.8  | 7984.7           | 5926.5  | 6903.7  |
| 55  | 1.0  | SWP CEDAR   | 128.0      | 146.0 | 142.0 | 6.7                    | 2.7    | 4.3    | 106.0      | 106.0 | 106.0 | 139.4                  | 139.4   | 139.4   | 146.1            | 142.1   | 143.7   |
| 56  | 1.0  | SPR VAL FL  | 132.0      | 134.0 | 133.0 | 1.3                    | 1.0    | 1.1    | 106.0      | 110.0 | 108.0 | 139.4                  | 98.0    | 117.1   | 140.7            | 99.0    | 118.2   |
| 57  | 1.0  | SHOS PYGMY  | 132.0      | 132.0 | 132.0 | 1.3                    | 1.3    | 1.3    | 104.0      | 104.0 | 104.0 | 163.5                  | 163.5   | 163.5   | 166.8            | 166.8   | 166.8   |
| 58  | 1.0  | SPR VAL SW  | 140.0      | 144.0 | 142.0 | 3.4                    | 3.4    | 3.4    | 104.0      | 108.0 | 106.0 | 163.5                  | 117.1   | 139.4   | 170.8            | 120.4   | 143.7   |
| 59  | 1.0  | SHOS PONDS  | 144.0      | 144.0 | 144.0 | 3.4                    | 3.4    | 3.4    | 104.0      | 104.0 | 104.0 | 163.5                  | 163.5   | 163.5   | 168.9            | 168.9   | 168.9   |
| 60  | 2.0  | GLEASH CYN  | 76.0       | 84.0  | 80.0  | 8836.4                 | 7772.0 | 8310.0 | 136.0      | 142.0 | 139.0 | 2072.0                 | 1747.7  | 1904.7  | 10928.4          | 9519.7  | 10214.7 |
| 61  | 1.0  | BIG SPRG    | 76.0       | 76.0  | 76.0  | 1311.3                 | 1311.3 | 1311.3 | 132.0      | 132.0 | 132.0 | 1.1                    | 1.1     | 1.1     | 1312.4           | 1312.4  | 1312.4  |
| 62  | 2.0  | CATH GORGE  | 72.0       | 72.0  | 72.0  | 9407.9                 | 9407.9 | 9407.9 | 148.0      | 148.0 | 148.0 | 1463.4                 | 1463.4  | 1463.4  | 10               |         |         |

## EFFECT INDEX OF BASING ALTERNATIVES ON SIGNIF. NATURAL AREAS

ALTERNATIVE NO. 3  
 BASE A: BERYL LONG TERM POP. 16443.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO. | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 2.0  | WHEELER PK    | 71.0       | 83.0  | 77.0  | 10129.7                | 8388.8  | 9252.1  | 29.0       | 37.0  | 33.0  | 13167.1                | 12476.3 | 12826.1 | 23296.8          | 20865.3 | 22090.3 |
| 2   | 3.0  | LEDHAM CAV    | 83.0       | 83.0  | 83.0  | 12396.7                | 12396.7 | 12396.7 | 31.0       | 31.0  | 31.0  | 13735.1                | 13735.1 | 13735.1 | 26131.8          | 26131.8 | 26131.8 |
| 3   | 1.0  | GANDY CAV     | 107.0      | 107.0 | 107.0 | 138.3                  | 198.3   | 158.3   | 41.0       | 41.0  | 41.0  | 7224.1                 | 7224.1  | 7224.1  | 7382.4           | 7382.4  | 7382.4  |
| 4   | 3.0  | O B N P       | 83.0       | 123.0 | 103.0 | 8388.8                 | 3618.6  | 3739.1  | 103.0      | 73.0  | 88.0  | 4859.8                 | 8329.2  | 6510.0  | 13248.3          | 11947.8 | 12249.1 |
| 5   | 3.0  | LEX ARCH      | 71.0       | 71.0  | 71.0  | 10129.7                | 10129.7 | 10129.7 | 37.0       | 37.0  | 37.0  | 12476.3                | 12476.3 | 12476.3 | 22406.2          | 22406.2 | 22406.2 |
| 6   | 1.0  | DRES          | 31.0       | 31.0  | 31.0  | 5860.4                 | 5860.4  | 5860.4  | 37.0       | 49.0  | 43.0  | 3809.2                 | 2055.0  | 2839.3  | 9669.6           | 7915.4  | 8699.7  |
| 7   | 1.0  | FISH SPR      | 134.0      | 140.0 | 137.0 | 11.1                   | 3.7     | 8.0     | 97.0       | 103.0 | 101.0 | 308.2                  | 159.4   | 223.1   | 319.4            | 165.1   | 231.1   |
| 8   | 1.0  | FUR BUTTE     | 122.0      | 122.0 | 122.0 | 39.0                   | 39.0    | 39.0    | 114.0      | 114.0 | 114.0 | 71.3                   | 71.3    | 71.3    | 110.3            | 110.3   | 110.3   |
| 9   | 1.0  | TOPAZ         | 116.0      | 122.0 | 119.0 | 49.8                   | 39.0    | 52.3    | 110.0      | 114.0 | 112.0 | 102.8                  | 71.3    | 85.7    | 172.6            | 110.3   | 138.1   |
| 10  | 1.0  | CLEAR LAKE    | 100.0      | 108.0 | 104.0 | 286.0                  | 145.0   | 205.0   | 124.0      | 126.0 | 125.0 | 27.0                   | 22.0    | 24.4    | 313.0            | 167.0   | 229.4   |
| 11  | 1.0  | DEER HAD A    | 104.0      | 120.0 | 112.0 | 205.0                  | 47.3    | 101.3   | 144.0      | 146.0 | 144.0 | 2.4                    | 2.4     | 2.4     | 207.4            | 49.9    | 103.4   |
| 12  | 2.0  | ANT SPR TR    | 104.0      | 112.0 | 108.0 | 3619.2                 | 4710.8  | 3153.4  | 87.0       | 93.0  | 91.0  | 6427.3                 | 3712.3  | 6162.9  | 12244.4          | 10423.1 | 11316.2 |
| 13  | 1.0  | STEAMBOAT     | 24.0       | 24.0  | 24.0  | 13392.3                | 13392.3 | 13392.3 | 104.0      | 104.0 | 104.0 | 173.6                  | 173.6   | 173.6   | 13366.8          | 13366.8 | 13366.8 |
| 14  | 3.0  | CEDAR BRKS    | 48.0       | 48.0  | 48.0  | 13262.0                | 13262.0 | 13262.0 | 136.0      | 136.0 | 136.0 | 4758.2                 | 4758.2  | 4758.2  | 20020.2          | 20020.2 | 20020.2 |
| 15  | 3.0  | BRUCE CYN     | 80.0       | 88.0  | 84.0  | 12674.7                | 11925.2 | 12303.1 | 184.0      | 136.0 | 151.0 | 3089.8                 | 3089.8  | 3089.8  | 15744.3          | 15015.0 | 15293.0 |
| 16  | 1.0  | DEER HAD B    | 40.0       | 46.0  | 43.0  | 8818.0                 | 7143.3  | 7945.8  | 148.0      | 134.0 | 151.0 | 1.9                    | 0.9     | 1.3     | 8819.9           | 7144.2  | 7947.1  |
| 17  | 3.0  | ZION NP       | 32.0       | 40.0  | 36.0  | 16174.2                | 14390.8 | 15392.7 | 132.0      | 184.0 | 168.0 | 3031.6                 | 3089.8  | 3089.8  | 21203.8          | 17480.7 | 19281.7 |
| 18  | 2.0  | RED MTHS      | 32.0       | 38.0  | 35.0  | 13262.0                | 14621.7 | 14952.1 | 132.0      | 160.0 | 156.0 | 1358.0                 | 1032.4  | 1197.3  | 16620.0          | 13674.4 | 16149.0 |
| 19  | 1.0  | JOSHUA TR     | 48.0       | 48.0  | 48.0  | 6613.7                 | 6613.7  | 6613.7  | 164.0      | 164.0 | 164.0 | 0.2                    | 0.2     | 0.2     | 6616.0           | 6616.0  | 6616.0  |
| 20  | 2.0  | DEER HAD C    | 24.0       | 32.0  | 28.0  | 13392.3                | 11155.1 | 12303.1 | 148.0      | 132.0 | 130.0 | 1.9                    | 1.2     | 1.3     | 13393.2          | 11156.2 | 12304.6 |
| 21  | 1.0  | RIP ARCH      | 36.0       | 30.0  | 30.0  | 11734.2                | 11734.2 | 11734.2 | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 11737.2          | 11737.2 | 11737.2 |
| 22  | 2.0  | RUBY MTHS     | 208.0      | 224.0 | 216.0 | 205.0                  | 101.3   | 145.0   | 85.0       | 101.0 | 92.0  | 4864.0                 | 5066.4  | 5935.7  | 7069.0           | 5167.6  | 6080.7  |
| 23  | 3.0  | RUBY LAKE     | 182.0      | 196.0 | 192.0 | 3410.8                 | 2967.2  | 3183.6  | 64.0       | 76.0  | 71.0  | 11775.1                | 11040.7 | 11415.0 | 15186.0          | 14008.0 | 14598.6 |
| 24  | 1.0  | PRANK LA      | 202.0      | 208.0 | 205.0 | 0.0                    | 0.0     | 0.0     | 77.0       | 83.0  | 80.0  | 1275.8                 | 862.2   | 1032.4  | 1275.8           | 862.2   | 1032.4  |
| 25  | 1.0  | IND PEAK      | 26.0       | 30.0  | 28.0  | 12857.6                | 11734.2 | 12303.1 | 74.0       | 82.0  | 79.0  | 1358.0                 | 922.2   | 1123.2  | 14215.6          | 12636.4 | 13424.4 |
| 26  | 1.0  | LUN CRATER    | 140.0      | 140.0 | 140.0 | 3.7                    | 3.7     | 3.7     | 92.0       | 92.0  | 92.0  | 453.3                  | 453.3   | 453.3   | 459.0            | 459.0   | 459.0   |
| 27  | 1.0  | HICKS STN     | 160.0      | 160.0 | 160.0 | 0.3                    | 0.3     | 0.3     | 80.0       | 80.0  | 80.0  | 1052.6                 | 1052.6  | 1052.6  | 1033.1           | 1033.1  | 1033.1  |
| 28  | 2.0  | MOREY PK      | 154.0      | 160.0 | 157.0 | 1304.6                 | 1243.1  | 1369.8  | 88.0       | 96.0  | 92.0  | 6310.0                 | 3402.1  | 6048.8  | 8016.6           | 6845.2  | 7418.6  |
| 29  | 1.0  | NY NH RGE     | 140.0      | 160.0 | 150.0 | 3.7                    | 0.3     | 1.7     | 128.0      | 160.0 | 144.0 | 17.9                   | 0.4     | 3.0     | 23.6             | 0.9     | 4.8     |
| 30  | 2.0  | ARC DOME      | 212.0      | 212.0 | 212.0 | 172.7                  | 172.7   | 172.7   | 140.0      | 140.0 | 140.0 | 1941.7                 | 1941.7  | 1941.7  | 2114.3           | 2114.3  | 2114.3  |
| 31  | 2.0  | ICHTHY SITE   | 228.0      | 228.0 | 228.0 | 84.2                   | 84.2    | 84.2    | 132.0      | 132.0 | 132.0 | 1258.0                 | 1258.0  | 1258.0  | 1442.2           | 1442.2  | 1442.2  |
| 32  | 1.0  | RSTS MTHS     | 192.0      | 208.0 | 200.0 | 0.0                    | 0.0     | 0.0     | 82.0       | 96.0  | 89.0  | 922.2                  | 333.3   | 363.8   | 922.2            | 333.3   | 363.8   |
| 33  | 2.0  | DIA PUNCH     | 188.0      | 188.0 | 188.0 | 459.9                  | 459.9   | 459.9   | 102.0      | 102.0 | 102.0 | 4962.3                 | 4962.3  | 4962.3  | 5422.4           | 5422.4  | 5422.4  |
| 34  | 1.0  | GOLD JOSH     | 200.0      | 200.0 | 200.0 | 0.0                    | 0.0     | 0.0     | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 0.1              | 0.1     | 0.1     |
| 35  | 2.0  | DEATH VAL     | 192.0      | 208.0 | 200.0 | 3183.6                 | 2381.6  | 2761.6  | 192.0      | 208.0 | 200.0 | 2495.8                 | 2016.7  | 2328.4  | 3879.4           | 4298.3  | 3100.0  |
| 36  | 2.0  | WHITE MTH     | 236.0      | 248.0 | 242.0 | 21.1                   | 11.1    | 13.4    | 208.0      | 216.0 | 212.0 | 173.6                  | 122.8   | 144.2   | 194.7            | 133.9   | 161.6   |
| 37  | 1.0  | HOT CRK RG    | 148.0      | 164.0 | 156.0 | 2.2                    | 0.3     | 0.8     | 88.0       | 112.0 | 100.0 | 608.2                  | 85.7    | 242.2   | 614.0            | 86.0    | 243.0   |
| 38  | 2.0  | SARCOS FLT    | 192.0      | 200.0 | 196.0 | 0.0                    | 0.0     | 0.0     | 184.0      | 192.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 39  | 2.0  | DTH VAL OV    | 224.0      | 232.0 | 228.0 | 101.3                  | 49.8    | 84.2    | 200.0      | 208.0 | 204.0 | 242.2                  | 173.6   | 203.4   | 342.4            | 242.4   | 289.4   |
| 40  | 1.0  | LEV CAV       | 110.0      | 110.0 | 110.0 | 121.4                  | 121.4   | 121.4   | 112.0      | 112.0 | 112.0 | 85.7                   | 85.7    | 85.7    | 207.1            | 207.1   | 207.1   |
| 41  | 2.0  | TROY PEAK     | 106.0      | 116.0 | 111.0 | 5383.4                 | 4292.2  | 4819.2  | 72.0       | 92.0  | 82.0  | 8453.3                 | 6048.8  | 7224.1  | 13836.8          | 10341.0 | 12043.3 |
| 42  | 2.0  | RR VAL WMA    | 120.0      | 128.0 | 124.0 | 3898.0                 | 3183.6  | 3528.3  | 60.0       | 76.0  | 68.0  | 9926.3                 | 7957.8  | 8950.3  | 13834.3          | 11141.4 | 12479.0 |
| 43  | 1.0  | LOCRES RCH    | 130.0      | 129.2 | 129.6 | 17.1                   | 18.6    | 17.9    | 72.0       | 72.0  | 72.0  | 1729.1                 | 1729.1  | 1729.1  | 1746.2           | 1747.8  | 1747.0  |
| 44  | 1.0  | DUCK MDO      | 136.0      | 136.0 | 136.0 | 8.9                    | 8.9     | 8.9     | 32.0       | 32.0  | 32.0  | 4758.2                 | 4758.2  | 4758.2  | 4767.1           | 4767.1  | 4767.1  |
| 45  | 1.0  | MEUSSER MT    | 136.0      | 136.0 | 136.0 | 8.9                    | 8.9     | 8.9     | 20.0       | 20.0  | 20.0  | 12185.9                | 12185.9 | 12185.9 | 12194.8          | 12194.8 | 12194.8 |
| 46  | 1.0  | MILD GRAMS    | 212.0      | 212.0 | 212.0 | 0.0                    | 0.0     | 0.0     | 128.0      | 128.0 | 128.0 | 17.9                   | 17.9    | 17.9    | 17.9             | 17.9    | 17.9    |
| 47  | 1.0  | MT JEFF       | 192.0      | 192.0 | 192.0 | 0.0                    | 0.0     | 0.0     | 120.0      | 120.0 | 120.0 | 40.2                   | 40.2    | 40.2    | 40.2             | 40.2    | 40.2    |
| 48  | 1.0  | BOSH CAV      | 186.0      | 186.0 | 186.0 | 0.2                    | 0.2     | 0.2     | 58.0       | 58.0  | 58.0  | 3634.3                 | 3634.3  | 3634.3  | 3634.8           | 3634.8  | 3634.8  |
| 49  | 1.0  | BOSH CYN      | 162.0      | 162.0 | 162.0 | 0.4                    | 0.4     | 0.4     | 54.0       | 54.0  | 54.0  | 4363.8                 | 4363.8  | 4363.8  | 4364.1           | 4364.1  | 4364.1  |
| 50  | 1.0  | MERC GAP      | 124.0      | 124.0 | 124.0 | 31.9                   | 31.9    | 31.9    | 4.0        | 4.0   | 4.0   | 14137.7                | 14137.7 | 14137.7 | 14169.6          | 14169.6 | 14169.6 |
| 51  | 2.0  | MT GRAPTON    | 80.0       | 88.0  | 84.0  | 8818.0                 | 7487.9  | 8247.0  | 36.0       | 32.0  | 44.0  | 12569.8                | 10887.6 | 11775.1 | 21587.8          | 18979.3 | 20022.2 |
| 52  | 1.0  | WHIPL CAV     | 84.0       | 84.0  | 84.0  | 931.1                  | 931.1   | 931.1   | 32.0       | 32.0  | 32.0  | 4758.2                 | 4758.2  | 4758.2  | 3709.3           | 3709.3  | 3709.3  |
| 53  | 2.0  | MILD RND      | 32.0       | 36.0  | 34.0  | 12857.6                | 12303.1 | 12582.3 | 94.0       | 104.0 | 99.0  | 9823.3                 | 4758.2  | 5277.4  | 18481.2          | 17061.3 | 17859.9 |
| 54  | 2.0  | MT MORTAN     | 90.0       | 108.0 | 99.0  | 7412.7                 | 5153.4  | 6232.3  | 28.0       | 42.0  | 35.0  | 13244.0                | 11983.6 | 12661.2 | 20457.6          | 17137.0 | 18892.3 |
| 55  | 1.0  | SNIP CEDAR    | 76.0       | 84.0  | 80.0  | 1403.7                 | 931.1   | 1243.1  | 34.0       | 40.0  | 37.0  | 8930.3                 | 7466.9  | 8205.2  | 10534.1          | 8418.0  | 9448.3  |
| 56  | 1.0  | SPR VAL FL    | 92.0       | 96.0  | 94.0  | 335.3                  | 335.3   | 335.3   | 20.0       | 26.0  | 23.0  | 12185.9                | 10887.6 | 11360.8 | 12721.2          | 11281.4 | 12020.8 |
| 57  | 1.0  | SNIP PYGMY    | 92.0       | 92.0  | 92.0  | 335.3                  | 335.3   | 335.3   | 28.0       | 28.0  | 28.0  | 10418.1                | 10418.1 | 10418.1 | 10953.4          | 10953.4 | 10953.4 |
| 58  | 1.0  | SPR VAL SW    | 84.0       | 88.0  | 86.0  | 931.1                  | 718.2   | 827.9   | 36.0       | 40.0  | 38.0  | 8453.3                 | 7466.9  | 7957.8  | 9404.4           | 8185.1  | 8785.7  |
| 59  | 1.0  | SNIP POND     | 84.0       | 84.0  | 84.0  | 931.1                  | 931.1   | 931.1   | 36.0       | 36.0  | 36.0  | 8453.3                 | 8453.3  | 8453.3  | 9404.4           | 9404.4  | 9404.4  |
| 60  | 2.0  | GLEASN CYN    | 28.0       | 34.0  | 31.0  | 15640.4                | 15037.8 | 15360.4 | 106.0      | 110.0 | 108.0 | 4938.6                 | 4173.9  | 4263.8  | 20198.9          | 19231.7 | 19724.2 |
| 61  | 1.0  | SIG SPRG      | 40.0       | 40.0  | 40.0  | 8818.0                 | 8818.0  |         |            |       |       |                        |         |         |                  |         |         |

## EFFECT INDEX OF BASING ALTERNATIVES ON SIGNIF. NATURAL AREAS

ALTERNATIVE NO. 4  
 BASE A: SERVL LONG TERM POP. 14943.0  
 BASE B: COYOTE LONG TERM POP. 12193.0

| NO. | LOCATION | MILES TO A  |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |         |
|-----|----------|-------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|---------|
|     |          | N           | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |         |
| 1   | 2.0      | WHEELER PK  | 71.0  | 83.0  | 77.0                   | 10129.7 | 8388.8  | 9252.1     | 132.0 | 144.0 | 138.0                  | 2060.7 | 1469.8 | 1746.8           | 12190.4 | 9858.6  | 10998.9 |
| 2   | 3.0      | LEHMAN CAV  | 83.0  | 83.0  | 83.0                   | 12396.7 | 12396.7 | 12396.7    | 140.0 | 140.0 | 140.0                  | 5013.3 | 5013.3 | 5013.3           | 17410.2 | 17410.2 | 17410.2 |
| 3   | 1.0      | GANDY CAVE  | 107.0 | 107.0 | 107.0                  | 138.3   | 138.3   | 138.3      | 196.0 | 196.0 | 196.0                  | 0.0    | 0.0    | 0.0              | 138.3   | 138.3   | 138.3   |
| 4   | 2.0      | G B N P     | 83.0  | 123.0 | 103.0                  | 8388.8  | 3618.4  | 3739.1     | 132.0 | 160.0 | 146.0                  | 2060.7 | 894.7  | 1383.3           | 10449.3 | 4313.3  | 7124.4  |
| 5   | 2.0      | LEX ARCH    | 71.0  | 71.0  | 71.0                   | 10129.7 | 10129.7 | 10129.7    | 132.0 | 132.0 | 132.0                  | 2060.7 | 2060.7 | 2060.7           | 12190.4 | 12190.4 | 12190.4 |
| 6   | 1.0      | DRES        | 31.0  | 31.0  | 31.0                   | 3840.4  | 3840.4  | 3840.4     | 140.0 | 132.0 | 146.0                  | 4.1    | 1.0    | 2.0              | 3840.4  | 3840.4  | 3840.4  |
| 7   | 1.0      | FISH SPR    | 134.0 | 140.0 | 137.0                  | 11.1    | 3.7     | 8.0        | 224.0 | 230.0 | 227.0                  | 0.0    | 0.0    | 0.0              | 11.1    | 3.7     | 8.0     |
| 8   | 1.0      | FUN BUTTE   | 122.0 | 122.0 | 122.0                  | 39.0    | 39.0    | 39.0       | 219.0 | 219.0 | 219.0                  | 0.0    | 0.0    | 0.0              | 39.0    | 39.0    | 39.0    |
| 9   | 1.0      | TOPAZ       | 116.0 | 122.0 | 119.0                  | 49.8    | 39.0    | 32.3       | 213.0 | 313.0 | 264.0                  | 0.0    | 0.0    | 0.0              | 49.8    | 39.0    | 32.3    |
| 10  | 1.0      | CLEAR LAKE  | 100.0 | 108.0 | 104.0                  | 284.0   | 143.0   | 205.0      | 199.0 | 207.0 | 203.0                  | 0.0    | 0.0    | 0.0              | 284.0   | 143.0   | 203.0   |
| 11  | 1.0      | DEER HAS A  | 104.0 | 120.0 | 112.0                  | 205.0   | 47.5    | 101.3      | 203.0 | 219.0 | 211.0                  | 0.0    | 0.0    | 0.0              | 205.0   | 47.5    | 101.3   |
| 12  | 2.0      | ANT SPR TR  | 104.0 | 112.0 | 108.0                  | 3619.2  | 4710.8  | 3153.4     | 204.0 | 212.0 | 208.0                  | 174.6  | 124.3  | 147.5            | 3793.7  | 4833.1  | 3500.9  |
| 13  | 1.0      | STEAMBOAT   | 24.0  | 24.0  | 24.0                   | 13393.3 | 13393.3 | 13393.3    | 112.0 | 112.0 | 112.0                  | 72.9   | 72.9   | 72.9             | 13466.2 | 13466.2 | 13466.2 |
| 14  | 3.0      | CEDAR BRKS  | 48.0  | 48.0  | 48.0                   | 15262.0 | 15262.0 | 15262.0    | 132.0 | 132.0 | 132.0                  | 5333.3 | 5333.3 | 5333.3           | 20793.3 | 20793.3 | 20793.3 |
| 15  | 3.0      | BRUCE CYN   | 80.0  | 88.0  | 84.0                   | 12474.7 | 11925.2 | 12303.1    | 136.0 | 172.0 | 164.0                  | 4044.3 | 3187.9 | 3601.1           | 16719.1 | 13113.0 | 15904.2 |
| 16  | 1.0      | DEER HAS B  | 40.0  | 46.0  | 43.0                   | 8818.0  | 7143.3  | 7765.8     | 128.0 | 144.0 | 136.0                  | 13.2   | 2.6    | 6.4              | 8822.2  | 7143.9  | 7972.2  |
| 17  | 3.0      | ZION NP     | 32.0  | 40.0  | 44.0                   | 16174.2 | 14390.8 | 15392.7    | 106.0 | 120.0 | 113.0                  | 7324.2 | 4346.9 | 6834.2           | 23500.4 | 20737.7 | 22224.8 |
| 18  | 2.0      | RED MTNS    | 32.0  | 38.0  | 35.0                   | 15262.0 | 14621.7 | 14952.1    | 72.0  | 80.0  | 74.0                   | 7183.4 | 4346.9 | 6744.2           | 22447.3 | 20948.6 | 21716.3 |
| 19  | 1.0      | JOSHUA TR   | 48.0  | 48.0  | 48.0                   | 6615.7  | 6615.7  | 6615.7     | 64.0  | 64.0  | 64.0                   | 2291.3 | 2291.3 | 2291.3           | 8907.2  | 8907.2  | 8907.2  |
| 20  | 1.0      | DEER HAS C  | 24.0  | 32.0  | 28.0                   | 13393.3 | 11155.1 | 12303.1    | 68.0  | 84.0  | 76.0                   | 1847.2 | 484.6  | 1134.3           | 15240.3 | 11839.6 | 13457.4 |
| 21  | 1.0      | RIP ARCH    | 30.0  | 30.0  | 30.0                   | 11734.2 | 11734.2 | 11734.2    | 70.0  | 70.0  | 70.0                   | 1430.4 | 1430.4 | 1430.4           | 13284.6 | 13284.6 | 13284.6 |
| 22  | 2.0      | RUBY MTNS   | 208.0 | 224.0 | 216.0                  | 205.0   | 101.3   | 145.0      | 252.0 | 268.0 | 260.0                  | 18.7   | 8.0    | 12.3             | 223.7   | 109.3   | 157.3   |
| 23  | 2.0      | RUBY LAKE   | 188.0 | 196.0 | 192.0                  | 3410.8  | 2967.2  | 2183.6     | 232.0 | 248.0 | 240.0                  | 1061.9 | 749.4  | 894.7            | 4472.7  | 3716.8  | 4078.4  |
| 24  | 1.0      | FRANK LA    | 202.0 | 208.0 | 205.0                  | 0.0     | 0.0     | 0.0        | 248.0 | 252.0 | 250.0                  | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     | 0.0     |
| 25  | 1.0      | IND PEAK    | 26.0  | 30.0  | 28.0                   | 12857.6 | 11734.2 | 12303.1    | 112.0 | 118.0 | 115.0                  | 72.9   | 41.5   | 55.2             | 12930.3 | 11775.7 | 12355.3 |
| 26  | 1.0      | LUN CRATER  | 140.0 | 140.0 | 140.0                  | 3.7     | 3.7     | 3.7        | 120.0 | 120.0 | 120.0                  | 34.2   | 34.2   | 34.2             | 39.8    | 39.8    | 39.8    |
| 27  | 1.0      | HICKS STN   | 160.0 | 160.0 | 160.0                  | 0.3     | 0.3     | 0.3        | 136.0 | 136.0 | 136.0                  | 0.6    | 0.6    | 0.6              | 1.1     | 1.1     | 1.1     |
| 28  | 2.0      | MOREY PK    | 134.0 | 140.0 | 137.0                  | 1506.6  | 1243.1  | 1349.8     | 140.0 | 148.0 | 144.0                  | 1430.4 | 1204.6 | 1449.8           | 3157.0  | 2347.7  | 2839.6  |
| 29  | 1.0      | NV WH RGE   | 140.0 | 140.0 | 140.0                  | 5.7     | 0.3     | 1.7        | 80.0  | 100.0 | 90.0                   | 894.7  | 205.9  | 447.0            | 900.4   | 204.3   | 448.8   |
| 30  | 2.0      | ARC DOME    | 212.0 | 212.0 | 212.0                  | 172.7   | 172.7   | 172.7      | 192.0 | 192.0 | 192.0                  | 283.5  | 283.5  | 283.5            | 456.2   | 456.2   | 456.2   |
| 31  | 2.0      | ICTHY SITE  | 228.0 | 228.0 | 228.0                  | 84.2    | 84.2    | 84.2       | 204.0 | 204.0 | 204.0                  | 174.6  | 174.6  | 174.6            | 258.8   | 258.8   | 258.8   |
| 32  | 1.0      | RSTS MTNS   | 192.0 | 208.0 | 200.0                  | 0.0     | 0.0     | 0.0        | 214.0 | 226.0 | 220.0                  | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     | 0.0     |
| 33  | 2.0      | DIA PUNCH   | 188.0 | 188.0 | 188.0                  | 459.9   | 459.9   | 459.9      | 184.0 | 184.0 | 184.0                  | 357.3  | 357.3  | 357.3            | 817.2   | 817.2   | 817.2   |
| 34  | 1.0      | GOLD JOSH   | 200.0 | 200.0 | 200.0                  | 0.0     | 0.0     | 0.0        | 140.0 | 140.0 | 140.0                  | 4.1    | 4.1    | 4.1              | 4.1     | 4.1     | 4.1     |
| 35  | 3.0      | DEATH VAL   | 192.0 | 208.0 | 200.0                  | 3183.6  | 3381.6  | 2741.6     | 112.0 | 124.0 | 118.0                  | 4904.2 | 4072.1 | 6483.4           | 10087.9 | 8432.7  | 9247.0  |
| 36  | 2.0      | WHITE MTN   | 256.0 | 268.0 | 262.0                  | 21.1    | 11.1    | 15.4       | 192.0 | 204.0 | 198.0                  | 283.5  | 174.6  | 323.3            | 304.6   | 183.7   | 238.6   |
| 37  | 1.0      | MOT CRK RD  | 148.0 | 164.0 | 156.0                  | 2.2     | 0.3     | 0.8        | 124.0 | 148.0 | 136.0                  | 22.9   | 1.6    | 6.4              | 25.2    | 1.9     | 7.2     |
| 38  | 1.0      | SARCOS FLY  | 192.0 | 200.0 | 196.0                  | 0.0     | 0.0     | 0.0        | 114.0 | 126.0 | 120.0                  | 60.6   | 18.7   | 34.2             | 60.6    | 18.7    | 34.2    |
| 39  | 2.0      | OTH VAL DV  | 224.0 | 232.0 | 228.0                  | 101.3   | 69.8    | 84.2       | 132.0 | 158.0 | 153.0                  | 1194.3 | 934.7  | 1050.7           | 1255.3  | 1024.5  | 1134.9  |
| 40  | 1.0      | LEV CAVE    | 110.0 | 110.0 | 110.0                  | 121.4   | 121.4   | 121.4      | 72.0  | 72.0  | 72.0                   | 1469.8 | 1469.8 | 1469.8           | 1591.1  | 1591.1  | 1591.1  |
| 41  | 2.0      | TROY PEAK   | 106.0 | 114.0 | 111.0                  | 3383.4  | 4292.2  | 4819.2     | 92.0  | 112.0 | 102.0                  | 5141.3 | 3390.7 | 4218.1           | 10525.0 | 7682.8  | 9037.3  |
| 42  | 2.0      | RR VAL WHA  | 120.0 | 128.0 | 124.0                  | 3898.0  | 3183.6  | 3528.5     | 120.0 | 124.0 | 122.0                  | 2805.7 | 2539.7 | 2670.5           | 4703.7  | 3723.3  | 4199.0  |
| 43  | 1.0      | LOCKES RCH  | 130.0 | 129.2 | 129.6                  | 17.1    | 18.6    | 17.9       | 128.0 | 128.0 | 128.0                  | 15.2   | 15.2   | 15.2             | 32.3    | 32.3    | 32.3    |
| 44  | 1.0      | DUCK H2O    | 136.0 | 136.0 | 136.0                  | 8.9     | 8.9     | 8.9        | 148.0 | 148.0 | 148.0                  | 1.6    | 1.6    | 1.6              | 10.3    | 10.3    | 10.3    |
| 45  | 1.0      | MEUSSER RT  | 136.0 | 136.0 | 136.0                  | 8.9     | 8.9     | 8.9        | 184.0 | 184.0 | 184.0                  | 0.0    | 0.0    | 0.0              | 8.9     | 8.9     | 8.9     |
| 46  | 1.0      | WILD GRASS  | 212.0 | 212.0 | 212.0                  | 0.0     | 0.0     | 0.0        | 200.0 | 200.0 | 200.0                  | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     | 0.0     |
| 47  | 1.0      | MT JEFF     | 192.0 | 192.0 | 192.0                  | 0.0     | 0.0     | 0.0        | 172.0 | 172.0 | 172.0                  | 0.1    | 0.1    | 0.1              | 0.1     | 0.1     | 0.1     |
| 48  | 1.0      | GOSH CAVE   | 164.0 | 164.0 | 164.0                  | 0.2     | 0.2     | 0.2        | 224.0 | 224.0 | 224.0                  | 0.0    | 0.0    | 0.0              | 0.2     | 0.2     | 0.2     |
| 49  | 1.0      | GOSH CYN    | 162.0 | 162.0 | 162.0                  | 0.4     | 0.4     | 0.4        | 220.0 | 220.0 | 220.0                  | 0.0    | 0.0    | 0.0              | 0.4     | 0.4     | 0.4     |
| 50  | 1.0      | MERC GAP    | 124.0 | 124.0 | 124.0                  | 31.9    | 31.9    | 31.9       | 172.0 | 172.0 | 172.0                  | 0.1    | 0.1    | 0.1              | 31.9    | 31.9    | 31.9    |
| 51  | 2.0      | MT GRAFTON  | 80.0  | 88.0  | 84.0                   | 8818.0  | 7687.9  | 8247.0     | 116.0 | 132.0 | 124.0                  | 3089.4 | 2040.7 | 2539.7           | 11907.3 | 9748.7  | 10786.7 |
| 52  | 1.0      | WHIPL CAVE  | 84.0  | 84.0  | 84.0                   | 931.1   | 931.1   | 931.1      | 116.0 | 116.0 | 116.0                  | 30.2   | 30.2   | 30.2             | 1001.3  | 1001.3  | 1001.3  |
| 53  | 2.0      | HILAND RING | 32.0  | 36.0  | 34.0                   | 12857.6 | 12303.1 | 12582.5    | 68.0  | 76.0  | 72.0                   | 7407.9 | 4744.2 | 7183.4           | 20463.3 | 19067.3 | 19747.8 |
| 54  | 2.0      | MT MORIAN   | 90.0  | 108.0 | 99.0                   | 7413.7  | 5153.4  | 6232.3     | 162.0 | 180.0 | 171.0                  | 837.8  | 447.0  | 617.1            | 8251.3  | 5600.4  | 6849.4  |
| 55  | 1.0      | SMP CEDAR   | 76.0  | 84.0  | 80.0                   | 1403.7  | 931.1   | 1243.1     | 138.0 | 146.0 | 142.0                  | 3.1    | 2.0    | 3.2              | 1408.8  | 931.1   | 1244.4  |
| 56  | 1.0      | SPR VAL FL  | 92.0  | 96.0  | 94.0                   | 335.3   | 335.3   | 335.3      | 132.0 | 134.0 | 133.0                  | 1.0    | 0.8    | 0.9              | 336.3   | 336.3   | 336.3   |
| 57  | 1.0      | SHOS PYGMY  | 92.0  | 92.0  | 92.0                   | 335.3   | 335.3   | 335.3      | 132.0 | 132.0 | 132.0                  | 1.0    | 1.0    | 1.0              | 336.3   | 336.3   | 336.3   |
| 58  | 1.0      | SPR VAL SW  | 84.0  | 88.0  | 86.0                   | 931.1   | 718.2   | 827.9      | 140.0 | 144.0 | 142.0                  | 4.1    | 2.6    | 3.2              | 933.2   | 720.8   | 831.1   |
| 59  | 1.0      | SHOS FONDS  | 84.0  | 84.0  | 84.0                   | 931.1   | 931.1   | 931.1      | 144.0 | 144.0 | 144.0                  | 2.6    | 2.6    | 2.6              | 933.7   | 933.7   | 933.7   |
| 60  | 2.0      | GLEASH CYN  | 28.0  | 34.0  | 31.0                   | 15440.4 | 15057.8 | 15360.4    | 74.0  | 84.0  | 80.0                   | 4744.2 | 3939.9 | 6346.9           | 22404.3 | 20993.7 | 21707.3 |
| 61  | 1.0      | STO SPRG    | 40.0  | 40.0  | 40.0                   | 8818.0  | 8818.0  | 8818.0     | 76.0  | 76.0  | 76.0                   | 1134.3 | 1134.3 | 1134.3           | 9972.3  | 9972.3  | 9972.3  |
| 62  | 2.0      | CATH GORGE  | 46.0  | 46.0  | 46.0                   | 13452.7 | 12452.7 | 12452.7    | 72.0  | 72.0  | 72.0                   | 7183.4 | 7183.4 |                  |         |         |         |

## EFFECT INDEX OF BASING ALTERNATIVES ON SIGNIF. NATURAL AREAS

ALTERNATIVE NO. 5  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO. | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 2.0  | WHEELER PK    | 63.0       | 75.0  | 69.0  | 11486.0                | 9700.2  | 10594.3 | 29.0       | 37.0  | 33.0  | 13167.1                | 12476.5 | 12836.1 | 24653.2          | 22176.7 | 23432.4 |
| 2   | 3.0  | LEHMAN CAV    | 75.0       | 75.0  | 75.0  | 13343.5                | 13343.5 | 13343.5 | 31.0       | 31.0  | 31.0  | 13739.1                | 13739.1 | 13739.1 | 27078.6          | 27078.6 | 27078.6 |
| 3   | 1.0  | GANDY CAVE    | 85.0       | 85.0  | 85.0  | 902.2                  | 902.2   | 902.2   | 41.0       | 41.0  | 41.0  | 7224.1                 | 7224.1  | 7224.1  | 8126.3           | 8126.3  | 8126.3  |
| 4   | 2.0  | G B N P       | 79.0       | 64.0  | 72.3  | 9109.3                 | 11041.3 | 10072.2 | 103.0      | 73.0  | 88.0  | 4859.8                 | 8329.2  | 6510.0  | 13969.0          | 19370.4 | 16582.2 |
| 5   | 3.0  | LEX ARCH      | 63.0       | 63.0  | 63.0  | 11486.0                | 11486.0 | 11486.0 | 37.0       | 37.0  | 37.0  | 12476.5                | 12476.5 | 12476.5 | 22962.9          | 22962.9 | 22962.9 |
| 6   | 1.0  | DRES          | 43.0       | 43.0  | 43.0  | 8096.5                 | 8096.5  | 8096.5  | 57.0       | 57.0  | 57.0  | 3809.2                 | 2055.0  | 2839.3  | 10191.0          | 10191.0 | 10191.0 |
| 7   | 1.0  | FISH SPR      | 108.0      | 114.0 | 111.0 | 147.4                  | 85.4    | 112.7   | 97.0       | 105.0 | 101.0 | 308.2                  | 159.4   | 223.1   | 455.4            | 245.0   | 335.8   |
| 8   | 1.0  | FUM BUTTE     | 85.0       | 85.0  | 85.0  | 902.3                  | 902.3   | 902.3   | 114.0      | 114.0 | 114.0 | 71.3                   | 71.3    | 71.3    | 973.4            | 973.4   | 973.4   |
| 9   | 1.0  | TOPAZ         | 85.0       | 89.0  | 87.0  | 902.3                  | 679.1   | 784.1   | 110.0      | 114.0 | 112.0 | 102.8                  | 71.3    | 85.7    | 1003.0           | 750.4   | 849.8   |
| 10  | 1.0  | CLEAR LAKE    | 63.0       | 71.0  | 67.0  | 3408.0                 | 2200.3  | 2756.3  | 124.0      | 126.0 | 123.0 | 27.0                   | 22.0    | 24.4    | 3435.0           | 2222.3  | 2780.7  |
| 11  | 1.0  | DEER HAB A    | 67.0       | 83.0  | 75.0  | 2756.3                 | 1034.9  | 1733.6  | 146.0      | 146.0 | 146.0 | 2.4                    | 2.4     | 2.4     | 2756.3           | 1037.3  | 1736.0  |
| 12  | 2.0  | ANT SPR TR    | 73.0       | 81.0  | 77.0  | 9997.7                 | 8816.6  | 9403.9  | 87.0       | 95.0  | 91.0  | 6627.3                 | 3712.3  | 6162.9  | 16625.0          | 14328.9 | 15566.8 |
| 13  | 1.0  | STEAMBOAT     | 48.0       | 48.0  | 48.0  | 6724.3                 | 6724.3  | 6724.3  | 104.0      | 104.0 | 104.0 | 173.4                  | 173.4   | 173.4   | 6897.8           | 6897.8  | 6897.8  |
| 14  | 3.0  | CEDAR BRMS    | 56.0       | 56.0  | 56.0  | 14938.0                | 14938.0 | 14938.0 | 156.0      | 156.0 | 156.0 | 4758.2                 | 4758.2  | 4758.2  | 19696.2          | 19696.2 | 19696.2 |
| 15  | 3.0  | BYRCE CYN     | 72.0       | 80.0  | 76.0  | 13613.0                | 12882.2 | 13252.4 | 184.0      | 184.0 | 184.0 | 3089.8                 | 3089.8  | 3089.8  | 16702.9          | 15972.3 | 16342.3 |
| 16  | 1.0  | DEER HAB B    | 46.0       | 46.0  | 46.0  | 7250.6                 | 7250.6  | 7250.6  | 154.0      | 154.0 | 154.0 | 1.9                    | 0.9     | 1.3     | 7262.4           | 7261.5  | 7261.9  |
| 17  | 3.0  | ZION NP       | 56.0       | 58.0  | 57.0  | 14938.0                | 12120.9 | 13613.0 | 152.0      | 154.0 | 148.0 | 5031.6                 | 3089.8  | 2967.5  | 19969.6          | 15210.7 | 17602.0 |
| 18  | 2.0  | RED MTHS      | 90.0       | 95.0  | 92.5  | 7535.3                 | 6856.4  | 7192.5  | 160.0      | 160.0 | 160.0 | 1358.0                 | 1052.6  | 1197.3  | 8892.3           | 7909.2  | 8290.1  |
| 19  | 1.0  | JOSHUA TR     | 108.0      | 108.0 | 108.0 | 147.4                  | 147.4   | 147.4   | 164.0      | 164.0 | 164.0 | 0.2                    | 0.2     | 0.2     | 147.4            | 147.4   | 147.4   |
| 20  | 1.0  | DEER HAB C    | 80.0       | 96.0  | 88.0  | 1263.5                 | 400.3   | 730.0   | 148.0      | 152.0 | 150.0 | 1.9                    | 1.2     | 1.5     | 1263.5           | 401.5   | 731.5   |
| 21  | 1.0  | RIP ARCH      | 92.0       | 92.0  | 92.0  | 544.1                  | 544.1   | 544.1   | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 547.2            | 547.2   | 547.2   |
| 22  | 2.0  | RUBY MTHS     | 196.0      | 204.0 | 200.0 | 341.7                  | 246.5   | 290.7   | 85.0       | 101.0 | 93.0  | 6864.0                 | 5066.4  | 5935.7  | 7205.7           | 5312.9  | 6226.4  |
| 23  | 3.0  | RUBY LAKE     | 176.0      | 184.0 | 180.0 | 4226.3                 | 3708.8  | 3962.0  | 66.0       | 76.0  | 71.0  | 11775.1                | 11040.7 | 11415.0 | 16001.4          | 14749.5 | 15376.9 |
| 24  | 1.0  | FRANK LK      | 184.0      | 190.0 | 187.0 | 0.0                    | 0.0     | 0.0     | 77.0       | 83.0  | 80.0  | 1275.8                 | 862.2   | 1052.6  | 1275.8           | 862.2   | 1052.6  |
| 25  | 1.0  | IND PEAK      | 36.0       | 40.0  | 38.0  | 10146.7                | 8962.7  | 9551.9  | 76.0       | 82.0  | 79.0  | 1358.0                 | 922.2   | 1123.2  | 11504.7          | 9884.9  | 10675.1 |
| 26  | 1.0  | LUN CRATER    | 164.0      | 166.0 | 166.0 | 0.2                    | 0.2     | 0.2     | 92.0       | 92.0  | 92.0  | 453.3                  | 453.3   | 453.3   | 453.3            | 453.3   | 453.3   |
| 27  | 1.0  | HICKS STN     | 176.0      | 176.0 | 176.0 | 0.1                    | 0.1     | 0.1     | 80.0       | 80.0  | 80.0  | 1052.6                 | 1052.6  | 1052.6  | 1052.7           | 1052.7  | 1052.7  |
| 28  | 2.0  | MOOREY PK     | 174.0      | 180.0 | 177.0 | 784.1                  | 631.3   | 708.2   | 88.0       | 96.0  | 92.0  | 6510.0                 | 5602.1  | 6048.8  | 7294.1           | 6232.3  | 6753.0  |
| 29  | 1.0  | RV WH RGE     | 168.0      | 184.0 | 176.0 | 0.2                    | 0.0     | 0.1     | 128.0      | 160.0 | 144.0 | 17.9                   | 0.4     | 3.0     | 18.1             | 0.4     | 3.1     |
| 30  | 2.0  | ARC DOME      | 232.0      | 232.0 | 232.0 | 70.9                   | 70.9    | 70.9    | 140.0      | 140.0 | 140.0 | 1941.7                 | 1941.7  | 1941.7  | 2012.6           | 2012.6  | 2012.6  |
| 31  | 2.0  | ICHTHY SITE   | 232.0      | 232.0 | 232.0 | 26.4                   | 26.4    | 26.4    | 152.0      | 152.0 | 152.0 | 1358.0                 | 1358.0  | 1358.0  | 1384.4           | 1384.4  | 1384.4  |
| 32  | 1.0  | RSTS MTHS     | 196.0      | 212.0 | 205.0 | 0.0                    | 0.0     | 0.0     | 82.0       | 96.0  | 89.0  | 922.2                  | 333.5   | 563.8   | 922.2            | 333.5   | 563.8   |
| 33  | 2.0  | DIA PUNCH     | 208.0      | 208.0 | 208.0 | 208.3                  | 208.3   | 208.3   | 102.0      | 102.0 | 102.0 | 4962.3                 | 4962.3  | 4962.3  | 5170.8           | 5170.8  | 5170.8  |
| 34  | 1.0  | GOLD JOSH     | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 0.1              | 0.1     | 0.1     |
| 35  | 3.0  | DEATH VAL     | 236.0      | 248.0 | 242.0 | 1377.4                 | 1038.5  | 1209.5  | 192.0      | 208.0 | 200.0 | 2695.8                 | 2016.7  | 2338.4  | 4073.3           | 3075.2  | 3547.9  |
| 36  | 2.0  | WHITE MTH     | 288.0      | 296.0 | 292.0 | 3.6                    | 2.3     | 2.9     | 208.0      | 215.0 | 212.0 | 173.4                  | 122.8   | 146.2   | 177.2            | 125.0   | 149.1   |
| 37  | 1.0  | HOT CRK RC    | 176.0      | 192.0 | 184.0 | 0.1                    | 0.0     | 0.0     | 88.0       | 112.0 | 100.0 | 608.2                  | 85.7    | 242.2   | 608.2            | 85.7    | 242.2   |
| 38  | 1.0  | SARCOB FLT    | 232.0      | 240.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 184.0      | 192.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 39  | 2.0  | DTM VAL DV    | 260.0      | 268.0 | 264.0 | 0.0                    | 11.3    | 14.0    | 200.0      | 208.0 | 204.0 | 242.2                  | 173.4   | 203.4   | 259.6            | 184.9   | 219.4   |
| 40  | 1.0  | LEV CAVE      | 148.0      | 148.0 | 148.0 | 2.3                    | 2.3     | 2.3     | 112.0      | 112.0 | 112.0 | 85.7                   | 85.7    | 85.7    | 88.0             | 88.0    | 88.0    |
| 41  | 2.0  | TROY PEAK     | 136.0      | 144.0 | 140.0 | 2608.5                 | 2075.5  | 2330.6  | 72.0       | 92.0  | 82.0  | 8453.3                 | 6048.8  | 7224.1  | 11041.9          | 8124.4  | 9534.7  |
| 42  | 2.0  | RR VAL WMA    | 140.0      | 152.0 | 146.0 | 2330.6                 | 1630.0  | 1956.2  | 60.0       | 76.0  | 68.0  | 9926.3                 | 7957.8  | 8950.5  | 12266.9          | 9587.8  | 10906.7 |
| 43  | 1.0  | LOCKES RCH    | 132.0      | 132.0 | 132.0 | 1.4                    | 1.4     | 1.4     | 72.0       | 72.0  | 72.0  | 1729.1                 | 1729.1  | 1729.1  | 1730.5           | 1730.5  | 1730.5  |
| 44  | 1.0  | DUCK H20      | 132.0      | 132.0 | 132.0 | 1.4                    | 1.4     | 1.4     | 52.0       | 52.0  | 52.0  | 4758.2                 | 4758.2  | 4758.2  | 4759.6           | 4759.6  | 4759.6  |
| 45  | 1.0  | HEUSSER MT    | 136.0      | 136.0 | 136.0 | 9.1                    | 9.1     | 9.1     | 20.0       | 20.0  | 20.0  | 12185.9                | 12185.9 | 12185.9 | 12194.9          | 12194.9 | 12194.9 |
| 46  | 1.0  | WILD GRANS    | 232.0      | 232.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 128.0      | 128.0 | 128.0 | 17.9                   | 17.9    | 17.9    | 17.9             | 17.9    | 17.9    |
| 47  | 1.0  | MT JEFF       | 216.0      | 216.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 120.0      | 120.0 | 120.0 | 40.2                   | 40.2    | 40.2    | 40.2             | 40.2    | 40.2    |
| 48  | 1.0  | GOSH CAVE     | 152.0      | 152.0 | 152.0 | 1.4                    | 1.4     | 1.4     | 58.0       | 58.0  | 58.0  | 3634.5                 | 3634.5  | 3634.5  | 3635.9           | 3635.9  | 3635.9  |
| 49  | 1.0  | GOSH CYN      | 148.0      | 148.0 | 148.0 | 2.3                    | 2.3     | 2.3     | 54.0       | 54.0  | 54.0  | 4363.8                 | 4363.8  | 4363.8  | 4366.0           | 4366.0  | 4366.0  |
| 50  | 1.0  | MERC GAP      | 132.0      | 132.0 | 132.0 | 14.0                   | 14.0    | 14.0    | 6.0        | 6.0   | 6.0   | 14137.7                | 14137.7 | 14137.7 | 14151.8          | 14151.8 | 14151.8 |
| 51  | 2.0  | MT GRAFTON    | 90.0       | 96.0  | 93.0  | 7535.3                 | 6724.3  | 7124.8  | 36.0       | 52.0  | 44.0  | 12569.8                | 10887.6 | 11775.1 | 20105.1          | 17611.8 | 18899.9 |
| 52  | 1.0  | WHIPL CAVE    | 104.0      | 104.0 | 104.0 | 208.3                  | 208.3   | 208.3   | 52.0       | 52.0  | 52.0  | 4758.2                 | 4758.2  | 4758.2  | 4966.5           | 4966.5  | 4966.5  |
| 53  | 2.0  | HILND RNO     | 90.0       | 96.0  | 93.0  | 7535.3                 | 6724.3  | 7124.8  | 94.0       | 104.0 | 99.0  | 5823.5                 | 4758.2  | 5277.4  | 13338.8          | 11482.4 | 12402.2 |
| 54  | 2.0  | MT MORTIAN    | 80.0       | 96.0  | 88.0  | 8962.7                 | 6724.3  | 7814.1  | 28.0       | 42.0  | 35.0  | 13244.0                | 11983.6 | 12661.2 | 22206.6          | 18707.9 | 20475.2 |
| 55  | 1.0  | SWMP CEDAR    | 84.0       | 84.0  | 84.0  | 966.7                  | 966.7   | 966.7   | 34.0       | 40.0  | 37.0  | 8950.5                 | 7466.9  | 8203.2  | 9917.1           | 8432.4  | 9171.9  |
| 56  | 1.0  | SPR VAL FL    | 94.0       | 96.0  | 96.0  | 467.3                  | 341.7   | 400.3   | 20.0       | 26.0  | 23.0  | 12185.9                | 10887.6 | 11560.8 | 12653.3          | 11229.3 | 11961.1 |
| 57  | 1.0  | SHOS PYGMY    | 92.0       | 92.0  | 92.0  | 544.1                  | 544.1   | 544.1   | 28.0       | 28.0  | 28.0  | 10418.1                | 10418.1 | 10418.1 | 10462.2          | 10462.2 | 10462.2 |
| 58  | 1.0  | SPR VAL SW    | 82.0       | 82.0  | 82.0  | 1107.0                 | 1107.0  | 1107.0  | 36.0       | 40.0  | 38.0  | 8453.3                 | 7466.9  | 7957.8  | 9560.3           | 8575.9  | 9064.8  |
| 59  | 1.0  | SHOS PONDS    | 84.0       | 84.0  | 84.0  | 966.7                  | 966.7   | 966.7   | 36.0       | 36.0  | 36.0  | 8453.3                 | 8453.3  | 8453.3  | 9420.0           | 9420.0  | 9420.0  |
| 60  | 2.0  | GLASHE CYN    | 72.0       | 78.0  | 75.0  | 10146.7                | 9256.4  | 9700.2  | 106.0      | 110.0 | 108.0 | 4358.6                 | 4173.9  | 4363.8  | 14705.3          | 13430.3 | 14604.0 |
| 61  | 1.0  | BIG SPRG      | 76.0       | 76.0  | 76.0  | 1630.0                 | 1630.0  | 1630.0  | 104.0      | 104.0 | 104.0 | 173.4                  | 173.4   | 173.    |                  |         |         |

