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AUTHORITY

AFLC ltr dtd 4 Jun 1980

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~~Mr. Rosell~~

DEPARTMENT OF DEFENSE

Materiel Distribution System Study

D D C
PREPARED
SEP 14 1978
MATERIALS

PREPARED FOR THE
JOINT LOGISTICS COMMANDERS

WORK PAPERS ONLY, LIMITED DISTRIBUTION, NOT
APPROVED OR COORDINATED STAFF POSITIONS OF
THE JOINT DARCOM/NMC/AFLC/AFSC COMMANDERS

1 July 1978

VOLUME III, BOOK 1
OPTIMIZATION MODEL RUN INDEX

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WPAF/AFKC-LOM
W-P AFB, OH. 45433

INTRODUCTION

This book contains a chronological index and description of the optimization model runs used by the study group to assist in the analyses. The index shows the sequential development of the modeling strategy, provides a benchmark for future analysis, and (in conjunction with the output of the model runs) traces the development of the analyses which led to the conclusions drawn by the study group.

Runs are described in terms of the input parameters and data which, when specified, define a unique problem to be solved by the optimization model. A glossary of terms used is provided at the end of this appendix to assist in interpretation of the index.

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 0:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - 0 for all Depots
 - Variable Costs - Historical Base Year Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 0:56

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - 0 for all Depots

Variable Costs - 0 for all Depots/Products

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

RUN # 3

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:27

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - \$3.5M for all Depots
 - Variable Costs - Standard Low DOD Value
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:16

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - \$5.547M for all Depots

Variable Costs - Standard High DOD Value

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:15

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - \$1.0M for all Depots

Variable Costs - Standard Low DOD Value

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

RUN # 6

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:38

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - \$5.0M for all Depots
 - Variable Costs - Standard Low DOD Value
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:37

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - \$5.0M for All Depots
 - Variable Costs - Standard High DOD Value
5. Depot Capacity- Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:11

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - \$10.0M for all Depots
 - Variable Costs - Standard High DOD Value
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:11

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - \$50.0M for all Depots

Variable Costs - Standard High DOD Value

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:44

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - \$1.0M for all Depots
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:55

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - \$2.0M for all Depots

Variable Costs - Historical Base Year - Preliminary Estimate

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 9:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - \$3.0M for all Depots
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:05

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - \$4.0M for all Depots

Variable Costs - Historical Base Year - Preliminary Estimate

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:23

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - \$5.0M for all Depots
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 0:58

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - Historical Base Year - Preliminary Estimate

Variable Costs - Historical Base Year - Preliminary Estimate

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 0:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
Scaled by a Factor of 0.5
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Locked Open
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 0:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
Scaled by a Factor of 2.0
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Locked Open
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 10:34

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

- 1 Run Site - USAMSSA
2. Run Time (CPU) - 9:53

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
Scaled by a Factor of 0.5
4. Depot Cost

Fixed Costs - Historical Base Year - Preliminary Estimate

Variable Costs - Historical Base Year - Preliminary Estimate

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 10:22

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
Scaled by a Factor of 2.0
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:56

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Scaled by a Factor of 0.5
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 9:18

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - Historical Base Year Scaled by a Factor of 2.0

Variable Costs - Historical Base Year - Preliminary Estimate

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:14

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - Historical Base Year - Preliminary Estimate

Variable Costs - Historical Base Year Scaled by a Factor of 2.0

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Not Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:16

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year Scaled by a Factor of 2.0
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Not Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 19:43

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 13622
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 11:50

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 13
 - Link Density - 15095
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 22:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 13622
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:31

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - Historical Base Year - Preliminary Estimate

Variable Costs - Historical Base Year - Preliminary Estimate

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Applied

Throughput Penalty - Used

6. Bundling Scheme

Bundles - 13

Link Density - 15095

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 21:12

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Outbound - Historical Base Year Generated as of 6-9-77; Inbound - Set to Ø
4. Depot Cost

