



Implementing Marine Corps INRMPs

**Heidi Hirsh
HQ Marine Corps
DoD Conservation Conference 20004**

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 01 AUG 2004		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE Implementing Marine Corps INRMPs Heidi				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) HQ Marine Corps				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES See also ADM002111. Department of Defense Conservation Conference. Held in Savannah, Georgia on August 22-27, 2004, The original document contains color images.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	18. NUMBER OF PAGES 22	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Implementing Marine Corps INRMPs

- All INRMPs complete except Goldwater Range INRMP/EIS
- All INRMP class 0 and 1 projects funded in FY03, \$18M
- Handbook for Preparing, Revising, and Implementing INRMPs updated May 2004



INRMP Efficacy Metrics

- Initiated development of metrics Spring 04
 - URS Corporation contract support
- Aug 04 - Sikes Act Tripartite mtg report - recommends development of quantitative metrics
- Metrics model to Sikes Act Working Group and OSD Spring 05 for review, modification, and hopefully application to meet needs/reporting rqmts of all DoD services



INRMP Efficacy Metrics

- Considerations:
 - What metrics will indicate successful species conservation and land protection to sustain military training exercises?
 - Metrics need to communicate INRMP program effectiveness to both internal and external stakeholders (and withstand potential lawsuits)



INRMP Efficacy Metrics

- Military Training Support
 - Does INRMP provide and promote continued use of land, water, and air space for training?
 - Does INRMP have a mechanism to prevent a net loss of landscapes necessary for training?
 - Are procedures in place to modify management schemes to meet changes in training requirements?



INRMP Efficacy Metrics

- Sikes Act Compliance
 - Does the INRMP provide a benefit to listed species to meet FWS criteria to exclude the base from critical habitat designation?
 - Are “must fund” projects completed and are they scientifically credible, effective, *needed*?
 - Is the INRMP conserving or recovering listed species and preventing species at risk from being listed?



INRMP Efficacy Metrics

- Metrics should assess how well INRMP team works together:
 - Base commanders, installation staff, trainers/operators, regulators, and NGOs
- Must be easily understood by all:
 - Internal stakeholders (operators, range managers, etc.)
 - External stakeholders (regulators, NGOs, etc.)



INRMP Efficacy Metrics

- Metrics will be quantitative and qualitative to indicate how well projects support training requirements and provide benefit to species on base and/or regionally



INRMP Efficacy Metrics

- Assess natural resource mgmt at MCAS Cherry Point NC and 29 Palms CA
- DoD/USMC INRMP guidance goals and ten Sikes Act requirements will be scored and totaled using weighting values to assess INRMP implementation effectiveness.



INRMP Efficacy Metrics

- DoD/USMC guidance goals:
 - Meets mission goals
 - Supports Federal/State & Regional goals
 - Satisfies stakeholders & Regional Consrv goals
 - Provides benefit to species, section 318
 - Results in decision “not to list” species

===== INRMP Score



INRMP Efficacy Metrics

- Sikes Act Requirements:
 - No net loss of training lands
 - Fish, wildlife, land, & forest mgmt & recreation
 - Fish & wildlife habitat enhancement/modif.
 - Wetland protection, enhancement/restoration
 - Integration of & consistency among activities



INRMP Efficacy Metrics

- Establishment of goals & objectives w/schedule
- Sustainable public use, when consistent w/training
- Enforcement of nat res laws & regs
- Other activities as deemed appropriate by Secretary of military Dept.

===== Sikes Act Score



INRMP Efficacy Metrics

- Budget/Schedule:
 - Project is in the POM
 - In current year
 - Funded
- ==== Budget/schedule score

[illegible]

Weighting		Totals	
Values			
Weighted Score ⁽⁴⁾	Potential Max ⁽⁵⁾	Total Score ⁽⁶⁾	Potential Max ⁽⁷⁾
5.4	6	59.4	66
4.2	6	50.4	78
4.5	5	31.5	35
4.5	5	54	60
4.5	5	27	35
5.6	6	44.8	48
5	5	30	30
3.8	5	45.6	65
2.7	3	18.9	24
2.7	3	21.6	24
2.7	3	32.4	36
		416	501
		Ratio=	0.83
		Percentile=	83%

Natural Resource Mgmt VS. Training Capability



- INRMP implementation metrics collected are to correct deficiencies identified in ability to provide access to training lands, waters, air space
- USMC developed Training and Range Encroachment Information System (TREIS)
 - a database tool



TREIS Metrics

- Purpose:
 - Assess and quantify impacts to the Base's mission/training capability, as result of various categories of encroachment.



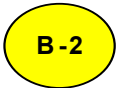
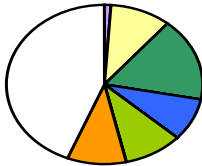
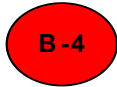
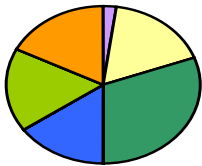
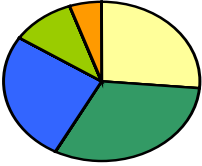


TREIS Metrics

- Provides an encroachment quantification toolset and database, based on an operations orientated and field-tested methodology
- Establishes a quantitative measure of encroachment impacts as a function of:
 - Training tasks, training areas, and encroachment factors

Mortar Man (MOS 0341)

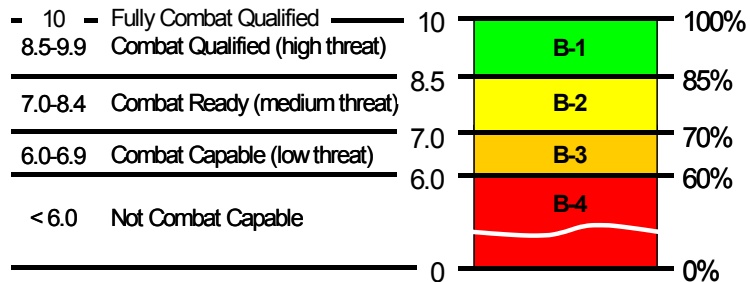
Training Tasks: In-Scenario

	# of Tasks	Percentage Completion to Standard	Base Training Readiness Level	Inhibited Activities	Encroachment Factors
All Tasks	53	75%	 Combat Ready (medium threat)	Digging Airspace Use	
Field Tasks	26	49%	 Not Combat Capable		
Non-Firing Tasks	13	69%	 Combat Capable (low threat)		

USMC Readiness Categories

10	Fully Combat Qualified
8.5-9.9	Combat Qualified (high threat)
7.0-8.4	Combat Ready (medium threat)
6.0-6.9	Combat Capable (low threat)
< 6.0	Not Combat Capable

Base Training Readiness Percentage Thresholds for each B-Level



Encroachment Factors Key

	Air Quality
	Cultural Resources
	Ecosystem/Biodiversity
	Endangered Species
	Maritime
	Water Use
	Wetlands
	Airborne Noise

	Airspace Restrictions
	Frequency Encroachment
	Land Use
	Urban Growth
	UXO and Constituents
	Public Safety
	Not Applicable (Admin. Tasks)



TREIS Metrics

- A powerful tool for collecting, analyzing, and quantifying the impacts of encroachment on training and readiness.
- Will allow base to continually assess its capability to support training at the training task level



TREIS Metrics

- Training capability assessment tool to be applied Marine Corps-wide
- Compare INRMP effectiveness measure to training capability TREIS measure to direct long term resource mgmt and community planning to offset potential encroachment



Quantification Benefits