## EFFECT INDEX OF BASING ALTERNATIVES ON SIGNIF. NATURAL AREAS

ALTERNATIVE NO. 6  
 BASE A: MILFORD LONG TERM POP 17221.0  
 BASE B: COVOTE LONG TERM POP 12193.0

| NO. | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|-----|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|     |       |               | N          | F     | Ave   | MAX                    | MIN     | Ave     | N          | F     | Ave   | MAX                    | MIN    | Ave    | MAX              | MIN     | Ave     |
| 1   | 2.0   | WHEELER PK    | 63.0       | 73.0  | 69.0  | 11486.0                | 9700.2  | 10394.3 | 132.0      | 144.0 | 138.0 | 2060.7                 | 1469.8 | 1746.8 | 12346.8          | 11170.0 | 12341.0 |
| 2   | 3.0   | LEHMAN CAV    | 73.0       | 73.0  | 73.0  | 13343.3                | 13343.3 | 13343.3 | 140.0      | 140.0 | 140.0 | 5013.3                 | 5013.3 | 5013.3 | 18337.0          | 18337.0 | 18337.0 |
| 3   | 1.0   | GANDY CAV     | 83.0       | 83.0  | 83.0  | 902.3                  | 902.3   | 902.3   | 196.0      | 196.0 | 196.0 | 0.0                    | 0.0    | 0.0    | 902.3            | 902.3   | 902.3   |
| 4   | 2.0   | S B N P       | 79.0       | 86.0  | 72.3  | 9109.3                 | 11041.3 | 10072.2 | 132.0      | 160.0 | 146.0 | 2060.7                 | 894.7  | 1383.3 | 11170.0          | 11936.0 | 11437.3 |
| 5   | 2.0   | LEX ARCH      | 63.0       | 63.0  | 63.0  | 11486.0                | 11486.0 | 11486.0 | 132.0      | 132.0 | 132.0 | 2060.7                 | 2060.7 | 2060.7 | 13546.8          | 13546.8 | 13546.8 |
| 6   | 1.0   | DRES          | 43.0       | 43.0  | 43.0  | 8096.3                 | 8096.3  | 8096.3  | 140.0      | 132.0 | 146.0 | 4.1                    | 1.0    | 2.0    | 8100.6           | 8097.3  | 8098.6  |
| 7   | 1.0   | FISH SPR      | 108.0      | 114.0 | 111.0 | 147.4                  | 89.6    | 112.7   | 224.0      | 220.0 | 227.0 | 0.0                    | 0.0    | 0.0    | 147.4            | 89.6    | 112.7   |
| 8   | 1.0   | FUN BUTTE     | 83.0       | 83.0  | 83.0  | 902.3                  | 902.3   | 902.3   | 219.0      | 219.0 | 219.0 | 0.0                    | 0.0    | 0.0    | 902.3            | 902.3   | 902.3   |
| 9   | 1.0   | TOPAZ         | 83.0       | 89.0  | 87.0  | 902.3                  | 679.1   | 784.1   | 213.0      | 313.0 | 264.0 | 0.0                    | 0.0    | 0.0    | 902.3            | 479.1   | 784.1   |
| 10  | 1.0   | CLEAR LAKE    | 63.0       | 71.0  | 67.0  | 3408.0                 | 2200.3  | 2756.3  | 199.0      | 207.0 | 203.0 | 0.0                    | 0.0    | 0.0    | 3408.0           | 2200.3  | 2756.3  |
| 11  | 1.0   | DEER HAS A    | 67.0       | 83.0  | 75.0  | 2756.3                 | 1024.9  | 1733.6  | 203.0      | 219.0 | 211.0 | 0.0                    | 0.0    | 0.0    | 2756.3           | 1024.9  | 1733.6  |
| 12  | 2.0   | ANT SPR TR    | 73.0       | 81.0  | 77.0  | 9997.7                 | 8816.6  | 9403.9  | 204.0      | 212.0 | 208.0 | 174.6                  | 124.3  | 147.3  | 10172.2          | 8940.9  | 9331.3  |
| 13  | 1.0   | STEAMBOAT     | 48.0       | 48.0  | 48.0  | 6724.3                 | 6724.3  | 6724.3  | 112.0      | 112.0 | 112.0 | 72.9                   | 72.9   | 72.9   | 6797.1           | 6797.1  | 6797.1  |
| 14  | 3.0   | CEDAR BRKS    | 36.0       | 36.0  | 36.0  | 14938.0                | 14938.0 | 14938.0 | 132.0      | 132.0 | 132.0 | 3533.3                 | 3533.3 | 3533.3 | 20471.3          | 20471.3 | 20471.3 |
| 15  | 3.0   | BRUCE CYN     | 72.0       | 80.0  | 76.0  | 13613.0                | 12862.6 | 13252.4 | 156.0      | 172.0 | 164.0 | 4044.3                 | 3187.9 | 3601.1 | 17637.3          | 16070.3 | 16853.6 |
| 16  | 1.0   | DEER HAS B    | 46.0       | 46.0  | 46.0  | 7260.6                 | 7260.6  | 7260.6  | 128.0      | 144.0 | 136.0 | 13.2                   | 2.6    | 6.4    | 7273.8           | 7263.1  | 7267.0  |
| 17  | 3.0   | ZION NP       | 96.0       | 88.0  | 72.0  | 14938.0                | 12120.9 | 13613.0 | 106.0      | 120.0 | 113.0 | 7326.2                 | 6346.9 | 6834.2 | 22264.2          | 18467.7 | 20447.2 |
| 18  | 2.0   | RED MTNS      | 70.0       | 93.0  | 82.3  | 7533.3                 | 6856.6  | 7192.3  | 72.0       | 80.0  | 76.0  | 7183.4                 | 6346.9 | 6764.2 | 14720.7          | 13203.3 | 13956.7 |
| 19  | 1.0   | JOSHUA TR     | 108.0      | 108.0 | 108.0 | 147.4                  | 147.4   | 147.4   | 64.0       | 64.0  | 64.0  | 2291.3                 | 2291.3 | 2291.3 | 2438.8           | 2438.8  | 2438.8  |
| 20  | 1.0   | DEER HAS C    | 80.0       | 96.0  | 88.0  | 1263.3                 | 400.3   | 730.0   | 68.0       | 84.0  | 76.0  | 1847.2                 | 486.6  | 1134.3 | 1104.9           | 1886.3  | 1886.3  |
| 21  | 1.0   | RIP ARCH      | 92.0       | 92.0  | 92.0  | 344.1                  | 344.1   | 344.1   | 70.0       | 70.0  | 70.0  | 1430.4                 | 1430.4 | 1430.4 | 2194.3           | 2194.3  | 2194.3  |
| 22  | 2.0   | RUBY MTNS     | 196.0      | 204.0 | 200.0 | 341.7                  | 246.5   | 290.7   | 252.0      | 268.0 | 260.0 | 18.7                   | 8.0    | 12.3   | 340.4            | 234.3   | 303.0   |
| 23  | 3.0   | RUBY LAKE     | 176.0      | 184.0 | 180.0 | 4226.3                 | 3708.8  | 3962.0  | 232.0      | 248.0 | 240.0 | 1061.9                 | 749.6  | 894.7  | 3288.1           | 4458.4  | 4856.7  |
| 24  | 1.0   | FRANK LA      | 184.0      | 190.0 | 187.0 | 0.0                    | 0.0     | 0.0     | 232.0      | 232.0 | 230.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 25  | 1.0   | IND PEAK      | 36.0       | 40.0  | 38.0  | 10146.7                | 8962.7  | 9331.9  | 112.0      | 118.0 | 113.0 | 72.9                   | 41.3   | 53.2   | 10219.6          | 9004.2  | 9607.1  |
| 26  | 1.0   | LUN CRATER    | 166.0      | 166.0 | 166.0 | 0.2                    | 0.2     | 0.2     | 120.0      | 120.0 | 120.0 | 34.2                   | 34.2   | 34.2   | 34.4             | 34.4    | 34.4    |
| 27  | 1.0   | NICKS STN     | 176.0      | 176.0 | 176.0 | 0.1                    | 0.1     | 0.1     | 136.0      | 136.0 | 136.0 | 0.4                    | 0.4    | 0.4    | 0.6              | 0.6     | 0.6     |
| 28  | 2.0   | MOREY PA      | 174.0      | 180.0 | 177.0 | 784.1                  | 631.3   | 704.2   | 140.0      | 148.0 | 144.0 | 1430.4                 | 1204.6 | 1469.8 | 2434.3           | 1933.9  | 2174.0  |
| 29  | 1.0   | NV WH RGE     | 168.0      | 184.0 | 176.0 | 0.2                    | 0.0     | 0.1     | 80.0       | 100.0 | 90.0  | 894.7                  | 203.9  | 447.0  | 894.9            | 203.9   | 447.1   |
| 30  | 2.0   | ARC DOME      | 232.0      | 232.0 | 232.0 | 70.9                   | 70.9    | 70.9    | 192.0      | 192.0 | 192.0 | 283.3                  | 283.3  | 283.3  | 234.4            | 234.4   | 234.4   |
| 31  | 2.0   | ICTHY SITE    | 232.0      | 232.0 | 232.0 | 26.4                   | 26.4    | 26.4    | 204.0      | 204.0 | 204.0 | 174.6                  | 174.6  | 174.6  | 201.0            | 201.0   | 201.0   |
| 32  | 1.0   | REYS MTNS     | 198.0      | 212.0 | 203.0 | 0.0                    | 0.0     | 0.0     | 214.0      | 226.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 33  | 2.0   | BIA PUNCH     | 208.0      | 208.0 | 208.0 | 208.3                  | 208.3   | 208.3   | 186.0      | 186.0 | 186.0 | 337.3                  | 337.3  | 337.3  | 363.6            | 363.6   | 363.6   |
| 34  | 1.0   | GOLD JOSH     | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 140.0      | 140.0 | 140.0 | 4.1                    | 4.1    | 4.1    | 4.1              | 4.1     | 4.1     |
| 35  | 3.0   | DEATH VAL     | 236.0      | 248.0 | 242.0 | 1377.4                 | 1098.3  | 1209.3  | 112.0      | 124.0 | 118.0 | 6904.2                 | 6072.1 | 6483.4 | 6281.7           | 7130.6  | 7694.8  |
| 36  | 2.0   | WHITE MTN     | 288.0      | 296.0 | 292.0 | 3.4                    | 2.3     | 2.9     | 192.0      | 204.0 | 198.0 | 283.3                  | 174.6  | 223.3  | 287.1            | 174.6   | 226.1   |
| 37  | 1.0   | HOT CRK RG    | 176.0      | 192.0 | 184.0 | 0.1                    | 0.0     | 0.0     | 124.0      | 148.0 | 136.0 | 22.9                   | 1.4    | 6.4    | 23.0             | 1.4     | 6.4     |
| 38  | 1.0   | SARCOB FLT    | 232.0      | 240.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 114.0      | 126.0 | 120.0 | 60.6                   | 18.7   | 34.2   | 60.6             | 18.7    | 34.2    |
| 39  | 2.0   | DTM VAL DV    | 260.0      | 268.0 | 264.0 | 17.4                   | 11.3    | 14.0    | 152.0      | 158.0 | 153.0 | 1134.3                 | 934.7  | 1030.7 | 1171.7           | 946.0   | 1064.6  |
| 40  | 1.0   | LEV CAVE      | 148.0      | 148.0 | 148.0 | 2.3                    | 2.3     | 2.3     | 72.0       | 72.0  | 72.0  | 1469.8                 | 1469.8 | 1469.8 | 1472.0           | 1472.0  | 1472.0  |
| 41  | 2.0   | TROY PEAK     | 136.0      | 144.0 | 140.0 | 2608.3                 | 2073.3  | 2330.6  | 92.0       | 112.0 | 102.0 | 3141.3                 | 3390.7 | 4218.1 | 7730.1           | 3466.2  | 6348.7  |
| 42  | 2.0   | RR VAL WMA    | 140.0      | 152.0 | 146.0 | 2330.6                 | 1630.0  | 1956.2  | 120.0      | 124.0 | 122.0 | 2803.7                 | 2539.7 | 2670.3 | 3136.3           | 4169.7  | 4626.7  |
| 43  | 1.0   | LOCKES RCH    | 132.0      | 132.0 | 132.0 | 1.4                    | 1.4     | 1.4     | 128.0      | 128.0 | 128.0 | 13.2                   | 13.2   | 13.2   | 16.6             | 16.6    | 16.6    |
| 44  | 1.0   | DUCK H2O      | 132.0      | 132.0 | 132.0 | 1.4                    | 1.4     | 1.4     | 148.0      | 148.0 | 148.0 | 1.4                    | 1.4    | 1.4    | 3.0              | 3.0     | 3.0     |
| 45  | 1.0   | MEUSSER RT    | 136.0      | 136.0 | 136.0 | 9.1                    | 9.1     | 9.1     | 184.0      | 184.0 | 184.0 | 0.0                    | 0.0    | 0.0    | 9.1              | 9.1     | 9.1     |
| 46  | 1.0   | WILD GRANS    | 232.0      | 232.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 200.0      | 200.0 | 200.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 47  | 1.0   | MT JEFF       | 216.0      | 216.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 0.1              | 0.1     | 0.1     |
| 48  | 1.0   | GOSH CAVE     | 132.0      | 132.0 | 132.0 | 1.4                    | 1.4     | 1.4     | 224.0      | 224.0 | 224.0 | 0.0                    | 0.0    | 0.0    | 1.4              | 1.4     | 1.4     |
| 49  | 1.0   | GOSH CYN      | 148.0      | 148.0 | 148.0 | 2.3                    | 2.3     | 2.3     | 220.0      | 220.0 | 220.0 | 0.0                    | 0.0    | 0.0    | 2.3              | 2.3     | 2.3     |
| 50  | 1.0   | MERC GAP      | 132.0      | 132.0 | 132.0 | 14.0                   | 14.0    | 14.0    | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1    | 0.1    | 14.1             | 14.1    | 14.1    |
| 51  | 2.0   | MT GRAFTON    | 90.0       | 96.0  | 93.0  | 7533.3                 | 6724.3  | 7124.8  | 116.0      | 132.0 | 124.0 | 3089.4                 | 2060.7 | 2329.7 | 10624.7          | 8785.0  | 9666.3  |
| 52  | 1.0   | MIWPL CAVE    | 104.0      | 104.0 | 104.0 | 208.3                  | 208.3   | 208.3   | 116.0      | 116.0 | 116.0 | 30.2                   | 30.2   | 30.2   | 238.6            | 238.6   | 238.6   |
| 53  | 2.0   | MILND RND     | 90.0       | 96.0  | 93.0  | 7533.3                 | 6724.3  | 7124.8  | 116.0      | 132.0 | 124.0 | 3089.4                 | 2060.7 | 2329.7 | 10624.7          | 8785.0  | 9666.3  |
| 54  | 2.0   | MT MORIAH     | 80.0       | 84.0  | 88.0  | 8962.7                 | 6724.3  | 7814.1  | 162.0      | 180.0 | 171.0 | 837.8                  | 447.0  | 617.1  | 9800.3           | 7171.3  | 8431.2  |
| 55  | 1.0   | SWMP CEDAR    | 84.0       | 84.0  | 84.0  | 966.7                  | 966.7   | 966.7   | 138.0      | 146.0 | 142.0 | 3.1                    | 2.0    | 3.2    | 971.8            | 968.7   | 969.9   |
| 56  | 1.0   | SPR VAL FL    | 76.0       | 78.0  | 76.0  | 467.3                  | 341.7   | 400.3   | 132.0      | 134.0 | 133.0 | 1.0                    | 0.8    | 0.9    | 448.3            | 342.4   | 401.2   |
| 57  | 1.0   | SNOS PYGMY    | 92.0       | 92.0  | 92.0  | 344.1                  | 344.1   | 344.1   | 132.0      | 132.0 | 132.0 | 1.0                    | 1.0    | 1.0    | 343.1            | 343.1   | 343.1   |
| 58  | 1.0   | SPR VAL SW    | 82.0       | 82.0  | 82.0  | 1107.0                 | 1107.0  | 1107.0  | 140.0      | 144.0 | 142.0 | 4.1                    | 2.6    | 3.2    | 1111.1           | 1109.6  | 1110.2  |
| 59  | 1.0   | SNOS PONDS    | 84.0       | 84.0  | 84.0  | 966.7                  | 966.7   | 966.7   | 144.0      | 144.0 | 144.0 | 2.6                    | 2.6    | 2.6    | 969.3            | 969.3   | 969.3   |
| 60  | 2.0   | GLEASN CYN    | 72.0       | 78.0  | 73.0  | 10146.7                | 9256.4  | 9700.2  | 76.0       | 84.0  | 80.0  | 6764.2                 | 3933.9 | 6346.9 | 16910.9          | 13192.3 | 16047.1 |
| 61  | 1.0   | BIG SPRG      | 76.0       | 76.0  | 76.0  | 1630.0                 | 1630.0  | 1630.0  | 76.0       | 76.0  | 76.0  | 1134.3                 | 1134.3 | 1134.3 | 2784.3           | 2784.3  | 2784.3  |
| 62  | 2.0   | CATH GORGE    | 88.0       | 88.0  | 88.0  | 7814.1                 | 7814.1  | 7814.1  | 72.0       | 72.0  | 72.0  | 7183.4                 | 7183.4 | 7183.4 | 14999.4          | 1       |         |

COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON SIGNIF. NATURAL AREAS

| NO. | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |         |         |         |
|-----|---------------|--------|-------------------------------------|---------|---------|---------|---------|---------|---------|
|     |               |        | 0                                   | 1       | 2       | 3       | 4       | 5       |         |
| 1   | WHEELER PK    | 2.0    | 10328.3                             | 9295.4  | 10465.3 | 22090.3 | 10998.9 | 23432.4 | 12341.0 |
| 2   | LEHMAN CAV    | 3.0    | 16692.1                             | 15934.3 | 17163.2 | 26131.8 | 17410.2 | 27078.6 | 18337.0 |
| 3   | GANDY CAVE    | 1.0    | 684.8                               | 119.9   | 4731.4  | 7382.4  | 158.3   | 8126.3  | 902.3   |
| 4   | G B N P       | 2.0    | 9458.7                              | 6161.1  | 9049.5  | 12249.1 | 7124.4  | 16562.2 | 11497.5 |
| 5   | LEX ARCH      | 2.0    | 11416.2                             | 10371.2 | 10403.2 | 22606.2 | 12190.4 | 22962.5 | 13546.8 |
| 6   | DRES          | 1.0    | 6148.0                              | 4441.8  | 2192.0  | 8699.7  | 5862.5  | 10935.8 | 8098.6  |
| 7   | FISH SPR      | 1.0    | 85.6                                | 6.0     | 4930.6  | 231.1   | 8.0     | 335.8   | 112.7   |
| 8   | FURN BUTTE    | 1.0    | 684.8                               | 29.9    | 12321.8 | 110.3   | 39.0    | 973.6   | 902.3   |
| 9   | TOPAZ         | 1.0    | 595.1                               | 39.6    | 13131.9 | 139.1   | 52.3    | 869.8   | 784.1   |
| 10  | CLEAR LAKE    | 1.0    | 2092.1                              | 153.3   | 11984.5 | 229.4   | 209.0   | 2780.7  | 2759.3  |
| 11  | DEER HAS A    | 1.0    | 1315.8                              | 76.7    | 9006.1  | 103.6   | 101.3   | 1736.0  | 1733.6  |
| 12  | ANT SPR TR    | 2.0    | 7330.9                              | 4096.8  | 11998.1 | 11316.2 | 5300.9  | 15566.8 | 9351.5  |
| 13  | STEAMBOAT     | 1.0    | 3199.2                              | 10240.6 | 177.2   | 13566.8 | 13466.2 | 4897.8  | 6797.1  |
| 14  | CEDAR BRKS    | 3.0    | 18583.2                             | 18805.7 | 14364.3 | 20020.2 | 20799.5 | 19696.2 | 20471.5 |
| 15  | BRUCE CYN     | 3.0    | 14773.8                             | 14034.4 | 11326.0 | 13393.0 | 15904.3 | 16342.3 | 16833.3 |
| 16  | DEER HAS B    | 1.0    | 3514.3                              | 4042.4  | 90.2    | 7967.1  | 7972.2  | 7261.9  | 7267.0  |
| 17  | ZION NP       | 3.0    | 19280.5                             | 20407.7 | 14289.2 | 19381.7 | 22226.8 | 17602.0 | 20447.2 |
| 18  | RED MTNS      | 2.0    | 14315.4                             | 20182.3 | 9860.0  | 16149.7 | 21716.3 | 9390.1  | 13956.7 |
| 19  | JOSHUA TR     | 1.0    | 3112.1                              | 8011.5  | 3000.3  | 6616.0  | 8907.2  | 147.6   | 2438.8  |
| 20  | DEER HAS C    | 1.0    | 2065.4                              | 10830.7 | 1312.0  | 12304.6 | 13457.4 | 721.5   | 1884.3  |
| 21  | RIP ARCH      | 1.0    | 2373.9                              | 11049.3 | 2161.3  | 11737.2 | 13288.6 | 347.2   | 2194.5  |
| 22  | RUBY MTNS     | 2.0    | 226.8                               | 126.0   | 396.0   | 6080.7  | 157.3   | 6226.4  | 303.0   |
| 23  | RUBY LAKE     | 3.0    | 4178.7                              | 3584.0  | 5091.7  | 14598.6 | 4078.4  | 13376.9 | 4856.7  |
| 24  | FRANK LN      | 1.0    | 0.0                                 | 0.0     | 0.1     | 1052.6  | 0.0     | 1052.6  | 0.0     |
| 25  | IND PEAK      | 1.0    | 7322.3                              | 9391.7  | 252.3   | 13426.4 | 12358.3 | 10675.1 | 9607.1  |
| 26  | LUN CRATER    | 1.0    | 44.9                                | 49.0    | 44.7    | 459.0   | 39.8    | 453.5   | 34.4    |
| 27  | HICKS STN     | 1.0    | 0.8                                 | 1.1     | 0.8     | 1053.1  | 1.1     | 1052.7  | 0.6     |
| 28  | MOREY PK      | 2.0    | 2458.9                              | 2962.0  | 2052.2  | 7418.6  | 2839.6  | 6753.0  | 2174.0  |
| 29  | RV SPR RGE    | 1.0    | 585.4                               | 586.6   | 585.3   | 448.8   | 448.8   | 3.1     | 447.1   |
| 30  | ARC DOME      | 2.0    | 425.0                               | 502.0   | 382.3   | 2114.3  | 456.2   | 2012.6  | 354.4   |
| 31  | ICHTY SITE    | 2.0    | 248.6                               | 292.3   | 233.1   | 1442.2  | 258.8   | 1384.4  | 201.0   |
| 32  | RTS MTNS      | 1.0    | 0.0                                 | 0.0     | 0.0     | 363.8   | 0.0     | 363.8   | 0.0     |
| 33  | DIA PUNCH     | 2.0    | 626.0                               | 816.2   | 329.7   | 3422.4  | 817.2   | 3170.8  | 563.6   |
| 34  | GOLD JOBN     | 1.0    | 5.4                                 | 5.4     | 5.4     | 0.1     | 4.1     | 0.1     | 4.1     |
| 35  | DEATH VAL     | 3.0    | 9409.4                              | 10583.2 | 8755.6  | 3100.0  | 9247.0  | 3347.9  | 7694.9  |
| 36  | WHITE CRT     | 2.0    | 294.5                               | 304.0   | 292.5   | 161.6   | 238.8   | 149.1   | 226.1   |
| 37  | HOT CRK RD    | 1.0    | 8.4                                 | 9.6     | 8.4     | 243.3   | 7.2     | 242.2   | 6.4     |
| 38  | SARCOS FLT    | 1.0    | 44.7                                | 44.7    | 44.7    | 0.0     | 34.2    | 0.0     | 34.2    |
| 39  | DTH VAL DV    | 2.0    | 1386.4                              | 1439.5  | 1376.4  | 289.6   | 1134.9  | 219.4   | 1064.8  |
| 40  | LEV CAVE      | 1.0    | 1926.1                              | 2016.3  | 1924.4  | 207.1   | 1391.1  | 88.0    | 1472.0  |
| 41  | TROY PEAK     | 2.0    | 7291.8                              | 9173.3  | 3955.1  | 12043.3 | 9037.3  | 9554.7  | 6548.7  |
| 42  | RR VAL WMA    | 2.0    | 4981.3                              | 6169.2  | 3997.9  | 12479.0 | 6199.0  | 10906.7 | 4626.7  |
| 43  | LOCKER RCH    | 1.0    | 21.0                                | 33.4    | 16.9    | 1747.0  | 32.1    | 1730.5  | 16.6    |
| 44  | DUCK HSD      | 1.0    | 3.1                                 | 8.8     | 2.2     | 4767.1  | 10.5    | 4759.6  | 3.0     |
| 45  | HEUSSER MT    | 1.0    | 6.9                                 | 6.8     | 11.2    | 12194.8 | 8.9     | 12194.9 | 9.1     |
| 46  | WILD GRASS    | 1.0    | 0.0                                 | 0.0     | 0.0     | 17.9    | 0.0     | 17.9    | 0.0     |
| 47  | MT JEFF       | 1.0    | 0.1                                 | 0.1     | 0.1     | 40.2    | 0.1     | 40.2    | 0.1     |
| 48  | GOSH CAVE     | 1.0    | 1.0                                 | 0.2     | 17.1    | 3634.8  | 0.2     | 3635.9  | 1.4     |
| 49  | GOSH CYN      | 1.0    | 1.7                                 | 0.3     | 21.0    | 4366.1  | 0.4     | 4366.0  | 2.3     |
| 50  | MERC GAP      | 1.0    | 10.7                                | 24.2    | 23.8    | 14169.6 | 31.9    | 14131.8 | 14.1    |
| 51  | MT GRAFTON    | 2.0    | 8733.1                              | 9572.2  | 3967.3  | 20022.2 | 10786.7 | 15886.9 | 9664.5  |
| 52  | WHIPL CAVE    | 1.0    | 239.9                               | 786.2   | 70.4    | 5709.9  | 1001.3  | 4966.5  | 258.6   |
| 53  | HILND RNO     | 2.0    | 14815.7                             | 18938.8 | 10743.2 | 17859.9 | 19767.8 | 12402.2 | 14310.1 |
| 54  | MT MORIAM     | 2.0    | 6738.9                              | 3528.8  | 4903.7  | 18893.5 | 4849.4  | 20475.2 | 8421.2  |
| 55  | SWP CEDAR     | 1.0    | 738.0                               | 943.9   | 143.7   | 9448.3  | 1246.4  | 9171.9  | 969.9   |
| 56  | SPR VAL FL    | 1.0    | 305.0                               | 349.5   | 118.2   | 12020.8 | 460.8   | 11961.1 | 401.2   |
| 57  | SHOS PYGMY    | 1.0    | 414.3                               | 406.8   | 186.8   | 10953.4 | 336.3   | 10962.2 | 343.1   |
| 58  | SPR VAL SW    | 1.0    | 844.5                               | 631.3   | 142.7   | 8789.7  | 821.1   | 1064.8  | 1110.2  |
| 59  | SHOS FODDS    | 1.0    | 737.1                               | 723.8   | 168.9   | 953.7   | 9420.0  | 969.3   | 969.3   |
| 60  | GLEASH CYN    | 2.0    | 15672.7                             | 19945.2 | 10213.7 | 19724.2 | 21707.3 | 14068.0 | 16047.1 |
| 61  | BLW SPR       | 1.0    | 4746.2                              | 6170.4  | 1316.4  | 3771.6  | 777.4   | 1503.6  | 4746.2  |
| 62  | CATH GORGE    | 2.0    | 15338.8                             | 19749.5 | 10871.2 | 16410.9 | 20838.1 | 12572.3 | 14999.4 |
| 63  | PR BIG SPR    | 1.0    | 40.9                                | 114.1   | 8.8     | 10533.1 | 148.3   | 10466.3 | 51.5    |
| 64  | MOR SPR FS    | 1.0    | 89.2                                | 307.6   | 45.8    | 3318.4  | 301.2   | 5229.9  | 92.8    |
| 65  | WYNE KIRCH    | 2.0    | 8693.7                              | 10808.4 | 5474.1  | 16600.4 | 11322.5 | 13789.0 | 8511.1  |
| 66  | HOT CRK SP    | 1.0    | 247.0                               | 598.7   | 194.0   | 3221.2  | 682.9   | 2766.8  | 218.5   |
| 67  | PAM VAL FS    | 1.0    | 6738.7                              | 7080.2  | 6731.9  | 486.9   | 3601.3  | 36.1    | 5150.6  |
| 68  | PAM BONY      | 1.0    | 8315.5                              | 8632.6  | 8310.0  | 440.3   | 6772.7  | 21.7    | 6354.1  |
| 69  | PAM LAKES     | 1.0    | 11398.3                             | 11916.9 | 11594.4 | 429.6   | 9291.2  | 9.0     | 5860.5  |
| 70  | DNMR          | 1.0    | 11327.8                             | 11343.8 | 11327.8 | 21.2    | 3672.7  | 0.1     | 8631.8  |
| 71  | MOA VA FSH    | 1.0    | 13562.9                             | 13717.1 | 13561.8 | 205.0   | 10563.0 | 1.4     | 10359.4 |
| 72  | KEY PIT       | 2.0    | 14601.7                             | 18032.7 | 12915.6 | 10285.1 | 16783.4 | 5750.2  | 12248.5 |
| 73  | PUP FSH RP    | 1.0    | 1250.0                              | 1250.1  | 1250.0  | 0.0     | 754.8   | 0.0     | 954.7   |
| 74  | BIG DUNE      | 2.0    | 6288.4                              | 6583.0  | 6236.9  | 633.5   | 5221.7  | 244.5   | 4832.7  |
| 75  | PYRAMID LA    | 3.0    | 125.8                               | 130.3   | 132.7   | 852.8   | 134.8   | 833.6   | 115.6   |
| 76  | VAL FIRE      | 2.0    | 14630.6                             | 16722.8 | 13727.9 | 4554.8  | 14734.0 | 1526.2  | 11705.4 |
| 77  | VIRGIN R      | 1.0    | 7259.7                              | 7789.1  | 7265.1  | 718.3   | 5251.7  | 14.1    | 5547.3  |
| 78  | VIRGIN MT     | 1.0    | 5759.7                              | 6077.8  | 5755.3  | 425.8   | 4821.4  | 5.8     | 4401.4  |
| 79  | MORM MESA     | 1.0    | 8584.1                              | 8766.1  | 8582.4  | 242.5   | 5797.4  | 2.3     | 6537.1  |

SIGNIF. NATURAL AREAS RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0      | ALT 1    | ALT 2      | ALT 3    | ALT 4      | ALT 5    | ALT 6      |         |            |         |            |         |
|------------|----------|------------|----------|------------|----------|------------|---------|------------|---------|------------|---------|
| RESOURCE   | RESOURCE | RESOURCE   | RESOURCE | RESOURCE   | RESOURCE | RESOURCE   |         |            |         |            |         |
| INDEX      | INDEX    | INDEX      | INDEX    | INDEX      | INDEX    | INDEX      |         |            |         |            |         |
| ZION NP    | 19280.5  | ZION NP    | 20407.7  | LEHMAN CAV | 17163.2  | ZION NP    | 22090.3 | LEHMAN CAV | 27078.6 | CEDAR BRKS | 20471.5 |
| CEDAR BRKS | 18583.2  | RED MTNS   | 20182.3  | CEDAR BRKS | 14364.3  | LEX ARCH   | 22606.2 | RED MTNS   | 22226.8 | LEX ARCH   | 20447.2 |
| LEHMAN CAV | 16692.1  | GLEASH CYN | 19945.2  | ZION NP    | 14289.2  | WHEELER PK | 22090.3 | GLEASH CYN | 21707.3 | WHEELER PK | 18337.0 |
| GLEASH CYN | 15672.7  | CATH GORGE | 19749.5  | VAL FIRE   | 13727.9  | MT GRAFTON | 20022.2 | CATH GORGE | 20838.1 | MT MORIAM  | 16833.3 |
| CATH GORGE | 15338.8  | HILND RNO  | 18938.8  | MOA VA FSH | 13561.8  | CEDAR BRKS | 20022.2 | CEDAR BRKS | 20799.5 | CEDAR BRKS | 16047.1 |
| HILND RNO  | 14815.7  | CEDAR BRKS | 18805.7  | TOPAZ      | 13131.9  | GLEASH CYN | 19724.2 | HILND RNO  | 19767.8 | MT GRAFTON | 14999.4 |
| BRUCE CYN  | 14773.8  | KEY PIT    | 18032.7  | KEY PIT    | 12915.6  | ZION NP    | 19381.7 | LEHMAN CAV | 17410.2 | ZION NP    | 14310.1 |
| VAL FIRE   | 14630.6  | VAL FIRE   | 16722.8  | FURN BUTTE | 12321.8  | MT MORIAM  | 18893.5 | KEY PIT    | 16783.4 | G B N P    | 13956.7 |
| KEY PIT    | 14601.7  | LEHMAN CAV | 19945.2  | ANT SPR TR | 11998.1  | CATH GORGE | 18410.9 | BRUCE CYN  | 19904.3 | BRUCE CYN  | 13546.8 |
| RED MTNS   | 14315.6  | BRUCE CYN  | 14034.4  | CLEAR LAKE | 11984.5  | HILND RNO  | 17859.9 | VAL FIRE   | 14734.0 | ANT SPR TR | 12341.0 |
| MOA VA FSH | 13562.9  | MOA VA FSH | 13717.1  | PAM LAKES  | 11394.4  | WYNE KIRCH | 16600.4 | STEAMBOAT  | 12466.2 | RUBY LAKE  | 11705.4 |
| PAM LAKES  | 11398.3  | PAM LAKES  | 11916.9  | BRUCE CYN  | 11326.0  | RED MTNS   | 16149.7 | DEER HAS C | 13457.4 | MERC GAP   | 14151.8 |
| LEX ARCH   | 11416.2  | DNMR       | 11343.8  | DNMR       | 11327.8  | BRUCE CYN  | 13393.0 | RIP ARCH   | 13384.6 | GLEASH CYN | 11457.5 |
| DNMR       | 11327.8  | RIP ARCH   | 11049.3  | CATH GORGE | 10871.2  | RUBY LAKE  | 14598.6 | IND PEAK   | 12358.3 | WYNE KIRCH | 13789.0 |
| WHEELER PK | 10328.3  | DEER HAS C | 10830.7  | HILND RNO  | 10743.2  | MERC GAP   | 14169.6 | LEX ARCH   | 12190.4 | CATH GORGE | 12572.3 |
|            |          | WYNE KIRCH | 10805.4  | WHEELER PK | 10465.3  | STEAMBOAT  | 12366.8 | WYNE KIRCH | 11322.5 | HILND RNO  | 12402.2 |
|            |          | DEER HAS C | 10515.9  | LEX ARCH   | 10371.2  | WHEELER PK | 10998.9 | HEUSSER MT | 12194.8 | SPR VAL FL | 11961.1 |
|            |          | LEX ARCH   | 10371.2  | GLEASH CYN | 10214.7  | RR VAL WMA | 12479.0 | MT GRAFTON | 10786.7 | SPR VAL FL | 11961.1 |
|            |          | STEAMBOAT  | 10240.6  |            |          | DEER HAS C | 12304.6 | MOA VA FSH | 10563.0 | SHOS PYGMY | 10962.2 |
|            |          |            |          |            |          | G B N P    | 12249.1 |            |         | DRES       | 10935.8 |
|            |          |            |          |            |          | HEUSSER MT | 12194.8 |            |         | RR VAL WMA | 10906.7 |
|            |          |            |          |            |          | TROY PEAK  | 12043.3 |            |         | IND PEAK   | 10675.1 |
|            |          |            |          |            |          | SPR VAL FL | 12020.8 |            |         | PR BIG SPR | 10466.3 |
|            |          |            |          |            |          | RIP ARCH   | 11737.2 |            |         |            |         |
|            |          |            |          |            |          | ANT SPR TR | 11316.2 |            |         |            |         |
|            |          |            |          |            |          | SHOS PYGMY | 10933.4 |            |         |            |         |
|            |          |            |          |            |          | PR BIG SPR | 10563.1 |            |         |            |         |
|            |          |            |          |            |          | KEY PIT    | 10285.1 |            |         |            |         |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for 79 significant natural areas.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 2        | Coyote Delta   | 4,654                                   | 5,102                         | 574                       | 1                               |
| 2            | 6        | Milford Coyote | 4,788                                   | 5,671                         | 638                       | 2                               |
| 3            | 0        | Coyote Milford | 4,813                                   | 5,593                         | 629                       | 3                               |
| 4            | 1        | Coyote Beryl   | 5,500                                   | 6,387                         | 719                       | 4                               |
| 5            | 4        | Beryl Coyote   | 5,701                                   | 6,718                         | 756                       | 5                               |
| 6            | 5        | Milford Ely    | 6,364                                   | 6,991                         | 786                       | 6                               |
| 7            | 3        | Beryl Ely      | 7,278                                   | 7,174                         | 807                       | 7                               |

3959

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

## EFFECT INDEX OF BASING ALTERNATIVES ON RECREATION AREAS

ALTERNATIVE NO. 0  
 BASE A: COYOTE LONG TERM POP 15967 0  
 BASE B: MILFORD LONG TERM POP 13071 0

| NO. | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 3.0   | LAKE HEAD     | 56.0       | 56.0  | 56.0  | 13850.2                | 13850.2 | 13850.2 | 176.0      | 176.0 | 176.0 | 3207.8                 | 3207.8  | 3207.8  | 17058.0          | 17058.0 | 17058.0 |
| 2   | 3.0   | ZION PARK     | 116.0      | 116.0 | 116.0 | 8673.3                 | 8673.3  | 8673.3  | 76.0       | 76.0  | 76.0  | 10058.8                | 10058.8 | 10058.8 | 18732.3          | 18732.3 | 18732.3 |
| 3   | 3.0   | BRUCE CAN     | 168.0      | 168.0 | 168.0 | 4439.4                 | 4439.4  | 4439.4  | 76.0       | 76.0  | 76.0  | 10058.8                | 10058.8 | 10058.8 | 14498.2          | 14498.2 | 14498.2 |
| 4   | 3.0   | CEDAR BRKS    | 132.0      | 132.0 | 132.0 | 7243.1                 | 7243.1  | 7243.1  | 56.0       | 56.0  | 56.0  | 11338.2                | 11338.2 | 11338.2 | 18583.2          | 18583.2 | 18583.2 |
| 5   | 1.0   | WHITE RIV     | 152.0      | 152.0 | 152.0 | 1.3                    | 1.3     | 1.3     | 132.0      | 132.0 | 132.0 | 10.7                   | 10.7    | 10.7    | 11.9             | 11.9    | 11.9    |
| 6   | 1.0   | WARD MT       | 168.0      | 168.0 | 168.0 | 0.2                    | 0.2     | 0.2     | 120.0      | 120.0 | 120.0 | 36.4                   | 36.4    | 36.4    | 36.8             | 36.8    | 36.8    |
| 7   | 1.0   | SHELL CRK     | 172.0      | 188.0 | 180.0 | 0.1                    | 0.0     | 0.0     | 104.0      | 120.0 | 112.0 | 158.1                  | 36.4    | 78.1    | 158.2            | 36.4    | 78.1    |
| 8   | 2.0   | WHEELER PK    | 160.0      | 160.0 | 160.0 | 1171.3                 | 1171.3  | 1171.3  | 80.0       | 80.0  | 80.0  | 6802.8                 | 6802.8  | 6802.8  | 7974.3           | 7974.3  | 7974.3  |
| 9   | 2.0   | RUBY MTN      | 272.0      | 272.0 | 272.0 | 8.4                    | 8.4     | 8.4     | 208.0      | 208.0 | 208.0 | 158.1                  | 158.1   | 158.1   | 166.3            | 166.3   | 166.3   |
| 10  | 1.0   | DIXIE W S     | 76.0       | 92.0  | 84.0  | 1511.3                 | 304.3   | 896.3   | 80.0       | 80.0  | 80.0  | 959.0                  | 959.0   | 959.0   | 2470.3           | 1463.3  | 1853.3  |
| 11  | 1.0   | DIX E S       | 136.0      | 144.0 | 140.0 | 8.4                    | 3.4     | 5.4     | 32.0       | 64.0  | 58.0  | 4235.0                 | 2436.1  | 3311.3  | 4243.4           | 2459.4  | 3316.6  |
| 12  | 1.0   | RED CANYON    | 160.0      | 160.0 | 160.0 | 0.3                    | 0.3     | 0.3     | 64.0       | 64.0  | 64.0  | 2456.1                 | 2456.1  | 2456.1  | 2456.3           | 2456.3  | 2456.3  |
| 13  | 1.0   | KENTS LN      | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 32.0       | 32.0  | 32.0  | 8605.8                 | 8605.8  | 8605.8  | 8605.9           | 8605.9  | 8605.9  |
| 14  | 1.0   | SHELL OIL     | 212.0      | 212.0 | 212.0 | 0.0                    | 0.0     | 0.0     | 36.0       | 56.0  | 36.0  | 3634.2                 | 3634.2  | 3634.2  | 3634.2           | 3634.2  | 3634.2  |
| 15  | 1.0   | DAK CREEK     | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 0.0        | 0.0   | 0.0   | 959.0                  | 959.0   | 959.0   | 959.0            | 959.0   | 959.0   |
| 16  | 1.0   | LITTLE VLY    | 244.0      | 244.0 | 244.0 | 0.0                    | 0.0     | 0.0     | 116.0      | 116.0 | 116.0 | 32.8                   | 32.8    | 32.8    | 32.8             | 32.8    | 32.8    |
| 17  | 2.0   | VALLEY FIR    | 32.0       | 32.0  | 32.0  | 14382.8                | 14382.8 | 14382.8 | 160.0      | 160.0 | 160.0 | 959.0                  | 959.0   | 959.0   | 15241.8          | 15241.8 | 15241.8 |
| 18  | 2.0   | BEAVER DAM    | 72.0       | 72.0  | 72.0  | 9407.9                 | 9407.9  | 9407.9  | 84.0       | 84.0  | 84.0  | 4362.3                 | 4362.3  | 4362.3  | 15770.2          | 15770.2 | 15770.2 |
| 19  | 2.0   | GORGE         | 76.0       | 76.0  | 76.0  | 8856.4                 | 8856.4  | 8856.4  | 88.0       | 88.0  | 88.0  | 5931.0                 | 5931.0  | 5931.0  | 14787.4          | 14787.4 | 14787.4 |
| 20  | 2.0   | SNOW CYN      | 80.0       | 80.0  | 80.0  | 8310.0                 | 8310.0  | 8310.0  | 92.0       | 92.0  | 92.0  | 5510.9                 | 5510.9  | 5510.9  | 13820.9          | 13820.9 | 13820.9 |
| 21  | 2.0   | ECHO CYN      | 92.0       | 92.0  | 92.0  | 6731.9                 | 6731.9  | 6731.9  | 72.0       | 72.0  | 72.0  | 7701.5                 | 7701.5  | 7701.5  | 14433.4          | 14433.4 | 14433.4 |
| 22  | 2.0   | CORRAL PNM    | 128.0      | 128.0 | 128.0 | 3000.2                 | 3000.2  | 3000.2  | 100.0      | 100.0 | 100.0 | 4711.4                 | 4711.4  | 4711.4  | 7711.6           | 7711.6  | 7711.6  |
| 23  | 2.0   | CHARCOAL      | 136.0      | 136.0 | 136.0 | 1332.8                 | 1332.8  | 1332.8  | 112.0      | 112.0 | 112.0 | 3634.2                 | 3634.2  | 3634.2  | 4967.0           | 4967.0  | 4967.0  |
| 24  | 1.0   | GUNLOCK       | 72.0       | 72.0  | 72.0  | 1924.4                 | 1924.4  | 1924.4  | 92.0       | 92.0  | 92.0  | 413.0                  | 413.0   | 413.0   | 2337.4           | 2337.4  | 2337.4  |
| 25  | 2.0   | ENTERPRISE    | 76.0       | 76.0  | 76.0  | 8856.4                 | 8856.4  | 8856.4  | 80.0       | 80.0  | 80.0  | 6802.8                 | 6802.8  | 6802.8  | 15659.2          | 15659.2 | 15659.2 |
| 26  | 1.0   | NAVEPAN LN    | 144.0      | 144.0 | 144.0 | 3.4                    | 3.4     | 3.4     | 64.0       | 64.0  | 64.0  | 2456.1                 | 2456.1  | 2456.1  | 2456.3           | 2456.3  | 2456.3  |
| 27  | 2.0   | OTTER CRK     | 192.0      | 192.0 | 192.0 | 371.2                  | 371.2   | 371.2   | 60.0       | 60.0  | 60.0  | 9052.4                 | 9052.4  | 9052.4  | 9423.7           | 9423.7  | 9423.7  |
| 28  | 2.0   | PIUTE LAKE    | 180.0      | 180.0 | 180.0 | 383.3                  | 383.3   | 383.3   | 44.0       | 44.0  | 44.0  | 10727.9                | 10727.9 | 10727.9 | 11313.2          | 11313.2 | 11313.2 |
| 29  | 2.0   | MINNERSVILLE  | 156.0      | 156.0 | 156.0 | 1332.8                 | 1332.8  | 1332.8  | 16.0       | 16.0  | 16.0  | 12734.0                | 12734.0 | 12734.0 | 14066.7          | 14066.7 | 14066.7 |
| 30  | 2.0   | YUDA LAKE     | 244.0      | 244.0 | 244.0 | 36.7                   | 36.7    | 36.7    | 92.0       | 92.0  | 92.0  | 5510.9                 | 5510.9  | 5510.9  | 5547.6           | 5547.6  | 5547.6  |
| 31  | 1.0   | CUMING LN     | 168.0      | 168.0 | 168.0 | 0.2                    | 0.2     | 0.2     | 112.0      | 112.0 | 112.0 | 78.1                   | 78.1    | 78.1    | 78.3             | 78.3    | 78.3    |
| 32  | 1.0   | SASSETT LN    | 140.0      | 140.0 | 140.0 | 5.4                    | 5.4     | 5.4     | 96.0       | 96.0  | 96.0  | 303.8                  | 303.8   | 303.8   | 309.2            | 309.2   | 309.2   |
| 33  | 2.0   | LAS VEGAS     | 24.0       | 24.0  | 24.0  | 15053.5                | 15053.5 | 15053.5 | 168.0      | 168.0 | 168.0 | 733.7                  | 733.7   | 733.7   | 15789.3          | 15789.3 | 15789.3 |
| 34  | 1.0   | SAND MOUNT    | 92.0       | 92.0  | 92.0  | 504.3                  | 504.3   | 504.3   | 96.0       | 96.0  | 96.0  | 303.8                  | 303.8   | 303.8   | 808.4            | 808.4   | 808.4   |
| 35  | 3.0   | LITTLE SAN    | 248.0      | 248.0 | 248.0 | 981.4                  | 981.4   | 981.4   | 100.0      | 100.0 | 100.0 | 8305.2                 | 8305.2  | 8305.2  | 9286.6           | 9286.6  | 9286.6  |

## EFFECT INDEX OF BASING ALTERNATIVES ON RECREATION AREAS

ALTERNATIVE NO. 1  
 BASE A: COYOTE LONG TERM POP 15967 0  
 BASE B: SERVL LONG TERM POP 12834 0

| NO | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|    |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1  | 3.0  | LAKE HEAD     | 56.0       | 56.0  | 56.0  | 13850.2                | 13850.2 | 13850.2 | 124.0      | 124.0 | 124.0 | 6390.3                 | 6390.3  | 6390.3  | 20240.3          | 20240.3 | 20240.3 |
| 2  | 3.0  | ZION PARK     | 116.0      | 116.0 | 116.0 | 8673.3                 | 8673.3  | 8673.3  | 32.0       | 32.0  | 32.0  | 12231.6                | 12231.6 | 12231.6 | 20925.1          | 20925.1 | 20925.1 |
| 3  | 3.0  | BRUCE CAN     | 168.0      | 168.0 | 168.0 | 4439.4                 | 4439.4  | 4439.4  | 96.0       | 96.0  | 96.0  | 8449.8                 | 8449.8  | 8449.8  | 12889.2          | 12889.2 | 12889.2 |
| 4  | 3.0  | CEDAR BRKS    | 132.0      | 132.0 | 132.0 | 7243.1                 | 7243.1  | 7243.1  | 56.0       | 56.0  | 56.0  | 11132.6                | 11132.6 | 11132.6 | 18377.6          | 18377.6 | 18377.6 |
| 5  | 1.0  | WHITE RIV     | 152.0      | 152.0 | 152.0 | 1.3                    | 1.3     | 1.3     | 116.0      | 116.0 | 116.0 | 32.9                   | 32.9    | 32.9    | 34.1             | 34.1    | 34.1    |
| 6  | 1.0  | WARD MT       | 168.0      | 168.0 | 168.0 | 0.2                    | 0.2     | 0.2     | 116.0      | 116.0 | 116.0 | 32.9                   | 32.9    | 32.9    | 33.0             | 33.0    | 33.0    |
| 7  | 1.0  | SHELL CRK     | 172.0      | 168.0 | 180.0 | 0.1                    | 0.0     | 0.0     | 108.0      | 128.0 | 118.0 | 109.8                  | 16.0    | 43.7    | 109.9            | 16.0    | 43.7    |
| 8  | 2.0  | WHEELER PK    | 160.0      | 160.0 | 160.0 | 1171.3                 | 1171.3  | 1171.3  | 88.0       | 88.0  | 88.0  | 3823.3                 | 3823.3  | 3823.3  | 6994.9           | 6994.9  | 6994.9  |
| 9  | 2.0  | RUBY MTN      | 272.0      | 272.0 | 272.0 | 9.4                    | 8.4     | 8.4     | 232.0      | 232.0 | 232.0 | 52.9                   | 52.9    | 52.9    | 61.3             | 61.3    | 61.3    |
| 10 | 1.0  | DIXIE W S     | 76.0       | 92.0  | 84.0  | 1511.3                 | 304.3   | 896.3   | 24.0       | 40.0  | 32.0  | 10145.2                | 6679.3  | 8449.8  | 11656.3          | 7184.0  | 9346.1  |
| 11 | 1.0  | DIX E S       | 136.0      | 144.0 | 140.0 | 8.4                    | 3.4     | 5.4     | 36.0       | 68.0  | 62.0  | 2566.3                 | 1944.0  | 2672.8  | 3576.7           | 1947.4  | 2678.9  |
| 12 | 1.0  | RED CANYON    | 160.0      | 160.0 | 160.0 | 0.3                    | 0.3     | 0.3     | 84.0       | 84.0  | 84.0  | 720.4                  | 720.4   | 720.4   | 720.9            | 720.9   | 720.9   |
| 13 | 1.0  | KENTS LN      | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 80.0       | 80.0  | 80.0  | 941.6                  | 941.6   | 941.6   | 941.7            | 941.7   | 941.7   |
| 14 | 1.0  | SHELL OIL     | 212.0      | 212.0 | 212.0 | 0.0                    | 0.0     | 0.0     | 116.0      | 116.0 | 116.0 | 52.9                   | 52.9    | 52.9    | 52.9             | 52.9    | 52.9    |
| 15 | 1.0  | DAK CREEK     | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 140.0      | 140.0 | 140.0 | 4.3                    | 4.3     | 4.3     | 4.3              | 4.3     | 4.3     |
| 16 | 1.0  | LITTLE VLY    | 244.0      | 244.0 | 244.0 | 0.0                    | 0.0     | 0.0     | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 0.1              | 0.1     | 0.1     |
| 17 | 2.0  | VALLEY FIR    | 32.0       | 32.0  | 32.0  | 14382.8                | 14382.8 | 14382.8 | 104.0      | 104.0 | 104.0 | 4256.4                 | 4256.4  | 4256.4  | 18639.2          | 18639.2 | 18639.2 |
| 18 | 2.0  | BEAVER DAM    | 72.0       | 72.0  | 72.0  | 9407.9                 | 9407.9  | 9407.9  | 28.0       | 28.0  | 28.0  | 11847.3                | 11847.3 | 11847.3 | 21255.1          | 21255.1 | 21255.1 |
| 19 | 2.0  | GORGE         | 76.0       | 76.0  | 76.0  | 8856.4                 | 8856.4  | 8856.4  | 32.0       | 32.0  | 32.0  | 11560.7                | 11560.7 | 11560.7 | 20417.0          | 20417.0 | 20417.0 |
| 20 | 2.0  | SNOW CYN      | 80.0       | 80.0  | 80.0  | 8310.0                 | 8310.0  | 8310.0  | 36.0       | 36.0  | 36.0  | 11244.2                | 11244.2 | 11244.2 | 19354.2          | 19354.2 | 19354.2 |
| 21 | 2.0  | ECHO CYN      | 92.0       | 92.0  | 92.0  | 6731.9                 | 6731.9  | 6731.9  | 24.0       | 24.0  | 24.0  | 12101.4                | 12101.4 | 12101.4 | 18833.3          | 18833.3 | 18833.3 |
| 22 | 2.0  | CORRAL PNM    | 128.0      | 128.0 | 128.0 | 3000.2                 | 3000.2  | 3000.2  | 84.0       | 84.0  | 84.0  | 6247.0                 | 6247.0  | 6247.0  | 9247.2           | 9247.2  | 9247.2  |
| 23 | 2.0  | CHARCOAL      | 136.0      | 136.0 | 136.0 | 1332.8                 | 1332.8  | 1332.8  | 104.0      | 104.0 | 104.0 | 4256.4                 | 4256.4  | 4256.4  | 5585.2           | 5585.2  | 5585.2  |
| 24 | 1.0  | GUNLOCK       | 72.0       | 72.0  | 72.0  | 1924.4                 | 1924.4  | 1924.4  | 40.0       | 40.0  | 40.0  | 6679.3                 | 6679.3  | 6679.3  | 8603.8           | 8603.8  | 8603.8  |
| 25 | 2.0  | ENTERPRISE    | 76.0       | 76.0  | 76.0  | 8856.4                 | 8856.4  | 8856.4  | 24.0       | 24.0  | 24.0  | 12101.4                | 12101.4 | 12101.4 | 20957.8          | 20957.8 | 20957.8 |
| 26 | 1.0  | NAVEPAN LN    | 144.0      | 144.0 | 144.0 | 3.4                    | 3.4     | 3.4     | 68.0       | 68.0  | 68.0  | 1944.0                 | 1944.0  | 1944.0  | 1947.4           | 1947.4  | 1947.4  |
| 27 | 2.0  | OTTER CRK     | 192.0      | 192.0 | 192.0 | 371.2                  | 371.2   | 371.2   | 104.0      | 104.0 | 104.0 | 4256.4                 | 4256.4  | 4256.4  | 4627.6           | 4627.6  | 4627.6  |
| 28 | 2.0  | PIUTE LAKE    | 180.0      | 180.0 | 180.0 | 383.3                  | 383.3   | 383.3   | 92.0       | 92.0  | 92.0  | 5410.9                 | 5410.9  | 5410.9  | 5996.3           | 5996.3  | 5996.3  |
| 29 | 2.0  | MINNERSVILLE  | 156.0      | 156.0 | 156.0 | 1332.8                 | 1332.8  | 1332.8  | 84.0       | 84.0  | 84.0  | 8449.8                 | 8449.8  | 8449.8  | 9782.3           | 9782.3  | 9782.3  |
| 30 | 2.0  | YUBA LAKE     | 244.0      | 244.0 | 244.0 | 36.7                   | 36.7    | 36.7    | 152.0      | 152.0 | 152.0 | 1214.8                 | 1214.8  | 1214.8  | 1251.3           | 1251.3  | 1251.3  |
| 31 | 1.0  | CURLING LA    | 168.0      | 168.0 | 168.0 | 0.2                    | 0.2     | 0.2     | 108.0      | 108.0 | 108.0 | 109.8                  | 109.8   | 109.8   | 110.0            | 110.0   | 110.0   |
| 32 | 1.0  | SASSETT LA    | 140.0      | 140.0 | 140.0 | 5.4                    | 5.4     | 5.4     | 92.0       | 92.0  | 92.0  | 405.3                  | 405.3   | 405.3   | 410.9            | 410.9   | 410.9   |
| 33 | 2.0  | LAS VEGAS     | 24.0       | 24.0  | 24.0  | 15055.6                | 15055.6 | 15055.6 | 112.0      | 112.0 | 112.0 | 3568.3                 | 3568.3  | 3568.3  | 18623.9          | 18623.9 | 18623.9 |
| 34 | 1.0  | BAND MOUNT    | 92.0       | 92.0  | 92.0  | 304.3                  | 304.3   | 304.3   | 60.0       | 60.0  | 60.0  | 2952.7                 | 2952.7  | 2952.7  | 3457.2           | 3457.2  | 3457.2  |
| 35 | 3.0  | LITTLE SAND   | 248.0      | 248.0 | 248.0 | 981.4                  | 981.4   | 981.4   | 152.0      | 152.0 | 152.0 | 4501.0                 | 4501.0  | 4501.0  | 5482.4           | 5482.4  | 5482.4  |