Fixed Costs - Historical Base Year - Preliminary Year

Variable Costs - Historical Base Year - Preliminary Year

5. Depot Capacity - Historical Base Year - Preliminary Year

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 13622

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 19:03

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost

Fixed Costs - Historical Base Year - Preliminary Estimate

Variable Costs - Historical Base Year - Preliminary Estimate

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 13622

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:37

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 13622
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:03

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 52104
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:14

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 6-9-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 32
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - No

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:33

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 29835
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:46

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 52104
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:23

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 29835
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:46

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Preliminary Estimate
 - Variable Costs - Historical Base Year - Preliminary Estimate
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 52104
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:10

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 29835
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-8-77

Variable Costs - Historical Base Year Revised 8-8-77

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Applied

Throughput Penalty - Used

6. Bundling Scheme

Bundles - 21

Link Density - 29835

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:01

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 52104
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:03

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:26

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Outbound - Historical Base Year Generated as of 8-8-77; Inbound - Set to Ø
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:32

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
Scaled by a Factor of 1.4
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-8-77

Variable Costs - Historical Base Year Revised 8-8-77

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Applied

Throughput Penalty - Used

6. Bundling Scheme

Bundles - 27

Link Density - 29934

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:01

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
Scaled by a Factor of 1.5
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty -
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Supersource - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:01

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 52104
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes.

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:11

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-8-77

Variable Costs - Historical Base Year Revised 8-8-77

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Applied

Throughput Penalty - Used

6. Bundling Scheme

Bundles - 21

Link Density - 29835

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:32

B. INPUT DATA

1. Supply - Historical Year Base
2. Demand - Historical Year Base
3. Transportation Rates - Historical Year Base Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Year Base Revised 8-28-77
 - Variable Costs - Historical Year Base Revised 8-28-77
5. Depot Capacity - Historical Year Base - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:02

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Historical Base Year Revised 8-28-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:47

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Historical Base Year Revised 8-28-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes (Scaled by a Factor of 0.5)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:00

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Historical Base Year Revised 8-28-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes (Scaled by a Factor of 0.75)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:17

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Historical Base Year Revised 8-28-77

5. Depot Capacity - Historical Base Year - Preliminary Estimate
- Burden Factors - Applied
- Throughput Penalty - Used

6. Bundling Scheme

Bundles - 27

Link Density - 29934

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 9:21

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Historical Base Year Revised 8-28-77

5. Depot Capacity - Historical Base Year

Burden Factors - Applied

Throughput Penalty - Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 12:35

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Historical Base Year Revised 8-28-77

5. Depot Capacity - Historical Base Year - Preliminary Estimate
- Burden Factors - Applied
- Throughput Penalty - Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete
All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:27

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 29934
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:40

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-8-77
 - Variable Costs - Historical Base Year Revised 8-8-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 24
 - Link Density - 33022
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:58

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Historical Base Year Revised 8-28-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 24
 - Link Density - 58068
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:55

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Historical Base Year Revised 8-28-77

5. Depot Capacity - Historical Base Year - Preliminary Estimate
- Burden Factors - Applied
- Throughput Penalty - Used

6. Bundling Scheme

Bundles - 27

Link Density - 56504

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 11:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-25-77
 - Variable Costs - Historical Base Year Revised 8-25-77
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 11:49

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Historical Base Year Revised 8-28-77

5. Depot Capacity - Historical Base Year - Preliminary Estimate

Burden Factors - Applied

Throughput Penalty - Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:32

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year - Generated as of 8-8-77
Cluster Centroid
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:10

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:16

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
Cluster Total Except Clusters 1,6&8 Reduced by 2/3
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27.
 - Link Density - 100%
7. Depot Configuration
 - 12 Cluster
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:39

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
Cluster Centroid
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Cluster Discrete
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:10

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Cluster Discrete
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:43

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:35

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Cluster Discrete
5. Depot Capacity
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:35

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - \$3.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:20

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:23

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:14

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
Cluster Total Except Clusters 1,6&7 Reduced by 2/3
 - Variable Costs -
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:18

