



United States
Department of
Agriculture

**Forest
Service**

Pacific
Southwest
Region

Volume 2

R5-MB-174
December 2008

Motorized Travel Management

Draft Environmental Impact Statement Volume 2—Appendices A through O

Modoc National Forest



The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Data Accuracy—The Forest Service uses the most current and complete data available. GIS data and product accuracy may vary. They may be developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created revised, etc. Using GIS products for purposes other than those for which they were created may yield inaccurate or misleading results. The Forest Service reserves the right to correct, update, modify, or replace GIS products without notification. For more information, contact:

Modoc National Forest
800 West 12th Street
Alturas, California 96101
530-233-8754

If a map contains contours, these contours were generated and filtered using the Digital Elevation Model (DEM) files. Any contours generated from DEMs using a scale of less than 1:100,000 will lead to less reliable results and should only be used for display purposes only.

Contents

Appendix A-1: Route Analysis 1

Appendix A-2: Field Visit Rationale 43

Appendix B: Monitoring Plan 87

Appendix C: Route Segments Having Visual Management Prescriptions 93

Appendix D: Soils and Hydrology Field Review 117

Appendix E: Maintenance Levels (ML) for Roads 131

Appendix F: Vernal Pool Field Inventory 133

Appendix G: Water Quality Management Plan..... 137

Appendix H: Past, Present, and Reasonably Foreseeable Actions 141

Appendix I: Environmental Consequences of Unauthorized Routes to Archaeological Sites..... 149

Appendix J: Law Enforcement..... 163

Appendix K: Information on Maintenance Backlog..... 169

Appendix L: Goshawk Habitat I 173

Appendix M: Goshawk Habitat II 193

Appendix N: Mixed-Use Analysis 221

Appendix O: Tribal Relations..... 281

Appendix A-1: Route Analysis

Introduction

Appendix A displays the site-specific resource information and required mitigation measures for all of the motorized trails proposed in the alternatives as additions to the National Forest Transportation System (NFTS). Table A-1 below displays the following information for each proposed motorized trail to the NFTS.

- The unique **route ID** used throughout the document and maps for each motorized trail addition to the NFTS
- The **Reason for Adding** is the determination made by the interdisciplinary team that justified the need for the proposed road to the system.
- The **vehicle class (also known as maintenance level) and season of use** that would be authorized, should the motorized trail be added to the NFTS in each respective alternative. The possible combinations of season of use are listed in table A-1, below. All roads will be brought in as Maintenance Level 2 roads– which are open to all vehicles.

Season of Use	Reason for Adding to System
W – 4/1 to 12/15	A - To provide motorized access to dispersed camping
X – 5/1 to 11/30	B - Provide a diversity of motorized recreation opportunities
Y – 5/1 to 2/14	C - To assure adequate access to public and private lands
Z - Open all year	

SU—season of use

ML—maintenance level (ML2 is open to all vehicles)

Table A-1. Maintenance Level, Season of Use, and Length of Routes

Route ID	Reason for Adding	Maintenance Level and Season of Use						Length (miles)
		Alternative 2		Alternative 4		Alternative 5		
		ML	SU	ML	SU	ML	SU	
BA101	A	2	Z	2	Z	2	Z	0.20
BA104	A	2	Z	2	Z	2	Z	0.25
BA105	A	2	Z	2	Z	2	Z	0.02
BA107	A	2	Z	2	Z	2	Z	0.19
BA110	A	2	Z	2	Z	2	Z	0.11
BA111	A	2	Z	2	Z	2	Z	0.08

		Maintenance Level and Season of Use						
BA112	A	2	Z	2	Z	2	Z	0.11
BA113	A	2	Z	2	Z	2	Z	0.17
BA115	B	2	Z	2	Z	2	Z	0.67
BA116	A	2	Z		Z	2	Z	0.16
BA117	A	2	Z		Z	2	Z	0.20
BA118	B	2	Z		Z	2	Z	0.97
BA119	A	2	Z		Z	2	Z	0.02
BA120	B	2	Z		Z	2	Z	0.26
BA121	A	2	Z	2	Z	2	Z	0.03
BA122	A	2	Z		Z	2	Z	0.21
BA123	B	2	Z		Z	2	Z	1.94
BA124	B	2	Z		Z	2	Z	1.08
BA125	A	2	Z	2	Z	2	Z	0.09
BA127	B	2	Z	2	Z	2	Z	0.38
BA128	A	2	Z	2	Z	2	Z	0.19
BA129	B	2	Z	2	Z	2	Z	1.01
BA13	A	2	Z	2	Z	2	Z	0.08
BA130	B	2	Z	2	Z	2	Z	0.41
BA131	A	2	Z		Z	2	Z	0.26
BA132	A	2	Z		Z	2	Z	0.19
BA133	A	2	Z	2	Z	2	Z	0.09
BA134	B	2	Z		Z	2	Z	0.49
BA136	B	2	Z	2	Z	2	Z	0.78
BA140	B	2	Z		Z	2	Z	0.49
BA141	A	2	Z		Z	2	Z	0.17
BA142	A	2	Z		Z	2	Z	0.13
BA143	B	2	Z		Z	2	Z	0.50
BA144	A	2	Z		Z	2	Z	0.11
BA149	A	2	Z		Z	2	Z	0.23

		Maintenance Level and Season of Use						
BA150	B	2	Z		Z	2	Z	0.33
BA153	B	2	Z	2	Z	2	Z	0.62
BA156	A	2	Z		Z	2	Z	0.09
BA16	B	2	Z	2	Z	2	Z	1.26
BA163	A	2	Z	2	Z	2	Z	0.15
BA164	A	2	Z	2	Z	2	Z	0.04
BA165	A	2	Z		Z	2	Z	0.08
BA169	A	2	Z		Z	2	Z	0.10
BA171	A	2	Z		Z	2	Z	0.15
BA172	B	2	Z		Z	2	Z	0.91
BA173	A	2	Z		Z	2	Z	0.08
BA183	A	2	Z	2	Z	2	Z	0.08
BA185	A	2	Z	2	Z	2	Z	0.13
BA186	A	2	Z	2	Z	2	Z	0.09
BA19	A	2	Z	2	Z	2	Z	0.07
BA191	A	2	Z	2	Z	2	Z	0.11
BA193	A	2	Z	2	Z	2	Z	0.16
BA199	B	2	Z		Z	2	Z	0.51
BA200	A	2	Z	2	Z	2	Z	0.08
BA201	B	2	Z		Z	2	Z	0.44
BA203	B	2	Z		Z	2	Z	0.95
BA205	C	2	Z	2	Z	2	Z	0.27
BA206	A	2	Z	2	Z	2	Z	0.08
BA209	B	2	Z		Z	2	Z	0.57
BA211	B	2	Z	2	Z	2	Z	0.27
BA212	B	2	Z	2	Z	2	Z	0.80
BA213	A	2	Z	2	Z	2	Z	0.20
BA214	A	2	Z	2	Z	2	Z	0.10
BA215	B	2	Z	2	Z	2	Z	0.95

		Maintenance Level and Season of Use						
BA216	B	2	Z	2	Z	2	Z	0.45
BA217	B	2	Z	2	Z	2	Z	0.29
BA219	B	2	Z	2	Z	2	Z	0.86
BA2203	B	2	Z	2	Z	2	Z	0.32
BA2204	A	2	Z	2	Z	2	Z	0.09
BA2206	A	2	Z	2	Z	2	Z	0.19
BA2207	B	2	Z	2	Z	2	Z	0.50
BA2208	B	2	Z	2	Z	2	Z	0.48
BA221	A	2	Z	2	Z	2	Z	0.15
BA2214	A	2	Z	2	Z	2	Z	0.17
BA2215	A	2	Z	2	Z	2	Z	0.05
BA2216	A	2	Z	2	Z	2	Z	0.07
BA2217	A	2	Z	2	Z	2	Z	0.22
BA2218	A	2	Z	2	Z	2	Z	0.09
BA222	B	2	Z	2	Z	2	Z	0.10
BA222	A	2	Z	2	Z	2	Z	0.57
BA2221	A	2	Z		Z	2	Z	0.06
BA2223	A	2	Z	2	Z	2	Z	0.25
BA2224	B	2	Z	2	Z	2	Z	0.35
BA2225	A	2	Z	2	Z	2	Z	0.16
BA2226	A	2	Z	2	Z	2	Z	0.25
BA2227	A	2	Z	2	Z	2	Z	0.14
BA223	B	2	Z	2	Z	2	Z	0.56
BA2231	A	2	Z	2	Z	2	Z	0.12
BA2233	A	2	Z	2	Z	2	Z	0.05
BA2234	B	2	Z	2	Z	2	Z	0.28
BA2235	A	2	Z	2	Z	2	Z	0.05
BA2236	A	2	Z	2	Z	2	Z	0.19
BA225	A	2	Z	2	Z	2	Z	0.19

		Maintenance Level and Season of Use						
BA2250	A	2	Z		Z	2	Z	0.09
BA2252	A	2	Z	2	Z	2	Z	0.24
BA2253	B	2	Z		Z	2	Z	0.33
BA2254	A	2	Z	2	Z	2	Z	0.25
BA2255	A	2	Z		Z	2	Z	0.11
BA226	B	2	Z	2	Z	2	Z	0.65
BA2260	B	2	Z		Z	2	Z	1.07
BA2263	A	2	Z	2	Z	2	Z	0.04
BA2264	A	2	Z	2	Z	2	Z	0.21
BA2266	A	2	Z	2	Z	2	Z	0.04
BA2267	A	2	Z	2	Z	2	Z	0.06
BA2268	A	2	Z	2	Z	2	Z	0.23
BA2269	A	2	Z	2	Z	2	Z	0.17
BA227	B	2	Z	2	Z	2	Z	0.28
BA2271	A	2	Z	2	Z	2	Z	0.24
BA2272	A	2	Z	2	Z	2	Z	0.25
BA2276	A	2	Z	2	Z	2	Z	0.05
BA2279	B	2	Z		Z	2	Z	0.35
BA228	A	2	Z	2	Z	2	Z	0.09
BA2280	A	2	Z	2	Z	2	Z	0.13
BA2284	A	2	Z		Z	2	Z	0.07
BA2285	A	2	Z		Z	2	Z	0.25
BA2286	A	2	Z	2	Z	2	Z	0.19
BA2287	B	2	Z	2	Z	2	Z	1.06
BA2288	A	2	Z	2	Z	2	Z	0.16
BA2289	A	2	Z		Z	2	Z	0.14
BA229	A	2	Z	2	Z	2	Z	0.11
BA2290	A	2	Z		Z	2	Z	0.09
BA2292	B	2	Z		Z	2	Z	0.29

		Maintenance Level and Season of Use						
BA2295	A	2	Z		Z	2	Z	0.16
BA230	B	2	Z	2	Z	2	Z	0.45
BA2301	A	2	Z	2	Z	2	Z	0.14
BA2302	A	2	Z	2	Z	2	Z	0.05
BA2303	B	2	Z	2	Z	2	Z	0.35
BA2304	B	2	Z	2	Z	2	Z	1.58
BA2305	A	2	Z	2	Z	2	Z	0.09
BA2306	A	2	Z	2	Z	2	Z	0.07
BA231	A	2	Z	2	Z	2	Z	0.22
BA233	B	2	Z	2	Z	2	Z	0.82
BA234	A	2	Z	2	Z	2	Z	0.16
BA235	B	2	Z	2	Z	2	Z	1.65
BA236	A	2	Z	2	Z	2	Z	0.08
BA238	B	2	Z	2	Z	2	Z	0.55
BA241	B	2	Z		Z	2	Z	1.67
BA247	B	2	Z	2	Z	2	Z	1.27
BA248	A	2	Z	2	Z	2	Z	0.16
BA249	B	2	Z	2	Z	2	Z	0.38
BA250	B	2	Z	2	Z	2	Z	0.85
BA251	B	2	Z	2	Z	2	Z	1.11
BA252	A	2	Z	2	Z	2	Z	0.16
BA253	B	2	Z	2	Z	2	Z	0.27
BA257	B	2	Z	2	Z	2	Z	0.33
BA258	A	2	Z	2	Z	2	Z	0.21
BA26	B	2	Z	2	Z	2	Z	0.28
BA260	B	2	Z	2	Z	2	Z	0.43
BA265	A	2	Z	2	Z	2	Z	0.23
BA267	A	2	Z	2	Z	2	Z	0.06
BA27	B	2	Z	2	Z	2	Z	0.44