## EFFECT INDEX OF BASING ALTERNATIVES ON RECREATION AREAS

ALTERNATIVE NO. 2  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: DELTA LONG TERM POP. 13679.0

| NO. | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 3.0   | LAKE HEAD     | 36.0       | 36.0  | 36.0  | 13830.2                | 13830.2 | 13830.2 | 232.0      | 232.0 | 232.0 | 767.9                  | 767.9   | 767.9   | 14618.1          | 14618.1 | 14618.1 |
| 2   | 3.0   | ZION PARK     | 116.0      | 116.0 | 116.0 | 8673.3                 | 8673.3  | 8673.3  | 148.0      | 148.0 | 148.0 | 5063.7                 | 5063.7  | 5063.7  | 13739.2          | 13739.2 | 13739.2 |
| 3   | 3.0   | BRYCE CAN     | 168.0      | 168.0 | 168.0 | 4439.4                 | 4439.4  | 4439.4  | 128.0      | 128.0 | 128.0 | 6306.6                 | 6306.6  | 6306.6  | 10946.1          | 10946.1 | 10946.1 |
| 4   | 3.0   | CEDAR BRKS    | 132.0      | 132.0 | 132.0 | 7243.1                 | 7243.1  | 7243.1  | 124.0      | 124.0 | 124.0 | 6811.0                 | 6811.0  | 6811.0  | 14036.1          | 14036.1 | 14036.1 |
| 5   | 1.0   | WHITE RIV     | 152.0      | 152.0 | 152.0 | 1.3                    | 1.3     | 1.3     | 136.0      | 136.0 | 136.0 | 0.7                    | 0.7     | 0.7     | 1.9              | 1.9     | 1.9     |
| 6   | 1.0   | WARD HT       | 168.0      | 168.0 | 168.0 | 0.2                    | 0.2     | 0.2     | 132.0      | 132.0 | 132.0 | 11.2                   | 11.2    | 11.2    | 11.3             | 11.3    | 11.3    |
| 7   | 1.0   | SHELL CRK     | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 112.0      | 112.0 | 112.0 | 81.7                   | 81.7    | 81.7    | 81.8             | 81.8    | 81.8    |
| 8   | 2.0   | WHEELER PK    | 180.0      | 180.0 | 180.0 | 1171.3                 | 1171.3  | 1171.3  | 96.0       | 96.0  | 96.0  | 3341.2                 | 3341.2  | 3341.2  | 6312.7           | 6312.7  | 6312.7  |
| 9   | 2.0   | RUBY MTN      | 272.0      | 272.0 | 272.0 | 8.4                    | 8.4     | 8.4     | 184.0      | 184.0 | 184.0 | 432.2                  | 432.2   | 432.2   | 440.6            | 440.6   | 440.6   |
| 10  | 1.0   | DIXIE M S     | 76.0       | 76.0  | 76.0  | 1311.3                 | 304.3   | 894.3   | 132.0      | 132.0 | 132.0 | 1.1                    | 1.1     | 1.1     | 1312.4           | 305.6   | 897.4   |
| 11  | 1.0   | DIX E S       | 136.0      | 144.0 | 140.0 | 8.4                    | 3.4     | 5.4     | 120.0      | 128.0 | 124.0 | 38.3                   | 17.1    | 25.7    | 46.7             | 20.4    | 31.1    |
| 12  | 1.0   | RED CANYON    | 160.0      | 160.0 | 160.0 | 0.3                    | 0.3     | 0.3     | 116.0      | 116.0 | 116.0 | 36.3                   | 36.3    | 36.3    | 36.8             | 36.8    | 36.8    |
| 13  | 1.0   | KENTS LA      | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 76.0       | 76.0  | 76.0  | 1294.7                 | 1294.7  | 1294.7  | 1294.8           | 1294.8  | 1294.8  |
| 14  | 1.0   | SHELL OIL     | 212.0      | 212.0 | 212.0 | 0.0                    | 0.0     | 0.0     | 40.0       | 40.0  | 40.0  | 7119.2                 | 7119.2  | 7119.2  | 7119.2           | 7119.2  | 7119.2  |
| 15  | 1.0   | OAK CREEK     | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 20.0       | 20.0  | 20.0  | 11618.3                | 11618.3 | 11618.3 | 11618.3          | 11618.3 | 11618.3 |
| 16  | 1.0   | LITTLE VLY    | 264.0      | 264.0 | 264.0 | 0.0                    | 0.0     | 0.0     | 44.0       | 44.0  | 44.0  | 6206.9                 | 6206.9  | 6206.9  | 6206.9           | 6206.9  | 6206.9  |
| 17  | 2.0   | VALLEY FIR    | 32.0       | 32.0  | 32.0  | 14382.8                | 14382.8 | 14382.8 | 228.0      | 228.0 | 228.0 | 68.0                   | 68.0    | 68.0    | 14430.8          | 14430.8 | 14430.8 |
| 18  | 2.0   | BEAVER DAM    | 72.0       | 72.0  | 72.0  | 9407.9                 | 9407.9  | 9407.9  | 136.0      | 136.0 | 136.0 | 1141.8                 | 1141.8  | 1141.8  | 10349.6          | 10349.6 | 10349.6 |
| 19  | 2.0   | GORGE         | 76.0       | 76.0  | 76.0  | 8856.4                 | 8856.4  | 8856.4  | 148.0      | 148.0 | 148.0 | 1463.4                 | 1463.4  | 1463.4  | 10319.8          | 10319.8 | 10319.8 |
| 20  | 2.0   | SNOW CYN      | 80.0       | 80.0  | 80.0  | 8310.0                 | 8310.0  | 8310.0  | 164.0      | 164.0 | 164.0 | 879.3                  | 879.3   | 879.3   | 9189.3           | 9189.3  | 9189.3  |
| 21  | 2.0   | ECHO CYN      | 92.0       | 92.0  | 92.0  | 6731.9                 | 6731.9  | 6731.9  | 132.0      | 132.0 | 132.0 | 2311.3                 | 2311.3  | 2311.3  | 9043.4           | 9043.4  | 9043.4  |
| 22  | 2.0   | CORRAL PNM    | 128.0      | 128.0 | 128.0 | 3000.2                 | 3000.2  | 3000.2  | 172.0      | 172.0 | 172.0 | 646.4                  | 646.4   | 646.4   | 3668.6           | 3668.6  | 3668.6  |
| 23  | 2.0   | CHARCOAL      | 136.0      | 136.0 | 136.0 | 1332.8                 | 1332.8  | 1332.8  | 128.0      | 128.0 | 128.0 | 2370.3                 | 2370.3  | 2370.3  | 3903.1           | 3903.1  | 3903.1  |
| 24  | 1.0   | GUNLOCK       | 72.0       | 72.0  | 72.0  | 1924.4                 | 1924.4  | 1924.4  | 164.0      | 164.0 | 164.0 | 0.2                    | 0.2     | 0.2     | 1924.6           | 1924.6  | 1924.6  |
| 25  | 2.0   | ENTERPRISE    | 76.0       | 76.0  | 76.0  | 8856.4                 | 8856.4  | 8856.4  | 132.0      | 132.0 | 132.0 | 1294.7                 | 1294.7  | 1294.7  | 10131.1          | 10131.1 | 10131.1 |
| 26  | 1.0   | NAVSPAN LK    | 144.0      | 144.0 | 144.0 | 3.4                    | 3.4     | 3.4     | 128.0      | 128.0 | 128.0 | 17.1                   | 17.1    | 17.1    | 20.4             | 20.4    | 20.4    |
| 27  | 2.0   | OTTER CRK     | 192.0      | 192.0 | 192.0 | 371.2                  | 371.2   | 371.2   | 92.0       | 92.0  | 92.0  | 3767.2                 | 3767.2  | 3767.2  | 6138.4           | 6138.4  | 6138.4  |
| 28  | 2.0   | PIUTE LAKE    | 180.0      | 180.0 | 180.0 | 385.3                  | 385.3   | 385.3   | 76.0       | 76.0  | 76.0  | 7387.3                 | 7387.3  | 7387.3  | 8172.6           | 8172.6  | 8172.6  |
| 29  | 2.0   | MINNERSVILLE  | 136.0      | 136.0 | 136.0 | 1332.8                 | 1332.8  | 1332.8  | 80.0       | 80.0  | 80.0  | 7119.2                 | 7119.2  | 7119.2  | 8452.0           | 8452.0  | 8452.0  |
| 30  | 2.0   | YUBA LAKE     | 244.0      | 244.0 | 244.0 | 36.7                   | 36.7    | 36.7    | 32.0       | 32.0  | 32.0  | 12321.8                | 12321.8 | 12321.8 | 12358.3          | 12358.3 | 12358.3 |
| 31  | 1.0   | CURINS LK     | 168.0      | 168.0 | 168.0 | 0.2                    | 0.2     | 0.2     | 124.0      | 124.0 | 124.0 | 25.7                   | 25.7    | 25.7    | 25.9             | 25.9    | 25.9    |
| 32  | 1.0   | BASSETT LK    | 140.0      | 140.0 | 140.0 | 5.4                    | 5.4     | 5.4     | 124.0      | 124.0 | 124.0 | 25.7                   | 25.7    | 25.7    | 31.1             | 31.1    | 31.1    |
| 33  | 2.0   | LAS VEGAS     | 24.0       | 24.0  | 24.0  | 15033.6                | 15033.6 | 15033.6 | 240.0      | 240.0 | 240.0 | 38.3                   | 38.3    | 38.3    | 15093.9          | 15093.9 | 15093.9 |
| 34  | 1.0   | SAND MOUNT    | 92.0       | 92.0  | 92.0  | 304.3                  | 304.3   | 304.3   | 168.0      | 168.0 | 168.0 | 0.1                    | 0.1     | 0.1     | 304.6            | 304.6   | 304.6   |
| 35  | 3.0   | LITTLE SAN    | 248.0      | 248.0 | 248.0 | 981.4                  | 981.4   | 981.4   | 24.0       | 24.0  | 24.0  | 13326.3                | 13326.3 | 13326.3 | 14307.7          | 14307.7 | 14307.7 |

## EFFECT INDEX OF BASING ALTERNATIVES ON RECREATION AREAS

ALTERNATIVE NO. 3  
 BASE A: BERYL LONG TERM POP. 16943.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO. | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 3.0  | LAKE HEAD     | 124.0      | 124.0 | 124.0 | 8436.2                 | 8436.2  | 8436.2  | 236.0      | 236.0 | 236.0 | 1147.6                 | 1147.6  | 1147.6  | 9583.8           | 9583.8  | 9583.8  |
| 2   | 3.0  | ZION PARK     | 32.0       | 32.0  | 32.0  | 16174.2                | 16174.2 | 16174.2 | 172.0      | 172.0 | 172.0 | 3750.4                 | 3750.4  | 3750.4  | 19924.6          | 19924.6 | 19924.6 |
| 3   | 3.0  | BRYCE CAN     | 96.0       | 96.0  | 96.0  | 11155.1                | 11155.1 | 11155.1 | 188.0      | 188.0 | 188.0 | 2888.2                 | 2888.2  | 2888.2  | 14043.3          | 14043.3 | 14043.3 |
| 4   | 3.0  | CEDAR BRKS    | 36.0       | 36.0  | 36.0  | 14696.8                | 14696.8 | 14696.8 | 160.0      | 160.0 | 160.0 | 4493.1                 | 4493.1  | 4493.1  | 19189.9          | 19189.9 | 19189.9 |
| 5   | 1.0  | WHITE RIV     | 116.0      | 116.0 | 116.0 | 69.8                   | 69.8    | 69.8    | 36.0       | 36.0  | 36.0  | 8432.3                 | 8432.3  | 8432.3  | 8523.1           | 8523.1  | 8523.1  |
| 6   | 1.0  | WARD HT       | 116.0      | 116.0 | 116.0 | 69.8                   | 69.8    | 69.8    | 8.0        | 8.0   | 8.0   | 13977.1                | 13977.1 | 13977.1 | 14046.9          | 14046.9 | 14046.9 |
| 7   | 1.0  | SHELL CRK     | 108.0      | 128.0 | 118.0 | 145.0                  | 21.1    | 37.6    | 16.0       | 24.0  | 20.0  | 12923.3                | 11341.2 | 12183.9 | 11262.3          | 11262.3 | 11262.3 |
| 8   | 2.0  | WHEELER PM    | 88.0       | 88.0  | 88.0  | 7687.9                 | 7687.9  | 7687.9  | 40.0       | 40.0  | 40.0  | 12183.9                | 12183.9 | 12183.9 | 19873.8          | 19873.8 | 19873.8 |
| 9   | 2.0  | RUBY MTN      | 232.0      | 232.0 | 232.0 | 69.8                   | 69.8    | 69.8    | 104.0      | 104.0 | 104.0 | 4758.2                 | 4758.2  | 4758.2  | 4828.0           | 4828.0  | 4828.0  |
| 10  | 1.0  | DIXIE M S     | 24.0       | 40.0  | 32.0  | 13393.3                | 8818.0  | 11155.1 | 132.0      | 136.0 | 144.0 | 11.7                   | 0.7     | 3.0     | 12403.0          | 8818.7  | 11158.1 |
| 11  | 1.0  | DIX E S       | 36.0       | 68.0  | 62.0  | 4710.8                 | 2366.4  | 3328.3  | 136.0      | 172.0 | 164.0 | 0.7                    | 0.1     | 0.2     | 4711.5           | 2366.5  | 3328.8  |
| 12  | 1.0  | RED CANYON    | 84.0       | 84.0  | 84.0  | 931.1                  | 931.1   | 931.1   | 176.0      | 176.0 | 176.0 | 0.0                    | 0.0     | 0.0     | 931.1            | 931.1   | 931.1   |
| 13  | 1.0  | KENTS LA      | 80.0       | 80.0  | 80.0  | 1243.1                 | 1243.1  | 1243.1  | 148.0      | 148.0 | 148.0 | 1.9                    | 1.9     | 1.9     | 1243.0           | 1243.0  | 1243.0  |
| 14  | 1.0  | SHELL OIL     | 116.0      | 116.0 | 116.0 | 69.8                   | 69.8    | 69.8    | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 72.8             | 72.8    | 72.8    |
| 15  | 1.0  | OAK CREEK     | 140.0      | 140.0 | 140.0 | 5.7                    | 5.7     | 5.7     | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 8.7              | 8.7     | 8.7     |
| 16  | 1.0  | LITTLE VLY    | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 3.1              | 3.1     | 3.1     |
| 17  | 2.0  | VALLEY FIR    | 104.0      | 104.0 | 104.0 | 3619.2                 | 3619.2  | 3619.2  | 196.0      | 196.0 | 196.0 | 284.7                  | 284.7   | 284.7   | 3903.8           | 3903.8  | 3903.8  |
| 18  | 2.0  | BEAVER DAM    | 28.0       | 28.0  | 28.0  | 15640.4                | 15640.4 | 15640.4 | 128.0      | 128.0 | 128.0 | 2695.8                 | 2695.8  | 2695.8  | 18336.2          | 18336.2 | 18336.2 |
| 19  | 2.0  | GORGE         | 32.0       | 32.0  | 32.0  | 15262.0                | 15262.0 | 15262.0 | 104.0      | 104.0 | 104.0 | 4758.2                 | 4758.2  | 4758.2  | 20020.2          | 20020.2 | 20020.2 |
| 20  | 2.0  | SNOW CYN      | 36.0       | 36.0  | 36.0  | 14844.2                | 14844.2 | 14844.2 | 160.0      | 160.0 | 160.0 | 1032.6                 | 1032.6  | 1032.6  | 15896.8          | 15896.8 | 15896.8 |
| 21  | 2.0  | ECHO CYN      | 24.0       | 24.0  | 24.0  | 13975.9                | 13975.9 | 13975.9 | 96.0       | 96.0  | 96.0  | 3602.1                 | 3602.1  | 3602.1  | 21377.9          | 21377.9 | 21377.9 |
| 22  | 2.0  | CORRAL PNM    | 84.0       | 84.0  | 84.0  | 8247.0                 | 8247.0  | 8247.0  | 196.0      | 196.0 | 196.0 | 284.7                  | 284.7   | 284.7   | 8531.7           | 8531.7  | 8531.7  |
| 23  | 2.0  | CHARCOAL      | 104.0      | 104.0 | 104.0 | 3619.2                 | 3619.2  | 3619.2  | 16.0       | 16.0  | 16.0  | 13977.1                | 13977.1 | 13977.1 | 19396.2          | 19396.2 | 19396.2 |
| 24  | 1.0  | GUNLOCK       | 40.0       | 40.0  | 40.0  | 8818.0                 | 8818.0  | 8818.0  | 132.0      | 132.0 | 132.0 | 1.2                    | 1.2     | 1.2     | 8819.1           | 8819.1  | 8819.1  |
| 25  | 2.0  | ENTERPRISE    | 24.0       | 24.0  | 24.0  | 13975.9                | 13975.9 | 13975.9 | 136.0      | 136.0 | 136.0 | 2173.2                 | 2173.2  | 2173.2  | 18149.1          | 18149.1 | 18149.1 |
| 26  | 1.0  | NAVSPAN LK    | 68.0       | 68.0  | 68.0  | 2366.4                 | 2366.4  | 2366.4  | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 2366.3           | 2366.3  | 2366.3  |
| 27  | 2.0  | OTTER CRK     | 104.0      | 104.0 | 104.0 | 3619.2                 | 3619.2  | 3619.2  | 176.0      | 176.0 | 176.0 | 608.2                  | 608.2   | 608.2   | 6227.3           | 6227.3  | 6227.3  |
| 28  | 2.0  | PIUTE LAKE    | 92.0       | 92.0  | 92.0  | 7143.3                 | 7143.3  | 7143.3  | 160.0      | 160.0 | 160.0 | 1052.6                 | 1052.6  | 1052.6  | 8196.0           | 8196.0  | 8196.0  |
| 29  | 2.0  | MINNERSVILLE  | 64.0       | 64.0  | 64.0  | 11139.1                | 11139.1 | 11139.1 | 132.0      | 132.0 | 132.0 | 2464.6                 | 2464.6  | 2464.6  | 15379.5          | 15379.5 | 15379.5 |
| 30  | 1.0  | YUBA LA       | 152.0      | 152.0 | 152.0 | 1403.7                 | 1403.7  | 1403.7  | 136.0      | 136.0 | 136.0 | 1197.3                 | 1197.3  | 1197.3  | 2801.2           | 2801.2  | 2801.2  |
| 31  | 1.0  | CUPINS LK     | 108.0      | 108.0 | 108.0 | 145.0                  | 145.0   | 145.0   | 4.0        | 4.0   | 4.0   | 14233.3                | 14233.3 | 14233.3 | 14398.6          | 14398.6 | 14398.6 |
| 32  | 1.0  | BASSETT LA    | 92.0       | 92.0  | 92.0  | 333.3                  | 333.3   | 333.3   | 16.0       | 16.0  | 16.0  | 12923.3                | 12923.3 | 12923.3 | 14398.6          | 14398.6 | 14398.6 |
| 33  | 2.0  | LAS VEGAS     | 112.0      | 112.0 | 112.0 | 4710.8                 | 4710.8  | 4710.8  | 196.0      | 196.0 | 196.0 | 284.7                  | 284.7   | 284.7   | 4993.4           | 4993.4  | 4993.4  |
| 34  | 1.0  | SAND MOUNT    | 60.0       | 60.0  | 60.0  | 3898.0                 | 3898.0  | 3898.0  | 176.0      | 176.0 | 176.0 | 0.0                    | 0.0     | 0.0     | 3898.1           | 3898.1  | 3898.1  |
| 35  | 3.0  | LITTLE SAN    | 152.0      | 152.0 | 152.0 | 5942.1                 | 5942.1  | 5942.1  | 140.0      | 140.0 | 140.0 | 5898.2                 | 5898.2  | 5898.2  | 11840.3          | 11840.3 | 11840.3 |

## EFFECT INDEX OF BASING ALTERNATIVES ON RECREATION AREAS

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP 16943.0  
 BASE B: COYOTE LONG TERM POP 12193.0

| NO. | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 3.0   | LAKE HEAD     | 124.0      | 124.0 | 124.0 | 8436.2                 | 8436.2  | 8436.2  | 36.0       | 36.0  | 36.0  | 10378.3                | 10378.3 | 10378.3 | 19014.3          | 19014.3 | 19014.3 |
| 2   | 3.0   | ZION PARK     | 32.0       | 32.0  | 32.0  | 16174.2                | 16174.2 | 16174.2 | 116.0      | 116.0 | 116.0 | 6624.3                 | 6624.3  | 6624.3  | 22798.7          | 22798.7 | 22798.7 |
| 3   | 3.0   | BRYCE CAN     | 96.0       | 96.0  | 96.0  | 11133.1                | 11133.1 | 11133.1 | 168.0      | 168.0 | 168.0 | 3390.7                 | 3390.7  | 3390.7  | 14543.8          | 14543.8 | 14543.8 |
| 4   | 3.0   | CEDAR BRKS    | 36.0       | 36.0  | 36.0  | 14696.8                | 14696.8 | 14696.8 | 132.0      | 132.0 | 132.0 | 3533.3                 | 3533.3  | 3533.3  | 20230.3          | 20230.3 | 20230.3 |
| 5   | 1.0   | WHITE RIV     | 116.0      | 116.0 | 116.0 | 69.8                   | 69.8    | 69.8    | 132.0      | 132.0 | 132.0 | 1.0                    | 1.0     | 1.0     | 70.8             | 70.8    | 70.8    |
| 6   | 1.0   | WARD MT       | 116.0      | 116.0 | 116.0 | 69.8                   | 69.8    | 69.8    | 168.0      | 168.0 | 168.0 | 0.1                    | 0.1     | 0.1     | 69.9             | 69.9    | 69.9    |
| 7   | 1.0   | SHELL CRA     | 108.0      | 108.0 | 108.0 | 145.0                  | 145.0   | 145.0   | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 145.1            | 145.1   | 145.1   |
| 8   | 2.0   | WHEELER PK    | 88.0       | 88.0  | 88.0  | 7687.9                 | 7687.9  | 7687.9  | 160.0      | 160.0 | 160.0 | 894.7                  | 894.7   | 894.7   | 8582.7           | 8582.7  | 8582.7  |
| 9   | 2.0   | RUBY MTN      | 232.0      | 232.0 | 232.0 | 69.8                   | 69.8    | 69.8    | 272.0      | 272.0 | 272.0 | 6.4                    | 6.4     | 6.4     | 76.2             | 76.2    | 76.2    |
| 10  | 1.0   | DIXIE W S     | 24.0       | 24.0  | 24.0  | 13093.3                | 8818.0  | 11193.1 | 74.0       | 92.0  | 84.0  | 1154.3                 | 383.3   | 484.6   | 14547.4          | 9203.3  | 11839.4 |
| 11  | 1.0   | DIX E S       | 36.0       | 36.0  | 36.0  | 4710.8                 | 2366.4  | 3528.3  | 136.0      | 144.0 | 140.0 | 6.4                    | 2.4     | 4.1     | 4717.2           | 2567.0  | 3532.4  |
| 12  | 1.0   | RED CANYON    | 84.0       | 84.0  | 84.0  | 931.1                  | 931.1   | 931.1   | 160.0      | 160.0 | 160.0 | 0.4                    | 0.4     | 0.4     | 931.4            | 931.4   | 931.4   |
| 13  | 1.0   | KENTS LK      | 80.0       | 80.0  | 80.0  | 1243.1                 | 1243.1  | 1243.1  | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 1243.2           | 1243.2  | 1243.2  |
| 14  | 1.0   | SHELL OIL     | 116.0      | 116.0 | 116.0 | 69.8                   | 69.8    | 69.8    | 212.0      | 212.0 | 212.0 | 0.0                    | 0.0     | 0.0     | 69.8             | 69.8    | 69.8    |
| 15  | 1.0   | OAK CREEK     | 140.0      | 140.0 | 140.0 | 3.7                    | 3.7     | 3.7     | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 3.7              | 3.7     | 3.7     |
| 16  | 1.0   | LITTLE VLY    | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 264.0      | 264.0 | 264.0 | 0.0                    | 0.0     | 0.0     | 0.1              | 0.1     | 0.1     |
| 17  | 2.0   | VALLEY FIR    | 104.0      | 104.0 | 104.0 | 3619.2                 | 3619.2  | 3619.2  | 32.0       | 32.0  | 32.0  | 10983.1                | 10983.1 | 10983.1 | 16604.2          | 16604.2 | 16604.2 |
| 18  | 2.0   | BEAVER DAM    | 28.0       | 28.0  | 28.0  | 15640.4                | 15640.4 | 15640.4 | 72.0       | 72.0  | 72.0  | 7183.4                 | 7183.4  | 7183.4  | 22823.7          | 22823.7 | 22823.7 |
| 19  | 2.0   | GORGE         | 32.0       | 32.0  | 32.0  | 15262.0                | 15262.0 | 15262.0 | 76.0       | 76.0  | 76.0  | 6764.2                 | 6764.2  | 6764.2  | 22026.1          | 22026.1 | 22026.1 |
| 20  | 2.0   | SNOW CYN      | 36.0       | 36.0  | 36.0  | 14844.2                | 14844.2 | 14844.2 | 80.0       | 80.0  | 80.0  | 6346.9                 | 6346.9  | 6346.9  | 21191.1          | 21191.1 | 21191.1 |
| 21  | 2.0   | ECHO CYN      | 24.0       | 24.0  | 24.0  | 15975.9                | 15975.9 | 15975.9 | 92.0       | 92.0  | 92.0  | 5141.3                 | 5141.3  | 5141.3  | 21117.4          | 21117.4 | 21117.4 |
| 22  | 2.0   | CORRAL PNM    | 84.0       | 84.0  | 84.0  | 8247.0                 | 8247.0  | 8247.0  | 128.0      | 128.0 | 128.0 | 2291.3                 | 2291.3  | 2291.3  | 10538.3          | 10538.3 | 10538.3 |
| 23  | 2.0   | CHARCOAL      | 104.0      | 104.0 | 104.0 | 3619.2                 | 3619.2  | 3619.2  | 136.0      | 136.0 | 136.0 | 1017.9                 | 1017.9  | 1017.9  | 6637.1           | 6637.1  | 6637.1  |
| 24  | 1.0   | GUNLOCK       | 40.0       | 40.0  | 40.0  | 8818.0                 | 8818.0  | 8818.0  | 72.0       | 72.0  | 72.0  | 1469.8                 | 1469.8  | 1469.8  | 10287.8          | 10287.8 | 10287.8 |
| 25  | 1.0   | ENTERPRISE    | 24.0       | 24.0  | 24.0  | 15975.9                | 15975.9 | 15975.9 | 76.0       | 76.0  | 76.0  | 6764.2                 | 6764.2  | 6764.2  | 22740.0          | 22740.0 | 22740.0 |
| 26  | 1.0   | NAVSAN LK     | 68.0       | 68.0  | 68.0  | 2566.4                 | 2566.4  | 2566.4  | 144.0      | 144.0 | 144.0 | 2.4                    | 2.4     | 2.4     | 2569.0           | 2569.0  | 2569.0  |
| 27  | 2.0   | OTTER CRA     | 104.0      | 104.0 | 104.0 | 3619.2                 | 3619.2  | 3619.2  | 192.0      | 192.0 | 192.0 | 283.3                  | 283.3   | 283.3   | 5902.6           | 5902.6  | 5902.6  |
| 28  | 2.0   | PIUTE LAKE    | 92.0       | 92.0  | 92.0  | 7143.3                 | 7143.3  | 7143.3  | 180.0      | 180.0 | 180.0 | 447.0                  | 447.0   | 447.0   | 7390.4           | 7390.4  | 7390.4  |
| 29  | 2.0   | MINNERSVILLE  | 64.0       | 64.0  | 64.0  | 11133.1                | 11133.1 | 11133.1 | 136.0      | 136.0 | 136.0 | 1017.9                 | 1017.9  | 1017.9  | 12173.0          | 12173.0 | 12173.0 |
| 30  | 2.0   | YUBA LAKE     | 152.0      | 152.0 | 152.0 | 1603.7                 | 1603.7  | 1603.7  | 244.0      | 244.0 | 244.0 | 28.0                   | 28.0    | 28.0    | 1631.7           | 1631.7  | 1631.7  |
| 31  | 1.0   | CURINS LK     | 108.0      | 108.0 | 108.0 | 145.0                  | 145.0   | 145.0   | 168.0      | 168.0 | 168.0 | 0.1                    | 0.1     | 0.1     | 145.1            | 145.1   | 145.1   |
| 32  | 1.0   | BASSETT LK    | 92.0       | 92.0  | 92.0  | 333.3                  | 333.3   | 333.3   | 140.0      | 140.0 | 140.0 | 4.1                    | 4.1     | 4.1     | 339.4            | 339.4   | 339.4   |
| 33  | 2.0   | LAS VEGAS     | 112.0      | 112.0 | 112.0 | 4710.8                 | 4710.8  | 4710.8  | 24.0       | 24.0  | 24.0  | 11498.9                | 11498.9 | 11498.9 | 16209.7          | 16209.7 | 16209.7 |
| 34  | 1.0   | SAND MOUNT    | 60.0       | 60.0  | 60.0  | 3898.0                 | 3898.0  | 3898.0  | 92.0       | 92.0  | 92.0  | 383.3                  | 383.3   | 383.3   | 4283.3           | 4283.3  | 4283.3  |
| 35  | 3.0   | LITTLE SAN    | 152.0      | 152.0 | 152.0 | 5942.1                 | 5942.1  | 5942.1  | 248.0      | 248.0 | 248.0 | 749.6                  | 749.6   | 749.6   | 6691.6           | 6691.6  | 6691.6  |

## EFFECT INDEX OF BASING ALTERNATIVES ON RECREATION AREAS

ALTERNATIVE NO. 3  
 BASE A: MILFORD LONG TERM POP 17221.0  
 BASE B: ELY LONG TERM POP 14347.0

| NO. | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|     |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1   | 3.0  | LAKE HEAD     | 176.0      | 176.0 | 176.0 | 4226.3                 | 4226.3  | 4226.3  | 236.0      | 236.0 | 236.0 | 1147.4                 | 1147.4  | 1147.4  | 5373.8           | 5373.8  | 5373.8  |
| 2   | 3.0  | ZION PARK     | 76.0       | 76.0  | 76.0  | 13252.4                | 13252.4 | 13252.4 | 172.0      | 172.0 | 172.0 | 3730.4                 | 3730.4  | 3730.4  | 17002.8          | 17002.8 | 17002.8 |
| 3   | 3.0  | BRYCE CAN     | 76.0       | 76.0  | 76.0  | 13252.4                | 13252.4 | 13252.4 | 188.0      | 188.0 | 188.0 | 2888.2                 | 2888.2  | 2888.2  | 16140.6          | 16140.6 | 16140.6 |
| 4   | 3.0  | CEDAR BRKS    | 36.0       | 36.0  | 36.0  | 14938.0                | 14938.0 | 14938.0 | 160.0      | 160.0 | 160.0 | 4493.1                 | 4493.1  | 4493.1  | 19431.1          | 19431.1 | 19431.1 |
| 5   | 1.0  | WHITE RIV     | 132.0      | 132.0 | 132.0 | 14.0                   | 14.0    | 14.0    | 36.0       | 36.0  | 36.0  | 8433.3                 | 8433.3  | 8433.3  | 8467.4           | 8467.4  | 8467.4  |
| 6   | 1.0  | WARD MT       | 120.0      | 120.0 | 120.0 | 48.2                   | 48.2    | 48.2    | 8.0        | 8.0   | 8.0   | 13977.1                | 13977.1 | 13977.1 | 14023.3          | 14023.3 | 14023.3 |
| 7   | 1.0  | SHELL CRA     | 104.0      | 102.0 | 112.0 | 208.3                  | 48.2    | 102.9   | 16.0       | 24.0  | 20.0  | 12923.3                | 11241.2 | 12163.9 | 13111.9          | 12208.8 | 12208.8 |
| 8   | 2.0  | WHEELER PK    | 80.0       | 80.0  | 80.0  | 8962.7                 | 8962.7  | 8962.7  | 40.0       | 40.0  | 40.0  | 12183.9                | 12183.9 | 12183.9 | 21148.3          | 21148.3 | 21148.3 |
| 9   | 2.0  | RUBY MTN      | 208.0      | 208.0 | 208.0 | 208.3                  | 208.3   | 208.3   | 104.0      | 104.0 | 104.0 | 4738.2                 | 4738.2  | 4738.2  | 4966.3           | 4966.3  | 4966.3  |
| 10  | 1.0  | DIXIE W S     | 80.0       | 80.0  | 80.0  | 1263.3                 | 1263.3  | 1263.3  | 132.0      | 136.0 | 144.0 | 11.7                   | 0.7     | 3.0     | 1273.2           | 1264.2  | 1266.3  |
| 11  | 1.0  | DIX E S       | 52.0       | 64.0  | 58.0  | 5711.4                 | 3233.9  | 4362.6  | 136.0      | 172.0 | 164.0 | 0.7                    | 0.1     | 0.2     | 5712.1           | 3233.9  | 4362.6  |
| 12  | 1.0  | RED CANYON    | 64.0       | 64.0  | 64.0  | 3233.9                 | 3233.9  | 3233.9  | 176.0      | 176.0 | 176.0 | 0.0                    | 0.0     | 0.0     | 3233.9           | 3233.9  | 3233.9  |
| 13  | 1.0  | KENTS LK      | 32.0       | 32.0  | 32.0  | 11338.1                | 11338.1 | 11338.1 | 148.0      | 148.0 | 148.0 | 1.9                    | 1.9     | 1.9     | 11340.0          | 11340.0 | 11340.0 |
| 14  | 1.0  | SHELL OIL     | 36.0       | 36.0  | 36.0  | 4788.1                 | 4788.1  | 4788.1  | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 4791.1           | 4791.1  | 4791.1  |
| 15  | 1.0  | OAK CREEK     | 80.0       | 80.0  | 80.0  | 1263.3                 | 1263.3  | 1263.3  | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 1266.3           | 1266.3  | 1266.3  |
| 16  | 1.0  | LITTLE VLY    | 116.0      | 116.0 | 116.0 | 70.9                   | 70.9    | 70.9    | 144.0      | 144.0 | 144.0 | 3.0                    | 3.0     | 3.0     | 74.0             | 74.0    | 74.0    |
| 17  | 2.0  | VALLEY FIR    | 160.0      | 160.0 | 160.0 | 1263.3                 | 1263.3  | 1263.3  | 196.0      | 196.0 | 196.0 | 284.7                  | 284.7   | 284.7   | 1348.2           | 1348.2  | 1348.2  |
| 18  | 2.0  | BEAVER DAM    | 84.0       | 84.0  | 84.0  | 8282.4                 | 8282.4  | 8282.4  | 128.0      | 128.0 | 128.0 | 2693.8                 | 2693.8  | 2693.8  | 11078.2          | 11078.2 | 11078.2 |
| 19  | 2.0  | GORGE         | 88.0       | 88.0  | 88.0  | 7814.1                 | 7814.1  | 7814.1  | 104.0      | 104.0 | 104.0 | 4738.2                 | 4738.2  | 4738.2  | 12372.3          | 12372.3 | 12372.3 |
| 20  | 2.0  | SNOW CYN      | 92.0       | 92.0  | 92.0  | 7260.4                 | 7260.4  | 7260.4  | 160.0      | 160.0 | 160.0 | 1032.6                 | 1032.6  | 1032.6  | 8313.2           | 8313.2  | 8313.2  |
| 21  | 2.0  | ECHO CYN      | 72.0       | 72.0  | 72.0  | 10146.7                | 10146.7 | 10146.7 | 96.0       | 96.0  | 96.0  | 3602.1                 | 3602.1  | 3602.1  | 13748.8          | 13748.8 | 13748.8 |
| 22  | 2.0  | CORRAL PNM    | 100.0      | 100.0 | 100.0 | 6207.3                 | 6207.3  | 6207.3  | 196.0      | 196.0 | 196.0 | 284.7                  | 284.7   | 284.7   | 6491.9           | 6491.9  | 6491.9  |
| 23  | 2.0  | CHARCOAL      | 112.0      | 112.0 | 112.0 | 4788.1                 | 4788.1  | 4788.1  | 16.0       | 16.0  | 16.0  | 13977.1                | 13977.1 | 13977.1 | 18763.2          | 18763.2 | 18763.2 |
| 24  | 1.0  | GUNLOCK       | 92.0       | 92.0  | 92.0  | 344.1                  | 344.1   | 344.1   | 132.0      | 132.0 | 132.0 | 1.2                    | 1.2     | 1.2     | 343.3            | 343.3   | 343.3   |
| 25  | 2.0  | ENTERPRISE    | 80.0       | 80.0  | 80.0  | 8962.7                 | 8962.7  | 8962.7  | 136.0      | 136.0 | 136.0 | 2173.2                 | 2173.2  | 2173.2  | 11133.9          | 11133.9 | 11133.9 |
| 26  | 1.0  | NAVSAN LK     | 64.0       | 64.0  | 64.0  | 3233.9                 | 3233.9  | 3233.9  | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 3233.9           | 3233.9  | 3233.9  |
| 27  | 2.0  | OTTER CRA     | 60.0       | 60.0  | 60.0  | 11926.7                | 11926.7 | 11926.7 | 176.0      | 176.0 | 176.0 | 608.2                  | 608.2   | 608.2   | 12334.9          | 12334.9 | 12334.9 |
| 28  | 2.0  | PIUTE LAKE    | 44.0       | 44.0  | 44.0  | 14133.9                | 14133.9 | 14133.9 | 160.0      | 160.0 | 160.0 | 1032.6                 | 1032.6  | 1032.6  | 13186.4          | 13186.4 | 13186.4 |
| 29  | 2.0  | MINERSVILLE   | 60.0       | 60.0  | 60.0  | 16777.0                | 16777.0 | 16777.0 | 132.0      | 132.0 | 132.0 | 262.2                  | 262.2   | 262.2   | 19201.4          | 19201.4 | 19201.4 |
| 30  | 2.0  | YUBA LAKE     | 92.0       | 92.0  | 92.0  | 7260.4                 | 7260.4  | 7260.4  | 136.0      | 136.0 | 136.0 | 1197.3                 | 1197.3  | 1197.3  | 8438.8           | 8438.8  | 8438.8  |
| 31  | 1.0  | CUMINS LK     | 112.0      | 112.0 | 112.0 | 102.9                  | 102.9   | 102.9   | 4.0        | 4.0   | 4.0   | 14233.4                | 14233.4 | 14233.4 | 14356.3          | 14356.3 | 14356.3 |
| 32  | 1.0  | BASSETT LK    | 96.0       | 96.0  | 96.0  | 400.3                  | 400.3   | 400.3   | 16.0       | 16.0  | 16.0  | 12923.3                | 12923.3 | 12923.3 | 13323.9          | 13323.9 | 13323.9 |
| 33  | 2.0  | LAS VEGAS     | 168.0      | 168.0 | 168.0 | 966.7                  | 966.7   | 966.7   | 196.0      | 196.0 | 196.0 | 284.7                  | 284.7   | 284.7   | 1231.4           | 1231.4  | 1231.4  |
| 34  | 1.0  | SAND MOUNT    | 96.0       | 96.0  | 96.0  | 400.3                  | 400.3   | 400.3   | 176.0      | 176.0 | 176.0 | 0.0                    | 0.0     | 0.0     | 400.4            | 400.4   | 400.4   |
| 35  | 3.0  | LITTLE SAH    | 100.0      | 100.0 | 100.0 | 10942.1                | 10942.1 | 10942.1 | 140.0      | 140.0 | 140.0 | 3898.2                 | 3898.2  | 3898.2  | 16840.4          | 16840.4 | 16840.4 |

## EFFECT INDEX OF BASING ALTERNATIVES ON RECREATION AREAS

ALTERNATIVE NO. 6  
 BASE A: MILFORD LONG TERM POP 17221 0  
 BASE B: COVOTE LONG TERM POP 12193 0

| NO | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|    |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1  | 3 0  | LAKE HEAD     | 176.0      | 176.0 | 176.0 | 4226.3                 | 4226.3  | 4226.3  | 56.0       | 56.0  | 56.0  | 10378.3                | 10378.3 | 10378.3 | 14804.6          | 14804.6 | 14804.6 |
| 2  | 3 0  | ZION PARK     | 76.0       | 76.0  | 76.0  | 13232.4                | 13232.4 | 13232.4 | 116.0      | 116.0 | 116.0 | 8684.3                 | 8684.3  | 8684.3  | 19876.9          | 19876.9 | 19876.9 |
| 3  | 3 0  | BRUCE CAN     | 76.0       | 76.0  | 76.0  | 13232.4                | 13232.4 | 13232.4 | 168.0      | 168.0 | 168.0 | 3390.7                 | 3390.7  | 3390.7  | 14643.1          | 14643.1 | 14643.1 |
| 4  | 3 0  | CEDAR BRKS    | 56.0       | 56.0  | 56.0  | 14938.0                | 14938.0 | 14938.0 | 132.0      | 132.0 | 132.0 | 5333.5                 | 5333.5  | 5333.5  | 20471.5          | 20471.5 | 20471.5 |
| 5  | 1.0  | WHITE RIV     | 132.0      | 132.0 | 132.0 | 14.0                   | 14.0    | 14.0    | 152.0      | 152.0 | 152.0 | 1.0                    | 1.0     | 1.0     | 15.0             | 15.0    | 15.0    |
| 6  | 1.0  | WARD MT       | 120.0      | 120.0 | 120.0 | 48.2                   | 48.2    | 48.2    | 168.0      | 168.0 | 168.0 | 0.1                    | 0.1     | 0.1     | 48.4             | 48.4    | 48.4    |
| 7  | 1.0  | SHELL CRK     | 104.0      | 120.0 | 112.0 | 208.3                  | 48.2    | 102.9   | 172.0      | 188.0 | 180.0 | 0.1                    | 0.0     | 0.0     | 208.4            | 48.3    | 102.9   |
| 8  | 2.0  | WHEELER PK    | 80.0       | 80.0  | 80.0  | 8962.7                 | 8962.7  | 8962.7  | 160.0      | 160.0 | 160.0 | 894.7                  | 894.7   | 894.7   | 9857.4           | 9857.4  | 9857.4  |
| 9  | 2.0  | RUBY MTN      | 208.0      | 208.0 | 208.0 | 208.3                  | 208.3   | 208.3   | 272.0      | 272.0 | 272.0 | 6.4                    | 6.4     | 6.4     | 214.8            | 214.8   | 214.8   |
| 10 | 1.0  | DIXIE W S     | 80.0       | 80.0  | 80.0  | 1263.5                 | 1263.5  | 1263.5  | 76.0       | 92.0  | 84.0  | 1134.3                 | 385.3   | 684.6   | 2417.8           | 1448.8  | 1948.1  |
| 11 | 1.0  | DIX E S       | 52.0       | 64.0  | 58.0  | 3711.4                 | 3235.9  | 4362.6  | 136.0      | 144.0 | 140.0 | 6.4                    | 2.6     | 4.1     | 3717.8           | 3238.4  | 4366.7  |
| 12 | 1.0  | RED CANYON    | 64.0       | 64.0  | 64.0  | 3235.9                 | 3235.9  | 3235.9  | 160.0      | 160.0 | 160.0 | 0.4                    | 0.4     | 0.4     | 3236.2           | 3236.2  | 3236.2  |
| 13 | 1.0  | KENTS LA      | 32.0       | 32.0  | 32.0  | 11338.1                | 11338.1 | 11338.1 | 172.0      | 172.0 | 172.0 | 0.1                    | 0.1     | 0.1     | 11338.2          | 11338.2 | 11338.2 |
| 14 | 1.0  | SHELL OIL     | 56.0       | 56.0  | 56.0  | 4788.1                 | 4788.1  | 4788.1  | 212.0      | 212.0 | 212.0 | 0.0                    | 0.0     | 0.0     | 4788.1           | 4788.1  | 4788.1  |
| 15 | 1.0  | DAN CREEK     | 80.0       | 80.0  | 80.0  | 1263.5                 | 1263.5  | 1263.5  | 236.0      | 236.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 1263.5           | 1263.5  | 1263.5  |
| 16 | 1.0  | LITTLE VLY    | 116.0      | 116.0 | 116.0 | 70.9                   | 70.9    | 70.9    | 264.0      | 264.0 | 264.0 | 0.0                    | 0.0     | 0.0     | 70.9             | 70.9    | 70.9    |
| 17 | 2.0  | VALLEY FIR    | 160.0      | 160.0 | 160.0 | 1263.5                 | 1263.5  | 1263.5  | 32.0       | 32.0  | 32.0  | 10985.1                | 10985.1 | 10985.1 | 12248.6          | 12248.6 | 12248.6 |
| 18 | 2.0  | BEAVER DAM    | 84.0       | 84.0  | 84.0  | 8382.4                 | 8382.4  | 8382.4  | 72.0       | 72.0  | 72.0  | 7185.4                 | 7185.4  | 7185.4  | 15367.7          | 15367.7 | 15367.7 |
| 19 | 2.0  | GORGE         | 88.0       | 88.0  | 88.0  | 7814.1                 | 7814.1  | 7814.1  | 76.0       | 76.0  | 76.0  | 6764.2                 | 6764.2  | 6764.2  | 14378.2          | 14378.2 | 14378.2 |
| 20 | 2.0  | SNOW CYN      | 92.0       | 92.0  | 92.0  | 7260.6                 | 7260.6  | 7260.6  | 80.0       | 80.0  | 80.0  | 6346.9                 | 6346.9  | 6346.9  | 13607.4          | 13607.4 | 13607.4 |
| 21 | 2.0  | ECHO CYN      | 72.0       | 72.0  | 72.0  | 10146.7                | 10146.7 | 10146.7 | 92.0       | 92.0  | 92.0  | 3141.5                 | 3141.5  | 3141.5  | 13288.3          | 13288.3 | 13288.3 |
| 22 | 2.0  | CORRAL PK     | 100.0      | 100.0 | 100.0 | 6207.3                 | 6207.3  | 6207.3  | 128.0      | 128.0 | 128.0 | 2291.5                 | 2291.5  | 2291.5  | 8498.7           | 8498.7  | 8498.7  |
| 23 | 2.0  | CHARCOAL      | 112.0      | 112.0 | 112.0 | 4788.1                 | 4788.1  | 4788.1  | 136.0      | 136.0 | 136.0 | 1017.9                 | 1017.9  | 1017.9  | 5806.0           | 5806.0  | 5806.0  |
| 24 | 1.0  | GUNLOCK       | 92.0       | 92.0  | 92.0  | 344.1                  | 344.1   | 344.1   | 72.0       | 72.0  | 72.0  | 1469.8                 | 1469.8  | 1469.8  | 2013.9           | 2013.9  | 2013.9  |
| 25 | 2.0  | ENTERPRISE    | 80.0       | 80.0  | 80.0  | 8962.7                 | 8962.7  | 8962.7  | 76.0       | 76.0  | 76.0  | 6764.2                 | 6764.2  | 6764.2  | 15726.8          | 15726.8 | 15726.8 |
| 26 | 1.0  | NAUWPAH LK    | 64.0       | 64.0  | 64.0  | 3235.9                 | 3235.9  | 3235.9  | 144.0      | 144.0 | 144.0 | 2.6                    | 2.6     | 2.6     | 3235.9           | 3235.9  | 3235.9  |
| 27 | 2.0  | OTTER CRK     | 40.0       | 40.0  | 40.0  | 11926.7                | 11926.7 | 11926.7 | 192.0      | 192.0 | 192.0 | 283.5                  | 283.5   | 283.5   | 12210.2          | 12210.2 | 12210.2 |
| 28 | 2.0  | PIUTE LAKE    | 44.0       | 44.0  | 44.0  | 14133.9                | 14133.9 | 14133.9 | 180.0      | 180.0 | 180.0 | 447.0                  | 447.0   | 447.0   | 14581.0          | 14581.0 | 14581.0 |
| 29 | 2.0  | MINNERSVILLE  | 16.0       | 16.0  | 16.0  | 16777.0                | 16777.0 | 16777.0 | 156.0      | 156.0 | 156.0 | 1017.9                 | 1017.9  | 1017.9  | 17794.9          | 17794.9 | 17794.9 |
| 30 | 2.0  | YUBA LAKE     | 92.0       | 92.0  | 92.0  | 7260.6                 | 7260.6  | 7260.6  | 244.0      | 244.0 | 244.0 | 28.0                   | 28.0    | 28.0    | 7288.6           | 7288.6  | 7288.6  |
| 31 | 1.0  | CUMINS LK     | 112.0      | 112.0 | 112.0 | 102.9                  | 102.9   | 102.9   | 168.0      | 168.0 | 168.0 | 0.1                    | 0.1     | 0.1     | 103.0            | 103.0   | 103.0   |
| 32 | 1.0  | BASSETT LK    | 96.0       | 96.0  | 96.0  | 400.3                  | 400.3   | 400.3   | 140.0      | 140.0 | 140.0 | 4.1                    | 4.1     | 4.1     | 404.4            | 404.4   | 404.4   |
| 33 | 2.0  | LAS VEGAS     | 168.0      | 168.0 | 168.0 | 966.7                  | 966.7   | 966.7   | 24.0       | 24.0  | 24.0  | 11498.9                | 11498.9 | 11498.9 | 12463.6          | 12463.6 | 12463.6 |
| 34 | 1.0  | SAND MOUNT    | 96.0       | 96.0  | 96.0  | 400.3                  | 400.3   | 400.3   | 92.0       | 92.0  | 92.0  | 385.3                  | 385.3   | 385.3   | 785.6            | 785.6   | 785.6   |
| 35 | 3.0  | LITTLE SAN    | 100.0      | 100.0 | 100.0 | 10942.1                | 10942.1 | 10942.1 | 248.0      | 248.0 | 248.0 | 749.4                  | 749.4   | 749.4   | 11691.6          | 11691.6 | 11691.6 |

## COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON RECREATION AREAS

| NO. | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |
|-----|---------------|--------|-------------------------------------|---------|---------|---------|
|     |               |        | 0                                   | 1       | 2       | 3       |
| 1   | LAKE HEAD     | 3.0    | 17058.0                             | 20240.5 | 14618.1 | 9583.8  |
| 2   | ZION PARK     | 3.0    | 18732.3                             | 20923.1 | 13739.2 | 19924.6 |
| 3   | BRUCE CAN     | 3.0    | 14498.2                             | 12889.2 | 10946.1 | 14043.3 |
| 4   | CEDAR BRKS    | 3.0    | 18583.2                             | 18377.5 | 14056.1 | 19189.9 |
| 5   | WHITE RIV     | 1.0    | 11.9                                | 54.9    | 11.3    | 14046.9 |
| 6   | WARD MT       | 1.0    | 36.8                                | 53.0    | 81.8    | 12243.5 |
| 7   | SHELL CRK     | 1.0    | 78.1                                | 43.7    | 81.8    | 12243.5 |
| 8   | WHEELER PK    | 2.0    | 7974.3                              | 6994.9  | 6512.7  | 17873.8 |
| 9   | RUBY MTN      | 2.0    | 166.5                               | 61.3    | 440.6   | 4828.0  |
| 10  | DIXIE W S     | 1.0    | 1855.3                              | 9346.1  | 897.4   | 11158.1 |
| 11  | DIX E S       | 1.0    | 3316.6                              | 2678.1  | 31.1    | 3528.8  |
| 12  | RED CANYON    | 1.0    | 2456.5                              | 720.9   | 56.8    | 951.1   |
| 13  | KENTS LA      | 1.0    | 8605.9                              | 941.7   | 1294.8  | 1243.0  |
| 14  | SHELL OIL     | 1.0    | 7634.2                              | 52.9    | 7119.2  | 72.8    |
| 15  | DAN CREEK     | 1.0    | 939.0                               | 4.3     | 11618.3 | 8.7     |
| 16  | LITTLE VLY    | 1.0    | 52.8                                | 0.1     | 6206.9  | 3.1     |
| 17  | VALLEY FIR    | 2.0    | 13241.8                             | 18639.2 | 16450.8 | 5903.8  |
| 18  | BEAVER DAM    | 2.0    | 15770.2                             | 21253.1 | 10349.6 | 18336.2 |
| 19  | GORGE         | 2.0    | 14787.4                             | 20417.0 | 10319.8 | 20020.2 |
| 20  | SNOW CYN      | 2.0    | 13820.9                             | 19534.2 | 9189.3  | 15896.8 |
| 21  | ECHO CYN      | 2.0    | 14433.4                             | 18833.3 | 9043.4  | 21577.9 |
| 22  | CORRAL PK     | 2.0    | 7711.6                              | 9247.2  | 3666.6  | 8531.7  |
| 23  | CHARCOAL      | 2.0    | 4967.0                              | 3589.2  | 3903.1  | 19596.2 |
| 24  | GUNLOCK       | 1.0    | 2337.4                              | 8603.8  | 1924.6  | 8819.1  |
| 25  | ENTERPRISE    | 2.0    | 15659.2                             | 20937.8 | 10151.1 | 18149.1 |
| 26  | NAUWPAH LK    | 1.0    | 2459.9                              | 1947.4  | 20.4    | 2565.5  |
| 27  | OTTER CRK     | 2.0    | 9423.7                              | 4627.4  | 4138.4  | 6227.3  |
| 28  | PIUTE LAKE    | 2.0    | 11313.2                             | 3996.4  | 8172.6  | 3196.0  |
| 29  | MINNERSVILLE  | 2.0    | 14066.7                             | 9782.5  | 8452.0  | 15379.5 |
| 30  | YUBA LAKE     | 2.0    | 3547.6                              | 1231.5  | 12358.5 | 2801.2  |
| 31  | CUMINS LK     | 1.0    | 78.3                                | 110.0   | 25.9    | 14398.6 |
| 32  | BASSETT LK    | 1.0    | 309.2                               | 410.9   | 31.1    | 13458.9 |
| 33  | LAS VEGAS     | 2.0    | 15789.3                             | 18623.9 | 15093.9 | 4975.4  |
| 34  | SAND MOUNT    | 1.0    | 808.4                               | 3457.2  | 504.6   | 3898.1  |
| 35  | LITTLE SAN    | 3.0    | 9286.6                              | 5482.4  | 14307.7 | 11840.3 |