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:33

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:12

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:15

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77
Cluster Total Except Clusters 1,6&7 Reduced by 1/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Preliminary Estimate
Burden Factors - Applied
Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27
Link Density - 100%

7. Depot Configuration

12 Clusters
All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes
Customer Returns - Yes
Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:34

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
Cluster Total Except Clusters 1,6&7 Reduced by 1/3
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Preliminary Estimate
 - Burden Factors - Applied
 - Throughput Penalty - Used Only for Clusters 11 & 12
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:13

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 9-14-77
Cluster Average
4. **Depot Cost**

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1 & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard
5. **Depot Capacity** - Historical Base Year - Preliminary Estimate

Burden Factors - Applied

Throughput Penalty - Not Used
6. **Bundling Scheme**

Bundles - 27

Link Density - 100%
7. **Depot Configuration**

12 Clusters
All Clusters Free to Open or Close
8. **Options** (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:49

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-14-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1,5 & 7 Reduced by 1/3 & Cluster 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Preliminary Estimate
Burden Factors - Applied
Throughput Penalty - Not Used

6. Bundling Scheme
Bundles - 27
Link Density - 100%

7. Depot Configuration
12 Clusters
All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)
Double Handling - Yes
Customer Returns - Yes
Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:42

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77 (Weighted Throughput)
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:10

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:20

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:17

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a Factor of 1.75
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 5:38

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - \$3.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 7:31

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - \$3.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a Factor of 1.75
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 5:26

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Micro-Mix
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 7:03

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 6:48

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Micro-Mix
5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a Factor of 1.75
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 5:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close Except Depot 32 Locked Closed

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 5:14

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 8-8-77
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:53

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-28-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1 & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:16

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-28-77
Cluster Average
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a
Factor of 1.75
- Burden Factors - Applied
- Throughput Penalty - Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

24 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also Added to Inbound)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:00

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-28-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a
Factor of 1.75
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 24 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:11

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:18

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77
Burden Factors - Applied
Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also Added to Inbound)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:10

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1 & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year Except Bundle 27 Scaled to 0
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1 & 2 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77
Burden Factors - Applied
Throughput Penalty - Not Used

6. Bundling Scheme
Bundles - 27
Link Density - 100%

7. Depot Configuration

12 Clusters
All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also added to Inbound)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:01

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a Factor
of 1.75
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 24 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 9:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - \$3.5M Per Depot in Each Cluster

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a Factor
of 1.75
Burden Factors - Applied
Throughput Penalty - Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

24 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also Added to Inbound)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:49

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost
 - Fixed Costs - \$3.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 8:34

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year Except Bundle 27 Scaled to 0
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost
 - Fixed Costs - \$3.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a Factor of 1.75
 - Burden Factors - Applied
 - Throughput Penalty - Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:43

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77 Scaled by a
Factor of 1.75
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 24 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:55

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost
 - Fixed Costs - \emptyset For All Clusters
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 24 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 3 & 6 Reduced by 2/3 & Clusters 1,4 & 7 Reduced by 1/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also Added to Inbound)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost
 - Fixed Costs - \$2.0M Per Depot in Each Cluster
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 24 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Also Added to Inbound)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:58

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost

Fixed Costs - 0 for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also Added to Inbound)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:45

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Reallocated on Basis of
Weighted Throughput
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77
Burden Factors - Applied
Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

24 Clusters
All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also Added to Inbound)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1, 4 & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Also Added to Inbound; Reduced Links
Allowed to 323)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:17

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1,4 & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:54

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost

Fixed Costs - 0 for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:06

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1, 4 & 7 Reduced by 1/3 & Clusters 5 & Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77
Burden Factors - Applied
Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27
Link Density - 100%

7. Depot Configuration

12 Clusters
All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Reduced Penalty Links Allowed to 323; Applied
to Outbound Links Only for Remainder of Runs)
Customer Returns -Yes
Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:40

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Micro-Mix
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Links Allowed - 323)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:34

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost
 - Fixed Costs - \$3.5M for All Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Links Allowed - 323)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:17

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Micro-Mix

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes (Links Allowed - 323)

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:36

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes (Reduced Penalty Links Allowed to 206 for Remainder of Runs)
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 1, 4 & 7 Reduced by 1/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes.