		Maintenance Level and Season of Use						
BA271	A	2	Z	2	Z	2	Z	0.07
BA272	A	2	Z	2	Z	2	Z	0.10
BA273	B	2	Z	2	Z	2	Z	0.61
BA278	A	2	Z	2	Z	2	Z	0.05
BA279	B	2	Z	2	Z	2	Z	0.27
BA28	B	2	Z	2	Z	2	Z	0.41
BA283	A	2	Z	2	Z	2	Z	0.22
BA284	A	2	Z	2	Z	2	Z	0.23
BA286	B	2	Z	2	Z	2	Z	0.81
BA288	B	2	Z	2	Z	2	Z	0.59
BA290	B	2	Z	2	Z	2	Z	1.18
BA296	A	2	Z	2	Z	2	Z	0.25
BA297	B	2	Z	2	Z	2	Z	1.37
BA3	A	2	Z	2	Z	2	Z	0.09
BA347	C	2	Z	2	Z	2	Z	0.10
BA35	B	2	Z		Z	2	Z	0.61
BA357	A	2	Z	2	Z	2	Z	0.04
BA358	A	2	Z	2	Z	2	Z	0.09
BA359	A	2	Z	2	Z	2	Z	0.09
BA36	A	2	Z		Z	2	Z	0.05
BA363	A	2	Z	2	Z	2	Z	0.07
BA365	B	2	Z	2	Z	2	Z	0.74
BA366	B	2	Z	2	Z	2	Z	0.27
BA368	B	2	Z	2	Z	2	Z	0.41
BA369	A	2	Z	2	Z	2	Z	0.08
BA37	B	2	Z	2	Z	2	Z	0.71
BA370	A	2	Z	2	Z	2	Z	0.09
BA371	A	2	Z	2	Z	2	Z	0.02
BA373	A	2	Z		Z	2	Z	0.13

		Maintenance Level and Season of Use						
BA377	B	2	Z		Z	2	Z	0.30
BA378	A	2	Z		Z	2	Z	0.21
BA379	B	2	Z		Z	2	Z	0.51
BA38	B	2	Z	2	Z	2	Z	1.37
BA380	A	2	Z		Z	2	Z	0.16
BA385	B	2	Z		Z	2	Z	0.35
BA386	B	2	Z		Z	2	Z	0.39
BA387	A	2	Z	2	Z	2	Z	0.04
BA389	A	2	Z		Z	2	Z	0.17
BA394	A	2	Z		Z	2	Z	0.13
BA395	B	2	Z		Z	2	Z	0.49
BA396	A	2	Z		Z	2	Z	0.16
BA397	B	2	Z		Z	2	Z	0.64
BA398	A	2	Z		Z	2	Z	0.26
BA406	B	2	Z	2	Z	2	Z	0.53
BA407	B	2	Z	2	Z	2	Z	0.62
BA408	B	2	Z	2	Z	2	Z	0.60
BA410	B	2	Z	2	Z	2	Z	0.57
BA411	A	2	Z	2	Z	2	Z	0.05
BA412	B	2	Z	2	Z	2	Z	0.67
BA413	A	2	Z	2	Z	2	Z	0.08
BA423	A	2	Z	2	Z	2	Z	0.06
BA425	A	2	Z	2	Z	2	Z	0.03
BA43	B	2	Z	2	Z	2	Z	0.46
BA431	A	2	Z	2	Z	2	Z	0.03
BA438	B	2	Z		Z	2	Z	0.26
BA442	A	2	Z	2	Z	2	Z	0.08
BA443	A	2	Z	2	Z	2	Z	0.06
BA444	B	2	Z	2	Z	2	Z	0.71

		Maintenance Level and Season of Use						
BA445	B	2	Z	2	Z	2	Z	1.00
BA446	A	2	Z	2	Z	2	Z	0.14
BA447	B	2	Z	2	Z	2	Z	0.70
BA448	A	2	Z	2	Z	2	Z	0.19
BA449	A	2	Z	2	Z	2	Z	0.04
BA452	A	2	Z	2	Z	2	Z	0.03
BA453	A	2	Z	2	Z	2	Z	0.18
BA454	B	2	Z	2	Z	2	Z	0.48
BA456	A	2	Z	2	Z	2	Z	0.21
BA458	A	2	Z	2	Z	2	Z	0.06
BA463	A	2	Z	2	Z	2	Z	0.05
BA464	A	2	Z	2	Z	2	Z	0.05
BA465A	A	2	Z	2	Z	2	Z	0.21
BA467	A	2	Z	2	Z	2	Z	0.13
BA47	B	2	Z	2	Z	2	Z	0.31
BA470	B	2	Z	2	Z	2	Z	0.29
BA471	A	2	Z	2	Z	2	Z	0.10
BA472	A	2	Z	2	Z	2	Z	0.12
BA473	A	2	Z	2	Z	2	Z	0.15
BA474	A	2	Z	2	Z	2	Z	0.11
BA475	B	2	Z		Z	2	Z	0.53
BA478	B	2	Z		Z	2	Z	0.40
BA479	B	2	Z		Z	2	Z	0.38
BA48	A	2	Z	2	Z	2	Z	0.09
BA482	B	2	Z	2	Z	2	Z	0.68
BA485	A	2	Z		Z	2	Z	0.11
BA489	A	2	Z	2	Z	2	Z	0.03
BA490	A	2	Z	2	Z	2	Z	0.07
BA491	B	2	Z		Z	2	Z	0.29

		Maintenance Level and Season of Use						
BA492	A	2	Z	2	Z	2	Z	0.06
BA493	A	2	Z	2	Z	2	Z	0.05
BA495	C	2	Z	2	Z	2	Z	0.41
BA496	C	2	Z	2	Z	2	Z	0.06
BA497	C	2	Z		Z	2	Z	0.22
BA498	A	2	Z	2	Z	2	Z	0.12
BA499	A	2	Z	2	Z	2	Z	0.16
BA501	C	2	Z	2	Z	2	Z	1.70
BA503	A	2	Z	2	Z	2	Z	0.16
BA51	A	2	Z	2	Z	2	Z	0.08
BA52	B	2	Z	2	Z	2	Z	0.33
BA54	A	2	Z	2	Z	2	Z	0.06
BA540	B	2	Z	2	Z	2	Z	0.31
BA541	A	2	Z	2	Z	2	Z	0.17
BA542	A	2	Z	2	Z	2	Z	0.13
BA543	A	2	Z	2	Z	2	Z	0.15
BA544	A	2	Z	2	Z	2	Z	0.08
BA545	A	2	Z	2	Z	2	Z	0.19
BA546	A	2	Z	2	Z	2	Z	0.03
BA549	A	2	Z	2	Z	2	Z	0.08
BA55	A	2	Z	2	Z	2	Z	0.17
BA553	A	2	W	2	W	2	Y	0.12
BA554	A	2	W	2	W	2	Y	0.07
BA555	A	2	W	2	W	2	Y	0.10
BA556	A	2	W	2	W	2	Y	0.10
BA557	A	2	W	2	W	2	Y	0.25
BA558	A	2	W	2	W	2	Y	0.10
BA559	A	2	W	2	W	2	Y	0.18
BA560	A	2	W	2	W	2	Y	0.12

		Maintenance Level and Season of Use						
BA564	A	2	W	2	W	2	Y	0.18
BA566	B	2	W	2	W	2	Y	0.28
BA57	B	2	Z	2	Z	2	Z	0.27
BA572	B	2	W	2	W	2	Y	0.43
BA573	A	2	W	2	W	2	Y	0.17
BA574	B	2	W	2	W	2	Y	0.54
BA576	A	2	W	2	W	2	Y	0.06
BA577	A	2	Z	2	Z	2	Z	0.03
BA62	A	2	Z	2	Z	2	Z	0.07
BA63	B	2	Z	2	Z	2	Z	0.30
BA65	B	2	Z	2	Z	2	Z	0.28
BA67	C	2	Z	2	Z	2	Z	1.79
BA71	B	2	Z	2	Z	2	Z	0.97
BA72	A	2	Z	2	Z	2	Z	0.11
BA77	A	2	Z	2	Z	2	Z	0.02
BA80	A	2	Z	2	Z	2	Z	0.19
BA81	A	2	Z	2	Z	2	Z	0.05
BA82	B	2	Z	2	Z	2	Z	1.21
BA87	A	2	Z		Z	2	Z	0.18
BA88	B	2	Z		Z	2	Z	1.44
BA91	A	2	Z	2	Z	2	Z	0.11
BA93	A	2	Z	2	Z	2	Z	0.23
BA94	B	2	Z		Z	2	Z	0.27
BA95	B	2	Z		Z	2	Z	0.88
BG10	B	2	Z	2	Z	2	Z	0.67
BG12	A	2	Z	2	Z	2	Z	0.18
BG14	A	2	Z	2	Z	2	Z	0.17
BG16	A	2	Z	2	Z	2	Z	0.17
BG19	B	2	Z	2	Z	2	Z	0.85

		Maintenance Level and Season of Use						
BG2	B	2	Z	2	Z	2	Z	0.89
BG31	A	2	Z	2	Z	2	Z	0.10
BG32	A	2	Z	2	Z	2	Z	0.04
BG35	B	2	Z		Z	2	Z	0.32
BG39	A	2	X	2	X	2	Y	0.12
BG40	B	2	X	2	X	2	Y	0.35
BG41	A	2	X	2	X	2	Y	0.09
BG44	A	2	Z	2	Z	2	Z	0.13
BG47	B	2	X		Z	2	Y	0.69
BG49	B	2	X		Z	2	Y	1.92
BG5	A	2	Z		Z	2	Z	0.20
BG7	B	2	Z	2	Z	2	Z	0.56
BG8	B	2	Z		Z	2	Z	0.58
DJ13	A	2	Z	2	Z	2	Z	0.21
DJ14	A	2	Z	2	Z	2	Z	0.13
DJ15	A	2	Z	2	Z	2	Z	0.22
DJ22	A	2	Z		Z	2	Z	0.08
DJ25	A	2	Z	2	Z	2	Z	0.13
DJ27	A	2	Z		Z	2	Z	0.24
DJ28	B	2	Z		Z	2	Z	0.45
DJ3	A	2	Z	2	Z	2	Z	0.20
JW2110	A	2	W	2	W	2	Y	0.16
JW2111	A	2	W	2	W	2	Y	0.05
JW2112	A	2	W	2	W	2	Y	0.06
JW2113	A	2	Z	2	Z	2	Z	0.03
JW2115	A	2	W	2	W	2	Y	0.12
JW2116A	A	2	W	2	W	2	Y	0.28
JW2116B	B	2	W	2	W	2	Y	0.38
JW2117	A	2	W	2	W	2	Y	0.10

		Maintenance Level and Season of Use						
JW2119	A	2	Z	2	Z	2	Z	0.07
JW2120	A	2	Z	2	Z	2	Z	0.14
JW2121	A	2	Z	2	Z	2	Z	0.04
JW2122	A	2	Z	2	Z	2	Z	0.22
JW2123	A	2	Z	2	Z	2	Z	0.15
JW2124	A	2	Z	2	Z	2	Z	0.03
JW2126	B	2	Z	2	Z	2	Z	0.47
JW2127	B	2	Z	2	Z	2	Z	0.29
JW2128	A	2	Z	2	Z	2	Z	0.22
JW2129	A	2	Z	2	Z	2	Z	0.25
JW2130	A	2	Z	2	Z	2	Z	0.17
JW2132	A	2	Z	2	Z	2	Z	0.03
JW2134	A	2	Z		Z	2	Z	0.02
JW2135	A	2	Z	2	Z	2	Z	0.13
JW2136	A	2	Z		Z	2	Z	0.07
JW2137	B	2	Z		Z	2	Z	0.40
JW2138	A	2	Z		Z	2	Z	0.15
JW2140	A	2	Z		Z	2	Z	0.16
JW59	A	2	Z	2	Z	2	Z	0.24
JW60	A	2	Z	2	Z	2	Z	0.09
JW61	B	2	Z	2	Z	2	Z	0.75
JW62	A	2	Z	2	Z	2	Z	0.12
JW63	A	2	Z	2	Z	2	Z	0.13
JW64	B	2	Z	2	Z	2	Z	0.37
JW65	B	2	Z	2	Z	2	Z	0.30
JW66	B	2	Z	2	Z	2	Z	1.30
JW67	A	2	Z	2	Z	2	Z	0.17
JW68	A	2	Z	2	Z	2	Z	0.03
JW69	A	2	Z	2	Z	2	Z	0.22

		Maintenance Level and Season of Use						
JW70	A	2	Z	2	Z	2	Z	0.16
JW71	B	2	Z	2	Z	2	Z	0.93
JW72	B	2	Z	2	Z	2	Z	0.44
JW74	B	2	Z	2	Z	2	Z	0.56
JW75	B	2	Z	2	Z	2	Z	0.32
JW78	B	2	Z	2	Z	2	Z	0.83
JW79	B	2	Z	2	Z	2	Z	0.49
JW80	A	2	Z	2	Z	2	Z	0.08
JW81	B	2	Z	2	Z	2	Z	0.97
JW82	B	2	Z	2	Z	2	Z	0.44
ML10	B	2	Z	2	Z	2	Z	0.77
ML1001	A	2	Z	2	Z	2	Z	0.02
ML1002A	A	2	Z	2	Z	2	Z	0.04
ML1002B	A	2	Z	2	Z	2	Z	0.12
ML1009	A	2	Z	2	Z	2	Z	0.21
ML101	B	2	X	2	X	2	Y	0.36
ML1010	A	2	Z	2	Z	2	Z	0.18
ML1016	B	2	Z	2	Z	2	Z	1.01
ML103	B	2	X	2	X	2	Y	0.75
ML104	B	2	X	2	X	2	Y	1.19
ML105	B	2	Z	2	Z	2	Z	1.46
ML106	A	2	Z	2	Z	2	Z	0.13
ML108	B	2	Z	2	Z	2	Z	0.43
ML109	A	2	Z	2	Z	2	Z	0.16
ML111	A	2	Z	2	Z	2	Z	0.15
ML112	A	2	Z	2	Z	2	Z	0.19
ML114	B	2	Z	2	Z	2	Z	0.68
ML115	A	2	Z	2	Z	2	Z	0.18
ML116	A	2	Z	2	Z	2	Z	0.16