## RECREATION AREAS RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0                | ALT 1              | ALT 2              | ALT 3                | ALT 4                | ALT 5                | ALT 6                |
|----------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|
| RESOURCE INDEX       | RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX       | RESOURCE INDEX       | RESOURCE INDEX       | RESOURCE INDEX       |
| ZION PARK 18732.3    | BEAVER DAM 21253.1 | LAS VEGAS 15093.9  | ECHO CYN 21577.9     | BEAVER DAM 22825.7   | WHEELER PK 21148.5   | CEDAR BRKS 20471.5   |
| CEDAR BRKS 18583.2   | ENTERPRISE 20937.8 | LAKE HEAD 14618.1  | GORGE 20020.2        | ZION PARK 22798.7    | CEDAR BRKS 19431.1   | ZION PARK 19876.9    |
| LAKE HEAD 17058.0    | ZION PARK 20923.1  | VALLEY FIR 14430.8 | ZION PARK 19924.6    | ENTERPRISE 22740.0   | MINNERSVILLE 19201.4 | MINNERSVILLE 17794.9 |
| LAS VEGAS 15789.3    | GORGE 20417.0      | LITTLE SAN 14307.7 | WHEELER PK 19873.8   | GORGE 22026.1        | CHARCOAL 18763.2     | BRUCE CAN 14643.1    |
| BEAVER DAM 13770.2   | LAKE HEAD 20240.5  | CEDAR BRKS 14056.1 | CHARCOAL 19596.2     | SNOW CYN 21191.1     | ZION PARK 17002.8    | ENTERPRISE 15726.8   |
| ENTERPRISE 13659.2   | SNOW CYN 19534.2   | ZION PARK 13739.2  | CEDAR BRKS 19189.9   | ECHO CYN 21117.4     | LITTLE SAN 16840.3   | BEAVER DAM 13567.7   |
| VALLEY FIR 13241.8   | ECHO CYN 18833.3   | YUBA LAKE 12358.5  | BEAVER DAM 18336.2   | CEDAR BRKS 20230.3   | BRUCE CAN 16140.4    | ECHO CYN 13288.3     |
| GORGE 14787.4        | VALLEY FIR 18639.2 | DAN CREEK 11618.3  | ENTERPRISE 18149.1   | LAKE HEAD 19014.3    | ECHO CYN 13748.8     | LAKE HEAD 14804.6    |
| BRUCE CAN 14498.2    | LAS VEGAS 18623.9  | BRUCE CAN 10946.1  | SNOW CYN 15896.8     | VALLEY FIR 16604.2   | PIUTE LAKE 15186.6   | PIUTE LAKE 14581.0   |
| ECHO CYN 14433.4     | CEDAR BRKS 18833.3 | BEAVER DAM 10319.8 | CUMINS LK 14798.4    | LAS VEGAS 16209.7    | CUMINS LK 14356.5    | GORGE 14378.2        |
| MINNERSVILLE 14066.7 | BRUCE CAN 12889.2  | ENTERPRISE 10151.1 | WARD MT 14046.9      | BRUCE CAN 14543.8    | WARD MT 14023.9      | SNOW CYN 13607.4     |
| PIUTE LAKE 11313.2   |                    |                    | BRUCE CAN 14043.3    | MINNERSVILLE 12173.0 | BASSETT LK 10283.9   | LAS VEGAS 12463.6    |
|                      |                    |                    | MINNERSVILLE 13379.5 | DIXIE W S 11839.9    | GORGE 12572.3        | VALLEY FIR 12248.6   |
|                      |                    |                    | BASSETT LK 10338.9   | CORRAL PK 10287.8    | OTTER CRK 12534.9    | OTTER CRK 12210.2    |
|                      |                    |                    | SHELL CRK 12243.5    | GUNLOCK 10287.8      | SHELL CRK 12288.6    | LITTLE SAN 11691.6   |
|                      |                    |                    | LITTLE SAN 11840.3   |                      | KENTS LA 11340.0     | KENTS LA 11338.2     |
|                      |                    |                    | DIXIE W S 11138.1    |                      | ENTERPRISE 11133.9   |                      |
|                      |                    |                    |                      |                      | BEAVER DAM 11078.2   |                      |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for 35 recreation areas.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 2        | Coyote Delta   | 6,455                                   | 5,478                         | 926                       | 1                               |
| 2            | 0        | Coyote Milford | 7,769                                   | 6,601                         | 1,116                     | 2                               |
| 3            | 1        | Coyote Beryl   | 8,233                                   | 8,142                         | 1,376                     | 4                               |
| 4            | 6        | Milford Coyote | 8,370                                   | 6,769                         | 1,144                     | 3                               |
| 5            | 4        | Beryl Ely      | 8,994                                   | 8,455                         | 1,429                     | 5                               |
| 6            | 5        | Milford Ely    | 9,604                                   | 6,483                         | 1,095                     | 6                               |
| 7            | 3        | Beryl Ely      | 10,229                                  | 6,854                         | 1,159                     | 7                               |

3961

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

## EFFECT INDEX OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

 ALTERNATIVE NO. 0  
 BASE A: COVOTE LONG TERM POP. 15967.0  
 BASE B: MILFORD LONG TERM POP. 13071.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |   |     | EFFECT INDEX OF BASE A |     |     | MILES TO B |   |      | EFFECT INDEX OF BASE B |      |     | COMBINED EFFECTS |     |     |   |
|------|-------|---------------|------------|---|-----|------------------------|-----|-----|------------|---|------|------------------------|------|-----|------------------|-----|-----|---|
|      |       |               | N          | F | AVE | MAX                    | MIN | AVE | N          | F | AVE  | MAX                    | MIN  | AVE | MAX              | MIN | AVE |   |
| 174  | 1.0   | JAMES         | 135        | 0 | 186 | 0                      | 170 | 3   | 0          | 0 | 0    | 1                      | 123  | 0   | 145              | 0   | 134 | 0 |
| 175  | 1.0   | LONG          | 178        | 0 | 232 | 0                      | 203 | 0   | 0          | 0 | 0    | 0                      | 0    | 171 | 0                | 156 | 3   |   |
| 178  | 1.0   | BUTTE         | 178        | 0 | 234 | 0                      | 216 | 0   | 0          | 0 | 0    | 0                      | 0    | 129 | 0                | 185 | 0   |   |
| 180  | 2.0   | CAVE          | 97         | 0 | 138 | 0                      | 117 | 3   | 6113       | 0 | 2287 | 0                      | 3902 | 9   | 86               | 0   | 103 | 9 |
| 207  | 2.0   | WHITE R       | 89         | 0 | 169 | 0                      | 129 | 0   | 7113       | 4 | 866  | 0                      | 2922 | 6   | 97               | 0   | 135 | 0 |
| 172  | 2.0   | GARDEN        | 49         | 0 | 109 | 0                      | 89  | 0   | 9822       | 8 | 4750 | 2                      | 7113 | 4   | 89               | 0   | 112 | 0 |
| 137A | 2.0   | BIG SMOXY     | 149        | 0 | 194 | 0                      | 171 | 3   | 1637       | 2 | 343  | 0                      | 794  | 0   | 211              | 0   | 258 | 0 |
| 134  | 1.0   | NEWMARK       | 166        | 0 | 217 | 0                      | 191 | 3   | 93         | 2 | 0    | 0                      | 0    | 142 | 0                | 180 | 0   |   |
| 4    | 3.0   | SNAKE         | 132        | 0 | 225 | 0                      | 178 | 3   | 7243       | 1 | 1607 | 4                      | 3744 | 2   | 43               | 0   | 112 | 0 |
| 5    | 1.0   | PINE          | 108        | 0 | 152 | 0                      | 130 | 0   | 136        | 7 | 1    | 3                      | 16   | 1   | 23               | 0   | 31  | 0 |
| 9    | 2.0   | GOVT CRK      | 231        | 0 | 263 | 0                      | 247 | 0   | 48         | 9 | 13   | 7                      | 31   | 6   | 103              | 0   | 143 | 0 |
| 46   | 3.0   | SEV DES       | 171        | 0 | 263 | 0                      | 217 | 0   | 4239       | 3 | 693  | 2                      | 1887 | 0   | 35               | 0   | 129 | 0 |
| 50   | 1.0   | MILFORD       | 117        | 0 | 159 | 0                      | 138 | 0   | 59         | 8 | 0    | 5                      | 6    | 7   | 0                | 20  | 0   |   |
| 139  | 1.0   | KOBEN         | 189        | 0 | 226 | 0                      | 207 | 3   | 0          | 0 | 0    | 0                      | 0    | 178 | 0                | 213 | 0   |   |
| 140  | 2.0   | MONITOR       | 131        | 0 | 203 | 0                      | 177 | 0   | 1558       | 8 | 238  | 2                      | 432  | 9   | 186              | 0   | 209 | 0 |
| 141  | 1.0   | RALSTON       | 123        | 0 | 168 | 0                      | 145 | 3   | 33         | 2 | 0    | 2                      | 2    | 8   | 194              | 0   | 220 | 0 |
| 149  | 1.0   | STONE CBN     | 112        | 0 | 155 | 0                      | 133 | 3   | 93         | 4 | 0    | 9                      | 11   | 1   | 177              | 0   | 206 | 0 |
| 151  | 1.0   | ANTELOPE      | 149        | 0 | 197 | 0                      | 183 | 0   | 0          | 1 | 0    | 0                      | 0    | 172 | 0                | 194 | 0   |   |
| 155  | 1.0   | LITTLE SMO    | 118        | 0 | 188 | 0                      | 153 | 0   | 54         | 3 | 0    | 0                      | 1    | 1   | 148              | 0   | 175 | 0 |
| 156  | 2.0   | MOT CRK       | 103        | 0 | 163 | 0                      | 134 | 0   | 3183       | 7 | 1061 | 2                      | 2555 | 6   | 160              | 0   | 186 | 0 |
| 170  | 2.0   | PENOVYER      | 63         | 0 | 95  | 0                      | 80  | 0   | 10373      | 0 | 6357 | 3                      | 8310 | 0   | 134              | 0   | 168 | 0 |
| 173  | 1.0   | RAILROAD      | 83         | 0 | 171 | 0                      | 127 | 0   | 959        | 5 | 0    | 1                      | 22   | 1   | 118              | 0   | 178 | 0 |
| 179  | 2.0   | STEPTOE       | 122        | 0 | 243 | 0                      | 187 | 3   | 2698       | 1 | 38   | 6                      | 441  | 8   | 129              | 0   | 182 | 0 |
| 183  | 2.0   | LAKE          | 100        | 0 | 138 | 0                      | 119 | 0   | 3753       | 3 | 2287 | 0                      | 3764 | 2   | 43               | 0   | 92  | 0 |
| 184  | 2.0   | SPRING        | 112        | 0 | 218 | 0                      | 165 | 0   | 4439       | 4 | 123  | 1                      | 992  | 5   | 62               | 0   | 142 | 0 |
| 196  | 2.0   | HAPLIN        | 91         | 0 | 145 | 0                      | 118 | 0   | 6858       | 7 | 1868 | 3                      | 3856 | 3   | 37               | 0   | 75  | 0 |
| 202  | 2.0   | PATTERSON     | 73         | 0 | 103 | 0                      | 89  | 0   | 8993       | 9 | 3408 | 3                      | 7113 | 4   | 42               | 0   | 85  | 0 |
| 137B | 2.0   | BIG SMOXY     | 176        | 0 | 232 | 0                      | 204 | 0   | 476        | 9 | 63   | 8                      | 228  | 5   | 212              | 0   | 237 | 0 |
| 150  | 1.0   | LIT FISH L    | 132        | 0 | 181 | 0                      | 167 | 3   | 1          | 0 | 0    | 0                      | 0    | 180 | 0                | 196 | 0   |   |
| 53   | 1.0   | PINE(N)       | 224        | 0 | 277 | 0                      | 250 | 0   | 0          | 0 | 0    | 0                      | 0    | 200 | 0                | 236 | 0   |   |
| 54   | 1.0   | CRESCENT      | 249        | 0 | 280 | 0                      | 264 | 0   | 0          | 0 | 0    | 0                      | 0    | 228 | 0                | 236 | 0   |   |
| 176  | 3.0   | RUBY          | 224        | 0 | 288 | 0                      | 256 | 0   | 1440       | 4 | 371  | 2                      | 817  | 4   | 174              | 0   | 216 | 0 |
| 186  | 1.0   | ANTELOPE      | 233        | 0 | 261 | 0                      | 247 | 0   | 0          | 0 | 0    | 0                      | 0    | 141 | 0                | 172 | 0   |   |
| 187  | 1.0   | GOSHUTE       | 241        | 0 | 288 | 0                      | 264 | 0   | 0          | 0 | 0    | 0                      | 0    | 161 | 0                | 204 | 0   |   |
| 3    | 2.0   | DEEP CRK      | 209        | 0 | 244 | 0                      | 226 | 0   | 180        | 4 | 36   | 7                      | 83   | 9   | 117              | 0   | 149 | 0 |
| 49   | 2.0   | PARDMAN       | 129        | 0 | 168 | 0                      | 148 | 0   | 2874       | 7 | 896  | 3                      | 1667 | 3   | 41               | 0   | 72  | 0 |
| 51   | 1.0   | CEDAR CITY    | 103        | 0 | 149 | 0                      | 127 | 0   | 168        | 3 | 1    | 7                      | 20   | 8   | 28               | 0   | 32  | 0 |
| 185  | 1.0   | TIPPETT       | 204        | 0 | 232 | 0                      | 218 | 0   | 0          | 0 | 0    | 0                      | 0    | 120 | 0                | 144 | 0   |   |
| 54   | 2.0   | UPPER REES    | 193        | 0 | 256 | 0                      | 224 | 0   | 348        | 3 | 19   | 9                      | 92   | 0   | 232              | 0   | 253 | 0 |
| 55   | 1.0   | CARICO L      | 236        | 0 | 272 | 0                      | 254 | 0   | 0          | 0 | 0    | 0                      | 0    | 233 | 0                | 253 | 0   |   |
| 138  | 1.0   | GRASS         | 220        | 0 | 253 | 0                      | 236 | 0   | 0          | 0 | 0    | 0                      | 0    | 217 | 0                | 240 | 0   |   |
| 153  | 1.0   | DIAMOND       | 196        | 0 | 248 | 0                      | 222 | 0   | 0          | 0 | 0    | 0                      | 0    | 173 | 0                | 212 | 0   |   |
| 47   | 2.0   | HUNTINGTON    | 224        | 0 | 272 | 0                      | 248 | 0   | 93         | 4 | 8    | 4                      | 30   | 0   | 181              | 0   | 224 | 0 |
| 198  | 2.0   | DRY           | 80         | 0 | 96  | 0                      | 88  | 0   | 8310       | 0 | 6234 | 6                      | 7243 | 1   | 24               | 0   | 40  | 0 |
| 201  | 3.0   | SPRING        | 96         | 0 | 116 | 0                      | 106 | 0   | 10512      | 5 | 8673 | 3                      | 9592 | 2   | 32               | 0   | 48  | 0 |
| 48   | 3.0   | BEAVER        | 149        | 0 | 180 | 0                      | 164 | 0   | 5786       | 6 | 3673 | 3                      | 4639 | 1   | 52               | 0   | 81  | 0 |

## EFFECT INDEX OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

 ALTERNATIVE NO. 1  
 BASE A: COVOTE LONG TERM POP. 15967.0  
 BASE B: BERYL LONG TERM POP. 12834.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |   |     | EFFECT INDEX OF BASE A |     |     | MILES TO B |   |      | EFFECT INDEX OF BASE B |      |     | COMBINED EFFECTS |     |     |   |
|------|-------|---------------|------------|---|-----|------------------------|-----|-----|------------|---|------|------------------------|------|-----|------------------|-----|-----|---|
|      |       |               | N          | F | AVE | MAX                    | MIN | AVE | N          | F | AVE  | MAX                    | MIN  | AVE | MAX              | MIN | AVE |   |
| 174  | 1.0   | JAMES         | 135        | 0 | 186 | 0                      | 170 | 3   | 0          | 0 | 1    | 118                    | 0    | 142 | 0                | 130 | 0   |   |
| 175  | 1.0   | LONG          | 178        | 0 | 232 | 0                      | 203 | 0   | 0          | 0 | 0    | 138                    | 0    | 159 | 0                | 133 | 9   |   |
| 178  | 1.0   | BUTTE         | 178        | 0 | 234 | 0                      | 216 | 0   | 0          | 0 | 0    | 129                    | 0    | 194 | 0                | 161 | 3   |   |
| 180  | 2.0   | CAVE          | 97         | 0 | 138 | 0                      | 117 | 3   | 6113       | 0 | 2287 | 0                      | 3902 | 9   | 71               | 0   | 92  | 0 |
| 207  | 2.0   | WHITE R       | 89         | 0 | 169 | 0                      | 129 | 0   | 7113       | 4 | 866  | 0                      | 2922 | 6   | 74               | 0   | 123 | 0 |
| 172  | 2.0   | GARDEN        | 49         | 0 | 109 | 0                      | 89  | 0   | 9822       | 8 | 4750 | 2                      | 7113 | 4   | 89               | 0   | 112 | 0 |
| 137A | 2.0   | BIG SMOXY     | 149        | 0 | 194 | 0                      | 171 | 3   | 1637       | 2 | 343  | 0                      | 794  | 0   | 229              | 0   | 210 | 3 |
| 134  | 1.0   | NEWMARK       | 166        | 0 | 217 | 0                      | 191 | 3   | 93         | 2 | 0    | 0                      | 134  | 0   | 178              | 0   | 136 | 0 |
| 4    | 3.0   | SNAKE         | 132        | 0 | 225 | 0                      | 178 | 3   | 7243       | 1 | 1607 | 4                      | 3744 | 2   | 43               | 0   | 112 | 0 |
| 5    | 1.0   | PINE          | 108        | 0 | 152 | 0                      | 130 | 0   | 136        | 7 | 1    | 3                      | 16   | 1   | 23               | 0   | 31  | 0 |
| 9    | 2.0   | GOVT CRK      | 231        | 0 | 263 | 0                      | 247 | 0   | 48         | 9 | 13   | 7                      | 31   | 6   | 103              | 0   | 143 | 0 |
| 46   | 3.0   | SEV DES       | 171        | 0 | 263 | 0                      | 217 | 0   | 4239       | 3 | 693  | 2                      | 1887 | 0   | 72               | 0   | 166 | 0 |
| 50   | 1.0   | MILFORD       | 117        | 0 | 159 | 0                      | 138 | 0   | 59         | 8 | 0    | 5                      | 6    | 7   | 0                | 21  | 0   |   |
| 139  | 1.0   | KOBEN         | 189        | 0 | 226 | 0                      | 207 | 3   | 0          | 0 | 0    | 0                      | 169  | 0   | 212              | 0   | 190 | 3 |
| 140  | 2.0   | MONITOR       | 131        | 0 | 203 | 0                      | 177 | 0   | 1558       | 8 | 238  | 2                      | 432  | 9   | 166              | 0   | 195 | 0 |
| 141  | 1.0   | RALSTON       | 123        | 0 | 168 | 0                      | 145 | 3   | 33         | 2 | 0    | 2                      | 2    | 8   | 171              | 0   | 194 | 0 |
| 149  | 1.0   | STONE CBN     | 112        | 0 | 155 | 0                      | 133 | 3   | 93         | 4 | 0    | 9                      | 11   | 1   | 149              | 0   | 174 | 0 |
| 151  | 1.0   | ANTELOPE      | 149        | 0 | 197 | 0                      | 183 | 0   | 0          | 1 | 0    | 0                      | 0    | 158 | 0                | 182 | 0   |   |
| 155  | 1.0   | LITTLE SMO    | 118        | 0 | 188 | 0                      | 153 | 0   | 54         | 3 | 0    | 0                      | 1    | 1   | 135              | 0   | 165 | 0 |
| 156  | 2.0   | MOT CRK       | 103        | 0 | 163 | 0                      | 134 | 0   | 3183       | 7 | 1061 | 2                      | 2555 | 6   | 137              | 0   | 157 | 0 |
| 170  | 2.0   | PENOVYER      | 63         | 0 | 95  | 0                      | 80  | 0   | 10373      | 0 | 6357 | 3                      | 8310 | 0   | 102              | 0   | 132 | 0 |
| 173  | 1.0   | RAILROAD      | 83         | 0 | 171 | 0                      | 127 | 0   | 959        | 5 | 0    | 1                      | 22   | 1   | 98               | 0   | 149 | 0 |
| 179  | 2.0   | STEPTOE       | 122        | 0 | 243 | 0                      | 187 | 3   | 2698       | 1 | 38   | 6                      | 441  | 8   | 129              | 0   | 182 | 0 |
| 183  | 2.0   | LAKE          | 100        | 0 | 138 | 0                      | 119 | 0   | 3753       | 3 | 2287 | 0                      | 3764 | 2   | 43               | 0   | 92  | 0 |
| 184  | 2.0   | SPRING        | 112        | 0 | 218 | 0                      | 165 | 0   | 4439       | 4 | 123  | 1                      | 992  | 5   | 62               | 0   | 142 | 0 |
| 196  | 2.0   | HAPLIN        | 91         | 0 | 145 | 0                      | 118 | 0   | 6858       | 7 | 1868 | 3                      | 3856 | 3   | 37               | 0   | 75  | 0 |
| 202  | 2.0   | PATTERSON     | 73         | 0 | 103 | 0                      | 89  | 0   | 8993       | 9 | 3408 | 3                      | 7113 | 4   | 35               | 0   | 60  | 0 |
| 137B | 2.0   | BIG SMOXY     | 176        | 0 | 232 | 0                      | 204 | 0   | 476        | 9 | 63   | 8                      | 228  | 5   | 192              | 0   | 221 | 0 |
| 150  | 1.0   | LIT FISH L    | 132        | 0 | 181 | 0                      | 167 | 3   | 1          | 0 | 0    | 0                      | 0    | 160 | 0                | 176 | 0   |   |
| 53   | 1.0   | PINE(N)       | 224        | 0 | 277 | 0                      | 250 | 0   | 0          | 0 | 0    | 0                      | 0    | 196 | 0                | 237 | 0   |   |
| 54   | 1.0   | CRESCENT      | 249        | 0 | 280 | 0                      | 264 | 0   | 0          | 0 | 0    | 0                      | 0    | 224 | 0                | 236 | 0   |   |
| 176  | 3.0   | RUBY          | 224        | 0 | 288 | 0                      | 256 | 0   | 1440       | 4 | 371  | 2                      | 817  | 4   | 174              | 0   | 216 | 0 |
| 186  | 1.0   | ANTELOPE      | 233        | 0 | 261 | 0                      | 247 | 0   | 0          | 0 | 0    | 0                      | 0    | 172 | 0                | 208 | 0   |   |
| 187  | 1.0   | GOSHUTE       | 241        | 0 | 288 | 0                      | 264 | 0   | 0          | 0 | 0    | 0                      | 0    | 173 | 0                | 208 | 0   |   |
| 3    | 2.0   | DEEP CRK      | 209        | 0 | 244 | 0                      | 226 | 0   | 180        | 4 | 36   | 7                      | 83   | 9   | 122              | 0   | 144 | 0 |
| 49   | 2.0   | PARDMAN       | 129        | 0 | 168 | 0                      | 148 | 0   | 2874       | 7 | 896  | 3                      | 1667 | 3   | 41               | 0   | 72  | 0 |
| 51   | 1.0   | CEDAR CITY    | 103        | 0 | 149 | 0                      | 127 | 0   | 168        | 3 | 1    | 7                      | 20   | 8   | 28               | 0   | 32  | 0 |
| 185  | 1.0   | TIPPETT       | 204        | 0 | 232 | 0                      | 218 | 0   | 0          | 0 | 0    | 0                      | 0    | 132 | 0                | 157 | 0   |   |
| 56   | 2.0   | UPPER REES    | 192        | 0 | 256 | 0                      | 224 | 0   | 348        | 3 | 19   | 9                      | 92   | 0   | 214              | 0   | 244 | 0 |
| 58   | 3.0   | CALICO L      | 236        | 0 | 272 | 0                      | 254 | 0   | 0          | 0 | 0    | 0                      | 0    | 224 | 0                | 248 | 0   |   |
| 38   | 1.0   | GRAB          | 280        | 0 | 324 | 0                      | 294 | 0   | 0          | 0 | 0    | 0                      | 0    | 296 | 0                | 324 | 0   |   |
| 133  | 1.0   | DIAMOND       | 196        | 0 | 248 | 0                      | 222 | 0   | 0          | 0 | 0    | 0                      | 0    | 168 | 0                | 208 | 0   |   |
| 47   | 2.0   | HUNTINGTON    | 224        | 0 | 272 | 0                      | 248 | 0   | 95         | 4 | 8    | 30                     | 0    | 181 | 0                | 224 | 0   |   |
| 198  | 2.0   | DRY           | 80         | 0 | 96  | 0                      | 88  | 0   | 8310       | 0 | 6344 | 6                      | 7845 | 1   | 24               | 0   | 40  | 0 |
| 201  | 3.0   | SPRING        | 96         | 0 | 116 | 0                      | 106 | 0   | 10512      | 3 | 8673 | 3                      | 9592 | 2   | 24               | 0   | 32  | 0 |
| 48   | 3.0   | BEAVER        | 149        | 0 | 180 | 0                      | 164 | 0   | 3786       | 6 | 3673 | 5                      | 4639 | 1   | 52               | 0   | 81  | 0 |

## EFFECT INDEX OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

 ALTERNATIVE NO. 2  
 BASE A: COVOTE LONG TERM POP 13967 0  
 BASE B: DELTA LONG TERM POP 13679 0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|--------|--------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN    | AVE    | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 174  | 1.0   | JAMES         | 135.0      | 186.0 | 170.3 | 0.9                    | 0.0    | 0.1    | 111.0      | 132.0 | 121.3 | 89.3                   | 11.2    | 33.1    | 90.4             | 11.2    | 33.2    |
| 175  | 1.0   | LONG          | 178.0      | 232.0 | 203.0 | 0.0                    | 0.0    | 0.0    | 120.0      | 143.0 | 132.3 | 38.3                   | 2.6     | 10.6    | 28.4             | 2.6     | 10.6    |
| 176  | 1.0   | BUTTE         | 178.0      | 234.0 | 216.0 | 0.0                    | 0.0    | 0.0    | 104.0      | 138.0 | 122.0 | 139.4                  | 5.8     | 31.3    | 129.3            | 5.8     | 31.3    |
| 180  | 2.0   | CAVE          | 97.0       | 138.0 | 117.3 | 6113.0                 | 2287.0 | 3902.0 | 100.0      | 123.0 | 111.3 | 4920.6                 | 2921.3  | 3844.9  | 11043.6          | 3208.9  | 7749.6  |
| 207  | 2.0   | WHITE R       | 89.0       | 169.0 | 129.0 | 7113.4                 | 866.0  | 2922.6 | 102.0      | 146.0 | 124.0 | 4731.4                 | 1333.9  | 2846.8  | 11846.8          | 2419.9  | 5771.3  |
| 172  | 2.0   | GARDEN        | 69.0       | 109.0 | 89.0  | 9822.8                 | 4730.2 | 7113.4 | 142.0      | 169.0 | 133.3 | 1747.7                 | 741.9   | 1160.1  | 11370.3          | 3492.1  | 8273.3  |
| 137A | 2.0   | BIG SNOWY     | 149.0      | 194.0 | 171.3 | 1637.2                 | 343.0  | 794.0  | 222.0      | 278.0 | 230.0 | 89.3                   | 3.1     | 23.2    | 174.6            | 3.1     | 81.2    |
| 134  | 1.0   | NEWMARK       | 184.0      | 217.0 | 191.3 | 0.2                    | 0.0    | 0.0    | 131.0      | 139.0 | 143.0 | 12.4                   | 0.8     | 3.2     | 12.6             | 0.8     | 3.2     |
| 4    | 3.0   | SHAKE         | 132.0      | 225.0 | 178.3 | 7243.1                 | 1607.4 | 3764.2 | 35.0       | 77.0  | 56.0  | 12939.8                | 10433.9 | 11863.4 | 20184.8          | 12061.2 | 13629.7 |
| 5    | 1.0   | PINE          | 108.0      | 132.0 | 130.0 | 134.7                  | 1.3    | 16.1   | 48.0       | 91.0  | 69.3  | 3341.2                 | 463.7   | 1904.7  | 3477.9           | 467.0   | 1920.8  |
| 9    | 2.0   | GOVT CRK      | 231.0      | 263.0 | 247.0 | 68.9                   | 13.7   | 31.6   | 35.0       | 77.0  | 56.0  | 12071.7                | 7469.8  | 9933.0  | 12140.6          | 7483.3  | 9964.6  |
| 46   | 3.0   | SEV DES       | 171.0      | 263.0 | 217.0 | 4239.3                 | 693.2  | 1887.0 | 0.0        | 46.0  | 33.0  | 13679.0                | 11224.9 | 13019.8 | 17918.3          | 11929.1 | 14906.8 |
| 50   | 1.0   | RILFORD       | 117.0      | 159.0 | 138.0 | 39.8                   | 0.3    | 6.7    | 35.0       | 129.0 | 82.0  | 8296.7                 | 13.4    | 879.3   | 8236.3           | 13.9    | 884.0   |
| 139  | 1.0   | ROSEN         | 189.0      | 226.0 | 207.3 | 0.0                    | 0.0    | 0.0    | 168.0      | 203.0 | 186.3 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 140  | 2.0   | MONITOR       | 131.0      | 203.0 | 177.0 | 1358.8                 | 238.2  | 432.9  | 182.0      | 216.0 | 200.0 | 448.7                  | 112.0   | 230.9   | 2007.3           | 350.2   | 883.8   |
| 141  | 1.0   | RALSTON       | 123.0      | 168.0 | 145.3 | 33.2                   | 0.2    | 2.8    | 208.0      | 237.0 | 213.0 | 0.0                    | 0.0     | 0.0     | 33.2             | 0.2     | 2.8     |
| 149  | 1.0   | STONE CSM     | 112.0      | 135.0 | 133.3 | 93.4                   | 0.9    | 11.1   | 194.0      | 232.0 | 213.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 131  | 1.0   | ANTELOPE      | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0    | 163.0      | 186.0 | 174.3 | 0.3                    | 0.0     | 0.1     | 0.4              | 0.0     | 0.1     |
| 133  | 1.0   | LITTLE SHO    | 118.0      | 188.0 | 133.0 | 34.3                   | 0.0    | 1.1    | 148.0      | 180.0 | 164.0 | 1.8                    | 0.0     | 0.2     | 36.1             | 0.0     | 1.4     |
| 136  | 2.0   | NOT CRK       | 103.0      | 163.0 | 134.0 | 3182.7                 | 1041.2 | 2355.6 | 169.0      | 206.0 | 187.3 | 741.9                  | 180.1   | 378.3   | 3925.6           | 1241.3  | 2934.1  |
| 170  | 2.0   | PENVOY        | 83.0       | 95.0  | 80.0  | 10373.0                | 6337.3 | 8310.0 | 166.0      | 203.0 | 183.3 | 822.0                  | 187.8   | 408.4   | 11197.1          | 6343.1  | 8718.3  |
| 173  | 1.0   | RAILROAD      | 82.0       | 171.0 | 127.0 | 939.3                  | 0.1    | 22.1   | 126.0      | 209.0 | 167.3 | 21.0                   | 0.0     | 1.1     | 780.3            | 0.1     | 22.2    |
| 179  | 2.0   | STEPTOE       | 132.0      | 243.0 | 187.3 | 2698.1                 | 38.4   | 44.6   | 86.0       | 124.0 | 106.0 | 6431.1                 | 2707.1  | 4346.6  | 9128.4           | 2745.6  | 4788.1  |
| 183  | 2.0   | LAKE          | 100.0      | 138.0 | 119.0 | 3733.3                 | 2287.0 | 3764.2 | 92.0       | 111.0 | 101.3 | 5767.2                 | 2890.8  | 4780.8  | 11522.3          | 8354.0  | 17937.9 |
| 184  | 2.0   | SPRING        | 112.0      | 218.0 | 163.0 | 4439.4                 | 123.1  | 992.3  | 63.0       | 98.0  | 81.3  | 8888.3                 | 3133.9  | 6743.4  | 13327.8          | 3236.0  | 7937.9  |
| 196  | 2.0   | MAPLIN        | 91.0       | 145.0 | 118.0 | 6838.7                 | 1866.3 | 3836.3 | 64.0       | 103.0 | 83.3  | 8770.3                 | 4440.9  | 6487.8  | 13629.1          | 6309.4  | 10344.1 |
| 202  | 2.0   | PATTERSON     | 73.0       | 103.0 | 89.0  | 8993.9                 | 3408.3 | 7113.4 | 102.0      | 126.0 | 114.0 | 4731.4                 | 2707.1  | 3631.8  | 13723.3          | 8115.4  | 10747.2 |
| 137B | 2.0   | BIG SNOWY     | 174.0      | 232.0 | 204.0 | 674.9                  | 63.8   | 228.3  | 217.0      | 236.0 | 226.8 | 109.1                  | 17.1    | 44.8    | 785.9            | 82.8    | 273.3   |
| 150  | 1.0   | LIT FISH L    | 153.0      | 181.0 | 167.0 | 1.0                    | 0.0    | 0.0    | 193.0      | 216.0 | 204.8 | 0.0                    | 0.0     | 0.0     | 1.1              | 0.0     | 0.2     |
| 34   | 1.0   | PINE(N)       | 132.0      | 237.0 | 185.0 | 0.0                    | 0.0    | 0.0    | 84.0       | 106.0 | 94.0  | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 53   | 1.0   | CRESCENT      | 249.0      | 280.0 | 264.8 | 0.0                    | 0.0    | 0.0    | 205.0      | 236.0 | 220.8 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 176  | 3.0   | RUBY          | 224.0      | 288.0 | 256.0 | 1640.4                 | 371.2  | 817.4  | 143.0      | 169.0 | 157.6 | 3230.1                 | 371.2   | 4424.6  | 6870.6           | 4082.6  | 5323.0  |
| 186  | 1.0   | ANTELOPE      | 233.0      | 261.0 | 247.6 | 0.0                    | 0.0    | 0.0    | 96.0       | 124.0 | 110.0 | 318.0                  | 23.7    | 98.0    | 318.0            | 23.7    | 98.0    |
| 187  | 1.0   | OSMUTE        | 241.0      | 288.0 | 264.8 | 0.0                    | 0.0    | 0.0    | 117.0      | 132.0 | 134.8 | 48.4                   | 1.1     | 8.2     | 48.4             | 1.1     | 8.2     |
| 3    | 2.0   | DEEP CRK      | 209.0      | 244.0 | 226.8 | 180.4                  | 36.7   | 83.9   | 73.0       | 100.0 | 86.8  | 7870.4                 | 4930.6  | 6341.2  | 8030.9           | 4947.3  | 6423.0  |
| 49   | 2.0   | PARDMAN       | 129.0      | 168.0 | 148.8 | 2876.7                 | 896.2  | 1467.3 | 81.0       | 116.0 | 98.8  | 6933.9                 | 3463.3  | 5052.1  | 9810.3           | 4261.4  | 6719.3  |
| 51   | 1.0   | CEDAR CITY    | 103.0      | 149.0 | 127.0 | 168.3                  | 1.7    | 20.8   | 85.0       | 128.0 | 106.8 | 687.4                  | 17.1    | 130.1   | 855.8            | 18.8    | 130.8   |
| 189  | 1.0   | TIPPETT       | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0    | 84.0       | 106.0 | 94.0  | 767.9                  | 168.3   | 371.3   | 767.9            | 168.3   | 371.3   |
| 56   | 2.0   | UPPER REES    | 193.0      | 236.0 | 224.8 | 348.3                  | 19.9   | 92.0   | 232.0      | 263.0 | 248.8 | 36.3                   | 10.2    | 24.7    | 404.6            | 30.1    | 116.7   |
| 53   | 1.0   | CARICO L      | 236.0      | 272.0 | 254.0 | 0.0                    | 0.0    | 0.0    | 228.0      | 241.0 | 234.8 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 138  | 1.0   | GRASS         | 220.0      | 233.0 | 226.8 | 0.0                    | 0.0    | 0.0    | 208.0      | 232.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 133  | 1.0   | DIAMOND       | 196.0      | 248.0 | 222.0 | 0.0                    | 0.0    | 0.0    | 149.0      | 192.0 | 180.8 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 47   | 2.0   | HUNTINGTON    | 224.0      | 272.0 | 248.0 | 93.4                   | 8.4    | 30.0   | 160.0      | 189.0 | 174.8 | 1003.6                 | 349.1   | 603.3   | 1099.0           | 337.3   | 633.4   |
| 198  | 2.0   | DRY           | 80.0       | 96.0  | 88.0  | 8310.0                 | 4234.6 | 7243.1 | 120.0      | 136.0 | 128.0 | 3147.1                 | 2072.0  | 2370.2  | 11437.1          | 8204.6  | 9813.4  |
| 201  | 3.0   | SPRING        | 76.0       | 116.0 | 106.0 | 10312.3                | 8673.3 | 9592.2 | 105.0      | 121.0 | 113.6 | 8249.3                 | 6993.3  | 7618.7  | 18761.8          | 15669.0 | 17210.9 |
| 48   | 3.0   | BEAVER        | 149.0      | 180.0 | 164.8 | 3786.6                 | 3673.3 | 4639.1 | 64.0       | 88.0  | 74.0  | 11618.3                | 9627.9  | 10670.9 | 17403.1          | 13301.3 | 19330.0 |

## EFFECT INDEX OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

 ALTERNATIVE NO. 3  
 BASE A: BEAYL LONG TERM POP 16943 0  
 BASE B: ELY LONG TERM POP 14347 0

| NO   | APPL | LOCATION   | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |          |         |
|------|------|------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|----------|---------|
|      |      |            | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN      | AVE     |
| 174  | 1.0  | JAMES      | 118.0      | 142.0 | 130.0 | 37.6                   | 4.3     | 17.1    | 13.0       | 37.0  | 26.0  | 13088.1                | 8209.2  | 10887.4 | 13143.8          | 8209.7   | 10904.7 |
| 175  | 1.0  | LONG       | 138.0      | 169.0 | 153.3 | 7.1                    | 0.1     | 1.1     | 34.0       | 73.0  | 54.3  | 8930.3                 | 1444.3  | 4248.2  | 8937.6           | 1444.4   | 4249.3  |
| 176  | 1.0  | BUTTE      | 129.0      | 194.0 | 161.3 | 19.0                   | 0.0     | 0.4     | 23.0       | 97.0  | 60.0  | 11560.8                | 308.2   | 3300.8  | 11579.8          | 308.2    | 3301.2  |
| 180  | 2.0  | CAVE       | 71.0       | 92.0  | 81.3  | 10129.7                | 7143.3  | 8602.7  | 20.0       | 62.0  | 41.0  | 13773.2                | 9692.0  | 12085.3 | 23902.9          | 16823.3  | 20688.2 |
| 207  | 2.0  | WHITE R    | 74.0       | 123.0 | 98.3  | 9689.9                 | 2618.6  | 6293.3  | 3.0        | 72.0  | 38.0  | 14310.4                | 8453.3  | 12333.2 | 24000.3          | 12071.9  | 18628.6 |
| 172  | 2.0  | GARDEN     | 89.0       | 112.0 | 100.3 | 7530.3                 | 4710.8  | 6044.6  | 63.0       | 102.0 | 82.3  | 9369.1                 | 4962.3  | 7163.7  | 17111.9          | 4673.2   | 13208.6 |
| 137A | 2.0  | BIG SNOWY  | 149.0      | 229.0 | 210.3 | 393.9                  | 80.4    | 184.2   | 123.0      | 183.0 | 133.0 | 3064.1                 | 470.4   | 1316.4  | 3438.0           | 351.0    | 1300.6  |
| 134  | 1.0  | NEWMARK    | 134.0      | 178.0 | 156.0 | 11.1                   | 0.0     | 0.8     | 34.0       | 74.0  | 54.0  | 8950.3                 | 1334.9  | 4343.8  | 8961.6           | 1334.9   | 4344.6  |
| 3    | 3.0  | SHAKE      | 31.0       | 137.0 | 94.0  | 15037.8                | 7233.0  | 11349.0 | 23.0       | 89.0  | 57.0  | 13946.0                | 10017.3 | 12381.4 | 29003.8          | 17230.3  | 23730.4 |
| 5    | 1.0  | PINE       | 18.0       | 62.0  | 40.0  | 14844.2                | 3328.5  | 8818.0  | 38.0       | 94.0  | 76.0  | 3634.3                 | 389.3   | 1358.0  | 18478.7          | 3918.0   | 10176.0 |
| 9    | 2.0  | GOVT CRK   | 133.0      | 174.0 | 134.3 | 2628.4                 | 771.4   | 1483.1  | 114.0      | 142.0 | 128.0 | 3809.2                 | 1833.1  | 2693.8  | 6447.6           | 2604.3   | 4178.9  |
| 46   | 3.0  | SEV DES    | 73.0       | 166.0 | 119.0 | 13293.3                | 4833.7  | 8914.1  | 82.0       | 135.0 | 118.0 | 10376.1                | 4823.8  | 7389.0  | 23969.6          | 4681.3   | 16303.1 |
| 50   | 1.0  | RILFORD    | 28.0       | 71.0  | 49.3  | 12303.1                | 2164.7  | 6232.3  | 91.0       | 169.0 | 130.0 | 488.3                  | 0.1     | 14.3    | 12791.6          | 2164.9   | 6246.8  |
| 139  | 1.0  | ROSEN      | 189.0      | 212.0 | 190.3 | 0.1                    | 0.0     | 0.0     | 72.0       | 109.0 | 90.3  | 1729.1                 | 112.4   | 306.9   | 1729.3           | 112.4    | 306.9   |
| 140  | 2.0  | MONITOR    | 166.0      | 193.0 | 180.3 | 1018.2                 | 349.9   | 609.8   | 85.0       | 118.0 | 101.3 | 4864.0                 | 3465.0  | 5014.3  | 7882.2           | 3814.9   | 5624.1  |
| 141  | 1.0  | RALSTON    | 171.0      | 194.0 | 182.3 | 0.1                    | 0.0     | 0.0     | 112.0      | 137.0 | 134.3 | 83.7                   | 0.6     | 8.9     | 83.8             | 0.6      | 8.9     |
| 149  | 1.0  | STONE CSM  | 149.0      | 174.0 | 161.3 | 2.0                    | 0.1     | 0.4     | 98.0       | 143.0 | 121.3 | 284.7                  | 2.7     | 34.7    | 286.4            | 2.8      | 33.1    |
| 131  | 1.0  | ANTELOPE   | 158.0      | 182.0 | 170.0 | 0.6                    | 0.0     | 0.1     | 68.0       | 89.0  | 78.3  | 2173.2                 | 363.8   | 1139.9  | 2173.8           | 363.8    | 1140.0  |
| 133  | 1.0  | LITTLE SHO | 123.0      | 163.0 | 130.0 | 10.0                   | 0.2     | 1.7     | 49.0       | 88.0  | 68.3  | 3284.6                 | 608.2   | 2113.3  | 3294.6           | 608.4    | 2113.2  |
| 136  | 2.0  | HOT CRK    | 137.0      | 137.0 | 147.0 | 2493.9                 | 1264.8  | 1868.0  | 71.0       | 120.0 | 93.3  | 8577.4                 | 3300.8  | 3637.1  | 11072.3          | 3470.3   | 7325.0  |
| 170  | 2.0  | PENDVOY    | 102.0      | 132.0 | 117.0 | 3864.0                 | 2863.1  | 4191.3  | 88.0       | 129.0 | 108.3 | 6310.0                 | 2626.0  | 4313.8  | 12370.4          | 5489.1   | 8307.2  |
| 173  | 1.0  | RAILROAD   | 98.0       | 149.0 | 123.3 | 336.2                  | 2.0     | 33.3    | 29.0       | 126.0 | 77.3  | 30178.5                | 22.0    | 1236.3  | 10314.4          | 24.0     | 1264.7  |
| 174  | 2.0  | STEEPLE    | 107.0      | 182.0 | 133.3 | 331.2                  | 0.0     | 86.7    | 65.0       | 147.0 | 77.3  | 10747.0                | 17.0    | 122.8   | 68.2             | 173.8    | 132.8   |
| 182  | 2.0  | GRASS      | 43.0       | 228.0 | 100.0 | 13780.0                | 3388.8  | 11135.1 | 23.0       | 68.0  | 42.3  | 13460.0                | 8930.0  | 11306.4 | 27340.0          | 17329.2  | 23261.3 |
| 184  | 2.0  | SPRING     | 49.0       | 131.0 | 100.0 | 13261.4                | 1634.0  | 6107.1  | 9.0        | 64.0  | 36.3  | 14228.9                | 9443.9  | 12523.2 | 27490.0          | 31100.0  | 18630.0 |
| 196  | 2.0  | HARLIN     | 11.0       | 73.0  | 43.3  | 16733.1                | 9343.6  | 14029.8 | 34.0       | 93.0  | 64.3  | 12730.0                | 3712.3  | 3284.2  | 29483.7          | 15323.9  | 23213.9 |
| 202  | 2.0  | PATTERSON  | 39.0       | 60.0  | 47.3  | 14932.1                | 11734.2 | 13438.7 | 38.0       | 91.0  | 74.3  | 10178.3                | 6162.9  | 8142.3  | 23130.0          | 17897.1  | 21601.9 |
| 137B | 2.0  | BIG SNOWY  | 129.0      | 221.0 | 204.3 | 292.9                  | 112.9   | 213.7   | 108.0      | 141.6 | 124.8 | 4263.8                 | 1854.4  | 2927.8  | 4737.6           | 1767.3   | 3143.3  |
| 130  | 1.0  | LIT FISH L | 160.0      | 176.0 | 168.0 | 0.3                    | 0.1     | 0.2     | 80.0       | 104.0 | 92.0  | 1032.8                 | 173.6   | 433.3   | 1032.1           | 173.6    | 432.3   |
| 133  | 1.0  | PINEHILL   | 196.0      | 237.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 108.0      | 128.0 | 118.0 | 39.1                   | 1.0     | 122.8   | 68.2             | 173.8    | 132.8   |
| 34   | 1.0  | CRACENT    | 228.0      | 248.0 | 238.0 | 0.0                    | 0.0     | 0.0     | 116.0      | 141.0 | 128.0 | 39.1                   | 4.0     | 4.0     | 39.1             | 4.0      | 39.1    |
| 176  | 2.0  | GRASS      | 176.0      | 228.0 | 202.0 | 4158.1                 | 1603.7  | 2662.7  | 63.6       | 124.0 | 94.8  | 11802.3                | 7143.6  | 9344.3  | 13961.3          | 8747.3   | 13207.3 |
| 184  | 1.0  | ANTELOPE   | 132.0      | 188.0 | 170.0 | 1.4                    | 0.0     | 0.1     | 68.0       | 100.0 | 84.0  | 2173.2                 | 242.2   | 803.4   | 2174.3           | 242.2    | 803.3   |
| 187  | 1.0  | GOSHAUTE   | 173.6      | 208.0 | 190.8 | 0.1                    | 0.0     | 0.0     | 77.6       | 128.0 | 102.8 | 1228.4                 | 17.9    | 192.1   | 1228.4           | 17.9     | 192.1   |
| 3    | 2.0  | DEEP CRK   | 132.0      | 184.0 | 148.0 | 2863.1                 | 1089.1  | 1812.6  | 60.0       | 87.6  | 74.8  | 9936.3                 | 6223.9  | 8106.1  | 12799.6          | 7413.0   | 9917.8  |
| 49   | 2.0  | PAROMAN    | 41.6       | 72.0  | 36.8  | 14200.4                | 9982.9  | 12190.4 | 136.0      | 136.0 | 146.0 | 2173.2                 | 1197.3  | 1629.6  | 16322.0          | 11180.3  | 13280.1 |
| 31   | 1.0  | CEBAR CITY | 28.0       | 32.0  | 40.0  | 12303.1                | 3619.2  | 9818.0  | 128.0      | 136.0 | 142.0 | 17.9                   | 0.0     | 0.0     | 13231.0          | 5614.9   | 8821.8  |
| 189  | 1.0  | TIPPETTY   | 132.0      | 137.0 | 144.8 | 12.8                   | 0.7     | 3.2     | 33.6       | 72.6  | 66.6  | 6140.0                 | 1372.3  | 3263.8  | 6133.8           | 1373.0   | 3264.1  |
| 36   | 2.0  | UPPER REES | 212.0      | 248.0 | 228.0 | 178.7                  | 84.3    | 243.3   | 136.0      | 136.0 | 136.0 | 282.0                  | 1323.0  | 200.0   | 130.0            | 132.6    | 200.0   |
| 131  | 1.0  | CARICO L   | 160.0      | 248.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 131.0      | 140.0 | 130.8 | 34.3                   | 4.8     | 13.3    | 34.3             | 4.8      | 13.2    |
| 138  | 1.0  | GRASS      | 206.0      | 232.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 103.6      | 123.6 | 113.6 | 131.4                  | 22.9    | 61.4    | 131.4            | 22.9     | 61.4    |
| 133  | 1.0  | DIAMOND    | 168.0      | 208.0 | 188.0 | 0.2                    | 0.0     | 0.0     | 61.6       | 97.6  | 79.6  | 2048.8                 | 293.9   | 1080.4  | 3048.9           | 293.9    | 1080.4  |
| 47   | 2.0  | HUNTINGTON | 181.6      | 224.0 | 202.8 | 583.3                  | 161.3   | 234.9   | 92.0       | 116.0 | 94.0  | 8430.3                 | 3624.3  | 3823.3  | 9038.8           | 3723.8   | 6078.4  |
| 198  | 2.0  | DRY        | 24.0       | 40.0  | 32.0  | 13973.9                | 14390.8 | 13262.6 | 92.0       | 104.0 | 98.0  | 4048.8                 | 4738.2  | 3384.6  | 23024.7          | 19144.9  | 20046.6 |
| 201  | 3.0  | SPRING     | 24.0       | 32.0  | 38.0  | 18506.1                | 14987.6 | 13864.9 | 64.0       | 93.6  | 78.8  | 11914.8                | 9642.9  | 10823.8 | 28620.0          | 924630.0 | 26664.8 |
| 48   | 3.0  | BEAVER     | 32.0       | 81.6  | 66.8  | 14987.6                | 13236.9 | 12828.9 | 123.6      | 132.0 | 138.8 | 7013.4                 | 3031.6  | 3988.4  | 22003.0          | 17358.3  | 19827.3 |

## EFFECT INDEX OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP. 14943.0  
 BASE B: COVOTE LONG TERM POP. 12193.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 174  | 1.0   | JAMES         | 118.0      | 142.0 | 130.0 | 57.4                   | 4.9     | 17.1    | 133.0      | 184.0 | 170.3 | 0.7                    | 0.0    | 0.1    | 38.3             | 4.3     | 17.2    |
| 175  | 1.0   | LONG          | 128.0      | 149.0 | 133.5 | 7.1                    | 0.1     | 1.1     | 178.0      | 222.0 | 203.0 | 0.0                    | 0.0    | 0.0    | 7.2              | 0.1     | 1.1     |
| 176  | 1.0   | BUTTE         | 129.0      | 194.0 | 161.3 | 19.0                   | 0.0     | 0.4     | 178.0      | 234.0 | 216.0 | 0.0                    | 0.0    | 0.0    | 19.0             | 0.0     | 0.4     |
| 180  | 2.0   | CAVE          | 71.0       | 92.0  | 81.5  | 10129.7                | 7142.3  | 8602.7  | 97.0       | 104.0 | 117.3 | 4448.9                 | 1744.8 | 2980.9 | 14798.6          | 8890.1  | 11582.6 |
| 207  | 2.0   | WHITE R       | 74.0       | 123.0 | 98.5  | 9489.9                 | 3418.4  | 4293.5  | 89.0       | 104.0 | 129.0 | 3424.3                 | 441.4  | 2232.1 | 13124.3          | 4280.0  | 9527.8  |
| 172  | 2.0   | GARDEN        | 89.0       | 112.0 | 100.5 | 7530.3                 | 4710.8  | 6044.9  | 49.0       | 109.0 | 89.0  | 7502.3                 | 3428.0 | 5434.3 | 15032.4          | 8238.8  | 11479.4 |
| 137A | 2.0   | SIO SNOOKY    | 192.0      | 229.0 | 210.5 | 393.9                  | 80.4    | 184.2   | 149.0      | 194.0 | 171.3 | 1269.7                 | 242.0  | 404.4  | 1639.5           | 342.4   | 790.4   |
| 134  | 1.0   | NEMARK        | 134.0      | 178.0 | 156.0 | 11.1                   | 0.0     | 0.8     | 164.0      | 217.0 | 191.3 | 0.2                    | 0.0    | 0.0    | 11.3             | 0.0     | 0.8     |
| 4    | 3.0   | SHAKE         | 31.0       | 137.0 | 94.0  | 13037.8                | 7232.0  | 11249.0 | 132.0      | 223.0 | 178.3 | 3533.3                 | 1227.7 | 2874.9 | 20391.3          | 8440.7  | 14222.9 |
| 3    | 1.0   | PINE          | 18.0       | 62.0  | 40.0  | 14844.2                | 3528.3  | 8818.0  | 108.0      | 132.0 | 130.0 | 104.4                  | 1.0    | 12.3   | 14948.4          | 3529.3  | 8820.3  |
| 9    | 2.0   | GOVT CRK      | 135.0      | 174.0 | 154.5 | 2428.4                 | 771.4   | 1483.1  | 251.0      | 262.0 | 247.0 | 32.7                   | 10.3   | 34.1   | 2491.0           | 781.9   | 1507.2  |
| 46   | 2.0   | BEV DES       | 72.0       | 164.0 | 118.0 | 13392.4                | 4853.7  | 8914.1  | 171.0      | 243.0 | 217.0 | 437.8                  | 329.3  | 1441.2 | 16431.1          | 3383.1  | 10333.3 |
| 50   | 1.0   | HILFORD       | 28.0       | 71.0  | 49.5  | 12303.1                | 2144.7  | 4232.3  | 117.0      | 159.0 | 138.0 | 23.7                   | 0.4    | 5.1    | 12348.8          | 2143.2  | 4237.3  |
| 139  | 1.0   | KOBEN         | 149.0      | 212.0 | 190.3 | 0.1                    | 0.0     | 0.0     | 189.0      | 224.0 | 207.3 | 0.0                    | 0.0    | 0.0    | 0.2              | 0.0     | 0.0     |
| 140  | 2.0   | MONITOR       | 164.0      | 193.0 | 180.3 | 1018.2                 | 349.9   | 469.8   | 131.0      | 203.0 | 177.0 | 1190.3                 | 182.0  | 498.7  | 2208.7           | 531.8   | 1108.4  |
| 141  | 1.0   | RALSTON       | 171.0      | 194.0 | 182.3 | 0.1                    | 0.0     | 0.0     | 123.0      | 148.0 | 143.3 | 23.4                   | 0.1    | 2.2    | 23.3             | 0.1     | 2.2     |
| 149  | 1.0   | STONE CBN     | 149.0      | 174.0 | 161.3 | 2.0                    | 0.1     | 0.4     | 112.0      | 135.0 | 132.3 | 72.9                   | 0.7    | 8.3    | 74.8             | 0.7     | 8.9     |
| 151  | 1.0   | ANTELOPE      | 138.0      | 182.0 | 170.0 | 0.8                    | 0.1     | 0.1     | 169.0      | 197.0 | 182.0 | 0.1                    | 0.0    | 0.0    | 0.7              | 0.0     | 0.1     |
| 153  | 1.0   | LITTLE SMO    | 125.0      | 163.0 | 150.0 | 0.8                    | 0.3     | 0.3     | 141.0      | 153.0 | 152.0 | 41.3                   | 0.0    | 0.9    | 51.3             | 0.3     | 2.6     |
| 154  | 2.0   | HOT CRK       | 137.0      | 157.0 | 147.0 | 3493.9                 | 1249.8  | 1864.0  | 103.0      | 143.0 | 134.0 | 3939.1                 | 810.3  | 1931.9 | 6449.0           | 2180.3  | 3819.8  |
| 170  | 2.0   | PENOVY        | 102.0      | 132.0 | 117.0 | 3840.4                 | 2842.1  | 4191.3  | 63.0       | 93.0  | 80.0  | 7924.1                 | 4853.3 | 4344.9 | 13774.4          | 406.3   | 1774.3  |
| 173  | 1.0   | RAILROAD      | 98.0       | 149.0 | 123.3 | 334.2                  | 2.0     | 33.3    | 83.0       | 171.0 | 127.0 | 732.9                  | 0.1    | 14.9   | 1049.0           | 2.0     | 30.4    |
| 179  | 2.0   | STEPTOE       | 129.0      | 182.0 | 153.3 | 3101.2                 | 574.9   | 1424.9  | 132.0      | 243.0 | 187.3 | 2040.7                 | 29.3   | 327.4  | 3142.0           | 406.3   | 1774.3  |
| 183  | 2.0   | LAKE          | 43.0       | 83.0  | 64.0  | 13780.1                | 8388.8  | 11139.1 | 100.0      | 138.0 | 119.0 | 4393.7                 | 1744.8 | 2874.9 | 18173.7          | 10133.3 | 14030.0 |
| 184  | 2.0   | SPRING        | 49.0       | 131.0 | 100.0 | 13261.4                | 1844.0  | 4107.1  | 112.0      | 218.0 | 163.0 | 3390.7                 | 93.3   | 758.0  | 16432.0          | 1749.4  | 4863.1  |
| 196  | 2.0   | HARLIN        | 11.0       | 73.0  | 43.0  | 16733.1                | 9342.4  | 14029.8 | 91.0       | 143.0 | 118.0 | 3238.3                 | 1427.1 | 2443.3 | 21972.3          | 10970.7 | 14973.1 |
| 202  | 2.0   | PATTERSON     | 33.0       | 60.0  | 46.5  | 14932.4                | 11734.3 | 13947.7 | 73.0       | 144.0 | 104.0 | 4837.8                 | 4130.8 | 5434.3 | 21821.3          | 13843.0 | 18892.2 |
| 137B | 2.0   | SIO SNOOKY    | 192.0      | 221.0 | 204.8 | 393.9                  | 112.9   | 213.7   | 174.0      | 233.0 | 204.0 | 317.0                  | 90.4   | 174.4  | 910.4            | 143.3   | 393.9   |
| 150  | 1.0   | LIT FISH L    | 140.0      | 174.0 | 168.0 | 0.3                    | 0.1     | 0.2     | 153.0      | 181.0 | 167.4 | 0.8                    | 0.0    | 0.1    | 1.3              | 0.1     | 0.3     |
| 53   | 1.0   | PINE(N)       | 194.0      | 227.0 | 211.8 | 0.0                    | 0.0     | 0.0     | 224.0      | 277.0 | 250.8 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 54   | 1.0   | CRESCENT      | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 249.0      | 280.0 | 264.8 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 174  | 3.0   | RUBY          | 174.0      | 228.0 | 202.0 | 4138.1                 | 1602.7  | 2642.7  | 224.0      | 288.0 | 236.0 | 1232.9                 | 283.3  | 424.3  | 3411.0           | 1087.2  | 3287.0  |
| 184  | 1.0   | ANTELOPE      | 132.0      | 188.0 | 170.0 | 1.4                    | 0.0     | 0.1     | 233.0      | 261.0 | 247.4 | 0.0                    | 0.0    | 0.0    | 1.4              | 0.0     | 0.1     |
| 187  | 1.0   | GOBHUITE      | 173.0      | 208.0 | 190.8 | 0.1                    | 0.0     | 0.0     | 241.0      | 288.0 | 264.8 | 0.0                    | 0.0    | 0.0    | 0.1              | 0.0     | 0.0     |
| 3    | 2.0   | DEEP CRK      | 132.0      | 164.0 | 148.0 | 2842.1                 | 1089.1  | 1812.4  | 204.0      | 244.0 | 224.8 | 127.8                  | 28.0   | 64.1   | 2000.9           | 1117.2  | 1874.7  |
| 49   | 2.0   | PARDMAN       | 41.0       | 72.0  | 56.8  | 14200.4                | 9982.9  | 12190.4 | 129.0      | 148.0 | 148.8 | 2197.1                 | 484.4  | 1273.4 | 16277.4          | 10447.3 | 13443.8 |
| 91   | 1.0   | CEDAR CITY    | 28.0       | 32.0  | 40.0  | 12303.1                | 2617.2  | 4818.0  | 103.0      | 149.0 | 127.4 | 128.7                  | 1.3    | 13.8   | 12431.8          | 3420.3  | 8832.8  |
| 189  | 1.0   | TIPPETTY      | 132.0      | 157.0 | 144.8 | 13.8                   | 0.7     | 3.3     | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0    | 13.8             | 0.7     | 3.3     |
| 56   | 2.0   | UPPER REES    | 212.0      | 244.0 | 228.0 | 172.7                  | 29.0    | 84.2    | 193.0      | 234.0 | 224.8 | 244.2                  | 13.2   | 70.3   | 428.9            | 34.2    | 134.4   |
| 95   | 1.0   | CARICO L      | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 236.0      | 272.0 | 254.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 138  | 1.0   | GRASS         | 208.0      | 232.0 | 220.0 | 0.0                    | 0.0     | 0.0     | 220.0      | 233.0 | 234.8 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 153  | 1.0   | DIAPOND       | 148.0      | 208.0 | 188.0 | 0.2                    | 0.0     | 0.0     | 194.0      | 248.0 | 222.0 | 0.0                    | 0.0    | 0.0    | 0.2              | 0.0     | 0.0     |
| 47   | 2.0   | HUNTINGTON    | 181.0      | 224.0 | 202.8 | 383.3                  | 101.3   | 234.9   | 224.0      | 272.0 | 248.0 | 72.9                   | 4.4    | 32.9   | 438.4            | 107.7   | 277.8   |
| 198  | 2.0   | DRY           | 34.0       | 40.0  | 32.0  | 13973.9                | 14390.8 | 13262.0 | 80.0       | 94.0  | 88.0  | 4346.9                 | 4741.8 | 5932.3 | 22322.8          | 19132.4 | 26793.3 |
| 201  | 3.0   | SPRING        | 24.0       | 32.0  | 28.0  | 14304.1                | 14987.4 | 15849.9 | 94.0       | 114.0 | 104.0 | 8029.1                 | 4624.3 | 7324.2 | 24335.2          | 21412.1 | 23193.2 |
| 48   | 3.0   | BEAVER        | 52.0       | 81.0  | 64.8  | 14987.4                | 12524.9 | 13828.9 | 144.0      | 180.0 | 164.8 | 4419.4                 | 2803.7 | 3532.4 | 19407.2          | 15322.4 | 17397.4 |