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:36

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 9-29-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:01

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:15

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 9-29-77
4. Depot Cost

Fixed Costs - \$3.5M for All Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in effect marked Yes - Others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:25

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year (for Consumables Only)
3. Transportation Rates - Historical Base Year
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:59

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year (for Consumables Only)
3. Transportation Rates - Historical Base Year
4. Depot Cost
 - Fixed Costs - 0 for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:27

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year (for Consumables Less Bundle 27)
3. Transportation Rates - Historical Base Year
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:46

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity- Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) -

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77
Weighted Cluster Total
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in effect marked Yes - Others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:14

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Weighted Cluster
Total Except Cluster 6 Reduced by 2/3 & Clusters 1 & 7 Reduced by 1/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in effect marked Yes - Others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Weighted Cluster
Total Except Cluster 1 & 4 Reduced by 1/3 & Clusters 5, 6, & 7 Reduced
by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total Except
Clusters 1 & 7 Reduced by 1/3, Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total Except
Clusters 1, 4 & 5 Reduced by 1/3 & Clusters 6 & 7 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:36

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:01

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
4. Depot Cost
 - Fixed Costs - \$3.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:36

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
4. Depot Cost
 - Fixed Costs - \$2.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:14

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
4. Depot Cost
 - Fixed Costs - \$2.5M for all Depots
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - No
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Weighted Cluster Total
Except Clusters 1, 4, & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by
^{2/3}
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in effect marked Yes - Others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 6:21

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-26-77
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 21

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in effect marked Yes - Other marked No)

Double Handling - No

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:36

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:36

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
Modified to Simulate Cluster Costs
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:16

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total Except
Clusters 1 & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in effect marked Yes - Others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:37

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in effect marked Yes - Others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Weighted Cluster
Total Except Clusters 1, 4, & 7 Reduced by 1/3, Cluster 5 Reduced by 2/3
& Cluster 6 Reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in effect marked Yes - Other marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total Except
Clusters 1 & 7 Reduced by 1/3 & Clusters 5 & 6 Reduced by 2/3
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77
Burden Factors - Applied
Throughput Penalty - Not Used

6. Bundling Scheme
Bundles - 21
Link Density - 100%

7. Depot Configuration
12 Clusters
All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)
Double Handling - Yes
Customer Returns - Yes
Expanded DSS - Yes

A. GENERAL (Not Used For Analysis - Error in Specifying Input)

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:16

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Depots Free to Open or Close

8. Options (Those in effect marked Yes - Other marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:11

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total Except
Clusters 1 & 7 Reduced by 1/3, Cluster 5 Reduced by 2/3 & Cluster 6
Reduced by \$1.6M
Variable Costs - Standard

5. Depot Capacity- Historical Base Year Revised 9-25-77

Burden Factors -Applied

Throughput Penalty -Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 10-31-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
Except Clusters 5 & 7 Reduced by 2/3, Cluster 1 Reduced by 1/3 &
Cluster 6 Reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:10

B. INPUT DATA

1. Supply - Historical Base Year Scaled for Mobilization
2. Demand - Historical Base Year Scaled for Mobilization
3. Transportation Rates - Historical Base Year Generated as of 10-31-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
 - Variable Costs - Standard
5. Depot Capacity Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:11

B. INPUT DATA

1. Supply - Historical Base Year Scaled for Mobilization
2. Demand - Historical Base Year Scaled for Mobilization
3. Transportation Rates - Historical Base Year Generated as of 10-31-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year revised 8-28-77; Cluster total
except clusters 1 & 7 reduced by 1/3 & clusters 5 & 6 reduced by 2/3
 - Variable Costs - Standard
5. Depot Capacity (Historical Base Year Revised 9-25-77)
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except clusters 1 & 7, reduced by 1/3; cluster 5 reduced by 2/3;
cluster 6 reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity (Historical Base Year Revised 9-25-77)