		Maintenance Level and Season of Use						
ML119	B	2	Z	2	Z	2	Z	0.34
ML12	A	2	Z	2	Z	2	Z	0.15
ML120	B	2	Z	2	Z	2	Z	0.52
ML121	B	2	Z	2	Z	2	Z	0.92
ML123	B	2	Z	2	Z	2	Z	0.91
ML124	A	2	Z	2	Z	2	Z	0.24
ML126	A	2	X	2	X	2	Y	0.17
ML13	A	2	Z	2	Z	2	Z	0.12
ML1300	B	2	Z	2	Z	2	Z	1.31
ML1304	A	2	Z	2	Z	2	Z	0.08
ML1307	A	2	Z	2	Z	2	Z	0.06
ML1308	A	2	Z	2	Z	2	Z	0.19
ML1310	B	2	Z	2	Z	2	Z	0.38
ML135	A	2	Z	2	Z	2	Z	0.08
ML136	A	2	Z	2	Z	2	Z	0.04
ML14	A	2	Z	2	Z	2	Z	0.25
ML140	A	2	Z	2	Z	2	Z	0.05
ML141	A	2	Z	2	Z	2	Z	0.04
ML145	B	2	Z	2	Z	2	Z	0.82
ML146	B	2	Z	2	Z	2	Z	1.69
ML148	B	2	Z	2	Z	2	Z	0.52
ML15	B	2	Z	2	Z	2	Z	0.28
ML150	B	2	Z	2	Z	2	Z	0.49
ML164	B	2	Z	2	Z	2	Z	0.57
ML166	A	2	Z	2	Z	2	Z	0.23
ML17	A	2	Z	2	Z	2	Z	0.09
ML172	B	2	Z	2	Z	2	Z	0.30
ML173	B	2	Z	2	Z	2	Z	0.32
ML175	B	2	Z	2	Z	2	Z	0.30

		Maintenance Level and Season of Use						
ML177	B	2	Z	2	Z	2	Z	0.37
ML178	B	2	Z	2	Z	2	Z	1.02
ML18	B	2	Z	2	Z	2	Z	0.33
ML180	A	2	Z	2	Z	2	Z	0.11
ML181A	C	2	Z	2	Z	2	Z	1.60
ML19	A	2	Z	2	Z	2	Z	0.07
ML198	A	2	Z	2	Z	2	Z	0.14
ML20	A	2	Z		Z	2	Z	0.04
ML2000	C	2	Z	2	Z	2	Z	0.76
ML2002	A	2	Z	2	Z	2	Z	0.14
ML2004	A	2	Z	2	Z	2	Z	0.08
ML2005	A	2	Z	2	Z	2	Z	0.10
ML2006	A	2	Z	2	Z	2	Z	0.14
ML201	A	2	Z	2	Z	2	Z	0.05
ML2010	A	2	Z	2	Z	2	Z	0.10
ML2015	A	2	Z	2	Z	2	Z	0.03
ML2018	B	2	Z	2	Z	2	Z	0.40
ML202	A	2	Z	2	Z	2	Z	0.09
ML2023	A	2	Z	2	Z	2	Z	0.02
ML2024	A	2	Z	2	Z	2	Z	0.09
ML2028	A	2	Z	2	Z	2	Z	0.02
ML203	A	2	Z	2	Z	2	Z	0.12
ML2030	A	2	Z	2	Z	2	Z	0.07
ML2031	B	2	Z	2	Z	2	Z	0.39
ML2035	A	2	Z	2	Z	2	Z	0.11
ML2036	A	2	Z	2	Z	2	Z	0.07
ML2037	A	2	Z	2	Z	2	Z	0.07
ML2038	A	2	Z	2	Z	2	Z	0.16
ML2042	A	2	Z	2	Z	2	Z	0.03

		Maintenance Level and Season of Use						
ML2043	A	2	Z	2	Z	2	Z	0.12
ML2044	A	2	Z	2	Z	2	Z	0.02
ML2045	A	2	Z	2	Z	2	Z	0.08
ML2047	B	2	Z	2	Z	2	Z	0.41
ML2048	B	2	Z	2	Z	2	Z	0.84
ML2049	A	2	Z	2	Z	2	Z	0.21
ML2050	A	2	Z	2	Z	2	Z	0.09
ML2051	A	2	Z	2	Z	2	Z	0.06
ML2052	A	2	Z	2	Z	2	Z	0.11
ML2054	B	2	Z	2	Z	2	Z	1.05
ML206	A	2	X	2	X	2	Y	0.05
ML2060	B	2	Z	2	Z	2	Z	0.33
ML2061	B	2	Z	2	Z	2	Z	0.31
ML2063	A	2	Z	2	Z	2	Z	0.16
ML2067	A	2	Z	2	Z	2	Z	0.19
ML207	A	2	X	2	X	2	Y	0.06
ML2070	A	2	Z	2	Z	2	Z	0.05
ML2075	A	2	Z	2	Z	2	Z	0.04
ML208	A	2	X	2	X	2	Y	0.06
ML2081	A	2	Z		Z	2	Z	0.09
ML2085	A	2	Z		Z	2	Z	0.13
ML209	B	2	X	2	X	2	Y	0.47
ML2093	A	2	Z		Z	2	Z	0.05
ML2095	A	2	Z		Z	2	Z	0.12
ML21	A	2	Z		Z	2	Z	0.23
ML214	B	2	Z	2	Z	2	Z	0.82
ML231	A	2	Z	2	Z	2	Z	0.23
ML233	C	2	Z	2	Z	2	Z	0.28

		Maintenance Level and Season of Use						
ML234	A	2	Z	2	Z	2	Z	0.04
ML238	A	2	Z	2	Z	2	Z	0.07
ML24	A	2	Z	2	Z	2	Z	0.17
ML244	C	2	Z	2	Z	2	Z	0.04
ML25	A	2	Z	2	Z	2	Z	0.07
ML250	B	2	Z		Z	2	Z	1.73
ML251	B	2	Z		Z	2	Z	0.46
ML26	B	2	Z	2	Z	2	Z	0.35
ML260	B	2	Z		Z	2	Z	2.07
ML263	A	2	Z	2	Z	2	Z	0.04
ML264	C	2	Z	2	Z	2	Z	0.60
ML27	A	2	Z	2	Z	2	Z	0.10
ML274	A	2	Z	2	Z	2	Z	0.03
ML283	B	2	Z	2	Z	2	Z	1.07
ML286	A	2	Z	2	Z	2	Z	0.03
ML287	A	2	Z	2	Z	2	Z	0.08
ML288	C	2	Z	2	Z	2	Z	0.13
ML29	A	2	Z	2	Z	2	Z	0.03
ML293	C	2	Z	2	Z	2	Z	1.94
ML299	C	2	Z	2	Z	2	Z	2.27
ML3	B	2	Z	2	Z	2	Z	0.49
ML300	C	2	Z	2	Z	2	Z	3.63
ML301	A	2	Z	2	Z	2	Z	0.24
ML302	C	2	Z	2	Z	2	Z	0.62
ML303	A	2	Z	2	Z	2	Z	0.17
ML304	A	2	Z	2	Z	2	Z	0.24
ML305	A	2	Z	2	Z	2	Z	0.02
ML306	A	2	Z	2	Z	2	Z	0.07

		Maintenance Level and Season of Use						
ML307	B	2	Z	2	Z	2	Z	0.49
ML308	A	2	Z	2	Z	2	Z	0.18
ML309	A	2	Z	2	Z	2	Z	0.14
ML310	A	2	Z	2	Z	2	Z	0.10
ML312	B	2	Z	2	Z	2	Z	0.70
ML315	A	2	Z	2	Z	2	Z	0.09
ML317	A	2	Z	2	Z	2	Z	0.08
ML318	C	2	Z	2	Z	2	Z	0.21
ML320	B	2	Z	2	Z	2	Z	0.44
ML322	C	2	Z	2	Z	2	Z	1.22
ML323	C	2	Z	2	Z	2	Z	0.29
ML324	C	2	Z	2	Z	2	Z	0.06
ML327	C	2	Z	2	Z	2	Z	1.36
ML328	C	2	Z	2	Z	2	Z	1.39
ML329	A	2	Z	2	Z	2	Z	0.09
ML330	A	2	Z	2	Z	2	Z	0.10
ML336	A	2	Z	2	Z	2	Z	0.06
ML337	A	2	Z	2	Z	2	Z	0.04
ML338	A	2	Z	2	Z	2	Z	0.11
ML340	B	2	Z	2	Z	2	Z	0.48
ML343	B	2	Z	2	Z	2	Z	0.27
ML344	A	2	Z	2	Z	2	Z	0.14
ML348	A	2	Z		Z	2	Z	0.09
ML353	A	2	Z	2	Z	2	Z	0.06
ML354	B	2	Z	2	Z	2	Z	0.97
ML355	B	2	Z	2	Z	2	Z	1.69
ML358	A	2	Z	2	Z	2	Z	0.12
ML359	A	2	Z	2	Z	2	Z	0.07

		Maintenance Level and Season of Use						
ML36	A	2	Z	2	Z	2	Z	0.08
ML360	B	2	Z	2	Z	2	Z	0.50
ML37	B	2	Z	2	Z	2	Z	0.28
ML370	A	2	Z	2	Z	2	Z	0.11
ML372	A	2	Z		Z	2	Z	0.05
ML373	A	2	Z	2	Z	2	Z	0.04
ML374	A	2	Z		Z	2	Z	0.04
ML375	C	2	Z		Z	2	Z	0.07
ML377	A	2	Z	2	Z	2	Z	0.14
ML378	A	2	Z	2	Z	2	Z	0.02
ML379	C	2	Z	2	Z	2	Z	0.18
ML380	A	2	Z	2	Z	2	Z	0.04
ML381	A	2	Z	2	Z	2	Z	0.05
ML382	B	2	Z	2	Z	2	Z	0.62
ML383	B	2	Z	2	Z	2	Z	1.34
ML384	B	2	Z	2	Z	2	Z	0.48
ML385	B	2	Z	2	Z	2	Z	0.39
ML386	B	2	Z	2	Z	2	Z	0.31
ML387	B	2	Z	2	Z	2	Z	0.29
ML388	A	2	Z	2	Z	2	Z	0.10
ML39	A	2	Z	2	Z	2	Z	0.26
ML390	B	2	Z	2	Z	2	Z	0.51
ML391	A	2	Z	2	Z	2	Z	0.19
ML392	A	2	Z	2	Z	2	Z	0.08
ML394	A	2	Z	2	Z	2	Z	0.08
ML395	A	2	Z	2	Z	2	Z	0.07
ML396	A	2	Z	2	Z	2	Z	0.11
ML4	B	2	Z	2	Z	2	Z	0.35
ML40	B	2	Z	2	Z	2	Z	0.32

		Maintenance Level and Season of Use						
ML401	B	2	Z	2	Z	2	Z	0.27
ML4012	A	2	Z	2	Z	2	Z	0.02
ML4013	A	2	Z	2	Z	2	Z	0.03
ML4017	A	2	Z	2	Z	2	Z	0.01
ML4018	B	2	Z	2	Z	2	Z	0.35
ML4019	A	2	Z	2	Z	2	Z	0.03
ML4022	A	2	Z	2	Z	2	Z	0.03
ML4023	A	2	Z	2	Z	2	Z	0.02
ML4024	A	2	Z	2	Z	2	Z	0.07
ML4029	A	2	Z	2	Z	2	Z	0.02
ML4030	B	2	Z	2	Z	2	Z	0.38
ML4034	A	2	Z	2	Z	2	Z	0.02
ML4035	A	2	Z	2	Z	2	Z	0.09
ML4036	A	2	Z	2	Z	2	Z	0.03
ML4037	A	2	Z	2	Z	2	Z	0.03
ML4039	A	2	Z	2	Z	2	Z	0.04
ML404	A	2	Z	2	Z	2	Z	0.08
ML4041	A	2	Z	2	Z	2	Z	0.03
ML4043	A	2	Z	2	Z	2	Z	0.07
ML4045	B	2	Z	2	Z	2	Z	0.61
ML4046	A	2	Z	2	Z	2	Z	0.01
ML4048	C	2	Z	2	Z	2	Z	0.15
ML405	A	2	Z	2	Z	2	Z	0.03
ML406	A	2	Z	2	Z	2	Z	0.17
ML410	B	2	Z	2	Z	2	Z	1.08
ML415	B	2	Z	2	Z	2	Z	0.83
ML416	A	2	Z	2	Z	2	Z	0.05
ML417	A	2	Z		Z	2	Z	0.16
ML418	A	2	Z	2	Z	2	Z	0.13