## EFFECT INDEX OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

ALTERNATIVE NO. 5  
 BASE A: HILFORD LONG TERM POP. 17221.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO.  | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 174  | 1.0  | JAMES         | 123.0      | 143.0 | 134.0 | 33.8                   | 3.2     | 11.3    | 13.0       | 37.0  | 24.0  | 13088.1                | 8203.2  | 7.4     | 13123.9          | 8208.4  | 10898.9 |
| 175  | 1.0  | LONG          | 142.0      | 171.0 | 156.3 | 4.4                    | 0.1     | 0.8     | 34.0       | 73.0  | 34.3  | 8930.3                 | 1444.3  | 448.2   | 8930.3           | 1444.4  | 4249.9  |
| 176  | 1.0  | BUTTE         | 129.0      | 183.0 | 157.0 | 19.3                   | 0.0     | 0.7     | 23.0       | 97.0  | 60.0  | 11340.8                | 208.2   | 3300.8  | 11380.2          | 208.3   | 3301.3  |
| 180  | 2.0  | CAVE          | 84.0       | 103.0 | 94.5  | 8094.3                 | 3823.3  | 6923.2  | 20.0       | 42.0  | 41.0  | 13773.2                | 9492.0  | 12083.3 | 21849.7          | 13923.2 | 19008.8 |
| 207  | 2.0  | WHITE R       | 77.0       | 133.0 | 116.0 | 4393.1                 | 2681.7  | 4248.4  | 3.0        | 72.0  | 38.3  | 14310.4                | 8433.3  | 13332.2 | 20903.3          | 41133.0 | 16693.8 |
| 172  | 2.0  | GARDEN        | 117.0      | 142.0 | 129.3 | 4260.1                 | 2200.3  | 3110.8  | 43.0       | 102.0 | 82.3  | 9349.1                 | 4962.3  | 7162.7  | 13829.2          | 7162.8  | 10274.3 |
| 137A | 2.0  | SIO SHOKY     | 211.0      | 238.0 | 224.5 | 183.3                  | 19.3    | 43.0    | 123.0      | 182.0 | 153.0 | 2044.1                 | 470.4   | 1316.4  | 3247.4           | 489.9   | 1379.2  |
| 134  | 1.0  | NEMARK        | 142.0      | 180.0 | 161.0 | 4.4                    | 0.0     | 0.4     | 34.0       | 74.0  | 34.0  | 8930.3                 | 1324.9  | 4363.8  | 8930.3           | 1324.9  | 4364.2  |
| 4    | 3.0  | SHAKE         | 43.0       | 112.0 | 77.3  | 13823.8                | 9749.7  | 13114.7 | 29.0       | 89.0  | 37.0  | 12944.0                | 10017.3 | 12381.4 | 29781.9          | 19747.0 | 23494.1 |
| 3    | 1.0  | PINE          | 29.0       | 31.0  | 30.0  | 13243.3                | 9934.6  | 9391.9  | 38.0       | 94.0  | 74.0  | 2434.3                 | 389.3   | 1358.0  | 14978.0          | 6344.0  | 10909.9 |
| 9    | 2.0  | GOVT CRK      | 103.0      | 143.0 | 123.0 | 3823.3                 | 2127.2  | 3477.9  | 114.0      | 142.0 | 128.0 | 3809.2                 | 1833.1  | 2493.8  | 9442.3           | 3970.3  | 4373.8  |
| 46   | 2.0  | BEV DES       | 33.0       | 129.0 | 82.0  | 14290.4                | 8094.3  | 12649.4 | 7.8        | 153.0 | 118.3 | 10374.1                | 4823.8  | 7399.0  | 26864.6          | 12922.3 | 20283.8 |
| 50   | 1.0  | HILFORD       | 0.0        | 20.0  | 10.0  | 17221.0                | 14436.9 | 16338.3 | 91.0       | 169.0 | 130.0 | 488.3                  | 0.1     | 14.3    | 17709.3          | 14427.1 | 14344.7 |
| 139  | 1.0  | KOBEN         | 178.0      | 215.0 | 196.3 | 0.0                    | 0.0     | 0.0     | 72.0       | 109.0 | 90.3  | 1729.1                 | 112.4   | 304.9   | 1729.2           | 112.4   | 304.9   |
| 140  | 2.0  | MONITOR       | 164.0      | 209.0 | 197.3 | 304.4                  | 199.7   | 381.7   | 83.0       | 118.0 | 101.3 | 4844.0                 | 3443.0  | 5014.3  | 7346.4           | 3444.7  | 5230.0  |
| 141  | 1.0  | RALSTON       | 194.0      | 222.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 112.0      | 137.0 | 134.3 | 83.7                   | 0.4     | 8.9     | 83.7             | 0.4     | 8.9     |
| 149  | 1.0  | STONE CBN     | 177.0      | 204.0 | 191.3 | 0.0                    | 0.0     | 0.0     | 98.0       | 143.0 | 121.3 | 284.7                  | 2.7     | 34.7    | 284.7            | 2.7     | 34.7    |
| 151  | 1.0  | ANTELOPE      | 172.0      | 192.0 | 182.0 | 0.0                    | 0.0     | 0.0     | 68.0       | 88.0  | 78.3  | 2173.2                 | 363.8   | 1139.9  | 2173.2           | 363.8   | 1139.9  |
| 153  | 1.0  | LITTLE SMO    | 148.0      | 173.0 | 161.3 | 2.3                    | 0.1     | 0.4     | 49.0       | 143.0 | 48.3  | 3364.4                 | 408.2   | 2113.3  | 3364.8           | 408.2   | 2113.9  |
| 154  | 2.0  | HOT CRK       | 160.0      | 186.0 | 173.0 | 1263.3                 | 904.4   | 612.3   | 71.0       | 120.0 | 93.3  | 8377.6                 | 3300.8  | 3437.1  | 9841.1           | 3803.3  | 4449.4  |
| 170  | 2.0  | PENVOYER      | 134.0      | 168.0 | 151.0 | 2734.3                 | 944.7   | 1481.2  | 88.0       | 129.0 | 108.3 | 4310.0                 | 2686.0  | 4313.8  | 9846.3           | 3392.7  | 3997.0  |
| 173  | 1.0  | RAILROAD      | 118.0      | 178.0 | 148.0 | 38.4                   | 0.0     | 2.3     | 29.0       | 124.0 | 77.3  | 10178.3                | 22.0    | 1234.2  | 10237.1          | 22.0    | 1238.4  |
| 179  | 2.0  | STEPDYE       | 92.0       | 171.0 | 131.3 | 7840.4                 | 871.4   | 2949.4  | 0.0        | 83.0  | 42.3  | 14247.0                | 4884.0  | 11932.1 | 21607.4          | 7733.4  | 14881.3 |
| 180  | 2.0  | LARIE         | 63.0       | 98.0  | 77.3  | 11486.0                | 7280.4  | 9230.1  | 29.0       | 68.0  | 34.3  | 12460.4                | 9390.3  | 2344.8  | 6481.1           | 10203.0 | 10203.0 |
| 184  | 2.0  | WAGNER        | 42.0       | 148.0 | 108.0 | 13208.3                | 994.3   | 20208.3 | 9.0        | 124.0 | 36.3  | 9744.3                 | 13334.4 | 4364.8  | 9744.3           | 13334.4 | 4364.8  |
| 185  | 2.0  | HARLIN        | 34.0       | 75.0  | 39.3  | 97973.8                | 1790.3  | 12509.0 | 34.0       | 93.0  | 44.3  | 18730.4                | 3712.3  | 7384.2  | 27736.4          | 13412.3 | 21892.2 |
| 202  | 2.0  | PATTERSON     | 42.0       | 83.0  | 73.3  | 11633.3                | 8229.0  | 9782.8  | 38.0       | 91.0  | 74.3  | 10178.3                | 6162.9  | 8142.2  | 21811.9          | 14401.9 | 18046.3 |
| 137B | 2.0  | SIO SHOKY     | 212.0      | 237.0 | 224.0 | 173.3                  | 34.2    | 99.2    | 108.0      | 141.4 | 124.8 | 4263.8                 | 1834.4  | 2927.8  | 4339.3           | 1908.4  | 2037.0  |
| 130  | 1.0  | LIT FISH L    | 180.0      | 194.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 80.0       | 104.0 | 92.0  | 10584.4                | 173.4   | 432.3   | 1058.7           | 173.4   | 432.3   |
| 50   | 1.0  | PINE(N)       | 200.0      | 236.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 88.0       | 126.0 | 108.0 | 408.2                  | 17.9    | 122.8   | 408.2            | 17.9    | 122.8   |
| 34   | 1.0  | CRESCENT      | 228.0      | 236.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 116.0      | 141.4 | 128.9 | 39.1                   | 4.0     | 124.4   | 39.1             | 4.0     | 124.4   |
| 176  | 3.0  | RUSS          | 176.0      | 216.0 | 196.0 | 4286.2                 | 2073.3  | 3013.3  | 45.0       | 124.0 | 94.3  | 11813.3                | 7143.3  | 994.3   | 14043.3          | 921.4   | 1324.3  |
| 182  | 1.0  | ANTELOPE      | 141.0      | 172.0 | 156.0 | 4.1                    | 0.1     | 0.8     | 46.0       | 100.0 | 84.0  | 8172.3                 | 48.2    | 803.4   | 3178.0           | 248.3   | 806.1   |
| 187  | 0.0  | GO-SUTE       | 164.0      | 204.0 | 182.0 | 0.4                    | 0.0     | 0.0     | 77.4       | 128.0 | 102.8 | 1228.4                 | 17.9    | 192.1   | 1228.0           | 17.9    | 192.1   |
| 3    | 2.0  | DEED CRK      | 117.4      | 149.0 | 133.4 | 4199.2                 | 1734.9  | 2786.4  | 40.0       | 89.0  | 74.3  | 9936.3                 | 6323.9  | 8104.1  | 14123.0          | 6078.9  | 10892.7 |
| 49   | 3.0  | PARDMAN       | 34.0       | 44.0  | 34.0  | 16238.0                | 14123.9 | 13204.9 | 124.0      | 136.0 | 146.0 | 2172.2                 | 1197.3  | 1629.8  | 18411.2          | 13321.3 | 16734.6 |
| 31   | 1.0  | CEBAR CITY    | 16.0       | 49.4  | 32.8  | 19312.4                | 4309.0  | 11100.7 | 128.0      | 136.0 | 142.0 | 17.9                   | 0.7     | 3.0     | 19330.2          | 4309.7  | 11104.6 |
| 189  | 1.0  | TIPPETTY      | 220.0      | 144.0 | 128.0 | 40.2                   | 3.4     | 14.0    | 43.4       | 73.4  | 39.4  | 6140.0                 | 1572.3  | 3363.8  | 6188.2           | 1973.9  | 3379.9  |
| 56   | 3.0  | UPPER REES    | 132.0      | 253.4 | 242.7 | 78.9                   | 84.2    | 48.0    | 183.4      | 152.0 | 130.8 | 1386.0                 | 2966.0  | 2929.1  | 1929.1           | 3438.1  | 2031.1  |
| 33   | 1.0  | CARICO L      | 223.4      | 252.4 | 242.8 | 0.0                    | 0.0     | 0.0     | 109.4      | 123.4 | 113.4 | 131.4                  | 82.9    | 61.4    | 131.4            | 28.9    | 61.4    |
| 128  | 1.0  | GRANDS        | 212.7      | 221.7 | 217.0 | 0.0                    | 0.0     | 0.0     | 61.4       | 97.4  | 79.4  | 3048.8                 | 293.9   | 1080.4  | 3048.9           | 293.9   | 1080.4  |
| 123  | 1.0  | STANGON       | 172.0      | 212.0 | 192.0 | 0.1                    | 0.0     | 0.0     | 61.4       | 97.4  | 79.4  | 4843.2                 | 3434.3  | 3823.3  | 9048.4           | 3737.9  | 6104.9  |
| 47   | 2.0  | HANTINGTON    | 181.4      | 220.0 | 200.8 | 993.1                  | 122.4   | 281.3   | 72.0       | 116.0 | 94.0  | 4843.2                 | 3434.3  | 3823.3  | 9048.4           | 3737.9  | 6104.9  |
| 198  | 2.0  | GRY           | 34.0       | 72.4  | 44.8  | 12903.0                | 9908.4  | 12811.3 | 92.0       | 104.0 | 98.0  | 4048.8                 | 4786.2  | 3284.4  | 18332.9          | 14644.3 | 16604.1 |
| 201  | 3.0  | SPRING        | 32.0       | 68.0  | 40.0  | 13233.3                | 12643.8 | 14426.9 | 44.0       | 92.4  | 78.8  | 11914.8                | 9442.9  | 10823.8 | 27148.4          | 23604.0 | 28342.8 |
| 48   | 3.0  | BEAVER        | 17.4       | 48.0  | 32.8  | 14986.8                | 19312.4 | 16400.9 | 123.4      | 132.0 | 138.8 | 7015.4                 | 3021.4  | 3998.4  | 23496.2          | 20344.0 | 23289.2 |

## EFFECT INDEX OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

ALTERNATIVE NO. 6  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: COYOTE LONG TERM POP. 12195.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 174  | 1.0   | JAMES         | 123.0      | 143.0 | 134.0 | 35.8                   | 3.2     | 11.3    | 133.0      | 186.0 | 170.3 | 0.7                    | 0.0    | 0.1    | 36.3             | 3.2     | 11.4    |
| 175  | 1.0   | LONG          | 142.0      | 171.0 | 156.5 | 4.6                    | 0.1     | 0.8     | 178.0      | 232.0 | 205.0 | 0.0                    | 0.0    | 0.0    | 4.6              | 0.1     | 0.8     |
| 176  | 1.0   | BUTTE         | 129.0      | 183.0 | 157.0 | 19.3                   | 0.0     | 0.7     | 178.0      | 234.0 | 216.0 | 0.0                    | 0.0    | 0.0    | 19.3             | 0.0     | 0.7     |
| 180  | 2.0   | CAVE          | 84.0       | 103.0 | 94.5  | 8096.3                 | 5833.3  | 6923.2  | 97.0       | 138.0 | 117.5 | 4468.9                 | 1746.8 | 2980.9 | 12763.4          | 7580.0  | 9904.1  |
| 207  | 2.0   | WHITE R       | 97.0       | 135.0 | 116.0 | 6593.1                 | 3481.7  | 4362.6  | 89.0       | 149.0 | 129.0 | 3434.5                 | 441.4  | 2232.1 | 12027.6          | 3243.1  | 6394.7  |
| 172  | 2.0   | GARDEN        | 117.0      | 142.0 | 129.5 | 4260.1                 | 2200.3  | 3110.8  | 69.0       | 109.0 | 89.0  | 7502.3                 | 3428.0 | 3434.5 | 11762.4          | 3828.3  | 8343.3  |
| 137A | 2.0   | BIG SMOXY     | 211.0      | 258.0 | 234.5 | 183.3                  | 19.3    | 63.0    | 149.0      | 194.0 | 171.5 | 1263.7                 | 262.0  | 406.4  | 1449.0           | 281.3   | 669.4   |
| 134  | 1.0   | NEMARK        | 142.0      | 180.0 | 161.0 | 4.6                    | 0.0     | 0.4     | 166.0      | 217.0 | 191.5 | 0.2                    | 0.0    | 0.0    | 4.7              | 0.0     | 0.4     |
| 4    | 3.0   | SNAKE         | 43.0       | 112.0 | 77.5  | 15835.8                | 9749.7  | 13114.7 | 132.0      | 225.0 | 178.5 | 5533.5                 | 1227.7 | 2874.9 | 21369.3          | 10977.4 | 15989.7 |
| 5    | 1.0   | PINE          | 23.0       | 31.0  | 28.0  | 13343.3                | 3936.6  | 9551.9  | 108.0      | 152.0 | 130.0 | 104.4                  | 1.0    | 12.3   | 13447.8          | 3937.6  | 9364.2  |
| 9    | 2.0   | GOVT CRK      | 103.0      | 143.0 | 123.0 | 3833.3                 | 2137.2  | 3677.9  | 231.0      | 263.0 | 247.0 | 52.7                   | 10.5   | 24.1   | 3885.9           | 2147.7  | 3702.1  |
| 46   | 3.0   | SEV DES       | 35.0       | 129.0 | 82.0  | 16290.4                | 8096.5  | 12694.7 | 171.0      | 263.0 | 217.0 | 3237.8                 | 529.5  | 1441.2 | 19528.2          | 8626.0  | 14135.9 |
| 50   | 1.0   | MILFORD       | 0.0        | 20.0  | 10.0  | 17221.0                | 14626.9 | 16532.3 | 117.0      | 159.0 | 138.0 | 45.7                   | 0.4    | 3.1    | 17266.7          | 14627.3 | 16337.4 |
| 139  | 1.0   | ROSEN         | 178.0      | 215.0 | 196.5 | 0.0                    | 0.0     | 0.0     | 189.0      | 226.0 | 207.5 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 140  | 2.0   | MONITOR       | 186.0      | 209.0 | 197.5 | 304.6                  | 199.7   | 321.7   | 151.0      | 203.0 | 177.0 | 1190.5                 | 182.0  | 498.7  | 1493.1           | 381.4   | 820.4   |
| 141  | 1.0   | RALSTON       | 194.0      | 222.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 123.0      | 168.0 | 145.5 | 25.4                   | 0.1    | 2.2    | 25.4             | 0.1     | 2.2     |
| 149  | 1.0   | STONE CSM     | 177.0      | 206.0 | 191.5 | 0.0                    | 0.0     | 0.0     | 112.0      | 155.0 | 133.5 | 72.9                   | 0.7    | 8.5    | 72.9             | 0.7     | 8.5     |
| 131  | 1.0   | ANTELOPE      | 172.0      | 194.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 149.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0    | 0.2              | 0.0     | 0.0     |
| 133  | 1.0   | LITTLE SHO    | 148.0      | 175.0 | 161.5 | 2.3                    | 0.1     | 0.4     | 118.0      | 188.0 | 153.0 | 41.5                   | 0.0    | 0.9    | 43.7             | 0.1     | 1.3     |
| 134  | 2.0   | HOT CRK       | 160.0      | 186.0 | 173.0 | 1263.3                 | 304.6   | 812.3   | 105.0      | 163.0 | 134.0 | 3959.1                 | 810.5  | 1951.9 | 5222.6           | 1315.1  | 2764.2  |
| 170  | 2.0   | PENOVER       | 134.0      | 168.0 | 151.0 | 2756.3                 | 966.7   | 1681.2  | 65.0       | 95.0  | 80.0  | 7924.1                 | 4855.5 | 6346.9 | 10680.3          | 3822.2  | 8028.1  |
| 173  | 1.0   | RAILROAD      | 118.0      | 178.0 | 148.0 | 58.4                   | 0.0     | 2.3     | 83.0       | 171.0 | 127.0 | 732.9                  | 0.1    | 16.9   | 791.4            | 0.1     | 19.1    |
| 179  | 2.0   | STEEPLE       | 92.0       | 171.0 | 131.5 | 7860.6                 | 871.4   | 2949.4  | 132.0      | 243.0 | 187.5 | 2060.7                 | 29.5   | 337.4  | 9321.3           | 900.9   | 3286.9  |
| 183  | 2.0   | LAKE          | 43.0       | 92.0  | 77.5  | 11486.0                | 7260.4  | 9330.1  | 100.0      | 138.0 | 119.0 | 4395.7                 | 1746.8 | 2874.9 | 15881.7          | 9007.3  | 12203.0 |
| 184  | 2.0   | SPRING        | 42.0       | 142.0 | 102.0 | 11433.3                | 2200.3  | 3956.6  | 112.0      | 218.0 | 165.0 | 3390.7                 | 95.5   | 798.0  | 15024.1          | 2295.8  | 6714.6  |
| 194  | 2.0   | HARLIN        | 37.0       | 75.0  | 56.0  | 14973.8                | 9700.2  | 12503.0 | 91.0       | 143.0 | 118.0 | 3238.5                 | 1427.1 | 2943.3 | 20214.3          | 11127.3 | 15450.3 |
| 202  | 2.0   | PATTERSON     | 62.0       | 83.0  | 73.5  | 11433.3                | 8239.0  | 9923.2  | 75.0       | 103.0 | 89.0  | 6869.2                 | 4130.8 | 5434.5 | 16502.6          | 12369.9 | 15337.7 |
| 137B | 2.0   | BIG SMOXY     | 212.0      | 237.0 | 224.8 | 175.3                  | 34.2    | 99.2    | 176.0      | 232.0 | 204.0 | 517.0                  | 30.2   | 174.6  | 692.5            | 104.5   | 273.8   |
| 190  | 1.0   | LIT FISH L    | 180.0      | 196.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 153.0      | 181.0 | 167.4 | 0.8                    | 0.0    | 0.1    | 0.8              | 0.0     | 0.1     |
| 33   | 1.0   | PINE(N)       | 200.0      | 236.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 224.0      | 277.0 | 250.8 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 34   | 1.0   | CRESCENT      | 228.0      | 236.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 249.0      | 280.0 | 264.8 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 176  | 3.0   | RUBY          | 176.0      | 216.0 | 196.0 | 4226.3                 | 2075.5  | 3015.9  | 224.0      | 288.0 | 256.0 | 1252.9                 | 283.5  | 424.3  | 5479.2           | 2359.0  | 3640.2  |
| 186  | 1.0   | ANTELOPE      | 141.0      | 172.0 | 156.8 | 4.8                    | 0.1     | 0.8     | 233.0      | 261.0 | 247.6 | 0.0                    | 0.0    | 0.0    | 4.8              | 0.1     | 0.8     |
| 187  | 1.0   | GOSHUTE       | 161.0      | 204.0 | 182.8 | 0.4                    | 0.0     | 0.0     | 241.0      | 288.0 | 264.8 | 0.0                    | 0.0    | 0.0    | 0.4              | 0.0     | 0.0     |
| 3    | 2.0   | DEEP CRK      | 117.0      | 149.0 | 133.6 | 4199.3                 | 1794.9  | 2786.6  | 209.0      | 244.0 | 226.8 | 137.8                  | 28.0   | 44.1   | 4337.2           | 1783.0  | 2850.6  |
| 49   | 2.0   | PARDMAN       | 24.0       | 44.0  | 34.0  | 16238.0                | 14133.9 | 19304.9 | 129.0      | 168.0 | 148.8 | 2197.1                 | 484.4  | 1273.4 | 18435.1          | 14818.5 | 16378.2 |
| 51   | 1.0   | CEDAR CITY    | 16.0       | 49.0  | 32.8  | 15512.4                | 6309.0  | 11100.7 | 105.0      | 149.0 | 127.4 | 128.7                  | 1.3    | 15.8   | 15641.1          | 6210.3  | 11116.6 |
| 185  | 1.0   | TIPPETT       | 120.0      | 144.0 | 132.0 | 48.2                   | 3.4     | 14.0    | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0    | 48.2             | 3.4     | 14.0    |
| 56   | 2.0   | UPPER REES    | 232.0      | 253.0 | 242.8 | 70.9                   | 24.3    | 42.0    | 193.0      | 256.0 | 224.8 | 266.2                  | 15.2   | 70.3   | 337.1            | 39.5    | 112.3   |
| 55   | 1.0   | CARICO L      | 223.0      | 253.0 | 243.6 | 0.0                    | 0.0     | 0.0     | 236.0      | 272.0 | 254.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 138  | 1.0   | GRASS         | 217.0      | 240.0 | 228.8 | 0.0                    | 0.0     | 0.0     | 220.0      | 253.0 | 236.8 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 133  | 1.0   | DIAMOND       | 173.0      | 212.0 | 192.8 | 0.1                    | 0.0     | 0.0     | 196.0      | 248.0 | 222.0 | 0.0                    | 0.0    | 0.0    | 0.1              | 0.0     | 0.0     |
| 47   | 2.0   | HUNTINGTON    | 181.0      | 220.0 | 200.8 | 595.1                  | 123.4   | 281.3   | 224.0      | 272.0 | 248.0 | 72.9                   | 6.4    | 22.9   | 668.0            | 129.8   | 304.3   |
| 198  | 2.0   | DRY           | 36.0       | 73.0  | 64.8  | 12505.0                | 9908.4  | 11219.5 | 80.0       | 96.0  | 88.0  | 6346.9                 | 4761.8 | 5533.5 | 18851.9          | 14670.1 | 16753.0 |
| 201  | 3.0   | SPRING        | 32.0       | 68.0  | 60.0  | 15233.3                | 13963.2 | 14626.9 | 96.0       | 116.0 | 106.0 | 8029.1                 | 6624.5 | 7326.2 | 23262.6          | 20587.7 | 21953.1 |
| 48   | 3.0   | BEAVER        | 17.0       | 48.0  | 32.8  | 16980.8                | 15512.4 | 16400.9 | 149.0      | 180.0 | 164.8 | 4419.6                 | 2805.7 | 3558.4 | 21400.4          | 18318.1 | 19959.4 |

COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON SAGEGROUSE HABITAT

| NO.  | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |         |         |
|------|---------------|--------|-------------------------------------|---------|---------|---------|---------|---------|
|      |               |        | 0                                   | 1       | 2       | 3       | 4       | 5       |
| 174  | JAKES         | 1.0    | 8.7                                 | 13.1    | 33.2    | 10904.7 | 17.2    | 10898.9 |
| 175  | LONG          | 1.0    | 0.6                                 | 0.9     | 10.6    | 4269.3  | 1.1     | 4269.0  |
| 178  | BUTTE         | 1.0    | 0.6                                 | 0.3     | 31.3    | 3301.2  | 0.4     | 3301.3  |
| 180  | CAVE          | 2.0    | 9137.7                              | 10419.3 | 7749.8  | 20688.2 | 11583.6 | 19008.8 |
| 207  | WHITE R       | 2.0    | 6233.8                              | 7691.3  | 3771.3  | 18628.6 | 8927.6  | 16695.8 |
| 172  | GARDEN        | 2.0    | 9476.3                              | 11694.3 | 8275.3  | 13208.6 | 11479.4 | 10274.3 |
| 137A | BIG SMOXY     | 2.0    | 841.8                               | 933.3   | 817.2   | 1500.6  | 790.6   | 1379.3  |
| 134  | NEHARK        | 1.0    | 0.3                                 | 0.6     | 0.2     | 4364.6  | 0.8     | 4364.2  |
| 4    | SNAKE         | 3.0    | 13718.4                             | 12360.8 | 15629.7 | 23730.4 | 14233.9 | 23496.1 |
| 5    | PINE          | 1.0    | 7266.2                              | 6695.6  | 1920.8  | 10176.0 | 8830.3  | 10909.9 |
| 9    | GOVT CRK      | 2.0    | 2823.2                              | 1135.0  | 9964.6  | 4178.9  | 1507.2  | 6373.8  |
| 46   | SEV DES       | 3.0    | 11522.4                             | 8639.2  | 14906.8 | 16503.1 | 10353.3 | 20283.8 |
| 30   | MILFORD       | 1.0    | 12355.0                             | 4727.6  | 886.0   | 6246.8  | 4237.3  | 16346.7 |
| 139  | KOBEH         | 1.0    | 0.0                                 | 0.0     | 0.0     | 506.9   | 0.0     | 506.9   |
| 140  | MONITOR       | 2.0    | 897.1                               | 1114.8  | 883.8   | 5624.1  | 1108.4  | 5326.0  |
| 141  | RALSTON       | 1.0    | 2.8                                 | 2.8     | 2.8     | 8.9     | 2.2     | 8.9     |
| 149  | STONE CBN     | 1.0    | 11.1                                | 11.4    | 11.1    | 35.1    | 8.9     | 34.7    |
| 151  | ANTELOPE      | 1.0    | 0.0                                 | 0.1     | 0.1     | 1160.0  | 0.1     | 1159.8  |
| 155  | LITTLE SHO    | 1.0    | 1.4                                 | 2.4     | 1.4     | 2115.2  | 2.6     | 2113.9  |
| 156  | HOT CRK       | 2.0    | 3172.1                              | 3970.3  | 2934.1  | 7325.0  | 3819.8  | 4469.4  |
| 170  | PENOVER       | 2.0    | 9586.1                              | 11484.9 | 8718.5  | 8507.2  | 10538.2 | 5997.0  |
| 173  | RAILROAD      | 1.0    | 23.8                                | 47.3    | 22.2    | 1249.7  | 50.4    | 1238.4  |
| 179  | STEPTOE       | 2.0    | 2680.3                              | 1330.2  | 4788.1  | 13369.0 | 1774.3  | 14881.3 |
| 183  | LAKE          | 2.0    | 10845.9                             | 12213.9 | 8545.0  | 22661.3 | 14030.0 | 20836.5 |
| 184  | SPRING        | 2.0    | 3513.6                              | 3618.3  | 7937.9  | 18630.4 | 6865.1  | 18480.0 |
| 196  | HAMLIN        | 2.0    | 13347.8                             | 14482.6 | 10344.1 | 23413.9 | 16975.1 | 21889.2 |
| 202  | PATTERSON     | 2.0    | 14647.3                             | 17310.1 | 10747.2 | 21601.9 | 18893.2 | 18066.3 |
| 137B | BIG SMOXY     | 2.0    | 303.9                               | 391.9   | 273.3   | 3143.3  | 390.2   | 3027.0  |
| 150  | LIT FISH L    | 1.0    | 0.2                                 | 0.3     | 0.2     | 453.3   | 0.3     | 453.3   |
| 53   | PINE(N)       | 1.0    | 0.0                                 | 0.0     | 0.0     | 122.8   | 0.0     | 122.8   |
| 54   | CRESCENT      | 1.0    | 0.0                                 | 0.0     | 0.0     | 16.4    | 0.0     | 16.4    |
| 176  | RUBY          | 3.0    | 3106.3                              | 2834.3  | 5252.0  | 12207.2 | 3287.0  | 12560.4 |
| 186  | ANTELOPE      | 1.0    | 0.6                                 | 0.1     | 98.0    | 803.3   | 0.1     | 804.1   |
| 187  | GOBWHITE      | 1.0    | 0.0                                 | 0.0     | 8.2     | 192.1   | 0.0     | 192.1   |
| 3    | DEEP CRK      | 2.0    | 2198.9                              | 1436.9  | 6425.0  | 9918.7  | 1876.7  | 10892.7 |
| 49   | PAROMAN       | 2.0    | 13283.9                             | 10901.3 | 6719.3  | 13820.1 | 12463.8 | 16934.6 |
| 51   | CEDAR CITY    | 1.0    | 8446.4                              | 6700.2  | 150.8   | 8821.8  | 8833.8  | 11104.6 |
| 185  | TIPPETT       | 1.0    | 10.7                                | 2.3     | 371.3   | 3369.1  | 3.3     | 3379.9  |
| 36   | UPPER REES    | 2.0    | 123.9                               | 155.8   | 116.7   | 2093.3  | 154.4   | 2051.1  |
| 55   | CARICO L      | 1.0    | 0.0                                 | 0.0     | 0.0     | 13.3    | 0.0     | 13.3    |
| 138  | GRASS         | 1.0    | 0.0                                 | 0.0     | 0.0     | 61.4    | 0.0     | 61.4    |
| 153  | DIAMOND       | 1.0    | 0.0                                 | 0.0     | 0.0     | 1080.4  | 0.0     | 1080.4  |
| 47   | HUNTINGTON    | 2.0    | 243.6                               | 223.1   | 625.4   | 6078.4  | 277.8   | 4104.9  |
| 198  | DRY           | 2.0    | 15740.9                             | 18805.7 | 9615.4  | 20646.6 | 20795.3 | 16604.1 |
| 201  | SPRING        | 3.0    | 20694.3                             | 21612.7 | 17210.9 | 26694.8 | 23195.2 | 25432.7 |
| 48   | BEAVER        | 3.0    | 17107.7                             | 15141.8 | 15330.0 | 19827.3 | 17397.4 | 22389.3 |

SAGEGROUSE HABITAT RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0             | ALT 1             | ALT 2             | ALT 3             | ALT 4              | ALT 5              | ALT 6           |
|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-----------------|
| RESOURCE INDEX    | RESOURCE INDEX    | RESOURCE INDEX    | RESOURCE INDEX    | RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX  |
| SPRING 20694.3    | SPRING 21612.7    | SPRING 17210.9    | SPRING 26694.8    | SPRING 23195.2     | SNAKE 23496.1      | SPRING 21952.1  |
| BEAVER 17107.7    | DRY 18803.7       | SNAKE 15629.7     | SNAKE 22730.4     | DRY 20795.3        | SPRING 23432.7     | BEAVER 19959.4  |
| DRY 15760.9       | PATTERSON 17310.1 | BEAVER 15330.0    | HAMLIN 22413.9    | PATTERSON 18893.2  | BEAVER 22389.3     | DRY 16753.0     |
| PATTERSON 14647.3 | BEAVER 15141.8    | SEV DES 14906.8   | LAKE 22661.3      | BEAVER 17397.4     | HAMLIN 21889.2     | PAROMAN 16578.3 |
| SNAKE 13718.4     | HAMLIN 14482.6    | PATTERSON 10747.2 | PATTERSON 21601.9 | HAMLIN 16975.1     | LAKE 20836.5       | MILFORD 16537.4 |
| HAMLIN 13347.8    | SNAKE 12360.8     | HAMLIN 10344.1    | CAVE 20688.2      | SNAKE 14233.9      | SEV DES 20283.8    | SNAKE 15989.7   |
| PAROMAN 13283.9   | LAKE 12213.9      | DRY 20646.6       | LAKE 14030.0      | CAVE 19008.8       | HAMLIN 15430.3     |                 |
| MILFORD 12355.0   | GARDEN 11694.3    | BEAVER 19827.3    | PAROMAN 13463.8   | SPRING 18480.0     | PATTERSON 15357.7  |                 |
| SEV DES 11522.4   | PENOVER 11484.9   | SPRING 18630.4    | CAVE 11582.6      | PATTERSON 18066.3  | SEV DES 14135.9    |                 |
| LAKE 10845.9      | PAROMAN 10901.3   | WHITE R 18628.6   | GARDEN 11479.4    | PAROMAN 16934.6    | LAKE 12205.0       |                 |
|                   | CAVE 10419.3      | SEV DES 16503.1   | PENOVER 10538.2   | WHITE R 16695.8    | CEDAR CITY 11116.6 |                 |
|                   |                   | PAROMAN 13820.1   | SEV DES 10353.3   | DRY 16604.1        |                    |                 |
|                   |                   | STEPTOE 13369.0   |                   | MILFORD 16346.7    |                    |                 |
|                   |                   | GARDEN 13208.6    |                   | STEPTOE 14881.3    |                    |                 |
|                   |                   | RUBY 12207.2      |                   | RUBY 12560.4       |                    |                 |
|                   |                   | JAKES 10904.7     |                   | CEDAR CITY 11104.6 |                    |                 |
|                   |                   | PINE 10176.0      |                   | PINE 10909.9       |                    |                 |
|                   |                   |                   |                   | JAKES 10898.9      |                    |                 |
|                   |                   |                   |                   | DEEP CRK 10892.7   |                    |                 |
|                   |                   |                   |                   | GARDEN 10274.3     |                    |                 |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for sage grouse habitat.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 2        | Coyote Delta   | 3,983                                   | 5,185                         | 764                       | 1                               |
| 2            | 1        | Coyote Beryl   | 4,571                                   | 6,154                         | 907                       | 2                               |
| 3            | 0        | Coyote Milford | 4,684                                   | 6,006                         | 886                       | 3                               |
| 4            | 4        | Beryl Coyote   | 5,157                                   | 6,846                         | 1,009                     | 4                               |
| 5            | 6        | Milford Coyote | 5,298                                   | 6,811                         | 1,005                     | 5                               |
| 6            | 3        | Beryl Ely      | 8,549                                   | 8,278                         | 1,220                     | 6                               |
| 7            | 5        | Milford Ely    | 8,690                                   | 8,194                         | 1,208                     | 7                               |

3955

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

## EFFECT INDEX OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

ALTERNATIVE NO. 0  
 BASE A: COYOTE LONG TERM POP 15967.0  
 BASE B: MILFORD LONG TERM POP 13071.0

| NO.  | APPL. | NAME       | MILES TO A |      |      | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|-------|------------|------------|------|------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |       |            | N          | F    | AVE  | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 209  | 1.0   | PAHRANAGAT | 22.0       | 66.0 | 44.0 | 13104.7                | 2698.1  | 7243.1  | 108.0      | 138.0 | 123.0 | 111.9                  | 5.3    | 27.2   | 13216.6          | 2703.4  | 7272.2  |
| 210  | 1.0   | COYOTE     | 0.0        | 31.0 | 13.3 | 15967.0                | 10786.3 | 14473.6 | 123.0      | 180.0 | 131.3 | 27.2                   | 0.0    | 0.0    | 15994.2          | 10786.3 | 14473.6 |
| 203  | 2.0   | MEADOW V   | 8.0        | 64.0 | 36.0 | 15863.1                | 10512.3 | 13989.1 | 88.0       | 140.0 | 114.0 | 5931.0                 | 1769.0 | 3470.4 | 21794.1          | 12281.5 | 17459.5 |
| 206  | 1.0   | KANE SPR   | 16.0       | 48.0 | 32.0 | 14382.8                | 8234.6  | 10512.3 | 64.0       | 128.0 | 115.0 | 187.1                  | 16.3   | 39.2   | 14569.9          | 8230.9  | 10571.7 |
| 221  | 1.0   | TULE DES   | 34.0       | 36.0 | 45.0 | 9961.1                 | 4439.4  | 6986.6  | 88.0       | 112.0 | 100.0 | 354.1                  | 78.1   | 220.6  | 10515.2          | 4517.3  | 7207.2  |
| 222  | 2.0   | VIRGIN R   | 28.0       | 76.0 | 52.0 | 14739.4                | 8856.4  | 14382.8 | 136.0      | 192.0 | 153.0 | 8134.4                 | 1670.0 | 4242.5 | 22892.8          | 10526.4 | 16360.5 |
| 219  | 1.0   | MUDDY R    | 8.0        | 16.0 | 12.0 | 15553.3                | 14382.8 | 15055.6 | 18.0       | 112.0 | 65.0  | 29.9                   | 1.2    | 3.1    | 15562.2          | 14384.2 | 15058.7 |
| 216  | 2.0   | GARNET     | 16.0       | 36.0 | 26.0 | 15553.3                | 13989.1 | 14902.7 | 152.0      | 170.0 | 161.0 | 1237.2                 | 284.8  | 928.1  | 16792.3          | 14873.9 | 15830.8 |
| 217  | 2.0   | HIDDEN V N | 16.0       | 28.0 | 22.0 | 15553.3                | 14739.4 | 15197.4 | 152.0      | 164.0 | 158.0 | 1237.2                 | 840.2  | 1023.3 | 16792.3          | 15579.9 | 16220.9 |
| 218  | 2.0   | CALIF WASH | 14.0       | 40.0 | 27.0 | 15650.8                | 13561.8 | 14822.4 | 140.0      | 166.0 | 153.0 | 1769.0                 | 785.3  | 1199.3 | 17419.8          | 14347.3 | 16021.6 |
| 215  | 3.0   | BLACK MTNS | 36.0       | 60.0 | 48.0 | 15055.6                | 13561.8 | 14382.8 | 142.0      | 180.0 | 161.0 | 5237.9                 | 2007.2 | 4034.3 | 20243.5          | 16369.0 | 18417.1 |
| 223  | 3.0   | GOLD BUTTE | 40.0       | 60.0 | 40.0 | 14849.4                | 12946.4 | 13989.1 | 128.0      | 164.0 | 146.0 | 6217.4                 | 2858.8 | 4971.3 | 21066.9          | 16806.2 | 18960.4 |
| 212  | 1.0   | LAS VEGAS  | 20.0       | 60.0 | 40.0 | 13561.8                | 8636.4  | 12673.3 | 8310.0     | 160.0 | 200.0 | 0.4                    | 0.0    | 0.0    | 13562.2          | 3673.3  | 8310.1  |
| 211  | 1.0   | THREE LAK  | 20.0       | 60.0 | 40.0 | 13561.8                | 8636.4  | 12673.3 | 8310.0     | 160.0 | 200.0 | 0.4                    | 0.0    | 0.0    | 13562.2          | 3673.3  | 8310.1  |
| 1698 | 1.0   | TIKASOO S  | 8.0        | 42.0 | 25.0 | 15553.3                | 7772.0  | 12371.8 | 138.0      | 158.0 | 148.0 | 0.4                    | 0.0    | 0.0    | 15560.8          | 7772.3  | 12373.5 |
| 161  | 1.0   | INDIAN SPR | 38.0       | 66.0 | 52.0 | 8856.4                 | 2698.1  | 11327.8 | 160.0      | 204.0 | 182.0 | 0.4                    | 0.0    | 0.0    | 8856.4           | 2698.1  | 11327.8 |
| 220  | 1.0   | LOWER MO   | 20.0       | 38.0 | 29.0 | 13561.8                | 8856.4  | 11327.8 | 122.0      | 152.0 | 137.0 | 30.1                   | 1.0    | 6.2    | 13591.9          | 8857.4  | 11333.9 |

## EFFECT INDEX OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

ALTERNATIVE NO. 1  
 BASE A: COYOTE LONG TERM POP 15967.0  
 BASE B: BERYL LONG TERM POP 12824.0

| NO.  | APPL. | NAME       | MILES TO A |      |      | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|-------|------------|------------|------|------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |       |            | N          | F    | AVE  | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 209  | 1.0   | PAHRANAGAT | 22.0       | 66.0 | 44.0 | 13104.7                | 2698.1  | 7243.1  | 74.0       | 100.0 | 87.0  | 1372.0                 | 216.6  | 584.3  | 14477.7          | 2914.8  | 7829.4  |
| 210  | 1.0   | COYOTE     | 0.0        | 31.0 | 13.3 | 15967.0                | 10786.3 | 14473.6 | 71.0       | 114.0 | 92.3  | 1639.8                 | 63.8   | 390.3  | 17606.8          | 10850.1 | 14866.1 |
| 203  | 2.0   | MEADOW V   | 8.0        | 64.0 | 36.0 | 15863.1                | 10512.3 | 13989.1 | 50.0       | 104.0 | 77.0  | 9944.3                 | 4256.4 | 7008.3 | 25807.3          | 14768.9 | 20977.4 |
| 206  | 1.0   | KANE SPR   | 16.0       | 48.0 | 32.0 | 14382.8                | 8234.6  | 10512.3 | 64.0       | 92.0  | 78.0  | 2411.3                 | 405.3  | 1071.3 | 16794.4          | 8640.1  | 11580.8 |
| 221  | 1.0   | TULE DES   | 34.0       | 36.0 | 45.0 | 9961.1                 | 4439.4  | 6986.6  | 50.0       | 76.0  | 63.0  | 1626.0                 | 1214.8 | 2339.8 | 14587.1          | 5654.2  | 9326.4  |
| 222  | 2.0   | VIRGIN R   | 28.0       | 76.0 | 52.0 | 14739.4                | 8856.4  | 14382.8 | 132.0      | 108.0 | 70.0  | 11540.7                | 3903.6 | 7784.2 | 26500.1          | 12759.9 | 19901.2 |
| 219  | 1.0   | MUDDY R    | 8.0        | 16.0 | 12.0 | 15553.3                | 14382.8 | 15055.6 | 18.0       | 112.0 | 65.0  | 11244.2                | 76.7   | 2287.8 | 26799.5          | 14659.5 | 17243.4 |
| 216  | 2.0   | GARNET     | 16.0       | 36.0 | 26.0 | 15553.3                | 13989.1 | 14902.7 | 116.0      | 124.0 | 125.0 | 3231.2                 | 2034.1 | 2605.7 | 18806.0          | 16463.2 | 17308.3 |
| 217  | 2.0   | HIDDEN V N | 16.0       | 28.0 | 22.0 | 15553.3                | 14739.4 | 15197.4 | 114.0      | 128.0 | 121.0 | 3407.5                 | 2411.5 | 2880.9 | 18962.3          | 17150.9 | 18078.5 |
| 218  | 2.0   | CALIF WASH | 14.0       | 40.0 | 27.0 | 15650.8                | 13561.8 | 14822.4 | 104.0      | 122.0 | 118.0 | 4256.4                 | 2168.7 | 3099.6 | 19907.2          | 15730.3 | 17922.0 |
| 215  | 3.0   | BLACK MTNS | 36.0       | 60.0 | 48.0 | 15055.6                | 13561.8 | 14382.8 | 108.0      | 144.0 | 126.0 | 7561.9                 | 5011.3 | 6247.0 | 22617.4          | 18373.1 | 20629.3 |
| 223  | 3.0   | GOLD BUTTE | 40.0       | 60.0 | 40.0 | 14849.4                | 12946.4 | 13989.1 | 96.0       | 132.0 | 114.0 | 8449.8                 | 5823.3 | 7118.6 | 23299.2          | 18769.9 | 21107.7 |
| 212  | 1.0   | LAS VEGAS  | 20.0       | 60.0 | 40.0 | 13561.8                | 8636.4  | 12673.3 | 8310.0     | 164.0 | 143.0 | 29.3                   | 0.2    | 3.0    | 13591.3          | 3673.3  | 8313.1  |
| 211  | 1.0   | THREE LAK  | 20.0       | 60.0 | 40.0 | 13561.8                | 8636.4  | 12673.3 | 8310.0     | 160.0 | 141.0 | 29.3                   | 0.2    | 3.0    | 13591.3          | 3673.3  | 8313.1  |
| 1698 | 1.0   | TIKASOO S  | 8.0        | 42.0 | 25.0 | 15553.3                | 7772.0  | 12371.8 | 100.0      | 120.0 | 110.0 | 216.6                  | 36.0   | 91.9   | 15797.9          | 7807.9  | 12463.8 |
| 161  | 1.0   | INDIAN SPR | 38.0       | 66.0 | 52.0 | 8856.4                 | 2698.1  | 11327.8 | 124.0      | 166.0 | 143.0 | 24.1                   | 0.2    | 2.4    | 8880.5           | 2698.3  | 11329.9 |
| 220  | 1.0   | LOWER MO   | 20.0       | 38.0 | 29.0 | 13561.8                | 8856.4  | 11327.8 | 84.0       | 116.0 | 100.0 | 720.4                  | 32.9   | 21.6   | 14282.3          | 8909.2  | 11544.4 |

## EFFECT INDEX OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

ALTERNATIVE NO. 2  
 BASE A: COYOTE LONG TERM POP 15967.0  
 BASE B: DELTA LONG TERM POP 13679.0

| NO.  | APPL. | NAME       | MILES TO A |      |      | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |       |        | COMBINED EFFECTS |         |         |
|------|-------|------------|------------|------|------|------------------------|---------|---------|------------|-------|-------|------------------------|-------|--------|------------------|---------|---------|
|      |       |            | N          | F    | AVE  | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN   | AVE    | MAX              | MIN     | AVE     |
| 209  | 1.0   | PAHRANAGAT | 22.0       | 66.0 | 44.0 | 13104.7                | 2698.1  | 7243.1  | 151.0      | 189.0 | 170.0 | 1.2                    | 0.0   | 0.1    | 13106.0          | 2698.2  | 7245.2  |
| 210  | 1.0   | COYOTE     | 0.0        | 31.0 | 13.3 | 15967.0                | 10786.3 | 14473.6 | 171.0      | 262.0 | 217.0 | 0.1                    | 0.0   | 0.0    | 15967.0          | 10786.3 | 14473.6 |
| 203  | 2.0   | MEADOW V   | 8.0        | 64.0 | 36.0 | 15863.1                | 10512.3 | 13989.1 | 156.0      | 214.0 | 185.0 | 1141.8                 | 127.8 | 416.2  | 17004.9          | 10640.3 | 14405.4 |
| 206  | 1.0   | KANE SPR   | 16.0       | 48.0 | 32.0 | 14382.8                | 8234.6  | 10512.3 | 172.0      | 200.0 | 186.0 | 0.1                    | 0.0   | 0.0    | 14382.8          | 8234.6  | 10512.3 |
| 221  | 1.0   | TULE DES   | 34.0       | 36.0 | 45.0 | 9961.1                 | 4439.4  | 6986.6  | 162.0      | 186.0 | 174.0 | 0.3                    | 0.0   | 0.1    | 9961.4           | 4439.4  | 6986.7  |
| 222  | 2.0   | VIRGIN R   | 28.0       | 76.0 | 52.0 | 14739.4                | 8856.4  | 14382.8 | 121.0      | 140.0 | 120.0 | 1831.3                 | 98.0  | 301.4  | 16390.7          | 8954.4  | 12618.6 |
| 219  | 1.0   | MUDDY R    | 8.0        | 16.0 | 12.0 | 15553.3                | 14382.8 | 15055.6 | 208.0      | 232.0 | 216.0 | 0.0                    | 0.0   | 0.0    | 15553.3          | 14382.8 | 15055.6 |
| 216  | 2.0   | GARNET     | 16.0       | 36.0 | 26.0 | 15553.3                | 13989.1 | 14902.7 | 226.0      | 244.0 | 235.0 | 74.6                   | 31.5  | 48.8   | 15629.9          | 14020.4 | 14991.6 |
| 217  | 2.0   | HIDDEN V N | 16.0       | 28.0 | 22.0 | 15553.3                | 14739.4 | 15197.4 | 226.0      | 238.0 | 232.0 | 74.6                   | 42.3  | 56.3   | 15629.9          | 14781.4 | 15253.9 |
| 218  | 2.0   | CALIF WASH | 14.0       | 40.0 | 27.0 | 15650.8                | 13561.8 | 14822.4 | 214.0      | 242.0 | 228.0 | 127.8                  | 34.7  | 68.0   | 15778.6          | 13596.6 | 14890.3 |
| 215  | 3.0   | BLACK MTNS | 36.0       | 60.0 | 48.0 | 15055.6                | 13561.8 | 14382.8 | 220.0      | 256.0 | 238.0 | 1323.3                 | 700.3 | 1048.1 | 16578.8          | 14262.1 | 15430.9 |
| 223  | 3.0   | GOLD BUTTE | 40.0       | 60.0 | 40.0 | 14849.4                | 12946.4 | 13989.1 | 206.0      | 242.0 | 224.0 | 1996.4                 | 960.7 | 1403.4 | 16845.8          | 13907.1 | 15394.5 |
| 212  | 1.0   | LAS VEGAS  | 20.0       | 60.0 | 40.0 | 13561.8                | 8636.4  | 12673.3 | 232.0      | 272.0 | 252.0 | 0.0                    | 0.0   | 0.0    | 13561.8          | 8636.4  | 12673.3 |
| 211  | 1.0   | THREE LAK  | 20.0       | 60.0 | 40.0 | 13561.8                | 8636.4  | 12673.3 | 232.0      | 272.0 | 252.0 | 0.0                    | 0.0   | 0.0    | 13561.8          | 8636.4  | 12673.3 |
| 1698 | 1.0   | TIKASOO S  | 8.0        | 42.0 | 25.0 | 15553.3                | 7772.0  | 12371.8 | 204.0      | 238.0 | 216.0 | 0.0                    | 0.0   | 0.0    | 15553.3          | 7772.0  | 12371.8 |
| 161  | 1.0   | INDIAN SPR | 38.0       | 66.0 | 52.0 | 8856.4                 | 2698.1  | 11327.8 | 224.0      | 272.0 | 248.0 | 0.0                    | 0.0   | 0.0    | 8856.4           | 2698.1  | 11327.8 |
| 220  | 1.0   | LOWER MO   | 20.0       | 38.0 | 29.0 | 13561.8                | 8856.4  | 11327.8 | 196.0      | 228.0 | 212.0 | 0.0                    | 0.0   | 0.0    | 13561.8          | 8856.4  | 11327.8 |