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:17

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity (Historical Base Year Revised 9-25-77)
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100%
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:37

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 21
 - Link Density - 100%
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:31

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:58

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:55

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except clusters 1 & 7 reduced by 1/3; cluster 5 reduced by 2/3;
cluster 6 reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:03

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except clusters 1 & 7 reduced by 1/3; cluster 5 reduced by 2/3;
cluster 6 reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:06

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Historical Base Year Revised 8-28-77
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not Used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 12 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:29

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except clusters 1 & 7 reduced by 1/3; cluster 5 reduced by 2/3;
cluster 6 reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

12 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - Unavailable

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated 11-10-77
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:51

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except clusters 1 & 7 reduced by 1/3; Cluster 5 reduced by 2/3;
Cluster 6 reduced to \$1.6M
Variable Costs -

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:05

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average; Outbound - Scaled by a factor of 0.6
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except clusters 1 & 7 reduced by 1/3; Cluster 5 reduced by 2/3;
Cluster 6 reduced to \$1.6M
Variable Costs -

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:18

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average; Scaled by a factor of 1.5
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except clusters 1 & 7 reduced by 1/3; Cluster 5 reduced by 2/3;
Cluster 6 reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:24

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year; Scaled by a factor of 0.8
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except Clusters 1 & 7 reduced by 1/3; Cluster 5 reduced by 2/3;
Cluster 6 reduced to \$1.6M

Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:08

B. INPUT DATA

1. Supply - Historical Base Year; Modified to reflect shift of supply sources
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except Clusters 1 & 7 reduced by 1/3; Cluster 5 reduced by 2/3;
Cluster 6 reduced to \$1.6M
Variable Costs - Standard

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration
15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:33

B. INPUT DATA

1. Supply - Historical Base Year; Modified to correspond to demand shift
2. Demand - Historical Base Year; Modified to reflect demand shift Scenario I
3. Transportation Rates - Historical Base Year Generated as of 11-10-77; Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #156

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:33

B. INPUT DATA

1. Supply - Historical Base Year; Modified to correspond to demand shift
2. Demand - Historical Base Year; Modified to reflect demand shift Scenario II
3. Transportation Rates - Historical Base Year Generated as of 11-10-77; Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #156
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:21

B. INPUT DATA

1. Supply - Historical Base Year Scaled for Mobilization Scenario
2. Demand - Historical Base Year Scaled for Mobilization Scenario
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #156
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:59

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total
except Cluster 1 reduced by 1/3 and Cluster 5 reduced by 2/3

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Clusters 7 & 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:51

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost:
Fixed Costs - Historical Base Year Revised 8-28-77; Cluster total except
Cluster 1 reduced by 1/3 and Cluster 5 reduced by 2/3
Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
Burden Factors - Applied
Throughput Penalty - Used for Clusters 7 & 12 only
6. Bundling Scheme
Bundles - 27
Link Density - 100% less edited links
7. Depot Configuration
15 Clusters
All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
Double Handling - Yes
Customer Returns - Yes
Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:47

B. INPUT DATA

1. Supply - Historical Base Year scaled for Mobilization Scenario
2. Demand - Historical Base Year scaled for Mobilization Scenario
3. **Transportation Rates** - Historical Base Year Generated as of 11-10-77
4. Depot Cost

Fixed Costs - Historical Base Year revised 8-28-77

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 14:20

B. INPUT DATA

1. Supply - Historical Base Year; Modified to correspond to demand shift
2. Demand - Historical Base Year; Modified to correspond to demand shift Scenario I
3. **Transportation Rates** - Historical Base Year Generated as of 11-10-77
4. **Depot Cost**
 - Fixed Costs - Historical Base Year revised 8-28-77
 - Variable Costs - Standard
5. **Depot Capacity** - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. **Bundling Scheme**
 - # Bundles - 27
 - Link Density - 100% less edited links
7. **Depot Configuration**
 - Discrete
 - All Depots Free to Open or Close
8. **Options** (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:06