		Maintenance Level and Season of Use						
ML421	B	2	Z	2	Z	2	Z	0.53
ML425	A	2	Z	2	Z	2	Z	0.22
ML43	A	2	Z	2	Z	2	Z	0.12
ML432	C	2	Z		Z	2	Z	0.21
ML434	B	2	Z		Z	2	Z	0.49
ML436	B	2	Z		Z	2	Z	0.43
ML443	A	2	Z	2	Z	2	Z	0.11
ML461	A	2	Z		Z	2	Z	0.24
ML467	A	2	Z	2	Z	2	Z	0.05
ML469	A	2	Z		Z	2	Z	0.06
ML477	A	2	Z		Z	2	Z	0.25
ML479	A	2	Z	2	Z	2	Z	0.11
ML48	A	2	Z	2	Z	2	Z	0.09
ML481	A	2	Z		Z	2	Z	0.07
ML482	A	2	Z	2	Z	2	Z	0.11
ML486	A	2	Z	2	Z	2	Z	0.08
ML488	C	2	Z		Z	2	Z	0.27
ML491	A	2	Z	2	Z	2	Z	0.04
ML492	B	2	Z	2	Z	2	Z	0.67
ML496	B	2	Z	2	Z	2	Z	0.37
ML499	B	2	Z	2	Z	2	Z	0.56
ML50	A	2	Z	2	Z	2	Z	0.23
ML500	A	2	Z	2	Z	2	Z	0.05
ML502	A	2	Z	2	Z	2	Z	0.08
ML504	B	2	Z	2	Z	2	Z	0.47
ML505	A	2	Z	2	Z	2	Z	0.05
ML506	B	2	Z	2	Z	2	Z	0.31
ML508	A	2	Z	2	Z	2	Z	0.09
ML509	A	2	Z	2	Z	2	Z	0.12

		Maintenance Level and Season of Use						
ML51	A	2	Z	2	Z	2	Z	0.08
ML510	A	2	Z	2	Z	2	Z	0.17
ML513	B	2	Z	2	Z	2	Z	0.49
ML514	B	2	Z	2	Z	2	Z	0.87
ML516	B	2	Z	2	Z	2	Z	0.60
ML518	B	2	Z	2	Z	2	Z	0.33
ML520	C	2	Z		Z	2	Z	0.11
ML524A	B	2	Z	2	Z	2	Z	0.39
ML526	A	2	Z	2	Z	2	Z	0.08
ML527	B	2	Z	2	Z	2	Z	0.61
ML535	A	2	Z	2	Z	2	Z	0.05
ML537	C	2	Z	2	Z	2	Z	1.16
ML543	B	2	Z	2	Z	2	Z	0.67
ML546	B	2	Z	2	Z	2	Z	0.55
ML547	A	2	Z	2	Z	2	Z	0.03
ML548	B	2	Z	2	Z	2	Z	0.31
ML549	A	2	Z	2	Z	2	Z	0.16
ML551	B	2	Z	2	Z	2	Z	0.78
ML552	B	2	Z	2	Z	2	Z	0.85
ML553	A	2	Z	2	Z	2	Z	0.09
ML556	C	2	Z	2	Z	2	Z	1.50
ML566	A	2	Z	2	Z	2	Z	0.03
ML577	B	2	Z	2	Z	2	Z	0.30
ML578	A	2	Z	2	Z	2	Z	0.07
ML58	A	2	Z	2	Z	2	Z	0.04
ML580	A	2	Z	2	Z	2	Z	0.15
ML583	A	2	Z	2	Z	2	Z	0.05
ML584	A	2	Z	2	Z	2	Z	0.10
ML589	C	2	Z	2	Z	2	Z	0.06

		Maintenance Level and Season of Use						
ML591	B	2	Z		Z	2	Z	0.42
ML592	B	2	Z	2	Z	2	Z	0.92
ML60	A	2	Z	2	Z	2	Z	0.16
ML62	A	2	Z	2	Z	2	Z	0.12
ML63	A	2	Z	2	Z	2	Z	0.10
ML64	B	2	Z	2	Z	2	Z	0.40
ML66	C	2	Z	2	Z	2	Z	0.07
ML67	A	2	Z	2	Z	2	Z	0.04
ML68	A	2	Z	2	Z	2	Z	0.14
ML71	A	2	Z	2	Z	2	Z	0.06
ML72	A	2	Z	2	Z	2	Z	0.05
ML73	A	2	Z	2	Z	2	Z	0.23
ML76	A	2	Z	2	Z	2	Z	0.14
ML78	C	2	Z	2	Z	2	Z	0.10
ML79	C	2	Z	2	Z	2	Z	0.08
ML8	A	2	Z	2	Z	2	Z	0.17
ML84	C	2	X	2	X	2	Y	0.10
ML85	C	2	X	2	X	2	Y	0.34
ML88	B	2	Z	2	Z	2	Z	0.49
ML89	A	2	Z	2	Z	2	Z	0.03
ML9	C	2	Z		Z	2	Z	1.29
ML90	A	2	Z	2	Z	2	Z	0.12
ML91	B	2	Z	2	Z	2	Z	0.70
ML92	A	2	Z	2	Z	2	Z	0.06
ML94	B	2	X		Z	2	Y	0.37
ML96	A	2	X		Z	2	Y	0.24
ML97	A	2	X		Z	2	Y	0.08
ML99	B	2	X	2	X	2	Y	0.45
PA1	A	2	Z	2	Z	2	Z	0.02

		Maintenance Level and Season of Use						
PA10	B	2	Z	2	Z	2	Z	0.46
PA11	A	2	Z	2	Z	2	Z	0.02
PA13	A	2	Z	2	Z	2	Z	0.09
PA14	C	2	Z	2	Z	2	Z	0.07
PA15	A	2	Z	2	Z	2	Z	0.15
PA16	A	2	Z	2	Z	2	Z	0.04
PA17	A	2	Z	2	Z	2	Z	0.19
PA18	B	2	Z	2	Z	2	Z	0.31
PA2	A	2	Z	2	Z	2	Z	0.07
PA3	A	2	Z	2	Z	2	Z	0.05
PA30	A	2	Z	2	Z	2	Z	0.05
PA38	A	2	Z	2	Z	2	Z	0.04
PA39	A	2	Z	2	Z	2	Z	0.03
PA4	A	2	Z	2	Z	2	Z	0.03
PA40	A	2	Z	2	Z	2	Z	0.15
PA7	A	2	Z	2	Z	2	Z	0.09
PK1	A	2	Z	2	Z	2	Z	0.05
PK10	B	2	Z	2	Z	2	Z	1.49
PK11	B	2	Z	2	Z	2	Z	0.27
PK13	B	2	Z	2	Z	2	Z	0.86
PK14	A	2	Z	2	Z	2	Z	0.05
PK15	A	2	Z	2	Z	2	Z	0.12
PK16	A	2	Z	2	Z	2	Z	0.18
PK17	A	2	Z	2	Z	2	Z	0.26
PK18	A	2	Z	2	Z	2	Z	0.12
PK19	A	2	Z	2	Z	2	Z	0.12
PK20	B	2	Z	2	Z	2	Z	0.40
PK21	A	2	Z	2	Z	2	Z	0.05
PK22	A	2	Z	2	Z	2	Z	0.07

		Maintenance Level and Season of Use						
PK23	A	2	Z	2	Z	2	Z	0.13
PK24	A	2	Z	2	Z	2	Z	0.04
PK25	B	2	Z	2	Z	2	Z	0.85
PK26	A	2	Z	2	Z	2	Z	0.06
PK27A	A	2	Z	2	Z	2	Z	0.05
PK27AA	A	2	Z	2	Z	2	Z	0.11
PK28	A	2	Z	2	Z	2	Z	0.05
PK31	A	2	Z	2	Z	2	Z	0.11
PK4	A	2	Z	2	Z	2	Z	0.03
PK5	A	2	Z	2	Z	2	Z	0.17
PK6	A	2	Z	2	Z	2	Z	0.22
PK8	A	2	Z	2	Z	2	Z	0.18
PK9	A	2	Z	2	Z	2	Z	0.03
PUB003	B	2	Z		Z	2	Z	1.00
PUB009	B	2	Z	2	Z	2	Z	0.53
PUB010	A	2	Z	2	Z	2	Z	0.03
PUB011	A	2	Z	2	Z	2	Z	0.04
PUB012	A	2	Z		Z	2	Z	0.05
PUB013	C	2	Z	2	Z	2	Z	0.05
PUB017	A	2	Z	2	Z	2	Z	0.04
PUB018	A	2	Z	2	Z	2	Z	0.05
PUB019	A	2	Z	2	Z	2	Z	0.02
SS01	C	2	Z	2	Z	2	Z	0.21
SS05	A	2	Z	2	Z	2	Z	0.07
SS1000	A	2	Z	2	Z	2	Z	0.03
SS1002	C	2	Z	2	Z	2	Z	2.13
SS1003	C	2	Z	2	Z	2	Z	0.06
SS1004	C	2	Z	2	Z	2	Z	0.75
SS102	A	2	Z	2	Z	2	Z	0.03

		Maintenance Level and Season of Use						
SS103	A	2	Z	2	Z	2	Z	0.04
SS106	A	2	Z	2	Z	2	Z	0.18
SS107	A	2	Z	2	Z	2	Z	0.12
SS111	A	2	Z	2	Z	2	Z	0.25
SS113	A	2	Z	2	Z	2	Z	0.24
SS115	A	2	Z	2	Z	2	Z	0.13
SS118	B	2	Z	2	Z	2	Z	0.83
SS12	A	2	Z	2	Z	2	Z	0.03
SS120	A	2	Z	2	Z	2	Z	0.04
SS121	B	2	Z	2	Z	2	Z	0.43
SS123	A	2	Z	2	Z	2	Z	0.05
SS126	A	2	Z	2	Z	2	Z	0.13
SS131	A	2	Z	2	Z	2	Z	0.05
SS132	A	2	Z	2	Z	2	Z	0.07
SS133	A	2	Z	2	Z	2	Z	0.03
SS135	B	2	Z	2	Z	2	Z	1.38
SS136	A	2	Z	2	Z	2	Z	0.07
SS140	B	2	Z		Z	2	Z	0.41
SS141	A	2	Z	2	Z	2	Z	0.04
SS150	A	2	Z	2	Z	2	Z	0.05
SS1501	B	2	Z	2	Z	2	Z	0.28
SS1507	B	2	Z	2	Z	2	Z	0.49
SS151	A	2	Z		Z	2	Z	0.06
SS164	A	2	Z		Z	2	Z	0.19
SS165	B	2	Z		Z	2	Z	0.32
SS17	C	2	Z	2	Z	2	Z	0.05
SS170	A	2	Z	2	Z	2	Z	0.06
SS171	A	2	Z	2	Z	2	Z	0.06
SS173	B	2	Z		Z	2	Z	0.42

		Maintenance Level and Season of Use						
SS174	A	2	Z		Z	2	Z	0.12
SS176	A	2	Z	2	Z	2	Z	0.08
SS177	C	2	Z	2	Z	2	Z	0.06
SS180	A	2	Z	2	Z	2	Z	0.08
SS186	A	2	Z	2	Z	2	Z	0.19
SS189	B	2	Z	2	Z	2	Z	1.47
SS192	A	2	Z	2	Z	2	Z	0.25
SS193	A	2	Z	2	Z	2	Z	0.08
SS194	A	2	Z	2	Z	2	Z	0.11
SS195	B	2	Z	2	Z	2	Z	1.03
SS197	B	2	Z	2	Z	2	Z	0.28
SS199	A	2	Z	2	Z	2	Z	0.36
SS200	A	2	Z	2	Z	2	Z	0.08
SS201	A	2	Z	2	Z	2	Z	0.18
SS202	A	2	Z	2	Z	2	Z	0.19
SS203	A	2	Z	2	Z	2	Z	0.24
SS207	A	2	Z	2	Z	2	Z	0.04
SS210	A	2	Z	2	Z	2	Z	0.04
SS211	A	2	Z	2	Z	2	Z	0.07
SS212	A	2	Z	2	Z	2	Z	0.08
SS215	A	2	Z	2	Z	2	Z	0.04
SS216	C	2	Z	2	Z	2	Z	0.27
SS22	A	2	Z	2	Z	2	Z	0.15
SS220	A	2	Z	2	Z	2	Z	0.08
SS221	A	2	Z	2	Z	2	Z	0.23
SS223	A	2	Z	2	Z	2	Z	0.11
SS224	B	2	Z	2	Z	2	Z	0.87
SS225	B	2	Z	2	Z	2	Z	0.28
SS226	A	2	Z	2	Z	2	Z	0.18