## EFFECT INDEX OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

ALTERNATIVE NO. 3  
 BASE A: BERYL LONG TERM POP 16943.0  
 BASE B: ELY LONG TERM POP 14347.0

| NO. | APPL. | NAME       | MILES TO A |       |      | EFFECT INDEX OF BASE A |        |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |       |        | COMBINED EFFECTS |        |         |
|-----|-------|------------|------------|-------|------|------------------------|--------|--------|------------|-------|-------|------------------------|-------|--------|------------------|--------|---------|
|     |       |            | N          | F     | AVE  | MAX                    | MIN    | AVE    | N          | F     | AVE   | MAX                    | MIN   | AVE    | MAX              | MIN    | AVE     |
| 209 | 1.0   | PAHRANAGAT | 74.0       | 100.0 | 87.0 | 1812.6                 | 286.0  | 771.4  | 97.0       | 138.0 | 117.3 | 308.2                  | 6.0   | 31.2   | 2120.8           | 292.0  | 822.6   |
| 210 | 1.0   | COYOTE     | 71.0       | 114.0 | 92.3 | 2164.7                 | 84.2   | 313.6  | 132.0      | 243.0 | 187.3 | 11.7                   | 0.0   | 0.0    | 2176.4           | 84.2   | 313.6   |
| 203 | 2.0   | MEADOW V   | 50.0       | 104.0 | 77.0 | 13128.1                | 5619.2 | 9232.1 | 110.0      | 178.0 | 144.0 | 4173.9                 | 563.8 | 1729.1 | 17302.0          | 4185.0 | 10981.3 |
| 206 | 1.0   | KANE SPR   | 64.0       | 92.0  | 78.0 | 2183.6                 | 533.3  | 1414.2 | 124.0      | 132.0 | 138.0 | 27.0                   | 1.2   | 6.0    | 3210.6           | 536.3  | 1420.3  |
| 221 | 1.0   | TULE DES   | 30.0       | 76.0  | 42.0 | 6107.1                 | 1603.7 | 2353.0 | 134.0      | 158.0 | 145.0 | 0.0                    | 0.0   | 0.0    | 6111.6           | 3673.3 | 1235.   |

## EFFECT INDEX OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP. 16943.0  
 BASE B: COYOTE LONG TERM POP. 12193.0

| NO.  | APPL. | NAME       | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |      |      | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|------------|------------|-------|-------|------------------------|--------|---------|------------|------|------|------------------------|---------|---------|------------------|---------|---------|
|      |       |            | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F    | AVE  | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 209  | 1.0   | PAHRANAGAT | 74.0       | 100.0 | 87.0  | 1812.6                 | 286.0  | 771.4   | 22.0       | 66.0 | 44.0 | 10008.9                | 2060.7  | 5533.3  | 11821.5          | 2346.7  | 4304.9  |
| 210  | 1.0   | COYOTE     | 71.0       | 114.0 | 92.5  | 2164.7                 | 84.2   | 515.6   | 0.0        | 31.0 | 15.3 | 12193.0                | 8238.2  | 11035.9 | 14359.7          | 8232.4  | 11571.5 |
| 203  | 2.0   | MEADOW V   | 50.0       | 104.0 | 77.0  | 13128.1                | 5619.2 | 9232.1  | 8.0        | 64.0 | 36.0 | 12115.6                | 8029.1  | 10684.4 | 25243.7          | 13648.2 | 19936.5 |
| 206  | 1.0   | KANE SPR   | 64.0       | 92.0  | 78.0  | 3183.6                 | 535.3  | 1414.2  | 16.0       | 48.0 | 32.0 | 10985.1                | 4761.8  | 8029.1  | 14168.7          | 3297.1  | 9443.3  |
| 221  | 1.0   | TULE DES   | 50.0       | 76.0  | 63.0  | 6107.1                 | 1603.7 | 3353.0  | 34.0       | 36.0 | 43.0 | 7607.9                 | 3390.7  | 5336.1  | 13713.0          | 4994.3  | 8689.1  |
| 222  | 2.0   | VIRGIN R   | 32.0       | 108.0 | 70.0  | 15262.0                | 5153.4 | 10276.4 | 28.0       | 76.0 | 52.0 | 11257.4                | 6764.2  | 9254.5  | 26519.4          | 11917.5 | 19530.9 |
| 219  | 1.0   | MUDDY R    | 18.0       | 112.0 | 65.0  | 14844.2                | 101.3  | 3020.3  | 8.0        | 16.0 | 12.0 | 11880.6                | 10903.1 | 11498.9 | 26724.8          | 11086.3 | 14319.2 |
| 216  | 2.0   | GARNET     | 116.0      | 134.0 | 125.0 | 4292.2                 | 2711.8 | 3440.0  | 16.0       | 36.0 | 26.0 | 11880.6                | 10684.4 | 11382.2 | 16172.7          | 13296.2 | 14822.1 |
| 217  | 2.0   | HIDDEN V N | 114.0      | 128.0 | 121.0 | 4498.6                 | 3183.6 | 2803.3  | 16.0       | 28.0 | 22.0 | 11880.6                | 11257.4 | 11607.3 | 16379.0          | 14441.0 | 15410.7 |
| 218  | 2.0   | CALIF WASH | 104.0      | 132.0 | 118.0 | 5619.2                 | 2863.1 | 4092.0  | 14.0       | 40.0 | 27.0 | 11953.3                | 10358.0 | 11320.8 | 17572.7          | 13221.1 | 15412.8 |
| 215  | 3.0   | BLACK MTNS | 108.0      | 144.0 | 126.0 | 9982.9                 | 6615.7 | 8247.0  | 36.0       | 60.0 | 48.0 | 11498.9                | 10358.0 | 10985.1 | 21481.8          | 16973.7 | 19232.1 |
| 223  | 3.0   | GOLD BUTTE | 96.0       | 132.0 | 114.0 | 11155.1                | 7687.9 | 9397.7  | 40.0       | 68.0 | 54.0 | 11341.4                | 9888.0  | 10684.4 | 22496.5          | 17575.9 | 20082.1 |
| 212  | 1.0   | LAS VEGAS  | 122.0      | 164.0 | 143.0 | 39.0                   | 0.3    | 4.0     | 20.0       | 60.0 | 40.0 | 10358.0                | 2803.7  | 6346.9  | 10397.0          | 2803.9  | 6350.9  |
| 211  | 1.0   | THREE LAK  | 122.0      | 160.0 | 141.0 | 39.0                   | 0.3    | 5.1     | 20.0       | 60.0 | 40.0 | 10358.0                | 2803.7  | 6346.9  | 10397.0          | 2806.1  | 6352.0  |
| 1698 | 1.0   | TIKASOO S  | 100.0      | 120.0 | 110.0 | 286.0                  | 47.5   | 121.4   | 8.0        | 42.0 | 25.0 | 11880.6                | 5935.9  | 9449.1  | 12166.6          | 5982.4  | 9570.5  |
| 161  | 1.0   | INDIAN SPR | 124.0      | 166.0 | 145.0 | 31.9                   | 0.2    | 3.2     | 38.0       | 66.0 | 52.0 | 6764.2                 | 2060.7  | 4044.5  | 6796.0           | 2061.0  | 4047.7  |
| 220  | 1.0   | LOWER MO   | 84.0       | 116.0 | 100.0 | 951.1                  | 69.8   | 286.0   | 20.0       | 38.0 | 29.0 | 10358.0                | 6764.2  | 8651.7  | 11309.1          | 6833.9  | 8937.7  |

## EFFECT INDEX OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

ALTERNATIVE NO. 5  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO.  | APPL. | NAME       | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |        |        |
|------|-------|------------|------------|-------|-------|------------------------|--------|--------|------------|-------|-------|------------------------|--------|--------|------------------|--------|--------|
|      |       |            | N          | F     | AVE   | MAX                    | MIN    | AVE    | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN    | AVE    |
| 209  | 1.0   | PAHRANAGAT | 108.0      | 138.0 | 123.0 | 147.4                  | 7.2    | 35.8   | 97.0       | 138.0 | 117.5 | 308.2                  | 6.0    | 51.2   | 455.6            | 13.3   | 87.0   |
| 210  | 1.0   | COYOTE     | 123.0      | 180.0 | 151.5 | 39.8                   | 0.0    | 1.5    | 132.0      | 243.0 | 187.5 | 11.7                   | 0.0    | 0.0    | 47.5             | 0.0    | 1.3    |
| 203  | 2.0   | MEADOW V   | 88.0       | 140.0 | 114.0 | 7814.1                 | 2330.6 | 4572.3 | 110.0      | 178.0 | 144.0 | 4173.9                 | 565.8  | 1729.1 | 11988.0          | 2896.4 | 6301.4 |
| 206  | 1.0   | KANE SPR   | 102.0      | 128.0 | 115.0 | 246.5                  | 21.5   | 77.9   | 124.0      | 152.0 | 138.0 | 27.0                   | 1.2    | 6.0    | 273.5            | 22.6   | 84.0   |
| 221  | 1.0   | TULE DES   | 68.0       | 112.0 | 100.0 | 730.0                  | 102.9  | 290.7  | 154.0      | 158.0 | 146.0 | 9.4                    | 0.5    | 2.4    | 739.4            | 102.3  | 293.1  |
| 222  | 2.0   | VIRGIN R   | 68.0       | 142.0 | 105.0 | 10743.4                | 2200.3 | 3590.8 | 120.0      | 192.0 | 156.0 | 3300.8                 | 333.5  | 1197.5 | 14044.3          | 2533.8 | 6786.4 |
| 219  | 1.0   | MUDDY R    | 136.0      | 150.0 | 143.0 | 9.1                    | 1.8    | 4.1    | 166.0      | 178.0 | 172.0 | 0.2                    | 0.0    | 0.1    | 9.3              | 1.8    | 4.2    |
| 216  | 2.0   | GARNET     | 132.0      | 170.0 | 161.0 | 1630.0                 | 902.3  | 1222.8 | 182.0      | 202.0 | 192.0 | 488.5                  | 333.5  | 333.5  | 2119.5           | 1125.4 | 1556.3 |
| 217  | 2.0   | HIDDEN V N | 132.0      | 164.0 | 158.0 | 1630.0                 | 1107.0 | 1348.2 | 182.0      | 192.0 | 187.0 | 488.5                  | 333.5  | 404.7  | 2118.5           | 1440.5 | 1752.9 |
| 218  | 2.0   | CALIF WASH | 140.0      | 166.0 | 153.0 | 2330.6                 | 1034.9 | 1580.0 | 176.0      | 204.0 | 190.0 | 608.2                  | 203.4  | 360.5  | 2938.8           | 1240.2 | 1940.4 |
| 215  | 3.0   | BLACK MTNS | 142.0      | 180.0 | 161.0 | 6901.0                 | 3962.0 | 5315.2 | 190.0      | 210.0 | 200.0 | 2790.9                 | 1941.7 | 2338.4 | 9691.8           | 5903.6 | 7653.7 |
| 223  | 3.0   | GOLD BUTTE | 128.0      | 164.0 | 146.0 | 8191.5                 | 5085.3 | 6549.7 | 186.0      | 218.0 | 202.0 | 2987.9                 | 1662.4 | 2254.7 | 11179.3          | 6747.7 | 8804.4 |
| 212  | 1.0   | LAS VEGAS  | 160.0      | 200.0 | 180.0 | 0.5                    | 0.0    | 0.0    | 180.0      | 216.0 | 198.0 | 0.0                    | 0.0    | 0.0    | 0.5              | 0.0    | 0.0    |
| 211  | 1.0   | THREE LAK  | 160.0      | 198.0 | 179.0 | 0.5                    | 0.0    | 0.0    | 174.0      | 206.0 | 190.0 | 0.1                    | 0.0    | 0.0    | 0.6              | 0.0    | 0.0    |
| 1698 | 1.0   | TIKASOO S  | 138.0      | 158.0 | 148.0 | 7.2                    | 0.6    | 2.3    | 136.0      | 176.0 | 156.0 | 7.6                    | 0.0    | 0.7    | 14.8             | 0.7    | 3.0    |
| 161  | 1.0   | INDIAN SPR | 160.0      | 204.0 | 182.0 | 0.5                    | 0.0    | 0.0    | 154.0      | 206.0 | 180.0 | 0.9                    | 0.0    | 0.0    | 1.4              | 0.0    | 0.0    |
| 220  | 1.0   | LOWER MO   | 122.0      | 152.0 | 137.0 | 39.6                   | 1.4    | 8.1    | 166.0      | 194.0 | 180.0 | 0.2                    | 0.0    | 0.0    | 39.8             | 1.4    | 8.1    |

## EFFECT INDEX OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

ALTERNATIVE NO. 6  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: COYOTE LONG TERM POP. 12193.0

| NO.  | APPL. | NAME       | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |        | MILES TO B |      |      | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|------------|------------|-------|-------|------------------------|--------|--------|------------|------|------|------------------------|---------|---------|------------------|---------|---------|
|      |       |            | N          | F     | AVE   | MAX                    | MIN    | AVE    | N          | F    | AVE  | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 209  | 1.0   | PAHRANAGAT | 108.0      | 138.0 | 123.0 | 147.4                  | 7.2    | 35.8   | 22.0       | 66.0 | 44.0 | 10008.9                | 2060.7  | 5533.3  | 10156.3          | 2068.0  | 5569.3  |
| 210  | 1.0   | COYOTE     | 123.0      | 180.0 | 151.5 | 39.8                   | 0.0    | 1.5    | 0.0        | 31.0 | 15.3 | 12193.0                | 8238.2  | 11035.9 | 12230.8          | 8238.2  | 11037.4 |
| 203  | 2.0   | MEADOW V   | 88.0       | 140.0 | 114.0 | 7814.1                 | 2330.6 | 4572.3 | 8.0        | 64.0 | 36.0 | 12115.6                | 8029.1  | 10684.4 | 19929.7          | 10359.7 | 15356.6 |
| 206  | 1.0   | KANE SPR   | 102.0      | 128.0 | 115.0 | 246.5                  | 21.5   | 77.9   | 16.0       | 48.0 | 32.0 | 10985.1                | 4761.8  | 8029.1  | 11231.4          | 4783.2  | 8107.0  |
| 221  | 1.0   | TULE DES   | 68.0       | 112.0 | 100.0 | 730.0                  | 102.9  | 290.7  | 34.0       | 36.0 | 43.0 | 7607.9                 | 3390.7  | 5336.1  | 8337.9           | 3493.6  | 5626.8  |
| 222  | 2.0   | VIRGIN R   | 68.0       | 142.0 | 105.0 | 10743.4                | 2200.3 | 3590.8 | 28.0       | 76.0 | 52.0 | 11257.4                | 6764.2  | 9254.5  | 22000.8          | 8964.4  | 14843.3 |
| 219  | 1.0   | MUDDY R    | 136.0      | 150.0 | 143.0 | 9.1                    | 1.8    | 4.1    | 8.0        | 16.0 | 12.0 | 11880.6                | 10985.1 | 11498.9 | 11889.9          | 10986.8 | 11503.0 |
| 216  | 2.0   | GARNET     | 132.0      | 170.0 | 161.0 | 1630.0                 | 902.3  | 1222.8 | 16.0       | 36.0 | 26.0 | 11880.6                | 10684.4 | 11382.2 | 13510.6          | 11586.6 | 12604.9 |
| 217  | 2.0   | HIDDEN V N | 132.0      | 164.0 | 158.0 | 1630.0                 | 1107.0 | 1348.2 | 16.0       | 28.0 | 22.0 | 11880.6                | 11257.4 | 11607.3 | 13510.6          | 12364.4 | 12955.6 |
| 218  | 2.0   | CALIF WASH | 140.0      | 166.0 | 153.0 | 2330.6                 | 1034.9 | 1580.0 | 14.0       | 40.0 | 27.0 | 11953.3                | 10358.0 | 11320.8 | 14284.1          | 11392.9 | 12900.8 |
| 215  | 3.0   | BLACK MTNS | 142.0      | 180.0 | 161.0 | 6901.0                 | 3962.0 | 5315.2 | 36.0       | 60.0 | 48.0 | 11498.9                | 10358.0 | 10985.1 | 18399.9          | 14320.9 | 16300.3 |
| 223  | 3.0   | GOLD BUTTE | 128.0      | 164.0 | 146.0 | 8191.5                 | 5085.3 | 6549.7 | 40.0       | 68.0 | 54.0 | 11341.4                | 9888.0  | 10684.4 | 19532.9          | 14973.3 | 17234.1 |
| 212  | 1.0   | LAS VEGAS  | 160.0      | 200.0 | 180.0 | 0.5                    | 0.0    | 0.0    | 20.0       | 60.0 | 40.0 | 10358.0                | 2803.7  | 6346.9  | 10358.3          | 2803.7  | 6346.9  |
| 211  | 1.0   | THREE LAK  | 160.0      | 198.0 | 179.0 | 0.5                    | 0.0    | 0.0    | 20.0       | 60.0 | 40.0 | 10358.0                | 2803.7  | 6346.9  | 10358.3          | 2803.7  | 6346.9  |
| 1698 | 1.0   | TIKASOO S  | 138.0      | 158.0 | 148.0 | 7.2                    | 0.6    | 2.3    | 8.0        | 42.0 | 25.0 | 11880.6                | 5935.9  | 9449.1  | 11887.8          | 5926.6  | 9451.4  |
| 161  | 1.0   | INDIAN SPR | 160.0      | 204.0 | 182.0 | 0.5                    | 0.0    | 0.0    | 38.0       | 66.0 | 52.0 | 6764.2                 | 2060.7  | 4044.5  | 6764.7           | 2060.7  | 4044.5  |
| 220  | 1.0   | LOWER MO   | 122.0      | 152.0 | 137.0 | 39.6                   | 1.4    | 8.1    | 20.0       | 38.0 | 29.0 | 10358.0                | 6764.2  | 8651.7  | 10397.6          | 6763.5  | 8639.9  |

COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON DESERT TORTOISE HABITAT

| NO   | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |         |        |
|------|---------------|--------|-------------------------------------|---------|---------|---------|---------|--------|
|      |               |        | 0                                   | 1       | 2       | 3       | 4       | 5      |
| 209  | PANRANAGAT    | 1.0    | 7272.3                              | 7829.4  | 7243.2  | 822.4   | 4304.9  | 87.0   |
| 210  | COYOTE        | 1.0    | 14476.7                             | 14866.1 | 14473.6 | 313.6   | 11371.3 | 1.9    |
| 203  | MEADOW V      | 2.0    | 17439.3                             | 20997.4 | 14403.4 | 10981.3 | 19326.3 | 4301.4 |
| 205  | KANE SPR      | 1.0    | 10371.7                             | 11382.8 | 10312.3 | 1420.3  | 9443.3  | 84.0   |
| 221  | TULE DES      | 1.0    | 7207.2                              | 9326.4  | 4986.7  | 3333.4  | 8487.1  | 293.1  |
| 223  | VIRGIN R      | 2.0    | 16360.3                             | 19901.2 | 12618.4 | 11474.0 | 19330.9 | 4788.4 |
| 219  | MUDDY R       | 1.0    | 13038.7                             | 17343.4 | 13033.6 | 3020.4  | 14319.2 | 4.2    |
| 216  | GARNET        | 2.0    | 13830.8                             | 17308.3 | 14931.6 | 3772.9  | 14822.1 | 1336.3 |
| 217  | HIDDEN V N    | 2.0    | 16220.9                             | 18078.3 | 13233.9 | 4208.0  | 13410.7 | 1732.9 |
| 218  | CALIF MASH    | 2.0    | 16021.6                             | 17922.0 | 14890.3 | 4432.4  | 13412.8 | 1940.6 |
| 219  | BLACK HTNS    | 3.0    | 18417.1                             | 20629.8 | 13430.9 | 10383.3 | 19232.1 | 7633.7 |
| 223  | GOLD BUTTE    | 3.0    | 18960.4                             | 21107.7 | 13394.3 | 11632.4 | 20082.1 | 8804.4 |
| 212  | LAS VEGAS     | 1.0    | 8310.1                              | 8312.1  | 8310.0  | 4.0     | 6350.9  | 0.0    |
| 211  | THREE LAK     | 1.0    | 8310.1                              | 8313.9  | 8310.0  | 5.1     | 6358.0  | 0.0    |
| 1898 | TIRASOO S     | 1.0    | 12373.3                             | 12463.8 | 12371.8 | 122.1   | 9370.3  | 3.0    |
| 181  | INDIAN SPR    | 1.0    | 3293.3                              | 3297.9  | 3293.3  | 2.2     | 4047.7  | 0.0    |
| 220  | LOWER MD      | 1.0    | 11333.9                             | 11344.4 | 11327.8 | 286.0   | 8937.7  | 8.1    |

DESERT TORTOISE HABITAT RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0      |         | ALT 1      |         | ALT 2      |         | ALT 3      |         | ALT 4      |         | ALT 5    |       | ALT 6      |         |
|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|----------|-------|------------|---------|
| RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE | INDEX | RESOURCE   | INDEX   |
| GOLD BUTTE | 18960.4 | GOLD BUTTE | 21107.7 | BLACK HTNS | 18430.9 | GOLD BUTTE | 11632.4 | GOLD BUTTE | 20082.1 |          |       | GOLD BUTTE | 17234.1 |
| BLACK HTNS | 18417.1 | MEADOW V   | 20997.4 | GOLD BUTTE | 13394.3 | VIRGIN R   | 11474.0 | MEADOW V   | 19936.3 |          |       | BLACK HTNS | 16300.3 |
| MEADOW V   | 17439.3 | BLACK HTNS | 20629.8 | HIDDEN V N | 13233.9 | MEADOW V   | 10981.3 | VIRGIN R   | 19330.9 |          |       | MEADOW V   | 15236.6 |
| VIRGIN R   | 16360.3 | VIRGIN R   | 19901.2 | MUDDY R    | 13033.6 | BLACK HTNS | 10383.3 | BLACK HTNS | 19232.1 |          |       | VIRGIN R   | 14843.3 |
| HIDDEN V N | 16220.9 | HIDDEN V N | 18078.3 | GARNET     | 14931.6 |            |         | CALIF MASH | 13412.8 |          |       | HIDDEN V N | 12933.6 |
| CALIF MASH | 16021.6 | CALIF MASH | 17922.0 | CALIF MASH | 14890.3 |            |         | HIDDEN V N | 13410.7 |          |       | CALIF MASH | 12900.8 |
| GARNET     | 13830.8 | GARNET     | 17308.3 | COYOTE     | 14473.6 |            |         | GARNET     | 14822.1 |          |       | GARNET     | 12604.9 |
| MUDDY R    | 13038.7 | MUDDY R    | 17343.4 | MEADOW V   | 14403.4 |            |         | MUDDY R    | 14319.2 |          |       | MUDDY R    | 11903.0 |
| COYOTE     | 14476.7 | COYOTE     | 14866.1 | VIRGIN R   | 12618.4 |            |         | COYOTE     | 11371.3 |          |       | COYOTE     | 11037.4 |
| TIRASOO S  | 12373.3 | TIRASOO S  | 12463.8 | TIRASOO S  | 12371.8 |            |         |            |         |          |       |            |         |
| LOWER MD   | 11333.9 | KANE SPR   | 11344.4 | LOWER MD   | 11327.8 |            |         |            |         |          |       |            |         |
| KANE SPR   | 10371.7 | LOWER MD   | 11344.4 | KANE SPR   | 10312.3 |            |         |            |         |          |       |            |         |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for desert tortoise habitat.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 5        | Milford Ely    | 2,075                                   | 3,143                         | 762                       | 1                               |
| 2            | 3        | Beryl Ely      | 3,922                                   | 4,428                         | 1,074                     | 2                               |
| 3            | 6        | Milford Coyote | 10,518                                  | 4,127                         | 1,001                     | 3                               |
| 4            | 2        | Coyote Delta   | 11,932                                  | 3,493                         | 847                       | 4                               |
| 5            | 4        | Beryl Coyote   | 12,366                                  | 5,392                         | 1,308                     | 6                               |
| 6            | 0        | Coyote Milford | 12,911                                  | 4,392                         | 1,065                     | 5                               |
| 7            | 1        | Coyote Beryl   | 14,308                                  | 5,277                         | 1,280                     | 7                               |

3954

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

## EFFECT INDEX OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

ALTERNATIVE NO. 0  
 BASE A: COYOTE LONG TERM POP 13967.0  
 BASE B: MILFORD LONG TERM POP 13071.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|--------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0   | SHAKE         | 132.0      | 225.0 | 178.3 | 7243.1                 | 1607.4 | 3764.2  | 43.0       | 112.0 | 77.3  | 12019.6                | 7400.2  | 9934.3  | 19284.7          | 9007.6  | 13718.4 |
| 5    | 1.0   | PINE          | 108.0      | 132.0 | 130.0 | 136.7                  | 1.3    | 16.1    | 25.0       | 31.0  | 38.0  | 10127.9                | 4321.1  | 7230.0  | 10284.6          | 4522.4  | 7266.2  |
| 6    | 2.0   | WHITE         | 138.0      | 214.0 | 186.0 | 1230.0                 | 149.2  | 467.8   | 40.0       | 103.0 | 71.3  | 11102.1                | 4427.5  | 7758.1  | 12352.1          | 4574.7  | 8225.9  |
| 7    | 1.0   | FISH SPR      | 198.0      | 243.0 | 221.3 | 0.0                    | 0.0    | 0.0     | 82.0       | 129.0 | 103.3 | 840.2                  | 14.7    | 139.1   | 840.2            | 14.7    | 139.1   |
| 8    | 1.0   | DUGWAY        | 220.0      | 232.0 | 226.0 | 0.0                    | 0.0    | 0.0     | 98.0       | 132.0 | 115.0 | 239.3                  | 10.7    | 39.2    | 239.3            | 10.7    | 39.2    |
| 9    | 2.0   | GOVT CRK      | 231.0      | 263.0 | 247.0 | 68.9                   | 13.7   | 31.6    | 103.0      | 142.0 | 122.0 | 4427.3                 | 1622.2  | 2791.6  | 4476.3           | 1635.9  | 2822.2  |
| 46   | 3.0   | SEV DES       | 171.0      | 263.0 | 217.0 | 4239.3                 | 493.2  | 1887.0  | 35.0       | 129.0 | 82.0  | 12364.6                | 6145.4  | 9635.5  | 16604.0          | 6858.6  | 11522.4 |
| 46A  | 1.0   | SEV LAKE      | 154.0      | 193.0 | 174.3 | 1.0                    | 0.0    | 0.1     | 23.0       | 77.0  | 50.0  | 10532.6                | 1162.3  | 4711.4  | 10533.0          | 1162.3  | 4711.3  |
| 50   | 1.0   | MILFORD       | 117.0      | 139.0 | 138.0 | 39.8                   | 0.3    | 6.7     | 0.0        | 20.0  | 10.0  | 13071.0                | 11102.1 | 12348.2 | 13130.8          | 11102.6 | 12355.0 |
| 53   | 3.0   | SEVY-ENT      | 77.0       | 119.0 | 98.0  | 12202.4                | 8400.6 | 10329.1 | 23.0       | 80.0  | 51.3  | 12761.1                | 9778.1  | 11589.7 | 24963.6          | 18178.7 | 21918.8 |
| 139  | 1.0   | WAM WAM       | 123.0      | 163.0 | 143.0 | 33.2                   | 0.3    | 3.8     | 0.0        | 71.0  | 29.0  | 12645.9                | 4905.7  | 9273.2  | 12679.1          | 4906.0  | 9277.0  |
| 139  | 1.0   | KOBEN         | 189.0      | 226.0 | 207.3 | 0.0                    | 0.0    | 0.0     | 178.0      | 213.0 | 194.3 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 140  | 2.0   | MONITOR       | 131.0      | 203.0 | 177.0 | 1598.8                 | 238.2  | 632.9   | 184.0      | 209.0 | 197.3 | 383.0                  | 151.3   | 244.2   | 1941.7           | 389.8   | 897.1   |
| 141  | 1.0   | RALSTON       | 123.0      | 168.0 | 145.3 | 33.2                   | 0.2    | 2.8     | 194.0      | 222.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 33.2             | 0.2     | 2.8     |
| 149  | 1.0   | STONE CBN     | 112.0      | 133.0 | 133.3 | 93.4                   | 0.9    | 11.1    | 177.0      | 206.0 | 191.3 | 0.0                    | 0.0     | 0.0     | 93.5             | 0.9     | 11.1    |
| 151  | 1.0   | ANTELOPE      | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0     | 172.0      | 194.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 0.2              | 0.0     | 0.0     |
| 155  | 1.0   | LITTLE SHO    | 118.0      | 188.0 | 133.0 | 34.3                   | 0.0    | 1.1     | 148.0      | 175.0 | 161.3 | 1.7                    | 0.0     | 0.3     | 36.0             | 0.1     | 1.4     |
| 156  | 2.0   | HOT CRA       | 103.0      | 163.0 | 134.0 | 3183.7                 | 1061.2 | 2535.6  | 140.0      | 186.0 | 173.0 | 939.0                  | 382.0   | 616.6   | 6142.7           | 1444.2  | 3172.1  |
| 170  | 2.0   | PENVOY        | 63.0       | 93.0  | 80.0  | 10373.0                | 6357.3 | 8310.0  | 134.0      | 168.0 | 151.0 | 2092.1                 | 733.7   | 1276.0  | 12467.1          | 7091.0  | 9586.1  |
| 173  | 1.0   | RAILROAD      | 83.0       | 171.0 | 127.0 | 959.3                  | 0.1    | 22.1    | 118.0      | 178.0 | 148.0 | 44.3                   | 0.0     | 1.7     | 1004.0           | 0.1     | 23.8    |
| 179  | 2.0   | STEPDOR       | 132.0      | 243.0 | 187.3 | 2698.1                 | 38.6   | 441.8   | 92.0       | 171.0 | 131.3 | 5510.9                 | 661.4   | 2238.7  | 9209.0           | 700.0   | 2680.3  |
| 183  | 2.0   | LAKE          | 100.0      | 138.0 | 119.0 | 3733.3                 | 2287.0 | 3764.2  | 63.0       | 92.0  | 77.3  | 8718.1                 | 3510.9  | 7081.7  | 14473.3          | 7797.9  | 10845.9 |
| 184  | 2.0   | SPRING        | 112.0      | 218.0 | 165.0 | 4429.4                 | 125.1  | 992.5   | 62.0       | 142.0 | 102.0 | 8830.0                 | 1670.0  | 4521.1  | 13269.4          | 1795.1  | 3553.6  |
| 196  | 2.0   | HARLIN        | 91.0       | 145.0 | 118.0 | 4858.7                 | 1848.3 | 3854.3  | 37.0       | 73.0  | 54.0  | 11264.9                | 7362.6  | 9481.3  | 18225.6          | 9231.1  | 13247.8 |
| 202  | 2.0   | PATTERSON     | 73.0       | 103.0 | 89.0  | 8993.9                 | 3408.3 | 7113.4  | 42.0       | 83.0  | 73.3  | 8830.0                 | 6253.6  | 7531.9  | 17823.8          | 11662.1 | 14647.3 |
| 1378 | 2.0   | BIG SHONY     | 176.0      | 232.0 | 204.0 | 476.9                  | 63.8   | 228.3   | 212.0      | 238.0 | 225.0 | 133.2                  | 40.4    | 74.6    | 810.1            | 109.1   | 303.2   |
| 150  | 1.0   | LIT FISH L    | 134.0      | 182.0 | 168.0 | 1.0                    | 0.0    | 0.2     | 180.0      | 194.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 1.0              | 0.0     | 0.2     |
| 53   | 1.0   | PINE(N)       | 224.0      | 278.0 | 251.0 | 0.0                    | 0.0    | 0.0     | 200.0      | 234.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 54   | 1.0   | CRESCENT      | 230.0      | 280.0 | 265.0 | 0.0                    | 0.0    | 0.0     | 228.0      | 234.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 174  | 3.0   | RUBY          | 224.0      | 288.0 | 256.0 | 1640.4                 | 371.2  | 817.4   | 176.0      | 216.0 | 196.0 | 3207.8                 | 1575.4  | 2289.1  | 4848.3           | 1946.3  | 3106.3  |
| 186  | 1.0   | ANTELOPE      | 234.0      | 262.0 | 248.0 | 0.0                    | 0.0    | 0.0     | 142.0      | 172.0 | 157.0 | 3.3                    | 0.1     | 0.6     | 3.5              | 0.1     | 0.6     |
| 187  | 1.0   | GOBHUTE       | 242.0      | 288.0 | 265.0 | 0.0                    | 0.0    | 0.0     | 162.0      | 204.0 | 183.0 | 0.3                    | 0.0     | 0.0     | 0.3              | 0.0     | 0.0     |
| 3    | 2.0   | DEEP CRK      | 210.0      | 244.0 | 227.0 | 177.4                  | 36.7   | 83.1    | 132.0      | 164.0 | 148.0 | 3166.9                 | 1315.8  | 2092.1  | 3334.2           | 1322.6  | 2175.2  |
| 49   | 2.0   | PAROMAN       | 130.0      | 168.0 | 149.0 | 2846.3                 | 896.3  | 1687.2  | 48.0       | 72.0  | 37.0  | 12324.9                | 10727.9 | 11816.6 | 15171.2          | 11624.2 | 13273.8 |
| 51   | 1.0   | CEDAR CITY    | 106.0      | 150.0 | 128.0 | 162.7                  | 1.6    | 19.9    | 16.0       | 30.0  | 32.0  | 11774.1                | 4711.4  | 7316.9  | 11936.9          | 4713.1  | 8400.4  |
| 52   | 1.0   | LUND DIST     | 104.0      | 140.0 | 122.0 | 193.2                  | 3.4    | 36.7    | 12.0       | 48.0  | 30.0  | 12224.9                | 5103.8  | 9032.6  | 12318.1          | 5109.2  | 7089.3  |
| 185  | 1.0   | TIPPETT       | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0     | 130.0      | 144.0 | 132.0 | 36.6                   | 2.8     | 10.7    | 36.6             | 2.8     | 10.7    |

## EFFECT INDEX OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

ALTERNATIVE NO. 1  
 BASE A: COYOTE LONG TERM POP 13967.0  
 BASE B: SEVYL LONG TERM POP 12834.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|--------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0   | SHAKE         | 132.0      | 225.0 | 178.3 | 7243.1                 | 1607.4 | 3764.2  | 31.0       | 137.0 | 94.0  | 11406.0                | 3478.9  | 8596.6  | 18651.1          | 7086.1  | 12360.8 |
| 5    | 1.0   | PINE          | 108.0      | 132.0 | 130.0 | 136.7                  | 1.3    | 16.1    | 18.0       | 62.0  | 40.0  | 11244.2                | 2672.8  | 6679.3  | 11380.9          | 2674.1  | 6693.6  |
| 6    | 2.0   | WHITE         | 138.0      | 214.0 | 186.0 | 1230.0                 | 149.2  | 467.8   | 68.0       | 126.0 | 97.0  | 8006.6                 | 2539.8  | 4913.3  | 9236.6           | 2689.0  | 3381.4  |
| 7    | 1.0   | FISH SPR      | 198.0      | 243.0 | 221.3 | 0.0                    | 0.0    | 0.0     | 108.0      | 154.0 | 131.0 | 109.8                  | 0.8     | 11.7    | 109.8            | 0.8     | 11.7    |
| 8    | 1.0   | DUGWAY        | 220.0      | 232.0 | 226.0 | 0.0                    | 0.0    | 0.0     | 126.0      | 162.0 | 144.0 | 19.7                   | 0.3     | 2.7     | 19.7             | 0.3     | 2.7     |
| 9    | 2.0   | GOVT CRK      | 231.0      | 263.0 | 247.0 | 68.9                   | 13.7   | 31.6    | 129.0      | 174.0 | 154.3 | 1998.3                 | 384.3   | 1123.4  | 2067.3           | 398.1   | 1135.0  |
| 46   | 3.0   | SEV DES       | 171.0      | 263.0 | 217.0 | 4239.3                 | 493.2  | 1887.0  | 72.0       | 166.0 | 119.0 | 10143.2                | 3678.1  | 6732.2  | 14084.3          | 4371.3  | 8629.2  |
| 46A  | 1.0   | SEV LAKE      | 154.0      | 193.0 | 174.3 | 1.0                    | 0.0    | 0.1     | 34.0       | 103.0 | 79.3  | 2903.6                 | 142.6   | 972.8   | 3904.6           | 142.6   | 972.8   |
| 50   | 1.0   | MILFORD       | 117.0      | 139.0 | 138.0 | 39.8                   | 0.3    | 6.7     | 28.0       | 71.0  | 49.3  | 9219.4                 | 1639.8  | 4720.9  | 9379.2           | 1640.3  | 4727.6  |
| 53   | 3.0   | SEVRY-ENT     | 77.0       | 119.0 | 98.0  | 12202.4                | 8400.6 | 10329.1 | 0.0        | 20.0  | 10.0  | 12834.0                | 12603.3 | 12773.9 | 25036.4          | 21003.9 | 23103.1 |
| 139  | 1.0   | WAM WAM       | 123.0      | 163.0 | 143.0 | 33.2                   | 0.3    | 3.8     | 26.0       | 71.0  | 48.3  | 9739.4                 | 1639.8  | 4913.3  | 9772.6           | 1640.1  | 4917.3  |
| 139  | 1.0   | KOBEN         | 189.0      | 226.0 | 207.3 | 0.0                    | 0.0    | 0.0     | 166.0      | 212.0 | 190.3 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 140  | 2.0   | MONITOR       | 131.0      | 203.0 | 177.0 | 1598.8                 | 238.2  | 632.9   | 184.0      | 195.0 | 180.3 | 771.3                  | 265.0   | 461.9   | 2330.0           | 303.2   | 1114.8  |
| 141  | 1.0   | RALSTON       | 123.0      | 168.0 | 145.3 | 33.2                   | 0.2    | 2.8     | 171.0      | 194.0 | 182.3 | 0.1                    | 0.0     | 0.0     | 33.3             | 0.2     | 2.8     |
| 149  | 1.0   | STONE CEN     | 112.0      | 139.0 | 133.3 | 93.4                   | 0.9    | 11.1    | 149.0      | 174.0 | 161.3 | 1.3                    | 0.1     | 0.3     | 96.9             | 0.9     | 11.4    |
| 151  | 1.0   | ANTELOPE      | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0     | 158.0      | 182.0 | 170.0 | 0.3                    | 0.0     | 0.1     | 0.6              | 0.0     | 0.1     |
| 155  | 1.0   | LITTLE SHO    | 118.0      | 188.0 | 133.0 | 34.3                   | 0.0    | 1.1     | 135.0      | 165.0 | 150.0 | 7.3                    | 0.2     | 1.3     | 61.9             | 0.2     | 2.4     |
| 156  | 2.0   | HOT CRA       | 103.0      | 163.0 | 134.0 | 3183.7                 | 1061.2 | 2535.6  | 137.0      | 137.0 | 147.0 | 1890.6                 | 1037.6  | 1415.0  | 7074.3           | 2098.8  | 3970.3  |
| 170  | 2.0   | PENVOY        | 63.0       | 93.0  | 80.0  | 10373.0                | 6357.3 | 8310.0  | 102.0      | 132.0 | 117.0 | 4429.2                 | 2168.7  | 3174.9  | 14814.2          | 8526.0  | 11484.9 |
| 173  | 1.0   | RAILROAD      | 83.0       | 171.0 | 127.0 | 959.3                  | 0.1    | 22.1    | 98.0       | 149.0 | 123.3 | 234.6                  | 1.3     | 25.4    | 1214.2           | 1.6     | 47.5    |
| 179  | 2.0   | STEPDOR       | 132.0      | 243.0 | 187.3 | 2698.1                 | 38.6   | 441.8   | 129.0      | 182.0 | 135.3 | 2249.1                 | 1.3     | 437.0   | 1088.4           | 7047.3  | 473.6   |
| 183  | 2.0   | LAKE          | 100.0      | 138.0 | 119.0 | 3733.3                 | 2287.0 | 3764.2  | 43.0       | 83.0  | 64.0  | 10438.1                | 4234.2  | 8449.8  | 16193.4          | 8641.4  | 12213.9 |
| 184  | 2.0   | SPRING        | 112.0      | 218.0 | 165.0 | 4429.4                 | 125.1  | 992.5   | 69.0       | 131.0 | 100.0 | 10043.2                | 1232.9  | 4626.0  | 14484.7          | 1378.0  | 3618.8  |
| 196  | 2.0   | HARLIN        | 91.0       | 145.0 | 118.0 | 4858.7                 | 1848.3 | 3854.3  | 11.0       | 73.0  | 43.0  | 12676.3                | 7229.1  | 10627.3 | 19333.3          | 9097.6  | 14483.6 |
| 202  | 2.0   | PATTERSON     | 73.0       | 103.0 | 89.0  | 8993.9                 | 3408.3 | 7113.4  | 33.0       | 60.0  | 47.3  | 11226.0                | 8888.6  | 10194.7 | 20319.8          | 14296.9 | 17310.1 |
| 1378 | 2.0   | BIG SHONY     | 176.0      | 232.0 | 204.0 | 476.9                  | 63.8   | 228.3   | 192.0      | 222.0 | 207.0 | 298.3                  | 84.0    | 162.0   | 975.2            | 149.8   | 390.3   |
| 150  | 1.0   | LIT FISH L    | 134.0      | 182.0 | 168.0 | 1.0                    | 0.0    | 0.2     | 160.0      | 176.0 | 168.0 | 0.4                    | 0.0     | 0.1     | 1.4              | 0.1     | 0.3     |
| 53   | 1.0   | THE PIN       | 224.0      | 278.0 | 251.0 | 0.0                    | 0.0    | 0.0     | 196.0      | 228.0 | 217.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 56   | 1.0   | ANTICENTRO    | 224.0      | 280.0 | 252.0 | 0.0                    | 0.0    | 0.0     | 196.0      | 228.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 176  | 2.0   | RUBY          | 234.0      | 288.0 | 256.0 | 1640.4                 | 371.8  | 817.4   | 176.0      | 228.0 | 202.0 | 3149.6                 | 1214.8  | 2016.9  | 4790.1           | 1383.9  | 2834.3  |
| 184  | 1.0   | ANTELOPE      | 234.0      | 262.0 | 248.0 | 0.0                    | 0.0    | 0.0     | 182.0      | 188.0 | 170.0 | 1.0                    | 0.0     | 0.1     | 1.0              | 0.0     | 0.1     |
| 187  | 1.0   | GOBHUTE       | 242.0      | 288.0 | 265.0 | 0.0                    | 0.0    | 0.0     | 174.0      | 208.0 | 191.0 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 3    | 2.0   | DEEP CRA      | 210.0      | 244.0 | 227.0 | 177.4                  | 36.7   | 83.1    | 128.0      | 164.0 | 148.0 | 3168.7                 | 825.0   | 1373.0  | 2344.1           | 861.7   | 1456.1  |
| 49   | 2.0   | PARHMAN       | 130.0      | 166.0 | 149.0 | 264.3                  | 896.3  | 1687.2  | 48.0       | 72.0  | 37.0  | 10719.9                | 7561.9  | 9212.4  | 13566.2          | 8438.2  | 10869.7 |
| 51   | 1.0   | CEBAR CITY    | 106.0      | 190.0 | 128.0 | 106.7                  | 1.6    | 19.9    | 28.0       | 32.0  | 40.0  | 9319.4                 | 4836.4  | 6679.3  | 9482.1           | 4238.0  | 6699.4  |
| 52   | 1.0   | LUND DIST     | 104.0      | 140.0 | 122.0 | 193.2                  | 3.4    | 26.7    | 8.0        | 40.0  | 24.0  | 12503.1                | 6679.3  | 10143.2 | 12696.3          | 6684.8  | 10181.9 |
| 185  | 1.0   | TIPPETT       | 204.0      | 232.0 | 216.6 | 6.0                    | 0.0    | 0.0     | 132.0      | 138.0 | 143.0 | 10.3                   | 0.3     | 2.4     | 10.3             | 0.3     | 2.4     |

## EFFECT INDEX OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

ALTERNATIVE NO. 2  
 BASE A: COVOTE LONG TERM POP 15767.0  
 BASE B: DELTA LONG TERM POP 12679.0

| NO | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|----|------|---------------|------------|-------|-------|------------------------|--------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|    |      |               | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1  | 3.0  | SNAKE         | 132.0      | 225.0 | 178.3 | 7245.1                 | 1607.4 | 3764.2  | 35.0       | 77.0  | 56.0  | 12939.8                | 10453.9 | 11865.4 | 20184.8          | 12061.3 | 15629.7 |
| 2  | 1.0  | PINE          | 108.0      | 152.0 | 130.0 | 136.7                  | 1.3    | 16.1    | 48.0       | 91.0  | 69.3  | 5341.2                 | 465.7   | 1904.7  | 3477.9           | 467.0   | 1920.8  |
| 3  | 2.0  | WHITE         | 158.0      | 214.0 | 186.0 | 1250.0                 | 149.2  | 467.8   | 22.0       | 48.0  | 33.0  | 13019.8                | 10813.1 | 12071.7 | 14269.9          | 10962.3 | 12539.3 |
| 4  | 1.0  | FISH SPR      | 178.0      | 243.0 | 221.3 | 0.0                    | 0.0    | 0.0     | 22.0       | 48.0  | 42.3  | 11224.9                | 2707.1  | 6344.4  | 11224.9          | 2707.1  | 6344.4  |
| 5  | 1.0  | DUGHAY        | 220.0      | 252.0 | 236.0 | 0.0                    | 0.0    | 0.0     | 32.0       | 66.0  | 49.0  | 9006.1                 | 2311.3  | 5123.9  | 9006.1           | 2311.3  | 5123.9  |
| 6  | 2.0  | GOVT CRK      | 231.0      | 263.0 | 247.0 | 58.9                   | 13.7   | 31.5    | 35.0       | 77.0  | 56.0  | 12071.7                | 7467.8  | 9933.0  | 12140.6          | 7483.3  | 9964.6  |
| 7  | 3.0  | SEV DES       | 171.0      | 263.0 | 217.0 | 4239.3                 | 692.2  | 1387.0  | 0.0        | 44.0  | 33.0  | 12679.0                | 11224.9 | 13019.8 | 17918.3          | 11920.1 | 14906.8 |
| 8  | 1.0  | MILFORD       | 134.0      | 193.0 | 174.3 | 1.0                    | 0.0    | 0.1     | 2.0        | 48.0  | 25.0  | 12656.7                | 5341.2  | 10399.0 | 12657.7          | 5341.2  | 10399.1 |
| 9  | 1.0  | BERYL-ENT     | 117.0      | 139.0 | 138.0 | 59.8                   | 0.3    | 5.7     | 35.0       | 129.0 | 82.0  | 2296.7                 | 15.4    | 879.3   | 8256.3           | 15.4    | 886.0   |
| 10 | 3.0  | BERYL-ENT     | 77.0       | 119.0 | 98.0  | 12202.4                | 8400.8 | 10329.1 | 72.0       | 164.0 | 119.0 | 10813.1                | 3920.3  | 7196.8  | 23015.3          | 12320.8 | 17526.0 |
| 11 | 1.0  | WAM WAM       | 123.0      | 163.0 | 143.0 | 33.2                   | 0.3    | 3.8     | 35.0       | 74.0  | 54.3  | 8296.7                 | 1463.4  | 4069.3  | 8330.0           | 1463.7  | 4073.3  |
| 12 | 1.0  | KOBEH         | 189.0      | 226.0 | 207.3 | 0.0                    | 0.0    | 0.0     | 148.0      | 205.0 | 184.3 | 0.1                    | 0.0     | 0.0     | 0.1              | 0.0     | 0.0     |
| 13 | 2.0  | MONITOR       | 151.0      | 203.0 | 177.0 | 1358.8                 | 238.2  | 652.9   | 183.0      | 217.0 | 200.0 | 448.7                  | 112.0   | 230.9   | 2007.3           | 350.3   | 883.8   |
| 14 | 1.0  | RALSTON       | 123.0      | 168.0 | 145.3 | 33.2                   | 0.2    | 2.8     | 208.0      | 246.0 | 227.0 | 0.0                    | 0.0     | 0.0     | 33.2             | 0.2     | 2.8     |
| 15 | 1.0  | STONE CON     | 112.0      | 155.0 | 133.3 | 93.4                   | 0.9    | 11.1    | 194.0      | 232.0 | 213.0 | 0.0                    | 0.0     | 0.0     | 93.4             | 0.9     | 11.1    |
| 16 | 1.0  | ANTELOPE      | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0     | 163.0      | 186.0 | 174.3 | 0.3                    | 0.0     | 0.1     | 0.4              | 0.0     | 0.1     |
| 17 | 1.0  | LITTLE SHO    | 118.0      | 188.0 | 153.0 | 54.3                   | 0.0    | 1.1     | 148.0      | 180.0 | 164.0 | 1.8                    | 0.0     | 0.2     | 56.1             | 0.0     | 1.4     |
| 18 | 2.0  | HOT CRK       | 105.0      | 163.0 | 134.0 | 1383.7                 | 1061.2 | 2355.6  | 169.0      | 206.0 | 187.3 | 741.9                  | 180.1   | 378.3   | 3925.6           | 1241.3  | 2934.1  |
| 19 | 2.0  | PENOVER       | 65.0       | 95.0  | 80.0  | 10373.0                | 4337.3 | 8310.0  | 166.0      | 205.0 | 185.3 | 822.0                  | 187.8   | 408.4   | 11197.1          | 6345.1  | 8718.3  |
| 20 | 1.0  | RAILROAD      | 83.0       | 171.0 | 127.0 | 959.3                  | 0.1    | 22.1    | 126.0      | 209.0 | 167.3 | 21.0                   | 0.0     | 0.1     | 980.3            | 0.1     | 22.2    |
| 21 | 2.0  | STEPTOE       | 132.0      | 243.0 | 187.3 | 2698.1                 | 38.6   | 441.8   | 86.0       | 126.0 | 106.0 | 6431.2                 | 2707.1  | 4346.3  | 9129.4           | 2745.4  | 4788.1  |
| 22 | 2.0  | LAME          | 100.0      | 138.0 | 119.0 | 3753.3                 | 2287.0 | 3764.2  | 92.0       | 111.0 | 101.3 | 3767.2                 | 3890.8  | 4780.8  | 11322.3          | 6177.8  | 8545.0  |
| 23 | 2.0  | SPRING        | 112.0      | 218.0 | 165.0 | 4439.4                 | 125.1  | 492.3   | 65.0       | 98.0  | 81.3  | 8888.3                 | 3133.9  | 6943.4  | 12327.8          | 3258.0  | 7927.9  |
| 24 | 2.0  | HARLIN        | 91.0       | 163.0 | 118.0 | 6858.7                 | 1868.3 | 3858.3  | 46.0       | 103.0 | 85.3  | 8770.3                 | 4449.9  | 6487.8  | 13629.1          | 6209.4  | 10344.1 |
| 25 | 2.0  | PATTERSON     | 75.0       | 103.0 | 89.0  | 8993.9                 | 5408.3 | 7115.4  | 102.0      | 124.0 | 114.0 | 4731.4                 | 2707.1  | 3631.8  | 13725.3          | 8115.6  | 10747.2 |
| 26 | 2.0  | BIG SNOWY     | 174.0      | 232.0 | 204.0 | 674.9                  | 65.8   | 228.3   | 218.0      | 256.0 | 237.0 | 107.1                  | 17.1    | 44.3    | 784.0            | 62.8    | 272.9   |
| 27 | 1.0  | LIT FISH L    | 154.0      | 182.0 | 168.0 | 1.0                    | 0.0    | 0.2     | 194.0      | 216.0 | 205.0 | 0.0                    | 0.0     | 0.0     | 1.0              | 0.0     | 0.2     |
| 28 | 1.0  | PINE(N)       | 224.0      | 278.0 | 251.0 | 0.0                    | 0.0    | 0.0     | 186.0      | 216.0 | 201.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 29 | 1.0  | CRESCENT      | 230.0      | 280.0 | 265.0 | 0.0                    | 0.0    | 0.0     | 206.0      | 236.0 | 221.0 | 0.0                    | 0.0     | 0.0     | 0.0              | 0.0     | 0.0     |
| 30 | 3.0  | RUBY          | 224.0      | 288.0 | 256.0 | 1640.4                 | 371.2  | 817.4   | 146.0      | 170.0 | 158.0 | 5202.6                 | 3688.4  | 4409.3  | 6843.0           | 4059.4  | 5326.7  |
| 31 | 1.0  | ANTELOPE      | 234.0      | 262.0 | 248.0 | 0.0                    | 0.0    | 0.0     | 96.0       | 124.0 | 110.0 | 318.0                  | 25.7    | 98.0    | 318.0            | 25.7    | 98.0    |
| 32 | 1.0  | GOSHUTE       | 242.0      | 288.0 | 265.0 | 0.0                    | 0.0    | 0.0     | 118.0      | 132.0 | 135.0 | 46.3                   | 1.1     | 8.0     | 46.3             | 1.1     | 8.0     |
| 33 | 2.0  | DEEP CRK      | 210.0      | 244.0 | 227.0 | 177.4                  | 36.7   | 83.1    | 74.0       | 100.0 | 87.0  | 7823.1                 | 4930.6  | 6318.7  | 8000.3           | 4967.3  | 6401.8  |
| 34 | 2.0  | PAROLAN       | 130.0      | 168.0 | 149.0 | 2946.3                 | 396.3  | 1637.2  | 82.0       | 116.0 | 99.0  | 6887.7                 | 3465.3  | 5031.7  | 9734.1           | 4561.6  | 6688.9  |
| 35 | 1.0  | CEDAR CITY    | 106.0      | 150.0 | 128.0 | 162.7                  | 1.6    | 19.9    | 84.0       | 128.0 | 107.0 | 688.7                  | 17.1    | 127.8   | 831.1            | 18.7    | 147.7   |
| 36 | 1.0  | LUND DIST     | 104.0      | 140.0 | 122.0 | 193.2                  | 5.4    | 36.7    | 94.0       | 128.0 | 106.0 | 767.9                  | 17.1    | 129.4   | 961.0            | 22.4    | 174.1   |
| 37 | 1.0  | TIPPETT       | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0     | 84.0       | 106.0 | 94.0  | 767.9                  | 165.3   | 371.3   | 767.9            | 165.3   | 371.3   |