B. INPUT DATA

1. Supply - Historical Base Year scaled for Mobilization Scenario
2. Demand - Historical Base Year scaled for Mobilization Scenario
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
except Cluster 1 reduced by 1/3 and Cluster 2 reduced by 2/3
Variable Costs - Standard

5. Depot Capacity

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:28

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
except Cluster 1 reduced by 1/3; Cluster 5 reduced by 2/3; and
Cluster 15 reduced to \$5.5M
Variable Costs - Standard

5. Depot Capacity

Burden Factors - Historical Base Year - Revised 9-25-77

Throughput Penalty - Applied

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close except Clusters 6 & 13 are
locked closed

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:22

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year Revised 8-28-77; Cluster Total
except Cluster 1 reduced by 1/3 and Cluster 5 reduced by 2/3

Variable Costs - Nominal Case #1

5. Depot Capacity - Historical Base Year Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100 less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:19

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average

4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #2

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not Used

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:21

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #3

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Not used

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:21

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #4
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Not used
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 9-25-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close; except Clusters 7 & 13 are locked
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close; except Cluster 15 is locked
open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:44

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 9-25-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close; except Clusters 13 & 15 are
locked open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close; except Clusters 3, 6, 11, 13 & 15
are locked closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:02

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close; except Clusters 2, 3, 6, 11, 13 & 15 are locked closed

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:33

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:10

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170; except Clusters 2 & 3 reduced by 1/2

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:20

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Wage Grade Differential #1

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:03

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year scaled by a factor of 0.8
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170; except Cluster 2 & 3 reduced by 1/2

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:28

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Wage Grade Differential #1

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Clusters 7 & 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:31

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Wage Grade Differential #1

5. Depot Capacity - Historical Base Year - Revised 11-30-77
Burden Factors - Applied
Throughput Penalty - Used for Clusters 6, 7, & 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters
All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:59

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Wage Grade Differential #1

5. Depot Capacity - Historical Base Year - Revised 11-30-77
- Burden Factors - Applied
- Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 7:55

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost

Fixed Costs - Historical Base Year - Revised 8-28-77

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 9:44

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Revised 8-28-77
 - Variable Costs - Micro-mix
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - GEICO
2. Run Time (CPU) - 12:16

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost
 - Fixed Costs - Historical Base Year - Revised 8-28-77
 - Variable Costs - Wage Grade Differential #1
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - Discrete
 - All Depots Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:50

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
outbound freight conditions 1-5 scaled by a factor of 0.6; Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:50

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 11-10-77; outbound freight conditions 1-15 scaled by a factor of 0.75; Cluster
4. **Depot Cost**
Average

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:44

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
inbound scaled by a factor of 0.85; Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (Those in Effect Marked Yes - Others Marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:30

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links; Bundles 25, 26 & 27
excluded from Cluster 7
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:51

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links; special exclusions for overseas demand for aircraft engines
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:27

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Revised for Sensitivity Analysis

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:20

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Revised for Sensitivity Analysis

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close; except Clusters 6 & 11 are
locked closed

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:27

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Revised for Sensitivity Analysis

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Clusters 7 & 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close; except Clusters 6 & 11 are
locked closed

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:19

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Revised for Sensitivity Analysis
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Clusters 7 & 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close; except Clusters 6 & 11 are
locked closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:57

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. **Transportation Rates** - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Revised for Sensitivity Analysis
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (Those in Effect Marked Yes - Others Marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:32

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Revised for Sensitivity Analysis
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:04

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #5

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #6
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:25

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #6

5. Depot Capacity - Historical Base Year - Revised 11-30-77
Burden Factors - Applied
Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:26

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #5
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Locked Open
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:43

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #7

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:04

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #7

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:45

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #8

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:06

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #8

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:40

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #9
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:00

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #9
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Locked Open
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:39

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Wage Grade Differential #1

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:21

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #11
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Locked Open
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:39

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #11
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:39

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535; Army customers linked to DSS depot clusters only
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:59

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535; Bundle 27 linked to Cluster 3

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:58

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535; Bundle 27 linked to Cluster 4
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535; Bundle 27 linked to Cluster 4 plus additional link edits)