		Maintenance Level and Season of Use						
SS227	A	2	Z	2	Z	2	Z	0.05
SS228	C	2	Z	2	Z	2	Z	0.11
SS229	C	2	Z	2	Z	2	Z	0.20
SS23	B	2	Z	2	Z	2	Z	0.26
SS231	A	2	Z	2	Z	2	Z	0.03
SS232	A	2	Z	2	Z	2	Z	0.06
SS233	C	2	Z	2	Z	2	Z	0.05
SS234	A	2	Z	2	Z	2	Z	0.11
SS236	A	2	Z		Z	2	Z	0.07
SS238	B	2	Z	2	Z	2	Z	0.57
SS24	A	2	Z	2	Z	2	Z	0.24
SS240	B	2	Z	2	Z	2	Z	0.38
SS241	A	2	Z	2	Z	2	Z	0.04
SS242	B	2	Z	2	Z	2	Z	0.69
SS243	B	2	Z	2	Z	2	Z	0.43
SS244	A	2	Z		Z	2	Z	0.24
SS247	B	2	Z	2	Z	2	Z	0.50
SS248	A	2	Z	2	Z	2	Z	0.14
SS250	A	2	Z	2	Z	2	Z	0.05
SS251	A	2	Z	2	Z	2	Z	0.19
SS252	A	2	Z	2	Z	2	Z	0.26
SS254	A	2	Z	2	Z	2	Z	0.08
SS255	A	2	Z	2	Z	2	Z	0.07
SS256	A	2	Z	2	Z	2	Z	0.19
SS258	A	2	Z	2	Z	2	Z	0.11
SS259	A	2	Z	2	Z	2	Z	0.11
SS272	B	2	Z	2	Z	2	Z	0.77
SS273	B	2	Z	2	Z	2	Z	0.52
SS274	A	2	Z	2	Z	2	Z	0.18

		Maintenance Level and Season of Use						
SS275	B	2	Z	2	Z	2	Z	0.70
SS276	B	2	Z	2	Z	2	Z	1.71
SS280	A	2	Z	2	Z	2	Z	0.07
SS281	C	2	Z	2	Z	2	Z	0.07
SS282	C	2	Z	2	Z	2	Z	0.07
SS285	A	2	Z	2	Z	2	Z	0.04
SS286	B	2	Z	2	Z	2	Z	0.50
SS287	A	2	Z	2	Z	2	Z	0.07
SS288	B	2	Z	2	Z	2	Z	0.43
SS289	A	2	Z	2	Z	2	Z	0.15
SS290	A	2	Z	2	Z	2	Z	0.14
SS293	B	2	Z	2	Z	2	Z	1.08
SS295	B	2	Z	2	Z	2	Z	1.98
SS299	A	2	Z	2	Z	2	Z	0.12
SS300	B	2	Z	2	Z	2	Z	0.79
SS301	A	2	Z	2	Z	2	Z	0.04
SS303	A	2	Z	2	Z	2	Z	0.05
SS305	B	2	Z	2	Z	2	Z	2.15
SS306	B	2	Z	2	Z	2	Z	0.95
SS307	B	2	Z	2	Z	2	Z	0.41
SS308	B	2	Z	2	Z	2	Z	0.43
SS309	A	2	Z	2	Z	2	Z	0.06
SS310	A	2	Z	2	Z	2	Z	0.06
SS312	B	2	Z	2	Z	2	Z	0.86
SS315	A	2	Z	2	Z	2	Z	0.25
SS318	A	2	Z	2	Z	2	Z	0.17
SS319	B	2	Z	2	Z	2	Z	0.92
SS320	B	2	Z	2	Z	2	Z	0.45
SS321	B	2	Z	2	Z	2	Z	0.99

		Maintenance Level and Season of Use						
SS322	B	2	Z	2	Z	2	Z	0.27
SS324	B	2	Z	2	Z	2	Z	0.38
SS325	B	2	Z	2	Z	2	Z	1.26
SS327	B	2	Z	2	Z	2	Z	0.65
SS328	B	2	Z	2	Z	2	Z	0.36
SS337	B	2	Z	2	Z	2	Z	0.43
SS338	B	2		2		2		0.44
SS339	B	2	Z	2	Z	2	Z	0.28
SS345	B	2	Z		Z	2	Z	0.26
SS346	A	2	Z		Z	2	Z	0.20
SS350	B	2	Z		Z	2	Z	0.50
SS351	B	2	Z		Z	2	Z	0.50
SS352	A	2	Z		Z	2	Z	0.14
SS353	A	2	Z		Z	2	Z	0.04
SS354	A	2	Z		Z	2	Z	0.07
SS358	A	2	Z	2	Z	2	Z	0.17
SS359	A	2	Z	2	Z	2	Z	0.15
SS363	B	2	Z	2	Z	2	Z	0.31
SS364	A	2	Z	2	Z	2	Z	0.16
SS366	A	2	Z	2	Z	2	Z	0.07
SS367	B	2	Z	2	Z	2	Z	0.45
SS373	A	2	Z	2	Z	2	Z	0.15
SS374	A	2	Z	2	Z	2	Z	0.05
SS375	A	2	Z	2	Z	2	Z	0.22
SS376	A	2	Z	2	Z	2	Z	0.17
SS377	A	2	Z	2	Z	2	Z	0.22
SS379	B	2	Z	2	Z	2	Z	0.33
SS380	A	2	Z	2	Z	2	Z	0.06
SS382	A	2	Z	2	Z	2	Z	0.19

		Maintenance Level and Season of Use						
SS383	B	2	Z	2	Z	2	Z	0.55
SS384	A	2	Z	2	Z	2	Z	0.15
SS386	A	2	Z	2	Z	2	Z	0.11
SS389	B	2	Z	2	Z	2	Z	0.44
SS390	A	2	Z	2	Z	2	Z	0.08
SS396	A	2	Z	2	Z	2	Z	0.22
SS397	B	2	Z	2	Z	2	Z	0.64
SS415	A	2	Z	2	Z	2	Z	0.07
SS417	B	2	Z	2	Z	2	Z	0.81
SS418	B	2	Z	2	Z	2	Z	0.29
SS420	A	2	Z	2	Z	2	Z	0.14
SS421	C	2	Z	2	Z	2	Z	0.24
SS432	A	2	Z	2	Z	2	Z	0.24
SS436	A	2	Z	2	Z	2	Z	0.16
SS437	A	2	Z	2	Z	2	Z	0.21
SS48	B	2	X	2	X	2	Y	0.72
SS500	B	2	Z	2	Z	2	Z	0.45
SS501	B	2	Z	2	Z	2	Z	0.30
SS502	B	2	Z	2	Z	2	Z	0.56
SS503	B	2	Z	2	Z	2	Z	0.72
SS504	A	2	Z	2	Z	2	Z	0.17
SS505	B	2	Z	2	Z	2	Z	0.30
SS506	A	2	Z	2	Z	2	Z	0.05
SS507	B	2	Z	2	Z	2	Z	0.91
SS508	B	2	Z	2	Z	2	Z	0.84
SS509	A	2	Z	2	Z	2	Z	0.05
SS510	A	2	Z	2	Z	2	Z	0.17
SS514	A	2	Z	2	Z	2	Z	0.22
SS515	B	2	Z	2	Z	2	Z	1.19

		Maintenance Level and Season of Use						
SS517	A	2	Z	2	Z	2	Z	0.07
SS520	A	2	Z	2	Z	2	Z	0.10
SS522	A	2	Z	2	Z	2	Z	0.05
SS524	B	2	Z	2	Z	2	Z	0.29
SS525	B	2	Z	2	Z	2	Z	0.61
SS526	A	2	Z	2	Z	2	Z	0.06
SS527	A	2	Z	2	Z	2	Z	0.22
SS528	B	2	Z	2	Z	2	Z	0.73
SS529	A	2	Z	2	Z	2	Z	0.11
SS530	A	2	Z	2	Z	2	Z	0.09
SS531	A	2	Z	2	Z	2	Z	0.03
SS532	A	2	Z	2	Z	2	Z	0.10
SS533	B	2	Z	2	Z	2	Z	0.83
SS534	A	2	Z	2	Z	2	Z	0.07
SS535	A	2	Z	2	Z	2	Z	0.26
SS535A	C	2	Z		Z	2	Z	1.22
SS551	A	2	Z	2	Z	2	Z	0.10
SS554	A	2	Z	2	Z	2	Z	0.11
SS556	B	2	Z	2	Z	2	Z	0.43
SS557	A	2	Z	2	Z	2	Z	0.11
SS558	A	2	Z	2	Z	2	Z	0.08
SS562	C	2	Z	2	Z	2	Z	0.06
SS563	A	2	Z	2	Z	2	Z	0.06
SS564	A	2	Z	2	Z	2	Z	0.10
SS565	A	2	Z	2	Z	2	Z	0.04
SS566	A	2	Z	2	Z	2	Z	0.03
SS567	A	2	Z	2	Z	2	Z	0.08
SS568	B	2	Z	2	Z	2	Z	0.41
SS569	A	2	Z	2	Z	2	Z	0.05

		Maintenance Level and Season of Use						
SS573	A	2	Z	2	Z	2	Z	0.11
SS574	A	2	Z	2	Z	2	Z	0.07
SS575	A	2	Z	2	Z	2	Z	0.06
SS579	B	2	Z	2	Z	2	Z	0.32
SS580	A	2	Z	2	Z	2	Z	0.08
SS581	A	2	Z	2	Z	2	Z	0.03
SS582	A	2	Z		Z	2	Z	0.03
SS583	B	2	Z		Z	2	Z	0.85
SS584	A	2	Z	2	Z	2	Z	0.06
SS585	A	2	Z	2	Z	2	Z	0.05
SS588	A	2	Z	2	Z	2	Z	0.04
SS589	A	2	Z	2	Z	2	Z	0.05
SS59	C	2	X	2	X	2	Y	0.26
SS590	A	2	Z	2	Z	2	Z	0.06
SS591	A	2	Z	2	Z	2	Z	0.15
SS593	A	2	Z	2	Z	2	Z	0.14
SS600	A	2	Z	2	Z	2	Z	0.05
SS601	C	2	Z		Z	2	Z	0.14
SS602	A	2	Z	2	Z	2	Z	0.04
SS603	A	2	Z	2	Z	2	Z	0.08
SS605	A	2	Z	2	Z	2	Z	0.03
SS606	A	2	Z	2	Z	2	Z	0.12
SS607	A	2	Z	2	Z	2	Z	0.04
SS608	B	2	Z	2	Z	2	Z	0.30
SS613	B	2	Z	2	Z	2	Z	0.26
SS614	A	2	Z	2	Z	2	Z	0.08
SS62	A	2	Z	2	Z	2	Z	0.07
SS622	A	2	Z	2	Z	2	Z	0.07
SS627	A	2	Z	2	Z	2	Z	0.04

		Maintenance Level and Season of Use						
SS628	A	2	Z	2	Z	2	Z	0.22
SS63	C	2	X	2	X	2	Y	0.45
SS630	A	2	Z	2	Z	2	Z	0.11
SS631	A	2	Z	2	Z	2	Z	0.05
SS633	A	2	Z	2	Z	2	Z	0.06
SS634	B	2	Z		Z	2	Z	0.70
SS635	A	2	Z		Z	2	Z	0.04
SS639	A	2	Z		Z	2	Z	0.14
SS64	A	2	Z	2	Z	2	Z	0.08
SS640	A	2	Z	2	Z	2	Z	0.08
SS641	A	2	Z	2	Z	2	Z	0.19
SS648	A	2	Z	2	Z	2	Z	0.03
SS65	B	2	Z	2	Z	2	Z	0.62
SS656	A	2	Z	2	Z	2	Z	0.02
SS659	A	2	Z	2	Z	2	Z	0.07
SS66	A	2	Z	2	Z	2	Z	0.09
SS660	A	2	Z	2	Z	2	Z	0.04
SS662	A	2	Z	2	Z	2	Z	0.09
SS667	A	2	Z		Z	2	Z	0.12
SS668	A	2	Z	2	Z	2	Z	0.05
SS669	A	2	Z	2	Z	2	Z	0.05
SS67	B	2	Z		Z	2	Z	1.31
SS670	A	2	Z	2	Z	2	Z	0.23
SS671	A	2	Z	2	Z	2	Z	0.14
SS678	A	2	Z		Z	2	Z	0.07
SS690	A	2	Z	2	Z	2	Z	0.10
SS691	A	2	Z	2	Z	2	Z	0.10
SS695	B	2	Z	2	Z	2	Z	0.51
SS697	B	2	Z	2	Z	2	Z	0.65

		Maintenance Level and Season of Use						
SS701	A	2	Z	2	Z	2	Z	0.26
SS702	B	2	Z	2	Z	2	Z	0.34
SS706	A	2	Z	2	Z	2	Z	0.23
SS707	A	2	Z	2	Z	2	Z	0.08
SS71	A	2	X	2	X	2	Y	0.13
SS710	A	2	Z	2	Z	2	Z	0.19
SS711	B	2	Z	2	Z	2	Z	0.45
SS715	B	2	Z	2	Z	2	Z	0.49
SS725	A	2	Z	2	Z	2	Z	0.14
SS726	A	2	Z	2	Z	2	Z	0.14
SS727	A	2	Z	2	Z	2	Z	0.10
SS736	B	2	Z	2	Z	2	Z	0.77
SS739	B	2	Z	2	Z	2	Z	0.46
SS74	B	2	Z		Z	2	Z	0.26
SS75	B	2	Z		Z	2	Z	0.40
SS757	B	2	Z	2	Z	2	Z	0.31
SS76	A	2	Z	2	Z	2	Z	0.08
SS767	A	2	Z	2	Z	2	Z	0.19
SS770	B	2	Z	2	Z	2	Z	0.50
SS78	A	2	Z	2	Z	2	Z	0.03
SS788	B	2	Z	2	Z	2	Z	0.75
SS789	A	2	Z	2	Z	2	Z	0.08
SS79	A	2	Z	2	Z	2	Z	0.04
SS790	A	2	Z	2	Z	2	Z	0.13
SS792	A	2	Z	2	Z	2	Z	0.13
SS795	A	2	Z	2	Z	2	Z	0.09
SS80	C	2	Z	2	Z	2	Z	0.09
SS818	A	2	Z	2	Z	2	Z	0.02
SS819	A	2	Z	2	Z	2	Z	0.06