## EFFECT INDEX OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

ALTERNATIVE NO. 3  
 BASE A: BERYL LONG TERM POP 16743.0  
 BASE B: ELY LONG TERM POP 14347.0

| NO | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|----|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|    |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 1  | 3.0  | SNAKE         | 51.0       | 137.0 | 94.0  | 15057.8                | 7233.0  | 11349.0 | 23.0       | 89.0  | 57.0  | 13946.0                | 10017.3 | 12381.4 | 29003.8          | 17250.3 | 23750.4 |
| 2  | 1.0  | PINE          | 18.0       | 62.0  | 40.0  | 14844.2                | 3328.3  | 8818.0  | 58.0       | 94.0  | 76.0  | 3634.3                 | 389.3   | 1358.0  | 18478.7          | 3918.0  | 10176.3 |
| 3  | 2.0  | WHITE         | 68.0       | 126.0 | 97.0  | 10370.0                | 3353.0  | 6486.7  | 60.0       | 88.0  | 72.3  | 9928.3                 | 884.0   | 8391.2  | 20306.3          | 10217.0 | 14877.9 |
| 4  | 1.0  | FISH SPR      | 108.0      | 154.0 | 131.0 | 142.0                  | 1.1     | 15.4    | 85.0       | 108.0 | 96.3  | 751.7                  | 123.8   | 320.7   | 886.7            | 123.8   | 320.7   |
| 5  | 1.0  | DUGHAY        | 126.0      | 162.0 | 144.0 | 26.0                   | 0.4     | 2.4     | 100.0      | 122.0 | 111.0 | 242.2                  | 33.0    | 93.9    | 248.2            | 33.4    | 97.3    |
| 6  | 2.0  | GOVT CRK      | 135.0      | 174.0 | 154.3 | 2638.4                 | 771.4   | 1483.1  | 114.0      | 142.0 | 128.0 | 3809.2                 | 1833.1  | 2693.8  | 6447.4           | 2604.3  | 4178.7  |
| 7  | 3.0  | SEV DES       | 72.0       | 166.0 | 119.0 | 13593.3                | 4855.7  | 8914.1  | 82.0       | 135.0 | 118.3 | 10376.1                | 4825.8  | 7589.0  | 23969.4          | 9681.3  | 16503.1 |
| 8  | 1.0  | SEV LAME      | 54.0       | 105.0 | 79.3  | 3153.4                 | 188.2   | 1284.2  | 73.0       | 103.0 | 89.0  | 1444.3                 | 188.9   | 365.8   | 6397.7           | 377.1   | 1850.0  |
| 9  | 1.0  | MILFORD       | 28.0       | 71.0  | 49.3  | 12303.1                | 2164.7  | 4232.3  | 91.0       | 169.0 | 130.0 | 488.3                  | 0.1     | 14.3    | 12791.6          | 2164.9  | 6246.8  |
| 10 | 3.0  | BERYL-ENT     | 0.0        | 20.0  | 10.0  | 16943.0                | 16638.4 | 16866.3 | 82.0       | 180.0 | 131.3 | 10497.3                | 3300.8  | 6349.0  | 27440.3          | 19939.2 | 22415.3 |
| 11 | 1.0  | WAM WAM       | 26.0       | 71.0  | 49.3  | 12857.6                | 2164.7  | 4486.7  | 69.0       | 100.0 | 84.3  | 2035.0                 | 242.2   | 778.1   | 14912.6          | 2406.9  | 7264.8  |
| 12 | 1.0  | KOBEH         | 169.0      | 212.0 | 190.3 | 0.1                    | 0.0     | 0.0     | 72.0       | 109.0 | 90.3  | 1729.1                 | 112.4   | 306.9   | 1729.3           | 112.4   | 306.9   |
| 13 | 2.0  | MONITOR       | 166.0      | 193.0 | 180.3 | 1018.2                 | 349.9   | 609.8   | 83.0       | 118.0 | 101.3 | 6844.0                 | 3465.0  | 5014.3  | 7882.2           | 3814.9  | 5624.1  |
| 14 | 1.0  | RALSTON       | 171.0      | 194.0 | 182.3 | 0.1                    | 0.0     | 0.0     | 112.0      | 137.0 | 124.3 | 83.7                   | 0.6     | 8.9     | 85.8             | 0.6     | 8.9     |
| 15 | 1.0  | STONE CON     | 149.0      | 174.0 | 161.3 | 2.0                    | 0.1     | 0.4     | 98.0       | 145.0 | 121.3 | 284.7                  | 3.7     | 34.7    | 286.4            | 3.8     | 35.1    |
| 16 | 1.0  | ANTELOPE      | 158.0      | 182.0 | 170.0 | 0.6                    | 0.0     | 0.1     | 68.0       | 89.0  | 78.3  | 2172.2                 | 365.8   | 1159.9  | 2173.8           | 365.8   | 1160.0  |
| 17 | 1.0  | LITTLE SHO    | 125.0      | 165.0 | 150.0 | 10.0                   | 0.3     | 1.7     | 49.0       | 88.0  | 68.3  | 5364.4                 | 408.2   | 2113.3  | 5394.4           | 408.4   | 2115.2  |
| 18 | 2.0  | HOT CRK       | 137.0      | 157.0 | 147.0 | 2499.9                 | 1369.8  | 1868.0  | 71.0       | 120.0 | 93.3  | 8577.4                 | 3300.8  | 5457.1  | 11073.3          | 4670.3  | 7525.0  |
| 19 | 2.0  | PENOVER       | 102.0      | 132.0 | 117.0 | 9860.4                 | 2863.1  | 4191.3  | 88.0       | 129.0 | 108.3 | 6310.0                 | 2626.0  | 4315.8  | 12370.4          | 3489.1  | 8507.2  |
| 20 | 1.0  | RAILROAD      | 98.0       | 149.0 | 123.3 | 336.2                  | 2.0     | 33.3    | 29.0       | 126.0 | 77.3  | 10178.3                | 22.0    | 123.6   | 10514.4          | 24.0    | 1269.7  |
| 21 | 2.0  | STEPTOE       | 129.0      | 182.0 | 155.3 | 3101.2                 | 376.9   | 1436.9  | 0.0        | 85.0  | 42.3  | 14347.0                | 6864.0  | 11932.1 | 17448.2          | 7440.4  | 13369.0 |
| 22 | 2.0  | LAME          | 45.0       | 83.0  | 64.0  | 13780.1                | 8388.8  | 11135.1 | 25.0       | 68.0  | 46.3  | 13460.6                | 8950.3  | 11506.4 | 27240.6          | 17339.2 | 22661.3 |
| 23 | 2.0  | SPRING        | 49.0       | 151.0 | 100.0 | 13261.4                | 1654.0  | 6107.1  | 0.0        | 64.0  | 26.3  | 14228.9                | 9449.9  | 12523.4 | 27490.3          | 11100.0 | 18630.4 |
| 24 | 2.0  | HARLIN        | 11.0       | 75.0  | 43.0  | 16735.1                | 9543.4  | 14029.8 | 34.0       | 93.0  | 64.3  | 12750.4                | 3712.3  | 9384.2  | 29483.7          | 15255.9 | 22413.6 |
| 25 | 2.0  | PATTERSON     | 35.0       | 60.0  | 47.3  | 14932.1                | 11724.2 | 13458.7 | 58.0       | 91.0  | 74.3  | 10178.3                | 6162.9  | 9143.2  | 23130.6          | 17897.1 | 21601.3 |
| 26 | 2.0  | BIG SNOWY     | 192.0      | 222.0 | 207.0 | 292.9                  | 110.9   | 212.8   | 108.0      | 142.0 | 123.0 | 4362.8                 | 1833.1  | 2912.9  | 4737.6           | 1944.0  | 3126.8  |
| 27 | 1.0  | LIT FISH L    | 160.0      | 176.0 | 168.0 | 0.3                    | 0.1     | 0.3     | 80.0       | 104.0 | 92.0  | 1082.6                 | 173.4   | 452.3   | 1033.1           | 173.4   | 452.3   |
| 28 | 1.0  | PINE(N)       | 1          |       |       |                        |         |         |            |       |       |                        |         |         |                  |         |         |

## EFFECT INDEX OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP 16943.0  
 BASE B: COVOTE LONG TERM POP 12193.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 3    | 3.0   | SNAKE         | 31.0       | 137.0 | 94.0  | 15037.8                | 7233.0  | 11349.0 | 132.0      | 223.0 | 178.3 | 5533.3                 | 1227.7 | 2874.9 | 20591.3          | 8460.7  | 14223.9 |
| 3    | 1.0   | PINE          | 18.0       | 62.0  | 40.0  | 14844.2                | 3528.5  | 8818.0  | 108.0      | 152.0 | 130.0 | 104.4                  | 1.0    | 12.3   | 14948.6          | 3529.9  | 8830.3  |
| 6    | 2.0   | WHITE         | 68.0       | 126.0 | 97.0  | 10370.0                | 3353.0  | 6486.7  | 138.0      | 214.0 | 186.0 | 994.7                  | 113.9  | 357.3  | 11524.7          | 3466.9  | 6864.0  |
| 7    | 1.0   | FISH SPR      | 108.0      | 154.0 | 131.0 | 143.0                  | 1.1     | 15.4    | 198.0      | 245.0 | 221.3 | 0.0                    | 0.0    | 0.0    | 143.0            | 1.1     | 19.4    |
| 8    | 1.0   | DUGWAY        | 126.0      | 162.0 | 144.0 | 24.0                   | 0.4     | 3.6     | 220.0      | 252.0 | 236.0 | 0.0                    | 0.0    | 0.0    | 24.0             | 0.4     | 3.6     |
| 9    | 2.0   | COVOT CRK     | 132.0      | 174.0 | 154.3 | 2438.4                 | 771.4   | 1483.1  | 231.0      | 263.0 | 247.0 | 52.7                   | 10.5   | 24.1   | 2691.0           | 781.9   | 1507.2  |
| 46   | 3.0   | SEV DES       | 75.0       | 166.0 | 119.0 | 13393.3                | 4835.7  | 8914.1  | 171.0      | 263.0 | 217.0 | 3237.8                 | 329.3  | 1441.2 | 16631.1          | 3283.1  | 10353.3 |
| 46A  | 1.0   | SEV LAKE      | 34.0       | 103.0 | 79.3  | 3133.4                 | 188.2   | 1284.2  | 194.0      | 193.0 | 174.3 | 0.8                    | 0.0    | 0.0    | 3134.1           | 188.2   | 1284.3  |
| 50   | 1.0   | MILFORD       | 28.0       | 71.0  | 49.3  | 12303.1                | 2164.7  | 6232.3  | 117.0      | 139.0 | 138.0 | 43.7                   | 0.4    | 5.1    | 12348.8          | 2165.2  | 6237.3  |
| 53   | 3.0   | BERYL-ENT     | 0.0        | 30.0  | 10.0  | 16943.0                | 16638.4 | 16866.3 | 77.0       | 119.0 | 98.0  | 9319.8                 | 6416.1 | 7889.0 | 26262.8          | 23034.3 | 24753.3 |
| 54   | 1.0   | WAM WAM       | 26.0       | 71.0  | 48.3  | 12857.6                | 2164.7  | 6486.7  | 123.0      | 163.0 | 143.0 | 23.4                   | 0.2    | 2.9    | 12883.0          | 2165.0  | 6489.6  |
| 139  | 1.0   | KOBEH         | 169.0      | 212.0 | 190.3 | 0.1                    | 0.0     | 0.0     | 189.0      | 226.0 | 207.3 | 0.0                    | 0.0    | 0.0    | 0.1              | 0.0     | 0.0     |
| 140  | 2.0   | MONITOR       | 166.0      | 195.0 | 180.3 | 1018.2                 | 349.9   | 609.8   | 131.0      | 203.0 | 177.0 | 1190.3                 | 182.0  | 498.7  | 2208.7           | 331.8   | 1108.4  |
| 141  | 1.0   | RALSTON       | 171.0      | 194.0 | 182.3 | 0.1                    | 0.0     | 0.0     | 123.0      | 168.0 | 149.3 | 23.4                   | 0.1    | 2.2    | 23.5             | 0.1     | 2.2     |
| 149  | 1.0   | STONE CBN     | 149.0      | 174.0 | 161.3 | 2.0                    | 0.1     | 0.4     | 112.0      | 135.0 | 133.3 | 72.9                   | 0.7    | 8.5    | 74.8             | 0.7     | 8.9     |
| 151  | 1.0   | ANTELOPE      | 158.0      | 182.0 | 170.0 | 0.4                    | 0.0     | 0.1     | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0    | 0.7              | 0.0     | 0.1     |
| 153  | 1.0   | LITTLE SHO    | 135.0      | 163.0 | 150.0 | 10.0                   | 0.3     | 1.7     | 118.0      | 188.0 | 153.0 | 41.3                   | 0.0    | 0.9    | 31.3             | 0.3     | 2.6     |
| 156  | 2.0   | HOT CRK       | 137.0      | 157.0 | 147.0 | 2493.9                 | 1369.8  | 1868.0  | 105.0      | 163.0 | 134.0 | 3939.1                 | 810.3  | 1931.9 | 6439.0           | 2180.3  | 3819.8  |
| 170  | 2.0   | PENOVY        | 102.0      | 132.0 | 117.0 | 3860.4                 | 2863.1  | 4191.3  | 63.0       | 93.0  | 80.0  | 7924.1                 | 4835.3 | 6246.9 | 13784.5          | 7718.6  | 10328.2 |
| 173  | 1.0   | RAILROAD      | 98.0       | 149.0 | 123.3 | 336.2                  | 2.0     | 33.3    | 83.0       | 171.0 | 127.0 | 732.9                  | 0.1    | 16.9   | 1069.0           | 2.0     | 30.4    |
| 179  | 2.0   | STEEPTOE      | 129.0      | 182.0 | 135.3 | 3101.2                 | 576.9   | 1436.9  | 132.0      | 243.0 | 187.3 | 2060.7                 | 29.3   | 327.4  | 3162.0           | 606.2   | 1774.0  |
| 183  | 2.0   | LAKE          | 45.0       | 83.0  | 64.0  | 13780.1                | 8388.8  | 11153.1 | 100.0      | 138.0 | 119.0 | 4393.7                 | 1746.8 | 2874.9 | 18173.7          | 10135.3 | 14030.3 |
| 184  | 2.0   | SPRING        | 49.0       | 151.0 | 100.0 | 13261.4                | 1634.0  | 6107.1  | 112.0      | 218.0 | 165.0 | 3390.7                 | 93.3   | 738.0  | 16632.0          | 1749.6  | 6863.1  |
| 196  | 2.0   | HARLIN        | 11.0       | 73.0  | 43.0  | 16735.1                | 9343.6  | 14029.8 | 91.0       | 143.0 | 118.0 | 3238.3                 | 1427.1 | 2945.3 | 21973.3          | 10970.7 | 16973.1 |
| 202  | 2.0   | PATTERSON     | 35.0       | 60.0  | 47.3  | 14932.1                | 11734.2 | 13458.7 | 73.0       | 102.0 | 89.0  | 6866.2                 | 4150.8 | 3434.3 | 21821.3          | 13865.0 | 18892.2 |
| 1378 | 2.0   | BIG SHONY     | 192.0      | 222.0 | 207.0 | 393.9                  | 110.9   | 213.8   | 176.0      | 232.0 | 204.0 | 0.8                    | 0.0    | 0.0    | 176.6            | 141.1   | 388.4   |
| 150  | 1.0   | LIT FISH L    | 160.0      | 176.0 | 168.0 | 0.3                    | 0.1     | 0.2     | 184.0      | 222.0 | 168.0 | 0.8                    | 0.0    | 0.1    | 1.3              | 0.1     | 0.3     |
| 53   | 1.0   | PINE(N)       | 194.0      | 238.0 | 217.0 | 0.0                    | 0.0     | 0.0     | 224.0      | 278.0 | 231.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 54   | 1.0   | CRESCENT      | 224.0      | 248.0 | 236.0 | 0.0                    | 0.0     | 0.0     | 230.0      | 280.0 | 263.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 176  | 3.0   | RUBY          | 174.0      | 228.0 | 202.0 | 4138.1                 | 1603.7  | 2662.7  | 224.0      | 288.0 | 254.0 | 1232.9                 | 283.3  | 624.3  | 3411.0           | 1887.2  | 3287.0  |
| 186  | 1.0   | ANTELOPE      | 152.0      | 188.0 | 170.0 | 1.4                    | 0.0     | 0.1     | 234.0      | 262.0 | 248.0 | 0.0                    | 0.0    | 0.0    | 1.4              | 0.0     | 0.1     |
| 107  | 1.0   | GOSHUTE       | 174.0      | 208.0 | 191.0 | 0.1                    | 0.0     | 0.0     | 242.0      | 288.0 | 263.0 | 0.0                    | 0.0    | 0.0    | 0.1              | 0.0     | 0.0     |
| 3    | 2.0   | DEEP CRK      | 132.0      | 164.0 | 148.0 | 2863.1                 | 1089.1  | 1812.6  | 210.0      | 244.0 | 227.0 | 135.3                  | 28.0   | 63.3   | 2998.5           | 1117.2  | 1876.1  |
| 49   | 2.0   | PARDMAN       | 42.0       | 72.0  | 57.0  | 14132.0                | 9982.9  | 12162.1 | 130.0      | 168.0 | 149.0 | 2173.9                 | 684.6  | 1265.7 | 16323.9          | 10667.3 | 13427.8 |
| 51   | 1.0   | CEDAR CITY    | 28.0       | 52.0  | 40.0  | 12303.1                | 3619.2  | 8818.0  | 106.0      | 150.0 | 128.0 | 124.3                  | 1.3    | 13.2   | 12427.4          | 3620.4  | 8833.2  |
| 52   | 1.0   | LUND DIST     | 8.0        | 40.0  | 24.0  | 16306.1                | 8818.0  | 13393.3 | 104.0      | 140.0 | 122.0 | 147.3                  | 4.1    | 28.0   | 16632.7          | 8832.1  | 13421.3 |
| 185  | 1.0   | TIPPETT       | 132.0      | 158.0 | 145.0 | 13.8                   | 0.6     | 3.2     | 204.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0    | 13.8             | 0.6     | 3.2     |

## EFFECT INDEX OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

ALTERNATIVE NO. 5  
 BASE A: MILFORD LONG TERM POP 17221.0  
 BASE B: ELY LONG TERM POP 14347.0

| NO.  | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |      |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 3    | 3.0  | SNAKE         | 43.0       | 112.0 | 77.3  | 13835.8                | 9749.7  | 13114.7 | 23.0       | 89.0  | 57.0  | 12946.0                | 10017.3 | 12381.4 | 29781.9          | 19767.0 | 23496.1 |
| 4    | 1.0  | PINE          | 23.0       | 31.0  | 38.0  | 13343.3                | 3936.6  | 9531.9  | 38.0       | 94.0  | 76.0  | 3624.3                 | 389.3   | 1238.0  | 16978.0          | 6246.0  | 10909.9 |
| 6    | 2.0  | WHITE         | 40.0       | 103.0 | 71.3  | 14626.9                | 3833.3  | 10221.3 | 60.0       | 85.0  | 72.3  | 9926.3                 | 6864.0  | 8391.2  | 24563.2          | 12697.3 | 18612.5 |
| 7    | 1.0  | FISH SPR      | 82.0       | 129.0 | 103.3 | 1107.0                 | 19.3    | 183.3   | 85.0       | 108.0 | 96.3  | 751.7                  | 122.8   | 320.7   | 1858.7           | 142.1   | 303.9   |
| 8    | 1.0  | DUGWAY        | 98.0       | 132.0 | 115.0 | 341.7                  | 14.0    | 77.9    | 100.0      | 122.0 | 111.0 | 242.2                  | 33.0    | 93.9    | 583.9            | 47.0    | 171.8   |
| 9    | 2.0  | COVOT CRK     | 103.0      | 143.0 | 123.0 | 3833.3                 | 2137.2  | 3677.9  | 114.0      | 162.0 | 128.0 | 3809.2                 | 1833.1  | 2693.8  | 9642.3           | 3970.3  | 6373.8  |
| 46   | 3.0  | SEV DES       | 35.0       | 129.0 | 82.0  | 16290.4                | 8096.3  | 12654.7 | 82.0       | 135.0 | 118.3 | 10576.1                | 4825.8  | 7559.0  | 26866.3          | 12923.3 | 20282.8 |
| 46A  | 1.0  | SEV LAKE      | 23.0       | 77.0  | 50.0  | 13874.7                | 1331.3  | 6207.3  | 73.0       | 103.0 | 89.0  | 1444.3                 | 188.9   | 365.8   | 15321.0          | 1720.2  | 6773.1  |
| 50   | 1.0  | MILFORD       | 3.0        | 20.0  | 10.0  | 17221.0                | 14626.9 | 16332.3 | 91.0       | 169.0 | 130.0 | 488.3                  | 0.1     | 14.3    | 17709.3          | 14627.1 | 16346.7 |
| 53   | 3.0  | BERYL-ENT     | 23.0       | 80.0  | 31.3  | 16812.8                | 12888.2 | 15269.3 | 83.0       | 180.0 | 131.3 | 10497.3                | 3300.8  | 6949.0  | 27310.0          | 16183.4 | 21818.3 |
| 54   | 1.0  | WAM WAM       | 9.0        | 49.0  | 29.0  | 16661.0                | 6463.2  | 12217.4 | 69.0       | 100.0 | 84.3  | 2055.0                 | 242.2   | 778.1   | 18716.0          | 6703.4  | 12993.9 |
| 139  | 1.0  | KOBEH         | 178.0      | 213.0 | 196.3 | 0.0                    | 0.0     | 0.0     | 72.0       | 109.0 | 90.3  | 1729.1                 | 112.4   | 306.9   | 1729.2           | 112.4   | 306.9   |
| 140  | 2.0  | MONITOR       | 186.0      | 209.0 | 197.3 | 304.6                  | 199.7   | 321.7   | 83.0       | 118.0 | 101.3 | 6864.0                 | 3465.0  | 5014.3  | 7366.6           | 3664.7  | 5326.0  |
| 141  | 1.0  | RALSTON       | 194.0      | 222.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 112.0      | 137.0 | 134.3 | 85.7                   | 0.6     | 8.9     | 85.7             | 0.6     | 8.9     |
| 149  | 1.0  | STONE CBN     | 177.0      | 206.0 | 191.3 | 0.0                    | 0.0     | 0.0     | 98.0       | 145.0 | 121.3 | 284.7                  | 2.7     | 34.7    | 284.7            | 2.7     | 34.7    |
| 151  | 1.0  | ANTELOPE      | 172.0      | 194.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 68.0       | 89.0  | 78.3  | 2173.2                 | 363.8   | 1159.9  | 2173.2           | 363.8   | 1159.9  |
| 153  | 1.0  | LITTLE SHO    | 160.0      | 178.0 | 161.3 | 2.3                    | 0.1     | 0.4     | 49.0       | 88.0  | 68.3  | 3284.6                 | 608.2   | 2113.3  | 3284.6           | 608.2   | 2113.3  |
| 156  | 2.0  | HOT CRK       | 148.0      | 186.0 | 173.0 | 1263.3                 | 304.6   | 812.3   | 71.0       | 120.0 | 93.3  | 8377.4                 | 3300.8  | 3637.1  | 9841.1           | 3803.3  | 6467.4  |
| 170  | 2.0  | PENOVY        | 134.0      | 168.0 | 151.0 | 2756.3                 | 964.7   | 1681.2  | 88.0       | 129.0 | 108.3 | 6310.0                 | 2626.0  | 4315.8  | 9266.3           | 3392.7  | 5997.0  |
| 173  | 1.0  | RAILROAD      | 98.0       | 178.0 | 148.0 | 38.6                   | 0.0     | 2.3     | 29.0       | 126.0 | 77.3  | 10178.3                | 22.0    | 1236.2  | 10237.1          | 22.0    | 1236.4  |
| 179  | 2.0  | STEEPTOE      | 92.0       | 171.0 | 131.3 | 7260.6                 | 871.4   | 2949.4  | 0.0        | 83.0  | 42.3  | 14347.0                | 6864.0  | 11932.1 | 21607.4          | 7733.4  | 14881.3 |
| 183  | 2.0  | LAKE          | 63.0       | 92.0  | 77.3  | 11486.0                | 7260.6  | 9320.1  | 23.0       | 68.0  | 46.3  | 13660.6                | 8930.3  | 11306.4 | 24946.6          | 16211.0 | 20826.3 |
| 184  | 2.0  | SPRING        | 62.0       | 142.0 | 102.0 | 11633.3                | 2200.3  | 3936.6  | 9.0        | 64.0  | 36.3  | 14228.9                | 9445.9  | 12323.4 | 23862.6          | 11646.2 | 18480.0 |
| 196  | 2.0  | HARLIN        | 37.0       | 73.0  | 56.0  | 14975.8                | 9700.2  | 12503.0 | 34.0       | 93.0  | 64.3  | 12750.4                | 3712.3  | 9384.2  | 27726.4          | 15412.3 | 21889.2 |
| 202  | 2.0  | PATTERSON     | 62.0       | 85.0  | 73.3  | 11633.3                | 8239.0  | 9923.2  | 58.0       | 91.0  | 74.3  | 10178.3                | 6162.9  | 8143.2  | 21811.9          | 14401.9 | 18066.6 |
| 1378 | 2.0  | BIG SHONY     | 212.0      | 238.0 | 223.0 | 173.3                  | 53.2    | 98.3    | 108.0      | 142.0 | 123.0 | 4363.8                 | 1833.1  | 2912.9  | 4339.2           | 1886.3  | 3011.2  |
| 150  | 1.0  | LIT FISH L    | 180.0      | 196.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 80.0       | 104.0 | 92.0  | 1032.6                 | 173.6   | 483.3   | 1032.6           | 17.9    | 128.9   |
| 53   | 1.0  | PINE (IN)     | 200.0      | 236.0 | 219.0 | 0.0                    | 0.0     | 0.0     | 118.0      | 128.0 | 106.0 | 60.2                   | 17.9    | 128.9   | 60.2             | 17.9    | 128.9   |
| 54   | 1.0  | CRESCENT      | 228.0      | 236.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 118.0      | 142.0 | 129.0 | 59.1                   | 3.8     | 16.1    | 59.1             | 3.8     | 16.1    |
| 176  | 3.0  | RUBY          | 142.0      | 216.0 | 159.0 | 4822.3                 | 2075.3  | 3013.9  | 64.0       | 124.0 | 93.0  | 11773.1                | 7143.6  | 9338.1  | 16001.4          | 9219.1  | 12344.0 |
| 186  | 1.0  | ALBENLOPE     | 142.0      | 172.0 | 157.0 | 4.4                    | 0.1     | 0.7     | 48.0       | 100.0 | 84.0  | 2173.2                 | 242.2   | 803.4   | 2177.8           | 242.2   | 806.1   |
| 187  | 1.0  | OSGUTHU       | 162.0      | 204.0 | 183.0 | 0.4                    | 0.0     | 0.0     | 78.0       | 128.0 | 103.0 | 1197.3                 | 17.9    | 188.9   | 1197.9           | 17.9    | 188.9   |
| 2    | 3.0  | DEEP CRK      | 118.0      | 150.0 | 134.0 | 4139.2                 | 1733.4  | 2754.3  | 60.0       | 90.0  | 73.0  | 9926.3                 | 6277.7  | 8081.4  | 14095.3          | 8011.4  | 10837.7 |
| 49   | 2.0  | PARADISE      | 24.0       | 44.0  | 34.0  | 16228.0                | 14133.3 | 13304.9 | 326.0      | 136.0 | 146.0 | 2173.2                 | 1197.3  | 1639.9  | 18411.2          | 13331.3 | 16793.6 |
| 91   | 1.0  | CEADAR CITY   | 14.0       | 30.0  | 33.0  | 15312.4                | 6207.3  | 11041.3 | 128.0      | 136.0 | 142.0 | 17.9                   | 0.7     | 3.8     | 15330.0          | 6208.0  | 11049.1 |
| 52   | 1.0  | LUND DIST     | 12.0       | 48.0  | 30.0  | 16228.0                | 6784.3  | 11926.7 | 94.0       | 140.0 | 117.0 | 389.3                  | 4.8     | 32.7    | 16627.3          | 6729.1  | 11980.3 |
| 183  | 1.0  | TIPPETT       | 120.0      | 144.0 | 132.0 | 48.2                   | 3.4     | 14.0    | 46.0       | 74.0  | 60.0  | 6048.8                 | 1334.9  | 3300.8  | 6097.1           | 1338.3  | 3314.1  |

## EFFECT INDEX OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

ALTERNATIVE NO. 5  
 BASE A: MILFORD LONG TERM POP 17221.0  
 BASE B: COYOTE LONG TERM POP 12193.0

| NO   | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |      |               | N          | P     | AVE   | MAX                    | MIN     | AVE     | N          | P     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 1    | 3    | SHAKE         | 43.0       | 112.0 | 77.5  | 15835.8                | 9749.7  | 13114.7 | 132.0      | 225.0 | 178.5 | 5533.5                 | 1227.7 | 2874.9 | 21369.3          | 10977.4 | 15989.7 |
| 3    | 1    | PINE          | 25.0       | 31.0  | 38.0  | 13343.3                | 3956.4  | 9551.9  | 108.0      | 152.0 | 120.0 | 104.4                  | 1.0    | 12.3   | 12447.8          | 5957.6  | 9564.2  |
| 6    | 2    | WHITE         | 40.0       | 103.0 | 71.5  | 14626.9                | 3833.3  | 10221.3 | 158.0      | 214.0 | 184.0 | 954.7                  | 113.9  | 357.3  | 15301.7          | 3947.2  | 10578.6 |
| 7    | 1    | FISH SPR      | 82.0       | 129.0 | 103.5 | 1107.0                 | 19.3    | 183.3   | 198.0      | 245.0 | 221.5 | 0.0                    | 0.0    | 0.0    | 1107.0           | 19.3    | 183.3   |
| 9    | 1    | DUGWAY        | 98.0       | 132.0 | 113.0 | 341.7                  | 14.0    | 77.9    | 220.0      | 252.0 | 236.0 | 0.0                    | 0.0    | 0.0    | 341.7            | 14.0    | 77.9    |
| 9    | 2    | GOVT CRK      | 103.0      | 143.0 | 123.0 | 5833.3                 | 2137.2  | 3677.9  | 231.0      | 263.0 | 247.0 | 52.7                   | 10.5   | 24.1   | 5885.9           | 2147.7  | 3702.1  |
| 46   | 3    | SEV DES       | 35.0       | 129.0 | 82.0  | 16290.4                | 8096.5  | 12674.7 | 173.0      | 263.0 | 217.0 | 3237.8                 | 529.5  | 1441.2 | 19528.2          | 8626.0  | 14135.9 |
| 46A  | 1    | SEV LAKE      | 23.0       | 77.0  | 50.0  | 13876.7                | 1331.3  | 6207.3  | 154.0      | 195.0 | 174.5 | 0.0                    | 0.0    | 0.0    | 13877.5          | 1331.3  | 6207.3  |
| 50   | 1    | MILFORD       | 0.0        | 20.0  | 10.0  | 17221.0                | 14626.9 | 16332.3 | 117.0      | 159.0 | 138.0 | 45.7                   | 0.4    | 3.1    | 17266.7          | 14627.3 | 16337.4 |
| 53   | 3    | SEVY-ENT      | 23.0       | 80.0  | 51.5  | 16812.8                | 12882.4 | 13269.3 | 77.0       | 119.0 | 98.0  | 9319.8                 | 4414.1 | 7889.0 | 26132.5          | 19276.7 | 23198.3 |
| 54   | 1    | MAN MAN       | 9.0        | 49.0  | 29.0  | 16641.0                | 6463.2  | 12217.4 | 123.0      | 163.0 | 143.0 | 25.4                   | 0.2    | 2.9    | 16686.3          | 6463.3  | 12230.3 |
| 139  | 1    | KOBEN         | 178.0      | 215.0 | 194.5 | 0.0                    | 0.0     | 0.0     | 189.0      | 226.0 | 207.5 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 140  | 2    | MONITOR       | 186.0      | 209.0 | 197.5 | 304.6                  | 199.7   | 321.7   | 151.0      | 203.0 | 177.0 | 1190.5                 | 182.0  | 498.7  | 1495.1           | 381.6   | 820.4   |
| 141  | 1    | RALSTON       | 194.0      | 222.0 | 208.0 | 0.0                    | 0.0     | 0.0     | 123.0      | 168.0 | 145.5 | 25.4                   | 0.1    | 2.2    | 25.4             | 0.1     | 2.2     |
| 149  | 1    | STONE CBN     | 177.0      | 204.0 | 191.5 | 0.0                    | 0.0     | 0.0     | 112.0      | 153.0 | 133.5 | 72.9                   | 0.7    | 8.5    | 72.9             | 0.7     | 8.5     |
| 151  | 1    | ANTELOPE      | 172.0      | 194.0 | 183.0 | 0.1                    | 0.0     | 0.0     | 169.0      | 197.0 | 183.0 | 0.1                    | 0.0    | 0.0    | 0.2              | 0.0     | 0.0     |
| 155  | 1    | LITTLE SPD    | 148.0      | 175.0 | 161.5 | 2.3                    | 0.1     | 0.5     | 118.0      | 153.0 | 135.0 | 41.5                   | 0.0    | 0.9    | 42.7             | 0.1     | 1.3     |
| 156  | 2    | HOT CRK       | 160.0      | 184.0 | 173.0 | 1263.5                 | 304.4   | 812.3   | 105.0      | 163.0 | 134.0 | 3959.1                 | 810.5  | 1951.9 | 3222.6           | 1315.1  | 2764.2  |
| 170  | 2    | PENOVYER      | 134.0      | 168.0 | 151.0 | 2756.3                 | 966.7   | 1681.2  | 45.0       | 95.0  | 80.0  | 7924.1                 | 4855.5 | 6346.9 | 10480.3          | 3822.2  | 8028.1  |
| 173  | 1    | RAILROAD      | 118.0      | 178.0 | 148.0 | 38.6                   | 0.0     | 2.3     | 83.0       | 171.0 | 127.0 | 732.9                  | 0.1    | 16.9   | 791.4            | 0.1     | 19.1    |
| 179  | 2    | STEPTOE       | 92.0       | 171.0 | 131.5 | 7260.6                 | 871.4   | 2949.9  | 129.0      | 243.0 | 187.5 | 2060.7                 | 29.5   | 337.4  | 9321.3           | 900.9   | 3284.9  |
| 183  | 2    | LAKE          | 63.0       | 92.0  | 77.5  | 11486.0                | 7260.6  | 9330.1  | 100.0      | 138.0 | 119.0 | 4395.7                 | 1746.8 | 2874.9 | 15881.7          | 9007.3  | 12205.0 |
| 184  | 2    | SPRING        | 62.0       | 142.0 | 102.0 | 11633.3                | 3200.3  | 3956.4  | 112.0      | 218.0 | 165.0 | 3290.7                 | 93.5   | 758.0  | 15024.1          | 2295.8  | 6714.6  |
| 196  | 2    | HARLIN        | 37.0       | 73.0  | 56.0  | 14973.8                | 9700.2  | 12505.0 | 91.0       | 143.0 | 118.0 | 3238.3                 | 1427.1 | 2943.3 | 20314.3          | 11127.3 | 15450.3 |
| 232  | 2    | PATTERSON     | 62.0       | 85.0  | 73.5  | 11633.3                | 8229.0  | 9925.2  | 75.0       | 103.0 | 89.0  | 6849.2                 | 4130.8 | 5434.5 | 18302.6          | 12349.9 | 15357.7 |
| 1378 | 2    | BIG SHOWY     | 212.0      | 258.0 | 235.0 | 179.5                  | 53.2    | 98.3    | 174.0      | 232.0 | 204.0 | 517.0                  | 50.2   | 174.4  | 692.5            | 103.4   | 272.9   |
| 150  | 1    | LIT FISH L    | 180.0      | 196.0 | 188.0 | 0.0                    | 0.0     | 0.0     | 154.0      | 182.0 | 168.0 | 0.0                    | 0.0    | 0.1    | 0.0              | 0.0     | 0.1     |
| 53   | 1    | PINE(IN)      | 200.0      | 236.0 | 218.0 | 0.0                    | 0.0     | 0.0     | 224.0      | 278.0 | 251.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 54   | 1    | CRESCENT      | 228.0      | 236.0 | 232.0 | 0.0                    | 0.0     | 0.0     | 250.0      | 280.0 | 265.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 174  | 3    | RUBY          | 174.0      | 216.0 | 194.0 | 4226.3                 | 2073.5  | 3015.9  | 224.0      | 288.0 | 256.0 | 1292.9                 | 283.5  | 624.3  | 3479.2           | 2339.0  | 3640.2  |
| 186  | 1    | ANTELOPE      | 142.0      | 172.0 | 157.0 | 4.6                    | 0.1     | 0.7     | 234.0      | 262.0 | 248.0 | 0.0                    | 0.0    | 0.0    | 4.6              | 0.1     | 0.7     |
| 187  | 1    | GOBHUITE      | 162.0      | 204.0 | 183.0 | 0.0                    | 0.0     | 0.0     | 245.0      | 285.0 | 265.0 | 0.0                    | 0.0    | 0.0    | 0.0              | 0.0     | 0.0     |
| 2    | 2    | DEEP CRK      | 118.0      | 150.0 | 134.0 | 4159.2                 | 1732.4  | 2756.3  | 210.0      | 244.0 | 227.0 | 135.5                  | 28.0   | 43.5   | 4294.6           | 1761.7  | 2819.8  |
| 49   | 2    | PAROMAN       | 24.0       | 44.0  | 34.0  | 16238.0                | 14133.9 | 15304.9 | 130.0      | 148.0 | 149.0 | 2173.9                 | 684.6  | 1263.7 | 18411.9          | 14818.5 | 16370.5 |
| 51   | 1    | CEDAR CITY    | 16.0       | 30.0  | 23.0  | 15912.4                | 6207.3  | 11041.3 | 106.0      | 150.0 | 128.0 | 124.3                  | 1.3    | 15.2   | 15636.7          | 6208.5  | 11054.5 |
| 52   | 1    | LUND DIST     | 12.0       | 48.0  | 30.0  | 16238.0                | 6724.3  | 11926.3 | 104.0      | 140.0 | 122.0 | 147.5                  | 4.1    | 28.0   | 14385.5          | 6728.3  | 11954.8 |
| 185  | 1    | TIPPETT       | 120.0      | 144.0 | 132.0 | 48.2                   | 3.6     | 14.0    | 208.0      | 232.0 | 218.0 | 0.0                    | 0.0    | 0.0    | 48.2             | 3.6     | 14.0    |

## COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON PRONGHORN KEY HABITAT

| NO   | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |         |         |
|------|---------------|--------|-------------------------------------|---------|---------|---------|---------|---------|
|      |               |        | 0                                   | 1       | 2       | 3       | 4       | 5       |
| 4    | SHAKE         | 3.0    | 13718.4                             | 12360.8 | 13629.7 | 23730.4 | 14223.9 | 25496.1 |
| 3    | PINE          | 1.0    | 7266.2                              | 6675.6  | 1920.8  | 10176.0 | 8820.2  | 10909.9 |
| 6    | WHITE         | 2.0    | 8225.9                              | 3381.4  | 12539.3 | 14877.9 | 6844.0  | 18612.3 |
| 7    | FISH SPR      | 1.0    | 139.1                               | 11.7    | 6344.4  | 326.0   | 19.4    | 503.9   |
| 9    | DUGWAY        | 1.0    | 59.2                                | 2.7     | 3133.9  | 97.5    | 3.6     | 171.8   |
| 9    | GOVT CRK      | 2.0    | 2823.2                              | 1155.0  | 9964.6  | 4178.9  | 1507.2  | 4373.8  |
| 46   | SEV DES       | 3.0    | 11322.4                             | 8629.2  | 14906.8 | 16303.1 | 10355.3 | 20283.8 |
| 46A  | SEV LAKE      | 1.0    | 4711.5                              | 972.8   | 10399.1 | 1850.0  | 1284.3  | 4773.1  |
| 50   | MILFORD       | 1.0    | 12555.0                             | 4727.6  | 886.0   | 6246.8  | 6237.5  | 16346.7 |
| 53   | SEVY-ENT      | 3.0    | 21918.3                             | 23105.1 | 17526.0 | 25415.3 | 24755.3 | 21818.3 |
| 54   | MAN MAN       | 1.0    | 9277.0                              | 4917.3  | 4073.3  | 7264.8  | 6489.6  | 12995.8 |
| 139  | KOBEN         | 1.0    | 0.0                                 | 0.0     | 0.0     | 0.0     | 0.0     | 306.9   |
| 140  | MONITOR       | 2.0    | 897.1                               | 1114.8  | 883.8   | 3624.1  | 1108.4  | 3336.0  |
| 141  | RALSTON       | 1.0    | 2.8                                 | 2.8     | 2.8     | 8.9     | 2.2     | 8.9     |
| 149  | STONE CBN     | 1.0    | 11.1                                | 11.4    | 11.1    | 33.1    | 8.9     | 34.7    |
| 151  | ANTELOPE      | 1.0    | 0.0                                 | 0.1     | 0.1     | 1160.0  | 0.1     | 1159.9  |
| 155  | LITTLE SPD    | 1.0    | 1.4                                 | 2.4     | 1.4     | 2113.2  | 2.6     | 2113.9  |
| 156  | HOT CRK       | 2.0    | 3172.1                              | 3970.5  | 2924.1  | 7583.0  | 3819.8  | 6469.4  |
| 170  | PENOVYER      | 2.0    | 9586.1                              | 11484.9 | 8718.5  | 8507.2  | 10528.2 | 8997.0  |
| 173  | RAILROAD      | 1.0    | 23.8                                | 47.5    | 22.2    | 1269.7  | 50.4    | 1238.4  |
| 179  | STEPTOE       | 2.0    | 2680.9                              | 1530.2  | 4788.1  | 13369.0 | 1774.3  | 14881.5 |
| 183  | LAKE          | 2.0    | 10845.9                             | 12212.9 | 8945.0  | 22661.5 | 14030.0 | 20826.5 |
| 184  | SPRING        | 2.0    | 3513.4                              | 3618.5  | 7937.9  | 18630.4 | 6863.1  | 18480.0 |
| 196  | HARLIN        | 2.0    | 13347.8                             | 14483.6 | 16344.1 | 25415.3 | 16975.1 | 21889.2 |
| 232  | PATTERSON     | 2.0    | 14647.3                             | 17310.1 | 10747.2 | 21601.9 | 18893.2 | 18066.5 |
| 1378 | BIG SHOWY     | 2.0    | 303.2                               | 290.5   | 272.9   | 3126.8  | 386.4   | 2011.2  |
| 150  | LIT FISH L    | 1.0    | 0.2                                 | 0.3     | 0.2     | 453.5   | 0.3     | 453.3   |
| 53   | PINE(IN)      | 1.0    | 0.0                                 | 0.0     | 0.0     | 122.8   | 0.0     | 122.8   |
| 54   | CRESCENT      | 1.0    | 0.0                                 | 0.0     | 0.0     | 16.1    | 0.0     | 16.1    |
| 174  | RUBY          | 3.0    | 3106.5                              | 2834.3  | 3226.7  | 12190.8 | 3287.0  | 12344.0 |
| 186  | ANTELOPE      | 1.0    | 0.6                                 | 0.1     | 98.0    | 805.5   | 0.1     | 806.1   |
| 187  | GOBHUITE      | 1.0    | 0.0                                 | 0.0     | 8.0     | 188.9   | 0.0     | 188.9   |
| 2    | DEEP CRK      | 2.0    | 2173.2                              | 1456.1  | 6401.8  | 9894.0  | 1876.1  | 10837.7 |
| 49   | PAROMAN       | 2.0    | 13273.8                             | 10869.7 | 6688.8  | 13791.9 | 13427.8 | 16924.6 |
| 51   | CEDAR CITY    | 1.0    | 8400.4                              | 6699.4  | 147.7   | 8821.8  | 8832.2  | 11043.1 |
| 52   | LUND DIST     | 1.0    | 9089.3                              | 10181.9 | 176.1   | 13447.0 | 13421.3 | 11980.5 |
| 185  | TIPPETT       | 1.0    | 10.7                                | 2.4     | 371.3   | 3303.9  | 3.2     | 3314.8  |

## PRONGHORN KEY HABITAT RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0             | ALT 1             | ALT 2             | ALT 3             | ALT 4              | ALT 5              | ALT 6             |
|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|
| RESOURCE INDEX    | RESOURCE INDEX    | RESOURCE INDEX    | RESOURCE INDEX    | RESOURCE INDEX     | RESOURCE INDEX     | RESOURCE INDEX    |
| SEVY-ENT 21918.8  | SEVY-ENT 23105.1  | SEVY-ENT 17526.0  | SHAKE 13629.7     | SEVY-ENT 24755.3   | SHAKE 25496.1      | SEVY-ENT 23198.3  |
| PATTERSON 14647.3 | PATTERSON 17310.1 | SHAKE 15304.9     | SEVY-ENT 23115.3  | PATTERSON 18893.2  | PAROMAN 21889.2    | PAROMAN 16370.5   |
| SHAKE 13718.4     | SHAKE 14483.6     | SEV DES 14906.8   | HARLIN 23413.9    | HARLIN 16975.1     | SEVY-ENT 21818.3   | MILFORD 16337.4   |
| HARLIN 13347.8    | SHAKE 12360.8     | WHITE 12539.3     | LAKE 22661.5      | SHAKE 14823.9      | LAKE 20826.5       | SHAKE 15989.7     |
| PAROMAN 13273.8   | LAKE 12212.9      | PATTERSON 10747.2 | PATTERSON 21601.9 | LAKE 14030.0       | SEV DES 20283.8    | HARLIN 15450.3    |
| MILFORD 12555.0   | PENOVYER 11484.9  | SEV LAKE 10399.1  | SPRING 18630.4    | PAROMAN 13427.8    | WHITE 18612.3      | PATTERSON 15357.7 |
| SEV DES 11322.4   | PAROMAN 10869.7   | HARLIN 10244.1    | SEV DES 16303.1   | LUND DIST 13421.3  | SPRING 18480.0     | SEV DES 14135.9   |
| LAKE 10845.9      | LUND DIST 10181.9 |                   | WHITE 16924.6     | PENOVYER 10528.2   | PATTERSON 16066.5  | MAN MAN 12230.3   |
|                   |                   |                   | SEV DES 10909.9   | SEV DES 10355.3    | PAROMAN 16924.6    | LAKE 12205.0      |
|                   |                   |                   | LUND DIST 13447.0 | RILFORD 14346.7    | LUND DIST 11954.8  |                   |
|                   |                   |                   | STEPTOE 14881.5   | STEPTOE 14881.5    | CEDAR CITY 11054.5 |                   |
|                   |                   |                   | RUBY 12190.8      | MAN MAN 12995.8    | WHITE 10878.6      |                   |
|                   |                   |                   | PINE 10176.0      | RUBY 12344.0       |                    |                   |
|                   |                   |                   |                   | LUND DIST 11980.5  |                    |                   |
|                   |                   |                   |                   | CEDAR CITY 11043.1 |                    |                   |
|                   |                   |                   |                   | PINE 10909.9       |                    |                   |
|                   |                   |                   |                   | DEEP CRK 10837.7   |                    |                   |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for pronghorn key habitat.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 1        | Coyote Beryl   | 4,546                                   | 5,864                         | 964                       | 2                               |
| 2            | 2        | Coyote Delta   | 4,704                                   | 5,255                         | 864                       | 1                               |
| 3            | 0        | Coyote Milford | 5,116                                   | 5,825                         | 958                       | 3                               |
| 4            | 4        | Beryl Coyote   | 5,293                                   | 6,598                         | 1,085                     | 3                               |
| 5            | 6        | Milford Coyote | 6,036                                   | 6,740                         | 1,108                     | 5                               |
| 6            | 3        | Beryl Ely      | 8,142                                   | 8,007                         | 1,316                     | 6                               |
| 7            | 5        | Milford Ely    | 8,885                                   | 8,124                         | 1,336                     | 7                               |

3958

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

## EFFECT INDEX OF BASING ALTERNATIVES ON BIGHORN KEY HABITAT

ALTERNATIVE NO. 0  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: MILFORD LONG TERM POP. 13071.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 4    | 3.0   | SNAKE         | 132.0      | 225.0 | 178.5 | 7245.1                 | 1607.4  | 3764.2  | 43.0       | 112.0 | 77.5  | 12019.6                | 7400.2 | 9934.3 | 19264.7          | 9007.6  | 13718.4 |
| 137A | 2.0   | BIG SMOXY     | 149.0      | 194.0 | 171.5 | 1657.2                 | 343.0   | 794.0   | 211.0      | 258.0 | 234.5 | 139.1                  | 14.7   | 47.8   | 1796.3           | 357.7   | 841.8   |
| 173  | 1.0   | RAILROAD      | 63.0       | 171.0 | 127.0 | 959.5                  | 0.1     | 22.1    | 118.0      | 178.0 | 148.0 | 44.5                   | 0.0    | 1.7    | 1004.0           | 0.1     | 23.8    |
| 184  | 2.0   | SPRING        | 112.0      | 218.0 | 165.0 | 4439.4                 | 125.1   | 992.5   | 62.0       | 142.0 | 102.0 | 8830.0                 | 1670.0 | 4921.1 | 13269.4          | 1795.1  | 3913.6  |
| 209  | 1.0   | FAHRANAGAT    | 22.0       | 66.0  | 44.0  | 13104.7                | 2698.1  | 7245.1  | 108.0      | 138.0 | 123.0 | 111.9                  | 5.5    | 27.3   | 13216.6          | 2703.6  | 7272.5  |
| 210  | 1.0   | COYOTE        | 0.0        | 31.0  | 15.5  | 15967.0                | 10786.3 | 14475.6 | 123.0      | 103.0 | 131.5 | 27.2                   | 0.0    | 1.1    | 15994.2          | 10786.3 | 14475.6 |
| 205  | 2.0   | MEADOW V      | 8.0        | 64.0  | 36.0  | 15863.1                | 10512.5 | 13989.1 | 88.0       | 140.0 | 114.0 | 5931.0                 | 1769.0 | 3470.4 | 21794.1          | 12281.3 | 17459.5 |
| 206  | 1.0   | KANE SPR      | 16.0       | 48.0  | 32.0  | 14382.8                | 6234.6  | 10512.5 | 102.0      | 128.0 | 113.0 | 187.1                  | 16.3   | 59.2   | 14569.9          | 6230.9  | 10571.7 |
| 221  | 1.0   | TULE DES      | 34.0       | 56.0  | 45.0  | 9961.1                 | 4439.4  | 6986.6  | 88.0       | 112.0 | 100.0 | 554.1                  | 78.1   | 220.6  | 10515.2          | 4517.5  | 7207.2  |
| 222  | 2.0   | VIRGIN R      | 28.0       | 76.0  | 52.0  | 14739.4                | 8856.4  | 12117.0 | 68.0       | 142.0 | 105.0 | 8134.4                 | 1670.0 | 4243.5 | 22893.8          | 10526.6 | 16360.5 |
| 219  | 1.0   | MUDDY R       | 8.0        | 16.0  | 12.0  | 15555.3                | 14382.8 | 15055.6 | 136.0      | 150.0 | 143.0 | 6.9                    | 1.3    | 3.1    | 15562.2          | 14382.8 | 15055.6 |
| 216  | 2.0   | GARNET        | 16.0       | 36.0  | 26.0  | 15555.3                | 13989.1 | 14902.7 | 132.0      | 170.0 | 161.0 | 1237.2                 | 484.8  | 928.1  | 16792.5          | 14673.9 | 15830.6 |
| 217  | 2.0   | HIDDEN V N    | 16.0       | 28.0  | 22.0  | 15555.3                | 14739.4 | 15197.6 | 152.0      | 164.0 | 158.0 | 1237.2                 | 840.2  | 1023.3 | 16792.5          | 15979.4 | 16220.9 |
| 218  | 2.0   | CALIF WASH    | 14.0       | 40.0  | 27.0  | 15630.8                | 13561.8 | 14822.4 | 140.0      | 166.0 | 153.0 | 1769.0                 | 785.5  | 1159.3 | 17419.8          | 14247.8 | 16021.6 |
| 215  | 3.0   | BLACK MTS     | 36.0       | 60.0  | 48.0  | 15035.6                | 13561.8 | 14382.8 | 142.0      | 180.0 | 161.0 | 5237.9                 | 3007.2 | 4024.3 | 20293.3          | 16569.9 | 18417.4 |
| 223  | 3.0   | GOLD BUTTE    | 40.0       | 68.0  | 54.0  | 14849.4                | 12946.4 | 13989.1 | 128.0      | 164.0 | 146.0 | 6217.4                 | 3839.8 | 4971.3 | 21066.9          | 16806.2 | 18960.4 |
| 212  | 1.0   | LAS VEGAS     | 20.0       | 60.0  | 40.0  | 13561.8                | 3673.5  | 8310.0  | 160.0      | 200.0 | 180.0 | 0.4                    | 0.0    | 0.0    | 13562.2          | 3673.5  | 8310.1  |
| 211  | 1.0   | THREE LAK     | 20.0       | 60.0  | 40.0  | 13561.8                | 3673.5  | 8310.0  | 160.0      | 198.0 | 179.0 | 0.4                    | 0.0    | 0.0    | 13562.2          | 3673.5  | 8310.1  |
| 149B | 1.0   | TIKABOO S     | 8.0        | 42.0  | 25.0  | 15555.3                | 7772.0  | 12371.8 | 136.0      | 158.0 | 148.0 | 5.5                    | 0.5    | 1.7    | 15560.8          | 7772.5  | 12373.3 |
| 161  | 1.0   | INDIAN SPR    | 38.0       | 66.0  | 52.0  | 8856.4                 | 2698.1  | 5295.5  | 8.0        | 204.0 | 182.0 | 0.4                    | 0.0    | 0.0    | 8856.4           | 2698.1  | 5295.5  |
| 137B | 2.0   | BIG SMOXY     | 176.0      | 232.0 | 204.0 | 676.9                  | 65.8    | 228.5   | 212.0      | 238.0 | 225.0 | 133.2                  | 40.4   | 74.6   | 810.1            | 106.1   | 303.2   |
| 56   | 2.0   | UPPER REES    | 194.0      | 256.0 | 225.0 | 343.0                  | 19.9    | 91.1    | 232.0      | 254.0 | 243.0 | 55.8                   | 18.1   | 31.6   | 396.9            | 38.0    | 122.7   |