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:40

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close; except Cluster 6 is Locked Closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535; Links modified to include Cluster 13

7. Depot Configuration

12 Depots Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535; Links modified for Cluster 8

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:00

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:50

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links; special exclusion for
aircraft engines to overseas customers
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #17
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #18
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #19
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #20

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535

7. Depot Configuration

11 Clusters Locked Open by Link Configuration

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #21
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case #22
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #23

5. Depot Capacity - Historical Base Year - Revised 11-30-77
- Burden Factors - Applied
- Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:09

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #24

5. Depot Capacity -- Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 Only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535

7. Depot Configuration

11 Clusters locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:14

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 Only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:11

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 Only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:51

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #13

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 Only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:24

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #14

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 Only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Locked Open

8. Options (those, in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:24

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #15

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 Only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:10

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case #16

5. Depot Capacity - Historical Base Year - Revised 11-20-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:27

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535

Bundle 27 linked to Cluster 3

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:29

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535

Army Customers Linked to DSS Depot Clusters Only

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:26

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535
Links modified for Cluster 13
7. Depot Configuration
 - 12 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:30

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Nominal Case - B
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27 (one link per bundle - customer)
 - Link Density - 5535 - From Run #231
7. Depot Configuration
 - 11 Clusters Locked Open by Link Structure
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:07

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case - F

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535 - From Run #231

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case - D

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535 - From Run #231

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:08

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case - H

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (one link per bundle - customer)

Link Density - 5535 - From Run #231

7. Depot Configuration

11 Clusters Locked Open by Link Structure

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:38

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Revised for Sensitivity Analysis

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:30

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Revised for Sensitivity Analysis

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration
15 Clusters

All Clusters Free to Open or Close Except Clusters 6 and 11
are Locked Closed

8. Options (those in effect marked yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:33

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Revised for Sensitivity Analysis

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Clusters 7 and 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Customers Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:13

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case - I

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:19

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Nominal Case - II

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open to Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:02

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Historical Base Year - Revised 8-28-77 Cluster Total Ex-
cept Cluster 1 Reduced by 1/3 & Cluster 5 Increased to \$6.2M
Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:33

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year For Consumables Only
3. Transportation Rates - Historical Base Year Generated as of 11-31-77

4. Depot Cost

Fixed Costs - \$1.0M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (used consumable bundles only)

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:56

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year For Consumables Only
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost

Fixed Costs - \$2.0M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (used consumable bundles only)

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 4:58

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year for Consumables Only
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost

Fixed Costs - \$2.5M for All Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Revised

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (used consumable bundles only)

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:02

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year For Consumables Only
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost

Fixed Costs - \$3.5M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (used consumable bundles only)

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 5:02

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year For Consumables Only
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
4. Depot Cost

Fixed Costs - \$5.0M for all Depots

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27 (used consumable bundles only)

Link Density - 100%

7. Depot Configuration

Discrete

All Depots Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:06

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Scaled by Factor of 1.5; Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density -100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Locked Open Except Clusters 6,11,13&15 are Locked Closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:06

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Locked Open Except Clusters 6,11,13 & 15 are
Locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 1:56

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77
Cluster Average
4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Cluster 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% for Reparables less edited links - Consumables
linked Only to Clusters 1,3,4, & 10

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 11:46

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Use for Clusters 7 and 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters .
 - All Clusters Free to Open or Close except Clusters 6 and 11
are Locked Closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 7:51

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average

4. Depot Cost

Fixed Costs - Same as Run #170

Variable Costs - Standard

5. Depot Capacity - Historical Base Year - Revised 11-30-77

Burden Factors - Applied

Throughput Penalty - Used for Clusters 7 and 12 only

6. Bundling Scheme

Bundles - 27

Link Density - 100% less edited links

7. Depot Configuration

15 Clusters

All Clusters Free to Open or Close except Clusters 6 and 11
are locked Closed and Cluster 13 is locked Open