		Maintenance Level and Season of Use						
SS824	A	2	Z	2	Z	2	Z	0.09
SS83	B	2	Z	2	Z	2	Z	0.32
SS841	B	2	Z	2	Z	2	Z	0.47
SS844	A	2	Z	2	Z	2	Z	0.11
SS847	B	2	Z	2	Z	2	Z	0.38
SS852	A	2	Z	2	Z	2	Z	0.10
SS854	A	2	Z	2	Z	2	Z	0.13
SS862	A	2	Z	2	Z	2	Z	0.04
SS864	A	2	Z	2	Z	2	Z	0.09
SS865	B	2	Z		Z	2	Z	0.34
SS866	A	2	Z	2	Z	2	Z	0.16
SS868	A	2	Z	2	Z	2	Z	0.03
SS871	A	2	Z		Z	2	Z	0.17
SS881	B	2	Z	2	Z	2	Z	0.97
SS882	A	2	Z	2	Z	2	Z	0.03
SS883	A	2	Z	2	Z	2	Z	0.04
SS884	C	2	Z	2	Z	2	Z	0.12
SS886	A	2	Z	2	Z	2	Z	0.24
SS903	A	2	Z	2	Z	2	Z	0.05
SS904	B	2	Z	2	Z	2	Z	0.29
SS910	A	2	Z	2	Z	2	Z	0.03
SS912	A	2	Z	2	Z	2	Z	0.04
SS914	A	2	Z	2	Z	2	Z	0.08
SS920	A	2	Z	2	Z	2	Z	0.09
SS926	A	2	Z	2	Z	2	Z	0.09
SS927	A	2	Z	2	Z	2	Z	0.07
SS928	A	2	Z	2	Z	2	Z	0.05
SS929	A	2	Z	2	Z	2	Z	0.05
SS930	B	2	Z	2	Z	2	Z	0.35

		Maintenance Level and Season of Use						
SS931	A	2	Z	2	Z	2	Z	0.12
SS932	A	2	Z	2	Z	2	Z	0.14
SS933	A	2	Z	2	Z	2	Z	0.04
SS934	A	2	Z	2	Z	2	Z	0.06
SS935	A	2	Z	2	Z	2	Z	0.15
SS940	A	2	Z	2	Z	2	Z	0.10
SS941	A	2	Z	2	Z	2	Z	0.09
SS948	A	2	Z	2	Z	2	Z	0.05
SS949	A	2	Z	2	Z	2	Z	0.12
SS950	B	2	Z	2	Z	2	Z	0.38
SS951	A	2	Z	2	Z	2	Z	0.04
SS952	A	2	Z	2	Z	2	Z	0.08
SS954	A	2	Z	2	Z	2	Z	0.04
SS955	A	2	Z	2	Z	2	Z	0.05
SS957	A	2	Z	2	Z	2	Z	0.14
SS958	C	2	Z	2	Z	2	Z	0.34
SS964	B	2	W	2	W	2	Y	1.02
SS969	C	2	Z	2	Z	2	Z	0.08
SS973	A	2	Z	2	Z	2	Z	0.17
SS978	A	2	Z	2	Z	2	Z	0.22
SS979	A	2	Z	2	Z	2	Z	0.13
SS980	A	2	Z	2	Z	2	Z	0.08
SS983	A	2	Z	2	Z	2	Z	0.03
SS984	C	2	Z	2	Z	2	Z	0.17
SS988	A	2	Z	2	Z	2	Z	0.08
SS989	B	2	Z	2	Z	2	Z	2.22
SS990	C	2	Z	2	Z	2	Z	0.76
SS991	C	2	Z	2	Z	2	Z	0.85
SS993	C	2	Z	2	Z	2	Z	2.23

		Maintenance Level and Season of Use						
SS994	C	2	Z	2	Z	2	Z	0.15
SS996	C	2	Z	2	Z	2	Z	0.45
TR10	A	2	Z	2	Z	2	Z	0.03
TR100	B	2	Z	2	Z	2	Z	0.46
TR101	A	2	Z	2	Z	2	Z	0.21
TR102	A	2	Z	2	Z	2	Z	0.08
TR105	A	2	Z	2	Z	2	Z	0.06
TR106	B	2	Z	2	Z	2	Z	0.38
TR11	B	2	W	2	W	2	Y	1.02
TR12	B	2	W	2	W	2	Y	0.49
TR13	A	2	W	2	W	2	Y	0.05
TR14	A	2	W	2	W	2	Y	0.17
TR15	A	2	W	2	W	2	Y	0.17
TR16	A	2	W	2	W	2	Y	0.17
TR18	A	2	W	2	W	2	Y	0.10
TR2	B	2	W	2	W	2	Y	0.34
TR20	B	2	W	2	W	2	Y	0.08
TR21	B	2	W	2	W	2	Y	0.39
TR22	A	2	W	2	W	2	Y	0.14
TR23	A	2	W	2	W	2	Y	0.03
TR24	A	2	W	2	W	2	Y	0.07
TR25	A	2	W	2	W	2	Y	0.06
TR27	A	2	Z	2	Z	2	Z	0.05
TR28	A	2	W		Z	2	Y	0.22
TR29	A	2	W	2	W	2	Y	0.07
TR300	A	2	Z		Z	2	Z	0.06
TR301	A	2	Z		Z	2	Z	0.08
TR302	A	2	Z	2	Z	2	Z	0.23
TR303	A	2	Z	2	Z	2	Z	0.03

		Maintenance Level and Season of Use						
TR307	A	2	Z	2	Z	2	Z	0.11
TR308	B	2	Z	2	Z	2	Z	0.43
TR310	A	2	Z	2	Z	2	Z	0.06
TR32	A	2	W	2	W	2	Y	0.05
TR33	A	2	W	2	W	2	Y	0.04
TR34	A	2	W	2	W	2	Y	0.05
TR35	A	2	W	2	W	2	Y	0.07
TR36	A	2	W	2	W	2	Y	0.11
TR37	A	2	W	2	W	2	Y	0.07
TR38	A	2	W		Z	2	Y	0.15
TR39	A	2	W	2	W	2	Y	0.03
TR4	A	2	W	2	W	2	Y	0.03
TR41	A	2	W		Z	2	Y	0.50
TR42	A	2	W	2	W	2	Y	0.06
TR43	B	2	W		Z	2	Y	0.36
TR44	B	2	W	2	W	2	Y	0.40
TR50	A	2	Z	2	Z	2	Z	0.10
TR51	A	2	Z	2	Z	2	Z	0.18
TR52	B	2	Z	2	Z	2	Z	0.27
TR53	A	2	Z	2	Z	2	Z	0.08
TR54	B	2	Z	2	Z	2	Z	0.59
TR55	A	2	Z	2	Z	2	Z	0.06
TR56	A	2	Z	2	Z	2	Z	0.12
TR59	A	2	Z	2	Z	2	Z	0.02
TR60	B	2	Z	2	Z	2	Z	0.27
TR61	B	2	Z	2	Z	2	Z	0.27
TR62	C	2	Z	2	Z	2	Z	0.11
TR63	A	2	Z	2	Z	2	Z	0.02
TR64	B	2	Z	2	Z	2	Z	0.41

		Maintenance Level and Season of Use						
TR65	A	2	Z	2	Z	2	Z	0.03
TR66	A	2	Z	2	Z	2	Z	0.04
TR67	A	2	Z	2	Z	2	Z	0.09
TR68	A	2	Z	2	Z	2	Z	0.16
TR69	A	2	Z	2	Z	2	Z	0.07
TR70	B	2	Z	2	Z	2	Z	0.42
TR71	A	2	Z	2	Z	2	Z	0.09
TR72	A	2	Z	2	Z	2	Z	0.08
TR73	B	2	Z	2	Z	2	Z	0.28
TR74	B	2	Z	2	Z	2	Z	0.61
TR75	B	2	Z	2	Z	2	Z	0.39
TR76	B	2	Z	2	Z	2	Z	0.44
TR77	A	2	Z	2	Z	2	Z	0.25
TR78	A	2	Z	2	Z	2	Z	0.02
TR79	A	2	Z	2	Z	2	Z	0.05
TR8	A	2	Z	2	Z	2	Z	0.02
TR80	A	2	Z	2	Z	2	Z	0.05
TR81	A	2	Z	2	Z	2	Z	0.02
TR82	A	2	Z	2	Z	2	Z	0.24
TR83	A	2	Z	2	Z	2	Z	0.06
TR84	A	2	Z	2	Z	2	Z	0.07
TR85	A	2	Z	2	Z	2	Z	0.15
TR87	A	2	Z	2	Z	2	Z	0.04
TR88	A	2	Z	2	Z	2	Z	0.09
TR89	B	2	Z	2	Z	2	Z	0.86
TR90	A	2	Z	2	Z	2	Z	0.20
TR93	B	2	Z	2	Z	2	Z	0.50
TR94	A	2	Z	2	Z	2	Z	0.10
TR95	A	2	Z	2	Z	2	Z	0.22

		Maintenance Level and Season of Use						
TR96	B	2	Z	2	Z	2	Z	1.13
TR97	B	2	Z	2	Z	2	Z	0.38
TR98	A	2	Z	2	Z	2	Z	0.07
TR99	A	2	Z	2	Z	2	Z	0.04

Appendix A-2: Field Visit Rationale

Botany

Botany evaluated all unauthorized/proposed routes against existing botanical records, using GIS and paper records. Field visits were performed when it appeared that potential habitat for Federally Listed plant species overlapped with routes proposed for addition. Field visits were not performed on other proposed routes because there was neither enough time nor an urgent need to visit every route: most of these unvisited routes were considered to have a low potential for special status plant habitat, and none were considered to have a high potential. Mitigations were not considered necessary, since botany concerns were addressed early on during the project planning process.

Recreation

During the inventory process and subsequent GIS analysis, all routes receiving any type of vehicle use were identified. The Forest identified routes with low resource impact potential as proposed additions to the National Forest Transportation System. As a result, there was not a need to field visit each proposed route by the Recreation Specialist to determine its recreational value; since most of the road segments were proposed to be added and therefore not a concern for recreation.

Heritage

(See Appendix E)

Aquatics

Unauthorized and proposed routes were overlaid on aquatic species habitat utilizing GIS and Forest records. All of the routes proposed within RCA's were field checked to determine if there was a hydrologic connectivity to a perennial or seasonally flowing stream. Field visits were not performed on other proposed routes as those outside of RCA's were considered to have no or insignificant potential for impacts to aquatic species.

Monitoring of aquatic resources will occur on unauthorized routes added to the Forest Transportation System utilizing the Best Management Practices Evaluation Program. In areas that have the greatest potential for impacts to aquatic species, monitoring of fine-grained sediments would be implemented using Stream Condition Inventory protocols. Sites monitored may vary from year to year.

Wildlife

As part of the design process for the proposed action, an interdisciplinary team and the Forest's line officers met and evaluated each inventoried unauthorized road segment for inclusion in the NFTS. As part of the evaluation, each segment was reviewed for proximity to sensitive wildlife habitats. The familiarity of the team and line officers with on-the-ground conditions made subsequent review of these segments duplicative and unnecessary for the wildlife resource area.

Hydrology and Soils

The table below lists field visits by the resource specialists and also notes any particular concern associated with a road during the GIS analysis process.