## EFFECT INDEX OF BASING ALTERNATIVES ON BIGHORN KEY HABITAT

ALTERNATIVE NO. 1  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: DERVY LONG TERM POP. 12834.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 4    | 3.0   | SNAKE         | 132.0      | 225.0 | 178.5 | 7245.1                 | 1607.4  | 3764.2  | 31.0       | 137.0 | 94.0  | 11406.0                | 5478.9 | 8596.6 | 18651.7          | 7086.2  | 12360.8 |
| 137A | 2.0   | BIG SMOXY     | 149.0      | 194.0 | 171.5 | 1657.2                 | 343.0   | 794.0   | 192.0      | 229.0 | 210.5 | 298.3                  | 60.9   | 139.5  | 1955.5           | 403.9   | 923.2   |
| 173  | 1.0   | RAILROAD      | 63.0       | 171.0 | 127.0 | 959.5                  | 0.1     | 22.1    | 98.0       | 149.0 | 123.5 | 254.6                  | 1.5    | 25.4   | 1214.2           | 1.6     | 47.5    |
| 184  | 2.0   | SPRING        | 112.0      | 218.0 | 165.0 | 4439.4                 | 125.1   | 992.5   | 49.0       | 151.0 | 100.0 | 10045.2                | 1252.9 | 4626.0 | 14488.7          | 1378.0  | 3616.5  |
| 209  | 1.0   | FAHRANAGAT    | 22.0       | 66.0  | 44.0  | 13104.7                | 2698.1  | 7245.1  | 74.0       | 100.0 | 87.0  | 1373.0                 | 216.6  | 584.3  | 14477.7          | 2914.8  | 7829.4  |
| 210  | 1.0   | COYOTE        | 0.0        | 31.0  | 15.5  | 15967.0                | 10786.3 | 14475.6 | 71.0       | 114.0 | 92.5  | 1639.8                 | 63.8   | 390.5  | 17606.8          | 10250.1 | 14866.1 |
| 205  | 2.0   | MEADOW V      | 8.0        | 64.0  | 36.0  | 15863.1                | 10512.5 | 13989.1 | 30.0       | 104.0 | 77.0  | 9944.3                 | 4256.4 | 7008.5 | 25807.3          | 14768.9 | 20997.4 |
| 206  | 1.0   | KANE SPR      | 16.0       | 48.0  | 32.0  | 14382.8                | 6234.6  | 10512.5 | 64.0       | 92.0  | 78.0  | 2411.5                 | 405.5  | 1071.3 | 16794.3          | 6640.1  | 11580.5 |
| 221  | 1.0   | TULE DES      | 34.0       | 56.0  | 45.0  | 9961.1                 | 4439.4  | 6986.6  | 80.0       | 76.0  | 63.0  | 4626.0                 | 1214.8 | 2539.6 | 14587.1          | 5654.2  | 9526.4  |
| 222  | 2.0   | VIRGIN R      | 28.0       | 76.0  | 52.0  | 14739.4                | 8856.4  | 12117.0 | 32.0       | 106.0 | 70.0  | 11560.7                | 3903.6 | 7784.2 | 26300.1          | 12759.9 | 19901.2 |
| 219  | 1.0   | MUDDY R       | 8.0        | 16.0  | 12.0  | 15555.3                | 14382.8 | 15055.6 | 118.0      | 112.0 | 65.0  | 11244.2                | 76.7   | 2287.8 | 26799.3          | 14459.5 | 17345.4 |
| 216  | 2.0   | GARNET        | 16.0       | 36.0  | 26.0  | 15555.3                | 13989.1 | 14902.7 | 116.0      | 134.0 | 125.0 | 3231.2                 | 2054.1 | 2605.7 | 18806.5          | 16043.2 | 17506.5 |
| 217  | 2.0   | HIDDEN V N    | 16.0       | 28.0  | 22.0  | 15555.3                | 14739.4 | 15197.6 | 114.0      | 128.0 | 121.0 | 3407.5                 | 2411.5 | 2880.9 | 18962.8          | 17150.9 | 18076.5 |
| 218  | 2.0   | CALIF WASH    | 14.0       | 40.0  | 27.0  | 15630.8                | 13561.8 | 14822.4 | 104.0      | 132.0 | 118.0 | 4256.4                 | 2168.7 | 3099.6 | 19907.2          | 15730.3 | 17922.0 |
| 215  | 3.0   | BLACK MTS     | 36.0       | 60.0  | 48.0  | 15035.6                | 13561.8 | 14382.8 | 108.0      | 144.0 | 126.0 | 7561.9                 | 5011.5 | 6247.0 | 22617.4          | 18873.1 | 20659.6 |
| 223  | 3.0   | GOLD BUTTE    | 40.0       | 68.0  | 54.0  | 14849.4                | 12946.4 | 13989.1 | 94.0       | 132.0 | 114.0 | 6449.8                 | 5822.5 | 7116.6 | 23299.2          | 18769.9 | 21107.7 |
| 212  | 1.0   | LAS VEGAS     | 20.0       | 60.0  | 40.0  | 13561.8                | 3673.5  | 8310.0  | 122.0      | 164.0 | 143.0 | 29.5                   | 0.2    | 0.0    | 13591.3          | 3673.7  | 8313.1  |
| 211  | 1.0   | THREE LAK     | 20.0       | 60.0  | 40.0  | 13561.8                | 3673.5  | 8310.0  | 122.0      | 160.0 | 141.0 | 29.5                   | 0.4    | 0.0    | 13591.3          | 3673.8  | 8313.9  |
| 149B | 1.0   | TIKABOO S     | 8.0        | 42.0  | 25.0  | 15555.3                | 7772.0  | 12371.8 | 100.0      | 120.0 | 110.0 | 216.6                  | 36.0   | 91.9   | 15771.9          | 7807.9  | 12462.8 |
| 161  | 1.0   | INDIAN SPR    | 38.0       | 66.0  | 52.0  | 8856.4                 | 2698.1  | 5295.5  | 8.0        | 166.0 | 145.0 | 26.1                   | 0.2    | 2.4    | 8880.5           | 2698.3  | 5297.9  |
| 137B | 2.0   | BIG SMOXY     | 176.0      | 232.0 | 204.0 | 676.9                  | 65.8    | 228.5   | 192.0      | 222.0 | 207.0 | 298.3                  | 84.0   | 162.0  | 975.2            | 149.8   | 390.5   |
| 56   | 2.0   | UPPER REES    | 194.0      | 256.0 | 225.0 | 343.0                  | 19.9    | 91.1    | 212.0      | 244.0 | 228.0 | 130.8                  | 29.5   | 63.8   | 473.9            | 49.4    | 154.9   |

## EFFECT INDEX OF BASING ALTERNATIVES ON BIGHORN KEY HABITAT

ALTERNATIVE NO. 2  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: DELTA LONG TERM POP. 13679.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|---------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0   | SNAKE         | 132.0      | 225.0 | 178.5 | 7245.1                 | 1607.4  | 3764.2  | 35.0       | 77.0  | 56.0  | 12939.8                | 10493.9 | 11865.6 | 20184.8          | 12061.3 | 15629.7 |
| 137A | 2.0   | BIG SMOXY     | 149.0      | 194.0 | 171.5 | 1657.2                 | 343.0   | 794.0   | 222.0      | 278.0 | 250.0 | 89.5                   | 3.1     | 23.2    | 1746.7           | 348.2   | 817.2   |
| 173  | 1.0   | RAILROAD      | 63.0       | 171.0 | 127.0 | 959.5                  | 0.1     | 22.1    | 126.0      | 209.0 | 167.5 | 21.0                   | 0.0     | 0.1     | 980.5            | 0.1     | 22.2    |
| 184  | 2.0   | SPRING        | 112.0      | 218.0 | 165.0 | 4439.4                 | 125.1   | 992.5   | 65.0       | 98.0  | 81.5  | 8888.3                 | 3133.9  | 6945.4  | 13327.8          | 5259.0  | 7927.9  |
| 209  | 1.0   | FAHRANAGAT    | 22.0       | 66.0  | 44.0  | 13104.7                | 2698.1  | 7245.1  | 131.0      | 189.0 | 170.0 | 1.2                    | 0.0     | 0.1     | 15106.0          | 2698.2  | 7245.2  |
| 210  | 1.0   | COYOTE        | 0.0        | 31.0  | 15.5  | 15967.0                | 10786.3 | 14475.6 | 171.0      | 263.0 | 217.0 | 0.1                    | 0.0     | 0.1     | 15967.1          | 10786.3 | 14475.6 |
| 205  | 2.0   | MEADOW V      | 8.0        | 64.0  | 36.0  | 15863.1                | 10512.5 | 13989.1 | 156.0      | 214.0 | 185.0 | 1141.8                 | 127.8   | 416.2   | 17004.9          | 10640.3 | 14405.4 |
| 206  | 1.0   | KANE SPR      | 16.0       | 48.0  | 32.0  | 14382.8                | 6234.6  | 10512.5 | 172.0      | 200.0 | 186.0 | 0.1                    | 0.0     | 0.1     | 14382.9          | 6234.4  | 10512.5 |
| 221  | 1.0   | TULE DES      | 34.0       | 56.0  | 45.0  | 9961.1                 | 4439.4  | 6986.6  | 162.0      | 186.0 | 174.0 | 0.3                    | 0.0     | 0.1     | 9961.4           | 4439.4  | 6986.7  |
| 222  | 2.0   | VIRGIN R      | 28.0       | 76.0  | 52.0  | 14739.4                | 8856.4  | 12117.0 | 140.0      | 220.0 | 180.0 | 1851.3                 | 98.0    | 501.4   | 16590.7          | 8954.4  | 12618.4 |
| 219  | 1.0   | MUDDY R       | 8.0        | 16.0  | 12.0  | 15555.3                | 14382.8 | 15055.6 | 208.0      | 224.0 | 216.0 | 0.0                    | 0.0     | 0.0     | 15555.3          | 14382.8 | 15055.6 |
| 216  | 2.0   | GARNET        | 16.0       | 36.0  | 26.0  | 15555.3                | 13989.1 | 14902.7 | 226.0      | 244.0 | 235.0 | 74.6                   | 31.5    | 48.8    | 15629.9          | 14781.6 | 15253.9 |
| 217  | 2.0   | HIDDEN V N    | 16.0       | 28.0  | 22.0  | 15555.3                | 14739.4 | 15197.6 | 226.0      | 238.0 | 232.0 | 74.6                   | 42.3    | 56.3    | 15629.9          | 15096.6 | 14890.3 |
| 218  | 2.0   | CALIF WASH    | 14.0       | 40.0  | 27.0  | 15630.8                | 13561.8 | 14822.4 | 214.0      | 242.0 | 228.0 | 127.8                  | 34.7    | 68.0    | 15778.6          | 13996.6 | 14890.3 |
| 215  | 3.0   | BLACK MTS     | 36.0       | 60.0  | 48.0  | 15035.6                | 13561.8 | 14382.8 | 220.0      | 256.0 | 238.0 | 1523.3                 | 700.3   | 1048.1  | 16578.8          | 14262.1 | 15320.9 |

## EFFECT INDEX OF BASING ALTERNATIVES ON BIGHORN KEY HABITAT

ALTERNATIVE NO. 3  
 BASE A: BERYL LONG TERM POP. 16943.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|--------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0   | SNAKE         | 31.0       | 137.0 | 94.0  | 15037.8                | 7233.0 | 11349.0 | 25.0       | 89.0  | 57.0  | 13946.0                | 10017.3 | 12381.4 | 29003.8          | 17250.3 | 23730.4 |
| 137A | 2.0   | BIG SPOKY     | 192.0      | 229.0 | 210.5 | 393.9                  | 80.4   | 184.2   | 123.0      | 183.0 | 153.0 | 3064.1                 | 470.6   | 1316.4  | 3458.0           | 551.0   | 1500.4  |
| 173  | 1.0   | RAILROAD      | 98.0       | 149.0 | 123.5 | 326.2                  | 2.0    | 33.5    | 29.0       | 126.0 | 77.5  | 10178.5                | 22.0    | 1236.2  | 1031.6           | 24.0    | 1269.7  |
| 184  | 2.0   | SPRING        | 49.0       | 151.0 | 100.0 | 13261.4                | 1654.0 | 6107.1  | 9.0        | 64.0  | 36.5  | 14228.9                | 9445.9  | 12523.4 | 27490.3          | 11100.0 | 18620.4 |
| 209  | 1.0   | PAHRANAGAT    | 74.0       | 100.0 | 87.0  | 1812.6                 | 286.0  | 771.4   | 97.0       | 138.0 | 117.5 | 308.2                  | 6.0     | 51.2    | 2120.8           | 292.0   | 822.4   |
| 210  | 1.0   | COYOTE        | 71.0       | 114.0 | 92.5  | 2164.7                 | 84.2   | 315.6   | 132.0      | 243.0 | 187.5 | 11.7                   | 0.0     | 0.0     | 2176.4           | 84.2    | 515.6   |
| 205  | 2.0   | MEADOW V      | 30.0       | 104.0 | 77.0  | 13123.9                | 3619.2 | 9252.1  | 110.0      | 178.0 | 144.0 | 4173.9                 | 565.8   | 1729.1  | 17302.0          | 6185.0  | 10781.3 |
| 206  | 1.0   | HANE SPR      | 64.0       | 92.0  | 78.0  | 3183.4                 | 535.3  | 1414.2  | 124.0      | 152.0 | 138.0 | 27.0                   | 1.2     | 6.0     | 3210.6           | 536.5   | 1420.3  |
| 221  | 1.0   | TULE DES      | 30.0       | 76.0  | 63.0  | 6107.1                 | 1603.7 | 3353.0  | 34.0       | 56.0  | 45.0  | 9.4                    | 0.5     | 2.4     | 6116.5           | 1604.2  | 3355.4  |
| 222  | 2.0   | VIRGIN R      | 32.0       | 108.0 | 70.0  | 15262.0                | 3153.4 | 10276.4 | 120.0      | 192.0 | 156.0 | 3300.8                 | 333.5   | 1197.5  | 18562.7          | 5486.9  | 11474.0 |
| 219  | 1.0   | PUDDY R       | 18.0       | 112.0 | 63.0  | 14844.2                | 101.3  | 3020.3  | 166.0      | 178.0 | 172.0 | 0.2                    | 0.0     | 0.1     | 14844.4          | 101.3   | 3020.4  |
| 216  | 2.0   | GARNET        | 116.0      | 124.0 | 125.0 | 4292.2                 | 2711.8 | 3440.0  | 182.0      | 202.0 | 192.0 | 488.5                  | 223.1   | 333.5   | 4780.7           | 2934.9  | 3773.5  |
| 217  | 2.0   | HIDDEN V N    | 114.0      | 128.0 | 121.0 | 4498.4                 | 3183.6 | 3803.3  | 182.0      | 192.0 | 187.0 | 488.5                  | 333.5   | 404.7   | 4986.9           | 3517.1  | 4208.0  |
| 218  | 2.0   | CALIF WASH    | 104.0      | 132.0 | 118.0 | 3619.2                 | 2863.1 | 4092.0  | 176.0      | 204.0 | 190.0 | 608.2                  | 205.4   | 360.5   | 6227.3           | 3068.4  | 4452.8  |
| 215  | 3.0   | BLACK MTNS    | 108.0      | 144.0 | 126.0 | 9982.9                 | 6615.7 | 8247.0  | 190.0      | 210.0 | 200.0 | 2790.9                 | 1941.7  | 2338.4  | 12773.8          | 8537.4  | 10585.9 |
| 223  | 3.0   | GOLD BUTTE    | 94.0       | 132.0 | 114.0 | 11155.1                | 7687.9 | 9397.7  | 186.0      | 218.0 | 202.0 | 2997.9                 | 1662.4  | 2254.7  | 14143.0          | 9230.3  | 11652.4 |
| 212  | 1.0   | LAS VEGAS     | 122.0      | 164.0 | 143.0 | 39.0                   | 0.3    | 4.0     | 180.0      | 216.0 | 198.0 | 0.0                    | 0.0     | 0.0     | 39.0             | 0.3     | 4.0     |
| 211  | 1.0   | THREE LAM     | 122.0      | 160.0 | 141.0 | 39.0                   | 0.5    | 3.1     | 174.0      | 206.0 | 190.0 | 0.1                    | 0.0     | 0.0     | 39.0             | 0.5     | 3.1     |
| 169B | 1.0   | TINABOO S     | 100.0      | 120.0 | 110.0 | 286.0                  | 47.5   | 121.4   | 136.0      | 176.0 | 156.0 | 7.4                    | 0.0     | 0.7     | 293.5            | 47.5    | 122.1   |
| 161  | 1.0   | INDIAN SPR    | 124.0      | 164.0 | 145.0 | 31.9                   | 0.2    | 3.2     | 154.0      | 206.0 | 180.0 | 0.9                    | 0.0     | 0.0     | 32.8             | 0.2     | 3.2     |
| 137B | 2.0   | BIG SPOKY     | 192.0      | 222.0 | 207.0 | 393.9                  | 110.9  | 213.8   | 108.0      | 142.0 | 125.0 | 4363.8                 | 1833.1  | 2912.9  | 4757.6           | 1944.0  | 3126.8  |
| 56   | 2.0   | UPPER REES    | 212.0      | 244.0 | 228.0 | 172.7                  | 39.0   | 84.2    | 126.0      | 152.0 | 139.0 | 2839.3                 | 1358.0  | 1997.7  | 3011.9           | 1396.9  | 2081.9  |

## EFFECT INDEX OF BASING ALTERNATIVES ON BIGHORN KEY HABITAT

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP. 16943.0  
 BASE B: COYOTE LONG TERM POP. 12195.0

| NO.  | APPL. | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|-------|---------------|------------|-------|-------|------------------------|--------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |       |               | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0   | SNAKE         | 31.0       | 137.0 | 94.0  | 15037.8                | 7233.0 | 11349.0 | 132.0      | 225.0 | 178.5 | 5533.5                 | 1227.7  | 2874.9  | 20591.3          | 8460.7  | 14227.7 |
| 137A | 2.0   | BIG SPOKY     | 192.0      | 229.0 | 210.5 | 393.9                  | 80.4   | 184.2   | 149.0      | 194.0 | 171.5 | 1265.7                 | 262.0   | 606.4   | 1659.5           | 342.4   | 790.7   |
| 173  | 1.0   | RAILROAD      | 98.0       | 149.0 | 123.5 | 326.2                  | 2.0    | 33.5    | 83.0       | 171.0 | 127.0 | 732.9                  | 0.1     | 16.9    | 1069.0           | 2.0     | 30.7    |
| 184  | 2.0   | SPRING        | 49.0       | 151.0 | 100.0 | 13261.4                | 1654.0 | 6107.1  | 112.0      | 218.0 | 165.0 | 3390.7                 | 95.5    | 758.0   | 16652.0          | 1749.6  | 6865.1  |
| 209  | 1.0   | PAHRANAGAT    | 74.0       | 100.0 | 87.0  | 1812.6                 | 286.0  | 771.4   | 22.0       | 66.0  | 44.0  | 10006.9                | 3060.9  | 5533.5  | 11821.9          | 2348.7  | 6204.9  |
| 210  | 1.0   | COYOTE        | 71.0       | 114.0 | 92.5  | 2164.7                 | 84.2   | 315.6   | 0.0        | 31.0  | 15.5  | 12195.0                | 8238.2  | 11053.9 | 14359.7          | 8322.4  | 11571.5 |
| 205  | 2.0   | MEADOW V      | 30.0       | 104.0 | 77.0  | 13123.9                | 3619.2 | 9252.1  | 8.0        | 64.0  | 36.0  | 12115.4                | 8029.1  | 10684.4 | 25243.7          | 13648.2 | 19936.5 |
| 206  | 1.0   | HANE SPR      | 64.0       | 92.0  | 78.0  | 3183.4                 | 535.3  | 1414.2  | 16.0       | 48.0  | 32.0  | 10985.1                | 4761.8  | 8029.1  | 14168.7          | 5297.1  | 9443.3  |
| 221  | 1.0   | TULE DES      | 30.0       | 76.0  | 63.0  | 6107.1                 | 1603.7 | 3353.0  | 34.0       | 56.0  | 45.0  | 7607.9                 | 3390.7  | 5336.1  | 13715.0          | 4994.5  | 8669.1  |
| 222  | 2.0   | VIRGIN R      | 32.0       | 108.0 | 70.0  | 15262.0                | 3153.4 | 10276.4 | 28.0       | 76.0  | 52.0  | 11257.4                | 6764.2  | 9254.5  | 26519.4          | 11917.5 | 19530.9 |
| 219  | 1.0   | PUDDY R       | 18.0       | 112.0 | 63.0  | 14844.2                | 101.3  | 3020.3  | 8.0        | 16.0  | 12.0  | 11880.6                | 10985.1 | 11498.9 | 26724.8          | 11086.3 | 14519.2 |
| 216  | 2.0   | GARNET        | 116.0      | 124.0 | 125.0 | 4292.2                 | 2711.8 | 3440.0  | 16.0       | 36.0  | 26.0  | 11880.6                | 10684.4 | 11382.2 | 16172.7          | 13296.2 | 14822.1 |
| 217  | 2.0   | HIDDEN V N    | 114.0      | 128.0 | 121.0 | 4498.4                 | 3183.6 | 3803.3  | 16.0       | 28.0  | 22.0  | 11880.6                | 11257.4 | 11607.3 | 16379.0          | 14441.0 | 15410.7 |
| 218  | 2.0   | CALIF WASH    | 104.0      | 132.0 | 118.0 | 3619.2                 | 2863.1 | 4092.0  | 176.0      | 40.0  | 27.0  | 11953.5                | 10358.0 | 11320.8 | 17572.7          | 13321.1 | 15412.8 |
| 215  | 3.0   | BLACK MTNS    | 108.0      | 144.0 | 126.0 | 9982.9                 | 6615.7 | 8247.0  | 36.0       | 60.0  | 48.0  | 11488.9                | 10358.0 | 10985.1 | 21461.8          | 16973.7 | 19232.1 |
| 223  | 3.0   | GOLD BUTTE    | 94.0       | 132.0 | 114.0 | 11155.1                | 7687.9 | 9397.7  | 40.0       | 68.0  | 54.0  | 11361.4                | 9888.0  | 10684.4 | 22466.5          | 17575.9 | 20085.1 |
| 212  | 1.0   | LAS VEGAS     | 122.0      | 164.0 | 143.0 | 39.0                   | 0.3    | 4.0     | 20.0       | 60.0  | 40.0  | 10358.0                | 2805.7  | 6346.9  | 10397.0          | 2805.9  | 6350.9  |
| 211  | 1.0   | THREE LAM     | 122.0      | 160.0 | 141.0 | 39.0                   | 0.5    | 3.1     | 20.0       | 60.0  | 40.0  | 10358.0                | 2805.7  | 6346.9  | 10397.0          | 2806.1  | 6352.0  |
| 169B | 1.0   | TINABOO S     | 100.0      | 120.0 | 110.0 | 286.0                  | 47.5   | 121.4   | 8.0        | 42.0  | 25.0  | 11880.6                | 5923.9  | 9449.1  | 12166.6          | 5983.4  | 9570.5  |
| 161  | 1.0   | INDIAN SPR    | 124.0      | 164.0 | 145.0 | 31.9                   | 0.2    | 3.2     | 38.0       | 66.0  | 52.0  | 6764.2                 | 2060.7  | 4044.5  | 6796.0           | 2061.0  | 4047.7  |
| 137B | 2.0   | BIG SPOKY     | 192.0      | 222.0 | 207.0 | 393.9                  | 110.9  | 213.8   | 176.0      | 232.0 | 204.0 | 517.0                  | 50.2    | 174.4   | 910.8            | 161.1   | 368.4   |
| 56   | 2.0   | UPPER REES    | 212.0      | 244.0 | 228.0 | 172.7                  | 39.0   | 84.2    | 194.0      | 256.0 | 225.0 | 262.0                  | 15.2    | 69.4    | 424.7            | 54.2    | 153.8   |

## EFFECT INDEX OF BASING ALTERNATIVES ON BIGHORN KEY HABITAT

ALTERNATIVE NO. 5  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO   | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|------|---------------|------------|-------|-------|------------------------|--------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |      |               | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0  | SNAKE         | 43.0       | 112.0 | 77.5  | 13835.8                | 9749.7 | 13114.7 | 25.0       | 89.0  | 57.0  | 13946.0                | 10017.3 | 12381.4 | 29781.9          | 19767.0 | 23496.1 |
| 137A | 2.0  | BIG SPOKY     | 211.0      | 258.0 | 234.5 | 183.3                  | 19.3   | 63.0    | 123.0      | 183.0 | 153.0 | 3064.1                 | 470.6   | 1316.4  | 3247.4           | 489.9   | 1379.3  |
| 173  | 1.0  | RAILROAD      | 118.0      | 178.0 | 148.0 | 38.4                   | 0.0    | 2.3     | 29.0       | 126.0 | 77.5  | 10178.5                | 22.0    | 1236.2  | 10237.1          | 22.0    | 1238.4  |
| 184  | 2.0  | SPRING        | 62.0       | 142.0 | 102.0 | 11633.5                | 2200.3 | 5954.8  | 9.0        | 64.0  | 36.5  | 14228.9                | 9445.9  | 12523.4 | 23862.4          | 11646.2 | 18480.0 |
| 209  | 1.0  | PAHRANAGAT    | 108.0      | 138.0 | 123.0 | 147.4                  | 7.2    | 35.8    | 97.0       | 138.0 | 117.5 | 308.2                  | 6.0     | 51.2    | 455.6            | 13.3    | 87.0    |
| 210  | 1.0  | COYOTE        | 123.0      | 180.0 | 151.5 | 35.8                   | 0.0    | 1.5     | 132.0      | 243.0 | 187.5 | 11.7                   | 0.0     | 0.0     | 47.5             | 0.0     | 1.5     |
| 205  | 2.0  | MEADOW        | 88.0       | 140.0 | 114.0 | 7814.1                 | 2330.4 | 4572.3  | 110.0      | 178.0 | 144.0 | 4173.9                 | 565.8   | 1729.1  | 11908.0          | 2896.4  | 6301.4  |
| 206  | 1.0  | HANE SPR      | 102.0      | 128.0 | 115.0 | 244.5                  | 21.5   | 77.9    | 124.0      | 152.0 | 138.0 | 27.0                   | 1.2     | 6.0     | 273.5            | 22.6    | 84.0    |
| 221  | 1.0  | TULE DES      | 88.0       | 112.0 | 100.0 | 730.0                  | 102.9  | 290.7   | 124.0      | 158.0 | 146.0 | 9.4                    | 0.5     | 2.4     | 739.9            | 103.5   | 293.1   |
| 222  | 2.0  | VIRGIN R      | 68.0       | 142.0 | 105.0 | 10743.4                | 2200.3 | 5990.8  | 120.0      | 192.0 | 156.0 | 3300.8                 | 333.5   | 1197.5  | 14044.2          | 2533.8  | 6788.9  |
| 219  | 1.0  | PUDDY R       | 136.0      | 150.0 | 143.0 | 9.1                    | 1.8    | 4.1     | 166.0      | 178.0 | 172.0 | 0.2                    | 0.0     | 0.1     | 9.5              | 1.8     | 4.2     |
| 216  | 2.0  | GARNET        | 152.0      | 170.0 | 161.0 | 1630.0                 | 903.3  | 1222.8  | 182.0      | 202.0 | 192.0 | 488.5                  | 223.1   | 333.5   | 2116.5           | 1123.4  | 1556.2  |
| 217  | 2.0  | HIDDEN V N    | 152.0      | 184.0 | 168.0 | 1630.0                 | 1107.0 | 1348.2  | 182.0      | 192.0 | 187.0 | 488.5                  | 333.5   | 404.7   | 2116.5           | 1440.5  | 1752.9  |
| 218  | 2.0  | CALIF WASH    | 140.0      | 166.0 | 153.0 | 2230.6                 | 1034.9 | 1580.0  | 176.0      | 204.0 | 190.0 | 608.2                  | 205.4   | 360.5   | 2938.9           | 1240.2  | 1940.6  |
| 215  | 3.0  | BLACK MTNS    | 142.0      | 180.0 | 161.0 | 6901.0                 | 3962.0 | 5313.2  | 190.0      | 210.0 | 200.0 | 2790.9                 | 1941.7  | 2338.4  | 9691.8           | 3903.3  | 7633.7  |
| 223  | 3.0  | GOLD BUTTE    | 128.0      | 164.0 | 144.0 | 8191.5                 | 3087.7 | 6549.9  | 180.0      | 218.0 | 202.0 | 2987.9                 | 1662.4  | 2234.7  | 11174.3          | 6747.7  | 8804.4  |
| 212  | 1.0  | LAS VEGAS     | 160.0      | 200.0 | 180.0 | 0.5                    | 0.0    | 0.0     | 180.0      | 206.0 | 190.0 | 0.1                    | 0.0     | 0.0     | 0.5              | 0.0     | 0.0     |
| 211  | 1.0  | THREE LAK     | 160.0      | 198.0 | 179.0 | 0.5                    | 0.0    | 0.0     | 174.0      | 206.0 | 190.0 | 0.1                    | 0.0     | 0.0     | 0.5              | 0.0     | 0.0     |
| 149B | 1.0  | TIARBOO S     | 138.0      | 158.0 | 146.0 | 7.2                    | 0.4    | 2.3     | 134.0      | 176.0 | 156.0 | 7.6                    | 0.0     | 0.7     | 16.8             | 0.0     | 0.0     |
| 161  | 1.0  | INDIAN SPR    | 160.0      | 204.0 | 182.0 | 0.5                    | 0.0    | 0.0     | 194.0      | 206.0 | 180.0 | 0.9                    | 0.0     | 0.1     | 1.4              | 0.0     | 0.0     |
| 137B | 2.0  | BIG SPOKY     | 212.0      | 258.0 | 225.0 | 175.5                  | 53.2   | 98.3    | 108.0      | 148.0 | 125.0 | 4362.8                 | 1833.1  | 2912.9  | 4539.3           | 1864.3  | 3011.2  |
| 96   | 2.0  | UPPER REES    | 232.0      | 294.0 | 243.0 | 70.9                   | 23.8   | 41.6    | 126.0      | 152.0 | 139.0 | 2839.3                 | 1398.0  | 1997.7  | 2910.2           | 1381.8  | 2039.3  |

## EFFECT INDEX OF LUSING ALTERNATIVES ON BIGHORN KEY HABITAT

ALTERNATIVE NO. 4  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: COYOTE LONG TERM POP. 12193.0

| NO   | APPL | LOCATION NAME | MILES TO A |       |       | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|------|------|---------------|------------|-------|-------|------------------------|--------|---------|------------|-------|-------|------------------------|---------|---------|------------------|---------|---------|
|      |      |               | N          | F     | AVE   | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 4    | 3.0  | SNAKE         | 43.0       | 112.0 | 77.3  | 15835.8                | 9749.7 | 13114.7 | 122.0      | 223.0 | 178.3 | 5533.3                 | 1227.7  | 2874.9  | 21369.3          | 10977.4 | 15989.7 |
| 137A | 2.0  | BIG SMOXY     | 211.0      | 238.0 | 234.3 | 183.3                  | 19.3   | 63.0    | 149.0      | 194.0 | 171.3 | 1265.7                 | 262.0   | 606.4   | 1449.0           | 281.3   | 669.4   |
| 173  | 1.0  | RAILROAD      | 118.0      | 178.0 | 148.0 | 58.6                   | 0.0    | 2.3     | 83.0       | 171.0 | 127.0 | 732.9                  | 0.1     | 16.9    | 791.4            | 0.1     | 19.1    |
| 184  | 2.0  | SPRING        | 62.0       | 142.0 | 102.0 | 11633.3                | 2200.3 | 5956.6  | 112.0      | 218.0 | 163.0 | 3390.7                 | 93.3    | 758.0   | 13024.1          | 2293.8  | 6714.6  |
| 209  | 1.0  | PAHRANAGAT    | 108.0      | 138.0 | 123.0 | 147.4                  | 7.2    | 35.8    | 22.0       | 66.0  | 44.0  | 10008.9                | 2060.7  | 3333.3  | 10136.3          | 2068.0  | 5569.3  |
| 210  | 1.0  | COYOTE        | 123.0      | 180.0 | 131.3 | 35.8                   | 0.0    | 1.3     | 0.0        | 31.0  | 13.3  | 12193.0                | 8238.2  | 11033.9 | 12330.8          | 8238.2  | 11037.4 |
| 205  | 2.0  | MEADOW V      | 88.0       | 140.0 | 114.0 | 7814.1                 | 2330.4 | 4572.3  | 8.0        | 64.0  | 36.0  | 12115.4                | 8029.1  | 10664.4 | 19929.7          | 10354.7 | 15236.4 |
| 204  | 1.0  | HANE SPR      | 102.0      | 128.0 | 115.0 | 246.3                  | 21.3   | 77.9    | 16.0       | 48.0  | 32.0  | 10983.1                | 4761.8  | 8029.1  | 11231.6          | 4783.2  | 8107.0  |
| 221  | 1.0  | TULE DES      | 68.0       | 112.0 | 100.0 | 730.0                  | 102.9  | 290.7   | 34.0       | 56.0  | 45.0  | 7607.9                 | 3390.7  | 3336.1  | 8337.9           | 3493.6  | 5626.6  |
| 222  | 2.0  | VIRGIN R      | 68.0       | 142.0 | 103.0 | 10743.4                | 2200.3 | 3590.8  | 28.0       | 76.0  | 52.0  | 11237.4                | 6764.2  | 9234.3  | 22000.8          | 6964.4  | 14845.3 |
| 219  | 1.0  | MUDDY R       | 136.0      | 150.0 | 143.0 | 9.1                    | 1.8    | 4.1     | 8.0        | 16.0  | 12.0  | 11880.6                | 10983.1 | 11498.9 | 11889.6          | 10984.8 | 11503.0 |
| 214  | 2.0  | GARNET        | 152.0      | 170.0 | 161.0 | 1630.0                 | 902.3  | 1222.8  | 16.0       | 36.0  | 26.0  | 11880.6                | 10684.4 | 11382.2 | 13510.6          | 11586.6 | 12604.9 |
| 217  | 2.0  | HIDDEN V N    | 152.0      | 164.0 | 158.0 | 1630.0                 | 1107.0 | 1348.2  | 16.0       | 28.0  | 22.0  | 11880.6                | 11257.4 | 11607.3 | 13510.6          | 12364.4 | 12955.6 |
| 218  | 2.0  | CALIF WASH    | 140.0      | 166.0 | 153.0 | 2330.4                 | 1034.9 | 1580.0  | 14.0       | 40.0  | 27.0  | 11933.3                | 10338.0 | 11320.8 | 14284.1          | 11392.9 | 12900.8 |
| 215  | 3.0  | BLACK MTNS    | 142.0      | 180.0 | 161.0 | 6901.0                 | 3962.0 | 3313.2  | 36.0       | 60.0  | 48.0  | 11498.9                | 10338.0 | 10983.1 | 18399.9          | 14320.0 | 16300.3 |
| 223  | 3.0  | GOLD BUTTE    | 128.0      | 164.0 | 146.0 | 8191.3                 | 3085.3 | 6549.7  | 40.0       | 68.0  | 54.0  | 11341.4                | 9888.0  | 10684.4 | 19332.9          | 14973.3 | 17234.1 |
| 212  | 1.0  | LAS VEGAS     | 160.0      | 200.0 | 180.0 | 0.3                    | 0.0    | 0.0     | 20.0       | 60.0  | 40.0  | 10338.0                | 2803.7  | 6346.9  | 10338.0          | 2803.7  | 6346.9  |
| 211  | 1.0  | THREE LAK     | 160.0      | 198.0 | 179.0 | 0.3                    | 0.0    | 0.0     | 20.0       | 60.0  | 40.0  | 10338.0                | 2803.7  | 6346.9  | 10338.0          | 2803.7  | 6346.9  |
| 149B | 1.0  | TIKABOO S     | 138.0      | 158.0 | 148.0 | 7.2                    | 0.6    | 2.3     | 8.0        | 42.0  | 25.0  | 11880.6                | 5933.9  | 9449.1  | 11887.8          | 5936.6  | 9451.4  |
| 161  | 1.0  | INDIAN SPR    | 160.0      | 204.0 | 182.0 | 0.3                    | 0.0    | 0.0     | 38.0       | 64.0  | 52.0  | 6764.2                 | 2060.7  | 4044.3  | 6764.2           | 2060.7  | 4044.3  |
| 137B | 2.0  | BIG SMOXY     | 212.0      | 238.0 | 225.0 | 175.3                  | 33.2   | 98.3    | 176.0      | 232.0 | 204.0 | 517.0                  | 30.2    | 174.6   | 692.3            | 103.4   | 272.9   |
| 56   | 2.0  | UPPER REES    | 232.0      | 234.0 | 243.0 | 70.9                   | 23.8   | 41.6    | 194.0      | 236.0 | 223.0 | 262.0                  | 13.2    | 69.6    | 332.9            | 39.0    | 111.2   |

## COMBINED AVERAGE EFFECT INDEXES OF LUSING ALTERNATIVES ON BIGHORN KEY HABITAT

| NO.  | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |         |         |         |         |
|------|---------------|--------|-------------------------------------|---------|---------|---------|---------|---------|
|      |               |        | 0                                   | 1       | 2       | 3       | 4       | 5       |
| 4    | SNAKE         | 3.0    | 13718.4                             | 12360.8 | 15629.7 | 23730.4 | 14223.9 | 23496.1 |
| 137A | BIG SMOXY     | 2.0    | 841.8                               | 933.3   | 817.2   | 1500.6  | 790.6   | 137.3   |
| 173  | RAILROAD      | 1.0    | 23.8                                | 47.3    | 22.2    | 1269.7  | 30.4    | 1238.4  |
| 184  | SPRING        | 2.0    | 5513.6                              | 5618.5  | 7937.9  | 18630.4 | 4865.1  | 18480.0 |
| 209  | PAHRANAGAT    | 1.0    | 7272.3                              | 7829.4  | 7245.2  | 822.6   | 6304.9  | 87.0    |
| 210  | COYOTE        | 1.0    | 14476.7                             | 14866.1 | 14475.6 | 515.6   | 11571.3 | 1.3     |
| 205  | MEADOW V      | 2.0    | 17459.3                             | 20997.4 | 14405.4 | 10981.3 | 19936.3 | 6301.4  |
| 204  | HANE SPR      | 1.0    | 10571.7                             | 11583.8 | 10512.3 | 1420.3  | 9443.3  | 84.0    |
| 221  | TULE DES      | 1.0    | 7207.2                              | 9526.4  | 6986.7  | 3255.4  | 8689.1  | 293.1   |
| 222  | VIRGIN R      | 2.0    | 16360.3                             | 19901.2 | 12618.4 | 11474.0 | 19330.9 | 6788.4  |
| 219  | MUDDY R       | 1.0    | 13058.7                             | 17343.4 | 15055.6 | 3020.4  | 14319.2 | 4.2     |
| 214  | GARNET        | 2.0    | 15830.8                             | 17508.3 | 14951.6 | 3773.3  | 14822.1 | 1556.3  |
| 217  | HIDDEN V N    | 2.0    | 16220.9                             | 18078.3 | 15253.9 | 4208.0  | 13410.7 | 1732.9  |
| 218  | CALIF WASH    | 2.0    | 16021.6                             | 17922.0 | 14870.3 | 4452.6  | 13412.8 | 1940.6  |
| 215  | BLACK MTNS    | 3.0    | 18417.1                             | 20629.8 | 15430.9 | 10585.3 | 19232.1 | 7653.7  |
| 223  | GOLD BUTTE    | 3.0    | 16960.4                             | 21107.7 | 15394.3 | 11632.4 | 20082.1 | 8804.4  |
| 212  | LAS VEGAS     | 1.0    | 8310.1                              | 8313.1  | 8310.0  | 4.0     | 6350.9  | 0.0     |
| 211  | THREE LAK     | 1.0    | 8310.1                              | 8313.1  | 8310.0  | 5.1     | 6352.0  | 0.0     |
| 149B | TIKABOO S     | 1.0    | 12373.3                             | 12463.8 | 12371.8 | 122.1   | 9370.3  | 3.0     |
| 161  | INDIAN SPR    | 1.0    | 5293.3                              | 5297.9  | 5293.3  | 3.2     | 4047.7  | 0.0     |
| 137B | BIG SMOXY     | 2.0    | 303.2                               | 390.3   | 272.9   | 3126.8  | 388.4   | 3011.2  |
| 56   | UPPER REES    | 2.0    | 122.7                               | 154.9   | 115.6   | 2081.9  | 132.8   | 2039.3  |

## BIGHORN KEY HABITAT RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0      |         | ALT 1      |         | ALT 2      |         | ALT 3      |         | ALT 4      |         | ALT 5    |         | ALT 6      |         |
|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|----------|---------|------------|---------|
| RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   | RESOURCE | INDEX   | RESOURCE   | INDEX   |
| GOLD BUTTE | 18960.4 | GOLD BUTTE | 21107.7 | SNAKE      | 15629.7 | SNAKE      | 23730.4 | GOLD BUTTE | 20082.1 | SNAKE    | 23496.1 | GOLD BUTTE | 17234.1 |
| BLACK MTNS | 18417.1 | MEADOW V   | 20997.4 | BLACK MTNS | 15430.9 | SPRING     | 18630.4 | MEADOW V   | 10981.3 | SPRING   | 18400.0 | BLACK MTNS | 16300.3 |
| MEADOW V   | 17459.3 | BLACK MTNS | 20629.8 | GOLD BUTTE | 15394.3 | GOLD BUTTE | 11632.4 | VIRGIN R   | 19300.9 |          |         |            |         |
| VIRGIN R   | 16360.3 | VIRGIN R   | 19901.2 | HIDDEN V N | 15253.9 | VIRGIN R   | 11474.0 | BLACK MTNS | 17232.1 |          |         | MEADOW V   | 15236.4 |
| HIDDEN V N | 16220.9 | HIDDEN V N | 18078.3 | MUDDY R    | 15055.6 | MEADOW V   | 10981.3 | CALIF WASH | 15412.8 |          |         | VIRGIN R   | 14849.3 |
| CALIF WASH | 16021.6 | CALIF WASH | 17922.0 | GARNET     | 14951.6 | BLACK MTNS | 10385.3 | HIDDEN V N | 15410.7 |          |         | HIDDEN V N | 12953.6 |
| GARNET     | 15830.8 | GARNET     | 17508.3 | CALIF WASH | 14890.3 |            |         | GARNET     | 14822.1 |          |         | CALIF WASH | 12900.8 |
| MUDDY R    | 15058.7 | MUDDY R    | 17343.4 | COYOTE     | 14476.7 |            |         | MUDDY R    | 14319.2 |          |         | GARNET     | 12604.9 |
| COYOTE     | 14476.7 | COYOTE     | 14866.1 | MEADOW V   | 1420.3  |            |         | SNAKE      | 14223.9 |          |         | MUDDY R    | 11503.0 |
| SNAKE      | 13718.4 | TIKABOO S  | 12463.8 | VIRGIN R   | 12618.4 |            |         | COYOTE     | 11371.3 |          |         | COYOTE     | 11037.4 |
| TIKABOO S  | 12373.3 | SNAKE      | 12360.8 | TIKABOO S  | 12371.8 |            |         |            |         |          |         |            |         |
| HANE SPR   | 10571.7 | HANE SPR   | 11583.8 | HANE SPR   | 10512.3 |            |         |            |         |          |         |            |         |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for bighorn key habitat.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 5        | Milford Ely    | 3,951                                   | 6,532                         | 1,393                     | 1                               |
| 2            | 3        | Beryl Ely      | 5,306                                   | 6,488                         | 1,383                     | 2                               |
| 3            | 6        | Milford Coyote | 8,815                                   | 5,649                         | 1,204                     | 3                               |
| 4            | 2        | Coyote Delta   | 9,832                                   | 5,642                         | 1,203                     | 4                               |
| 5            | 4        | Beryl Coyote   | 10,170                                  | 6,759                         | 1,441                     | 6                               |
| 6            | 0        | Coyote Milford | 10,394                                  | 6,386                         | 1,362                     | 5                               |
| 7            | 1        | Coyote Beryl   | 11,418                                  | 7,269                         | 1,550                     | 7                               |

3957

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

## EFFECT INDEX OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

ALTERNATIVE NO. 0  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: MILFORD LONG TERM POP. 13071.0

| NO. | APPL. | NAME       | MILES TO A |       |       | EFFECT INDEX OF BASE A |       |        | MILES TO B |      |      | EFFECT INDEX OF BASE B |         |         | COMBINED EFFECTS |         |         |
|-----|-------|------------|------------|-------|-------|------------------------|-------|--------|------------|------|------|------------------------|---------|---------|------------------|---------|---------|
|     |       |            | N          | F     | AVE   | MAX                    | MIN   | AVE    | N          | F    | AVE  | MAX                    | MIN     | AVE     | MAX              | MIN     | AVE     |
| 5   | 1.0   | PINE       | 108.0      | 132.0 | 130.0 | 136.7                  | 1.3   | 16.1   | 25.0       | 31.0 | 38.0 | 10127.9                | 4521.1  | 7250.0  | 10264.6          | 4522.4  | 7266.2  |
| 49  | 2.0   | PAROWAN    | 130.0      | 168.0 | 149.0 | 2846.3                 | 896.3 | 1637.2 | 24.0       | 44.0 | 34.0 | 12324.9                | 10727.9 | 11616.6 | 15171.2          | 11624.2 | 13273.8 |
| 51  | 1.0   | CEDAR CITY | 106.0      | 130.0 | 128.0 | 162.7                  | 1.6   | 19.9   | 16.0       | 50.0 | 33.0 | 11774.1                | 4711.4  | 8380.5  | 11936.9          | 4713.1  | 8400.4  |

## EFFECT INDEX OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

ALTERNATIVE NO. 1  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: BERYL LONG TERM POP. 12834.0

| NO. | APPL. | NAME       | MILES TO A |       |       | EFFECT INDEX OF BASE A |       |        | MILES TO B |      |      | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |        |         |
|-----|-------|------------|------------|-------|-------|------------------------|-------|--------|------------|------|------|------------------------|--------|--------|------------------|--------|---------|
|     |       |            | N          | F     | AVE   | MAX                    | MIN   | AVE    | N          | F    | AVE  | MAX                    | MIN    | AVE    | MAX              | MIN    | AVE     |
| 5   | 1.0   | PINE       | 108.0      | 132.0 | 130.0 | 136.7                  | 1.3   | 16.1   | 18.0       | 62.0 | 40.0 | 11244.2                | 2672.8 | 6679.5 | 11380.9          | 2674.1 | 6695.6  |
| 49  | 2.0   | PAROWAN    | 130.0      | 168.0 | 149.0 | 2846.3                 | 896.3 | 1637.2 | 42.0       | 72.0 | 57.0 | 10719.9                | 7561.9 | 9212.6 | 13566.2          | 8458.2 | 10869.7 |
| 51  | 1.0   | CEDAR CITY | 106.0      | 130.0 | 128.0 | 162.7                  | 1.6   | 19.9   | 28.0       | 52.0 | 40.0 | 9319.4                 | 4256.4 | 6679.5 | 9482.1           | 4258.0 | 6659.4  |

## EFFECT INDEX OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

ALTERNATIVE NO. 2  
 BASE A: COYOTE LONG TERM POP. 15967.0  
 BASE B: DELTA LONG TERM POP. 13679.0

| NO. | APPL. | NAME       | MILES TO A |       |       | EFFECT INDEX OF BASE A |       |        | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |        |        |
|-----|-------|------------|------------|-------|-------|------------------------|-------|--------|------------|-------|-------|------------------------|--------|--------|------------------|--------|--------|
|     |       |            | N          | F     | AVE   | MAX                    | MIN   | AVE    | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN    | AVE    |
| 5   | 1.0   | PINE       | 108.0      | 132.0 | 130.0 | 136.7                  | 1.3   | 16.1   | 48.0       | 91.0  | 69.3  | 3341.2                 | 465.7  | 1904.7 | 5477.9           | 467.0  | 1920.6 |
| 49  | 2.0   | PAROWAN    | 130.0      | 168.0 | 149.0 | 2846.3                 | 896.3 | 1637.2 | 82.0       | 116.0 | 99.0  | 6887.7                 | 3465.3 | 5031.7 | 9734.1           | 4361.6 | 6688.9 |
| 51  | 1.0   | CEDAR CITY | 106.0      | 130.0 | 128.0 | 162.7                  | 1.6   | 19.9   | 86.0       | 128.0 | 107.0 | 668.4                  | 17.1   | 127.8  | 831.1            | 18.7   | 147.7  |

## EFFECT INDEX OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

ALTERNATIVE NO. 3  
 BASE A: BERYL LONG TERM POP. 16943.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO. | APPL. | NAME       | MILES TO A |      |      | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|-----|-------|------------|------------|------|------|------------------------|--------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|     |       |            | N          | F    | AVE  | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 5   | 1.0   | PINE       | 18.0       | 62.0 | 40.0 | 14844.2                | 3528.5 | 8818.0  | 58.0       | 94.0  | 74.0  | 3634.5                 | 309.5  | 1358.0 | 18478.7          | 3918.0  | 10176.0 |
| 49  | 2.0   | PAROWAN    | 42.0       | 72.0 | 57.0 | 14152.0                | 9982.9 | 12162.1 | 136.0      | 156.0 | 146.0 | 2173.2                 | 1197.5 | 1629.8 | 16325.2          | 11160.5 | 13791.9 |
| 51  | 1.0   | CEDAR CITY | 28.0       | 52.0 | 40.0 | 12303.1                | 5619.2 | 8818.0  | 128.0      | 156.0 | 142.0 | 17.9                   | 0.7    | 3.8    | 12321.0          | 5619.9  | 8821.8  |

## EFFECT INDEX OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

ALTERNATIVE NO. 4  
 BASE A: BERYL LONG TERM POP. 16943.0  
 BASE B: COYOTE LONG TERM POP. 12195.0

| NO. | APPL. | NAME       | MILES TO A |      |      | EFFECT INDEX OF BASE A |        |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |       |        | COMBINED EFFECTS |         |         |
|-----|-------|------------|------------|------|------|------------------------|--------|---------|------------|-------|-------|------------------------|-------|--------|------------------|---------|---------|
|     |       |            | N          | F    | AVE  | MAX                    | MIN    | AVE     | N          | F     | AVE   | MAX                    | MIN   | AVE    | MAX              | MIN     | AVE     |
| 5   | 1.0   | PINE       | 18.0       | 62.0 | 40.0 | 14844.2                | 3528.5 | 8818.0  | 108.0      | 152.0 | 130.0 | 104.4                  | 1.0   | 12.3   | 14948.6          | 3929.5  | 8830.3  |
| 49  | 2.0   | PAROWAN    | 42.0       | 72.0 | 57.0 | 14152.0                | 9982.9 | 12162.1 | 130.0      | 168.0 | 149.0 | 2173.9                 | 684.6 | 1265.7 | 16325.9          | 10667.5 | 13427.8 |
| 51  | 1.0   | CEDAR CITY | 28.0       | 52.0 | 40.0 | 12303.1                | 5619.2 | 8818.0  | 106.0      | 150.0 | 128.0 | 124.3                  | 1.3   | 15.2   | 12427.4          | 5620.4  | 8833.2  |

## EFFECT INDEX OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

ALTERNATIVE NO. 5  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: ELY LONG TERM POP. 14347.0

| NO. | APPL. | NAME       | MILES TO A |      |      | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |        |        | COMBINED EFFECTS |         |         |
|-----|-------|------------|------------|------|------|------------------------|---------|---------|------------|-------|-------|------------------------|--------|--------|------------------|---------|---------|
|     |       |            | N          | F    | AVE  | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN    | AVE    | MAX              | MIN     | AVE     |
| 5   | 1.0   | PINE       | 25.0       | 51.0 | 38.0 | 13342.5                | 5956.6  | 9551.9  | 58.0       | 94.0  | 74.0  | 3634.5                 | 389.5  | 1358.0 | 16978.0          | 6346.0  | 10909.9 |
| 49  | 2.0   | PAROWAN    | 24.0       | 44.0 | 34.0 | 16238.0                | 14133.9 | 15204.9 | 136.0      | 156.0 | 146.0 | 2173.2                 | 1197.5 | 1629.8 | 18411.2          | 13331.5 | 16934.6 |
| 51  | 1.0   | CEDAR CITY | 16.0       | 50.0 | 33.0 | 15512.4                | 6207.3  | 11041.3 | 128.0      | 156.0 | 142.0 | 17.9                   | 0.7    | 3.8    | 15330.3          | 6208.0  | 11045.1 |

## EFFECT INDEX OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

ALTERNATIVE NO. 6  
 BASE A: MILFORD LONG TERM POP. 17221.0  
 BASE B: COYOTE LONG TERM POP. 12195.0

| NO. | APPL. | NAME       | MILES TO A |      |      | EFFECT INDEX OF BASE A |         |         | MILES TO B |       |       | EFFECT INDEX OF BASE B |       |        | COMBINED EFFECTS |         |         |
|-----|-------|------------|------------|------|------|------------------------|---------|---------|------------|-------|-------|------------------------|-------|--------|------------------|---------|---------|
|     |       |            | N          | F    | AVE  | MAX                    | MIN     | AVE     | N          | F     | AVE   | MAX                    | MIN   | AVE    | MAX              | MIN     | AVE     |
| 5   | 1.0   | PINE       | 25.0       | 51.0 | 38.0 | 13342.5                | 5956.6  | 9551.9  | 108.0      | 152.0 | 130.0 | 104.4                  | 1.0   | 12.3   | 13447.8          | 3957.6  | 9564.2  |
| 49  | 2.0   | PAROWAN    | 24.0       | 44.0 | 34.0 | 16238.0                | 14133.9 | 15204.9 | 130.0      | 168.0 | 149.0 | 2173.9                 | 684.6 | 1265.7 | 18411.9          | 14818.5 | 16370.5 |
| 51  | 1.0   | CEDAR CITY | 16.0       | 50.0 | 33.0 | 15512.4                | 6207.3  | 11041.3 | 106.0      | 150.0 | 128.0 | 14.3                   | 1.3   | 15.2   | 15636.7          | 6208.3  | 11056.5 |

COMBINED AVERAGE EFFECT INDEXES OF BASING ALTERNATIVES ON UTAH PRAIRIE DOG KEY HABITAT

| NO | LOCATION NAME | APPEAL | AVERAGE EFFECT INDEX BY ALTERNATIVE |         |        |         |         |         |         |  |
|----|---------------|--------|-------------------------------------|---------|--------|---------|---------|---------|---------|--|
|    |               |        | 0                                   | 1       | 2      | 3       | 4       | 5       | 6       |  |
| 9  | PINE          | 1 0    | 7266 2                              | 6699 6  | 1920 8 | 10176 0 | 8830 3  | 10909 9 | 9564 2  |  |
| 29 | PARDMAN       | 2 0    | 13273 8                             | 10867 7 | 6699 7 | 13771 7 | 13427 8 | 14934 6 | 14570 5 |  |
| 31 | CEDAR CITY    | 1 0    | 8400 4                              | 6699 4  | 147 7  | 8821 8  | 8833 2  | 11045 1 | 11056 3 |  |

UTAH PRAIRIE DOG KEY HABITAT RANKED IN ORDER OF MEAN EFFECT INDEX GREATER THAN 10000

| ALT 0    |         | ALT 1    |         | ALT 2    |       | ALT 3    |         | ALT 4    |         | ALT 5      |         | ALT 6      |         |
|----------|---------|----------|---------|----------|-------|----------|---------|----------|---------|------------|---------|------------|---------|
| RESOURCE | INDEX   | RESOURCE | INDEX   | RESOURCE | INDEX | RESOURCE | INDEX   | RESOURCE | INDEX   | RESOURCE   | INDEX   | RESOURCE   | INDEX   |
| PARDMAN  | 13273.8 | PARDMAN  | 10869.7 |          |       | PARDMAN  | 13771.9 | PARDMAN  | 13427.8 | PARDMAN    | 14934.6 | PARDMAN    | 14570.5 |
|          |         |          |         |          |       | PINE     | 10176.0 |          |         | CEDAR CITY | 11045.1 | CEDAR CITY | 11056.3 |
|          |         |          |         |          |       |          |         |          |         | PINE       | 10909.9 |            |         |

Ranking of alternatives by mean combined effect index, standard deviation and standard error for Utah prairie dog.

| RANK BY MEAN | ALT. NO. | OB BASE PAIRS  | MEAN COMBINED EFFECT INDEX <sup>1</sup> | STANDARD DEVIATION ABOUT MEAN | STANDARD ERROR ABOUT MEAN | SUBJECTIVE RANKING <sup>2</sup> |
|--------------|----------|----------------|-----------------------------------------|-------------------------------|---------------------------|---------------------------------|
| 1            | 2        | Coyote Delta   | 2,919                                   | 3,383                         | 1,953                     | 1                               |
| 2            | 1        | Coyote Beryl   | 8,088                                   | 2,409                         | 1,391                     | 2                               |
| 3            | 0        | Coyote Milford | 9,647                                   | 3,192                         | 1,843                     | 3                               |
| 4            | 4        | Beryl Coyote   | 10,364                                  | 2,654                         | 1,532                     | 4                               |
| 5            | 3        | Beryl Ely      | 10,930                                  | 2,569                         | 1,483                     | 5                               |
| 6            | 6        | Milford Coyote | 12,397                                  | 3,690                         | 2,131                     | 6                               |
| 7            | 5        | Milford Ely    | 12,963                                  | 3,440                         | 1,986                     | 7                               |

3956

<sup>1</sup>Computed from columns of table.

<sup>2</sup>Using mean, standard deviation and standard error.

\*U.S. GOVERNMENT PRINTING OFFICE : 1961 O-723/284

DATE  
FILMED  
- 8