8. Options (those in effect marked Yes - others marked No)

Double Handling - Yes

Customer Returns - Yes

Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 17:30

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Revised For Sensitivity Analysis
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Clusters 7 and 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close except Clusters 6 and 11
are locked Closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 13:54

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
Except Cluster 13 Reduced to \$2.0M
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Clusters 7 and 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close except Clusters 6 and 11
are locked Closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 17:15

B. INPUT DATA

1. Supply - Historical Base Year
2. Demand - Historical Base Year
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
Except Cluster 13 Reduced to \$3.0M
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Clusters 7 and 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters .
 - All Clusters Free to Open or Close except Clusters 6 and 11
are locked Closed
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 3:03

B. INPUT DATA

1. Supply - Historical Base Year; Modified to correspond to demand shift
2. Demand - Historical Base Year; Modified to reflect maintenance demand Scenario I
3. Transportation Rates - Historical Base Year Generated as of 11-10-77; Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:52

B. INPUT DATA

1. Supply - Historical Base Year; Modified to correspond to demand shift
2. Demand - Historical Base Year; Modified to reflect maintenance demand Scenario II
3. Transportation Rates - Historical Base Year Generated as of 11-10-77; Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:53

B. INPUT DATA

1. Supply - Historical Base Year; Modified to correspond to demand shift
2. Demand - Historical Base Year; Modified to reflect maintenance demand Scenario III
3. Transportation Rates - Historical Base Year Generated as of 11-10-77;
Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

A. GENERAL

1. Run Site - USAMSSA
2. Run Time (CPU) - 2:44

B. INPUT DATA

1. Supply - Historical Base Year; Modified to correspond to demand shift
2. Demand - Historical Base Year; Modified to reflect maintenance demand Scenario III
3. Transportation Rates - Historical Base Year Generated as of 11-10-77; Cluster Average
4. Depot Cost
 - Fixed Costs - Same as Run #170
 - Except Cluster 2 Reduced to \$3.0M
 - Variable Costs - Standard
5. Depot Capacity - Historical Base Year - Revised 11-30-77
 - Burden Factors - Applied
 - Throughput Penalty - Used for Cluster 12 only
6. Bundling Scheme
 - # Bundles - 27
 - Link Density - 100% less edited links
7. Depot Configuration
 - 15 Clusters
 - All Clusters Free to Open or Close
8. Options (those in effect marked Yes - others marked No)
 - Double Handling - Yes
 - Customer Returns - Yes
 - Expanded DSS - Yes

GLOSSARY OF TERMS

GENERAL

USAMSSA - US Army Management Systems Support Agency (IBM 370/165).

GEICO - Government Employees Insurance Company (IBM 370/168).

RUN TIME - expressed as minutes: seconds (Includes compile, link edit and go steps for optimization model plus an additional output step; the compile, link edit and output step accounted for approximately 20 seconds of the time shown.)

INPUT DATA

SUPPLY, DEMAND, TRANSPORTATION RATES AND DEPOT COST - self-explanatory.

DEPOT CAPACITY - maximum annual throughput for each depot expressed in units of weighted throughput.

BURDEN FACTORS - relative measures of difficulty applied to each product (difficulty factor).

THROUGHPUT PENALTY - assesses a specified \$ per unit of weighted throughput penalty for exceeding depot capacity.

BUNDLES - a partition of commodities with the understanding that if a customer is assigned to a depot for one commodity in a bundle, then the customer receives all products in that bundle from that depot.

LINK DENSITY - the number of bundle-customer-depot links allowed (100% indicates all bundle-customer combinations are permitted at each depot cluster in the scenario.)

DEPOT CONFIGURATION - depots were considered as discrete facilities or as clusters of facilities for model runs; the exact configuration is specified on each sheet.

DOUBLE HANDLING OPTION - a penalty applied (Yes) or not applied (No) for the collocated maintenance interface situation.

CUSTOMER RETURN OPTION - returns from customers allowed (Yes) or not allowed (No) to be a source of supply.

EXPANDED DSS OPTION - Overseas Army DSS customer demand routed via Army CCP (Yes) or not (No).



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