Route ID	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
	FV	Notes	FV	Notes	FV	Notes	FV	Notes	FV	Notes	FV	Notes	FV	Notes
BA101	N		N		N		N		N		N		N	
BA104	Y	Monitor	N		N		N		N		N		N	
BA105	N		N		N		N		N		N		N	
BA107	N		N		N		N		N		N		N	
BA110	N		N		N		N		N		N		N	
BA111	N		N		N		N		N		N		N	
BA112	N		N		N		N		N		N		N	
BA113	N		N		N		N		N		N		N	
BA115	N		N		N		N		N		N		N	
BA116	N		N		N		N		N		N		N	
BA117	N		N		N		N		N		N		N	
BA118	N		N		N		N		N		N		N	
BA119	N		N		N		N		N		N		N	
BA120	N		N		N		N		N		N		N	
BA121	N		N		N		N		N		N		N	
BA122	N		N		N		N		N		N		N	
BA123	N		N		N		N		N		N		N	
BA124	N		N		N		N		N		N		N	
BA125	N		N		N		N		N		N		N	
BA127	N		N		N		N		N		N		N	
BA128	N		N		N		N		N		N		N	
BA129	N		N		N		N		N		N		N	
BA13	N		N		N		N		N		N		N	
BA130	Y	Monitor	N		N		N		N		N		N	
BA131	N		N		N		N		N		N		N	
BA132	N		N		N		N		N		N		N	
BA133	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA134	N		N		N		N		N		N		N	
BA136	N		N		N		N		N		N		N	
BA140	N		N		N		N		N		N		N	
BA141	N		N		N		N		N		N		N	
BA142	N		N		N		N		N		N		N	
BA143	N		N		N		N		N		N		N	
BA144	N		N		N		N		N		N		N	
BA149	N		N		N		N		N		N		N	
BA150	N		N		N		N		N		N		N	
BA153	N		N		N		N		N		N		N	
BA156	N		N		N		N		N		N		N	
BA16	Y	Monitor	N		Y		N		N		N		N	
BA163	N		N		N		N		N		N		N	
BA164	N		Y	Route to edge of vernal pool	N		N		N		N		N	
BA165	N		N		N		N		N		N		N	
BA169	N		N		N		N		N		N		N	
BA171	N		N		N		N		N		N		N	
BA172	N		N		N		N		N		N		N	
BA173	N		Y		N		N		N		N		N	
BA183	N		N		N		N		N		N		N	
BA185	N		Y		N		N		N		N		N	
BA186	N		Y	Route to edge of vernal pool	N		N		N		N		N	
BA19	N		N		N		N		N		N		N	
BA191	N		N		Y		N		N		N		N	
BA193	N		N		Y		N		N		N		N	
BA199	N		N		Y		N		N		N		N	
BA200	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA201	N		Y		N		N		N		N		N	
BA203	N		Y	Route to edge of vernal pool	N		N		N		N		N	
BA205	N		N		N		N		N		N		N	
BA206	Y		N		N		N		N		N		N	
BA209	N		Y		N		N		N		N		N	
BA211	N		Y		N		N		N		N		N	
BA212	N		N		Y		N		N		N		N	
BA213	N		N		N		N		N		N		N	
BA214	N		N		Y		N		N		N		N	
BA215	N	Monitor	N		N		N		N		N		N	
BA216	N		N		N		N		N		N		N	
BA217	N		N		N		N		N		N		N	
BA219	N		N		N		N		N		N		N	
BA2203	N		N		N		N		N		N		N	
BA2204	N		N		N		N		N		N		N	
BA2206	N		N		N		N		N		N		N	
BA2208	N		N		N		N		N		N		N	
BA221	N		N		N		N		N		N		N	
BA2214	N		N		N		N		N		N		N	
BA2215	N		N		N		N		N		N		N	
BA2216	N		N		N		N		N		N		N	
BA2217	N		N	Watchlist sp.	N		N		N		N		N	
BA2218	N		N		N		N		N		N		N	
BA222	N		N		N		N		N		N		N	
BA222	N		N		N		N		N		N		N	
BA2221	N		N		N		N		N		N		N	
BA2223	N		N		N		N		N		N		N	
BA2224	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA2225	N		N		N		N		N		N		N	
BA2226	N		N		N		N		N		N		N	
BA2227	N		N		N		N		N		N		N	
BA223	N	Monitor	N	Route to edge of vernal pool	Y		N		N		N		N	
BA2231	N		N		N		N		N		N		N	
BA2233	N		N		N		N		N		N		N	
BA2234	Y	Monitor	N		N		N		N		N		N	
BA2235	N		N		N		N		N		N		N	
BA2236	N		N		N		N		N		N		N	
BA225	N	Monitor	Y		N		N		N		N		N	
BA2250	N		N		N		N		N		N		N	
BA2252	N		N		N		N		N		N		N	
BA2253	N		N		N		N		N		N		N	
BA2254	N		N		N		N		N		N		N	
BA2255	N		N		N		N		N		N		N	
BA226	Y		N		N		N		N		N		N	
BA2260	N		N		N		N		N		N		N	
BA2263	N		N		N		N		N		N		N	
BA2264	N		N		N		N		N		N		N	
BA2266	N		N		N		N		N		N		N	
BA2267	N		N		N		N		N		N		N	
BA2268	N		N		N		N		N		N		N	
BA2269	N		N		N		N		N		N		N	
BA227	Y		N		N		N		N		N		N	
BA2270	N		N		N		N		N		N		N	
BA2271	N		N		N		N		N		N		N	
BA2272	N		N		N		N		N		N		N	
BA2276	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA2279	N		N		N		N		N		N	Outside Lava Flow SIA (mapping error)	N	
BA228	Y	Monitor	N		N		N		N		N		N	
BA2280	N		N		N		N		N		N		N	
BA2284	N		N		N		N		N		N	Outside Lava Flow SIA (mapping error)	N	
BA2285	N		N		N		N		N		N	Outside Lava Flow SIA (mapping error)	N	
BA2286	N		N		N		N		N		N		N	
BA2287	N		N		N		N		N		N		N	
BA2288	N		N		N		N		N		N		N	
BA2289	Y	Monitor	Y		N		N		N		N		N	
BA229	N		N		N		N		N		N		N	
BA2290	Y	Monitor	Y		N		N		N		N		N	
BA2292	N		N		N		N		N		N		N	
BA2295	N		N		N		N		N		N		N	
BA230	N		N		N		N		N		N		N	
BA2301	Y	Monitor	N		N		N		N		N		N	
BA2302	N		N		N		N		N		N		N	
BA2303	N		N		N		N		N		N		N	
BA2304	N		N		N		N		N		N		N	
BA2305	N		N		N		N		N		N		N	
BA2306	N		N		N		N		N		N		N	
BA231	N		N		N		N		N		N		N	
BA233	N		N		N		N		N		N		N	
BA234	N		N		N		N		N		N		N	
BA235	N		N		N		N		N		N		N	
BA236	N		N		N		N		N		N		N	
BA238	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA241	N	Monitor	N		N		N		N		N		N	
BA247	N		N		N		N		N		N		N	
BA248	Y		N		N		N		N		N		N	
BA249	N		Y		N		N		N		N		N	
BA250	N		N		N		N		N		N		N	
BA251	N		N		N		N		N		N		N	
BA252	N		Y		N		N		N		N		N	
BA253	N		N		N		N		N		N		N	
BA257	N		Y		N		N		N		N		N	
BA258	N		Y	Route to edge of vernal pool	N		N		N		N		N	
BA26	Y	Monitor	N		N		N		N		N		N	
BA260	N		N		N		N		N		N		N	
BA265	N		N		N		N		N		N		N	
BA267	Y	Monitor	N		Y		N		N		N		N	
BA27	Y	Monitor	N		N		N		N		N		N	
BA271	N		N		N		N		N		N		N	
BA272	N		N		N		N		N		N		N	
BA273	N		N		Y		N		N		N		N	
BA278	N		N		Y		N		N		N		N	
BA279	N		N		N		N		N		N		N	
BA28	Y		N		N		N		N		N		N	
BA283	Y		N		N		N		N		N		N	
BA284	N		N		N		N		N		N		N	
BA286	N		N		N		N		N		N		N	
BA288	N		N		N		N		N		N		N	
BA290	N	Monitor	N		N		N		N		N		N	
BA296	Y	Monitor	Y	Vernal Pool	N		N		N		N		N	
BA297	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA3	N		N		N		N		N		N		N	
BA347	Y		N		Y		N		N		N		N	Access to barrow pit
BA35	N		N		N		N		N		N		N	
BA357	N		N		N		N		N		N		N	
BA358	Y		N		Y		N		N		N		N	Rainbow mines
BA359	Y		N		N		N		N		N		N	Rainbow mines
BA36	N		N		N		N		N		N		N	
BA363	N		N		N		N		N		N		N	
BA365	N		N		Y		N		N		N		N	
BA366	N		N		N		N		N		N		N	
BA368	Y	Monitor	N	Weeds	Y		N		N		N		N	
BA369	N		N		N		N		N		N		N	
BA37	N		N		Y		N		N		N		N	
BA370	N		N		Y		N		N		N		N	
BA371	N	Monitor	N		N		N		N		N		N	
BA373	Y	Monitor	N		N		N		N		N		N	
BA377	N		N		N		N		N		N		N	
BA378	N		N		N		N		N		N		N	
BA379	N		N		N		N		N		N		N	
BA38	Y	Monitor	N		N		N		N		N		N	
BA380	N		N		N		N		N		N		N	
BA385	N		N		Y		N		N		N		N	
BA386	N		N		Y		N		N		N		N	
BA387	N		N		N		N		N		N		N	
BA389	N		N		Y		N		N		N		N	
BA394	N		N		Y		N		N		N		N	
BA395	N		N		Y		N		N		N		N	
BA396	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA397	Y		N		Y		N		N		N	Mapping error. Not on SPNM	N	
BA398	N		N		N		N		N		N		N	
BA406	N		N		Y		N		N		N		N	
BA407	Y	Monitor	N		Y		N		N		N		N	
BA408	Y		N		Y		N		N		N		N	
BA410	N		N		Y		N		N		N		N	
BA411	N		N		Y		N		N		N		N	
BA412	Y		N		Y		N		N		N		N	
BA413	N		N		Y		N		N		N		N	
BA423	N		N		N		N		N		N		N	
BA425	N		N		N		N		N		N		N	
BA43	N		N		N		N		N		N		N	
BA431	Y	Monitor	N		N		N		N		N		N	
BA438	Y		N		Y		N		N		N	Close at SPNM boundary	N	
BA442	Y	Monitor	N		Y		N		N		N		N	
BA443	Y	Monitor	N		Y		N		N		N		N	
BA444	Y	Monitor	N		Y		N		N		N		N	
BA445	Y	Monitor	N		Y		N		N		N		N	
BA446	Y	Monitor	N		Y		N		N		N		N	
BA447	N		N		Y		N		N		N		N	
BA448	N		N		Y		N		N		N		N	
BA449	Y	Monitor	N		N		N		N		N		N	
BA452	Y		N		N		N		N		N		N	
BA453	N		N		Y		N		N		N		N	
BA454	N		N		Y		N		N		N		N	
BA456	N		N		Y		N		N		N		N	
BA458	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA463	N		N		N		N		N		N		N	
BA464	N		N		N		N		N		N		N	
BA465A	N		N		Y		N		N		N		N	
BA467	N		N		Y		N		N		N		N	
BA47	N		N		N		N		N		N		N	
BA470	N		N		Y		N		N		N		N	
BA471	N		N		N		N		N		N		N	
BA472	N		N		Y		N		N		N		N	
BA473	N		N		Y		N		N		N		N	
BA474	N		N		N		N		N		N		N	
BA475	N		N		Y		N		N		N	Next to Roadless	N	
BA478	N		N		N		N		N		N	Cut off at Roadless boundary	N	
BA479	N		N		Y		N		N		N	Cut off at Roadless boundary	N	
BA48	N		N		Y		N		N		N		N	
BA482	N		N		N		N		N		N	Cut off at Roadless boundary	N	
BA485	Y		N		N	Need maintenance to stop erosion	N		N		N	Recreation site	N	
BA489	N		N		N		N		N		N		N	
BA490	Y	Monitor	N		N		N		N		N		N	
BA491	Y	Monitor	N		N		N		N		N		N	
BA492	Y	Monitor	N		N		N		N		N	Dispersed camp site	N	
BA493	Y	Monitor	N		N		N		N		N	Dispersed camp site	N	
BA495	Y	Monitor	N		N		N		N		N		N	Powerline Access Road

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA496	N		N		N		N		N		N		N	Powerline Access Road
BA497	N		N		N		N		N		N		N	Powerline Access Road
BA498	N		N		N		N		N		N		N	
BA499	N		N		N		N		N		N		N	
BA501	Y	Monitor	N		N		N		N		N		N	Fenceline maint. Road
BA503	Y	Monitor	N		N		N		N		N		N	
BA51	N		N		Y		N		N		N		N	
BA52	N		N		N		N		N		N		N	
BA54	Y	Monitor	N		Y		N		N		N		N	
BA540	N		Y		N		N		N		N		N	
BA541	N		Y		N		N		N		N		N	
BA542	N		N		N		N		N		N		N	
BA543	N		N		N		N		N		N		N	
BA544	N		N		N		N		N		N		N	
BA545	N		N		N		N		N		N		N	
BA546	N		N		N		N		N		N		N	
BA549	N		N		N		N		N		N		N	
BA55	Y		N		N		N		N		N		N	
BA553	N		N		N		N		N		N		N	
BA554	N		N		N		N		N		N		N	
BA555	N		N		N		N		N		N		N	
BA556	N		N		N		N		N		N		N	
BA557	N		N		N		N		N		N		N	
BA558	N		N		N		N		N		N		N	
BA559	N		N		N		N		N		N		N	
BA560	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BA564	N		N		N		N		N		N		N	
BA566	N		N		N		N		N		N		N	
BA57	N		N		N		N		N		N		N	
BA572	N		N		N		N		N		N		N	
BA573	N		N		N		N		N		N		N	
BA574	N		N		N		N		N		N		N	
BA576	N		N		N		N		N		N		N	
BA577	N		N		N		N		N		N		N	
BA62	N		N		N		N		N		N		N	
BA63	N		N		N		N		N		N		N	
BA65	N		N		N		N		N		N		N	
BA67	N		N		N		N		N		N		N	Access road for fenceline
BA71	N		Y	Watchlist sp.	N		N		N		N		N	
BA72	N		N		N		N		N		N		N	
BA77	N		N		N		N		N		N		N	
BA80	N		N		N		N		N		N		N	
BA81	N		N		N		N		N		N		N	
BA82	N		N		N		N		N		N		N	
BA87	N		N		N		N		N		N		N	
BA88	N		N		N		N		N		N		N	
BA91	N		N		N		N		N		N		N	
BA93	N		N		N		N		N		N		N	
BA94	N		N		N		N		N		N		N	
BA95	N		N		N		N		N		N		N	
BG10	N		N		Y		N		N		N		N	
BG12	N		N		N		N		N		N		N	
BG14	N		N		N		N		N		N		N	
BG16	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
BG19	Y	Monitor	Y		Y		N		N		N		N	
BG2	N	Monitor	N		N		N		N		N		N	
BG31	N		N		N		N		N		N		N	
BG32	N		N		N		N		N		N		N	
BG35	N	Monitor	N		Y		N		N		N		N	
BG39	Y	Monitor	N		N		N		N		N		N	
BG40	N		N		N		N		N		N		N	
BG41	N		N		Y		N		N		N		N	
BG44	N		N		N		N		N		N		N	
BG47	N		N		N		N		N		N		N	
BG49	Y	Monitor	N		N		N		N		N		N	
BG5	N		N		Y		N		N		N		N	
BG7	Y	Monitor	N		N		N		N		N		N	
BG8	N		N		N		N		N		N		N	
DJ13	Y	Monitor	N		N		N		N		N		N	
DJ14	N		N		N		N		N		N		N	
DJ15	N		N		Y		N		N		N		N	
DJ22	N		N		N		N		N		N	To dispersed campsite	N	
DJ25	N		N		N		N		N		N	To dispersed campsite	N	
DJ27	Y	Monitor	N		N		N		N		N		N	
DJ28	N		N		N		N		N		N		N	
DJ3	N		N		N		N		N		N		N	
JW2110	N		N		N		N		N		N		N	
JW2111	N		N		N		N		N		N		N	
JW2112	N		N		N		N		N		N		N	
JW2113	N		N		N		N		N		N		N	
JW2115	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
JW2116A	N		N		N		N		N		N		N	
JW2116B	N		N		N		N		N		N		N	
JW2117	N		N		N		N		N		N		N	
JW2119	N		N		N		N		N		N		N	
JW2120	N		N		N		N		N		N		N	
JW2121	N		N		N		N		N		N		N	
JW2122	N		N		N		N		N		N		N	
JW2123	N		N		N		N		N		N		N	
JW2124	N		N		N		N		N		N		N	
JW2126	N		N		N		N		N		N		N	
JW2127	N		N		N		N		N		N		N	
JW2128	N		N		N		N		N		N		N	
JW2129	N		N		N		N		N		N		N	
JW2130	N		N		N		N		N		N		N	
JW2132	N		N		N		N		N		N		N	
JW2134	N		N		N		N		N		N		N	
JW2135	N		N	Sensitive sp.	N		N		N		N		N	
JW2136	N		N		N		N		N		N		N	
JW2137	N		N		N		N		N		N		N	
JW2138	N		N		N		N		N		N		N	
JW2140	N		N		N		N		N		N		N	
JW59	N		N		N		N		N		N		N	
JW60	Y		N		N		N		N		N		N	
JW61	N		N		N		N		N		N		N	
JW62	N		N		N		N		N		N		N	
JW63	N		N		N		N		N		N		N	
JW64	N		N		N		N		N		N		N	
JW65	N		N		N		N		N		N		N	
JW66	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
JW67	N		N		N		N		N		N		N	
JW68	N		N		N		N		N		N		N	
JW69	N		N		N		N		N		N		N	
JW70	N		N		N		N		N		N		N	
JW71	N		N		N		N		N		N		N	
JW72	N		N		N		N		N		N		N	
JW74	N		N		N		N		N		N		N	
JW75	N		N		N		N		N		N		N	
JW78	N		N		N		N		N		N		N	
JW79	N		N		N		N		N		N		N	
JW80	N		N		N		N		N		N		N	
JW81	N		N		N		N		N		N		N	
JW82	Y	Monitor	N		N		N		N		N		N	
ML10	N		N		N		N		N		N		N	
ML1001	N		N		N		N		N		N		N	
ML1002A	N		N		N		N		N		N		N	
ML1002B	N		N		N		N		N		N		N	
ML1009	N		N		N		N		N		N		N	
ML101	N		N		N		N		N		N		N	
ML1010	N		N		N		N		N		N		N	
ML1016	N		N		N		N		N		N	Next to developed campsite	N	
ML103	N		N		N		N		N		N		N	
ML104	N		N		N		N		N		N		N	
ML105	Y	Monitor	N		N		N		N		N		N	
ML106	Y		N		N		N		N		N		N	
ML108	N		N		N		N		N		N		N	
ML109	N		N		N		N		N		N		N	
ML111	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML112	N		N		N		N		N		N		N	
ML114	N		N		N		N		N		N		N	
ML115	N		N		N		N		N		N		N	
ML116	N		N		N		N		N		N		N	
ML119	N		N		Y		N		N		N		N	
ML12	N		N		N		N		N		N		N	
ML120	N		N		Y		N		N		N		N	
ML121	N		N		N		N		N		N		N	
ML123	Y	Monitor	N		N		N		N		N		N	
ML124	N		N		N		N		N		N		N	
ML126	N		N		N		N		N		N		N	
ML13	N		N		N		N		N		N		N	
ML1300	N	Monitor	N		N		N		N		N		N	
ML1304	N		N		N		N		N		N		N	
ML1307	N		N		N		N		N		N		N	Possible include barriers to prevent access to ML1305
ML1308	N		N		N		N		N		N		N	
ML1310	N	Monitor	N		N		N		N		N		N	
ML135	N		N		N		N		N		N		N	
ML136	N		N		N		N		N		N		N	
ML14	N		N		N		N		N		N		N	
ML140	N		N		N		N		N		N		N	
ML141	N		N		N		N		N		N		N	
ML145	N		N		N		N		N		N		N	
ML146	Y	Monitor	N		N		N		N		N		N	
ML148	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML15	N		N		N		N		N		N		N	
ML150	N		N		N		N		N		N		N	
ML164	Y	Monitor	N		N		N		N		N		N	
ML166	N		N		Y		N		N		N		N	
ML17	N		Y		N		N		N		N		N	
ML172	Y	Monitor	N		N		N		N		N		N	
ML173	N		N		N		N		N		N		N	
ML175	N		N		N		N		N		N		N	
ML177	N		N		N		N		N		N		N	
ML178	N		N		N		N		N		N		N	
ML18	N		N		N		N		N		N		N	
ML180	N		Y		N		N		N		N		N	
ML181A	Y		N		N		N		N		N		N	Powerline Rd.
ML19	N		N		N		N		N		N		N	
ML198	Y	Monitor	N		N		N		N		N		N	
ML20	N		N		N		N		N		N		N	
ML2000	N	Monitor	N		N		N		N		N		N	Powerline Rd.
ML2002	N		N		N		N		N		N		N	
ML2004	N		N		N		N		N		N		N	
ML2005	N		N		N		N		N		N		N	
ML2006	N		N		N		N		N		N		N	
ML201	Y		N		N		N		N		N		N	
ML2010	N		N		N		N		N		N		N	
ML2015	N		N		N		N		N		N		N	
ML2018	N		N		N		N		N		N		N	
ML202	Y		N		N		N		N		N		N	
ML2023	N		N		N		N		N		N		N	
ML2024	N		N		N		N		N		N		N	
ML2028	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML203	Y		N		N		N		N		N		N	
ML2030	N		N		N		N		N		N		N	
ML2031	N		N		N		N		N		N		N	
ML2035	Y		N		N		N		N		N		N	
ML2036	N		N		N		N		N		N		N	
ML2037	N		N		N		N		N		N		N	
ML2038	N		N		N		N		N		N		N	
ML2042	N		N		N		N		N		N		N	
ML2043	N		N		N		N		N		N		N	
ML2044	N		N		N		N		N		N		N	
ML2045	N		N		N		N		N		N		N	
ML2047	N		N		N		N		N		N		N	
ML2048	N	Monitor	N		N		N		N		N	Emigrant Trail	N	
ML2049	N		N		N		N		N		N		N	
ML2050	N		N		N		N		N		N		N	
ML2051	N		N		N		N		N		N		N	
ML2052	N		N		N		N		N		N		N	
ML2054	N		N		N		N		N		N		N	
ML206	N		N		N		N		N		N		N	
ML2060	N		N		N		N		N		N		N	
ML2061	N		N		N		N		N		N		N	
ML2063	N		N		N		N		N		N		N	
ML2067	N		N		N		N		N		N		N	
ML207	N		N		N		N		N		N		N	
ML2070	N		N		N		N		N		N		N	
ML2075	N		N		N		N		N		N		N	
ML208	N		N		N		N		N		N		N	
ML2081	N		N		N		N		N		N		N	
ML2085	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML209	N		N		N		N		N		N		N	
ML2093	N		N		N		N		N		N		N	
ML2095	Y	Monitor	N		N		N		N		N		N	
ML21	N		N		N		N		N		N		N	
ML214	N		N		N		N		N		N		N	
ML231	N		N		N		N		N		N		N	
ML233	N	Monitor	Y		N	No impact riparian	N		N		N	Road on dam	N	
ML234	N		N		N		N		N		N		N	
ML238	N		N		N		N		N		N		N	
ML24	N		N		N		N		N		N		N	
ML244	Y		N		N		N		N		N		N	Maint. Road for fence
ML25	N		N		N		N		N		N		N	
ML250	Y	Applegate Trail Monitor	Y	Vernal pool	Y		N		N		N		N	
ML251	Y	Applegate Trail	N		Y		N		N		N		N	
ML26	N		N		N		N		N		N		N	
ML260	Y	Applegate Trail	Y		Y		N		N		N		N	
ML263	N		N		N		N		N		N	Dispersed camp site	N	
ML264	N		N		N		N		N		N		N	Access to private land
ML27	N		N		N		N		N		N		N	
ML274	N		N		N		N		N		N		N	
ML283	N	Monitor	Y		N		N		N		N		N	
ML286	N		N		N		N		N		N		N	
ML287	N		N		N		N		N		N		N	
ML288	Y	Monitor	N		N		N		N		N		N	Access to stock pond
ML29	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML293	Y		Y		N		N		N		N		N	Radar project road
ML299	N		Y		N		N		N		N		N	Radar project road
ML3	Y	Monitor	N		N		N		N		N		N	
ML300	Y		N		N		N		N		N		N	Radar project road
ML301	N		N		N		N		N		N		N	
ML302	N		N		N		N		N		N		N	Radar project road
ML303	N		N		N		N		N		N		N	
ML304	N		N		N		N		N		N		N	
ML305	N		N		N		N		N		N		N	
ML306	N		N		N		N		N		N		N	
ML307	N		Y		N		N		N		N		N	
ML308	N		N		N		N		N		N		N	
ML309	N	Monitor	N		N		N		N		N		N	
ML310	Y	Monitor	N		N		N		N		N		N	
ML312	N		N		N		N		N		N		N	
ML315	Y		N		N		N		N		N		N	
ML317	Y		N		N		N		N		N		N	Pipeline/Powerline
ML318	Y		N		N		N		N		N		N	Powerline Rd.
ML320	N		N		N		N		N		N		N	
ML322	Y		N		N		N		N		N		N	Powerline Rd.
ML323	Y		N		N		N		N		N		N	Powerline Rd.
ML324	Y		N	Weeds	N		N		N		N		N	Powerline Rd.
ML327	N		N		N		N		N		N		N	Pipeline/Powerline
ML328	N		N		N		N		N		N		N	Pipeline/Powerline
ML329	N		N		N		N		N		N		N	
ML330	N		N		N		N		N		N		N	
ML336	N		N	Weeds. Watchlist sp.	N		N		N		N		N	
ML337	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML338	N		N		N		N		N		N		N	
ML340	N		N		N		N		N		N		N	
ML343	N		N		N		N		N		N		N	
ML344	N		N		N		N		N		N		N	
ML348	N		Y		N		N		N		N		N	
ML353	N		N		N		N		N		N		N	
ML354	Y		N		N		N		N		N		N	
ML355	N		N		N		N		N		N		N	
ML358	Y		N		N		N		N		N		N	
ML359	N		N		N		N		N		N		N	
ML36	N		N		N		N		N		N		N	
ML360	N		N		N		N		N		N		N	
ML37	N		N		Y		N		N		N		N	
ML370	N		N		N		N		N		N		N	
ML372	N		Y		N		N		N		N		N	
ML373	N		N		N		N		N		N		N	
ML374	N		Y		N		N		N		N		N	
ML375	N		Y		N		N		N		N	Access to dam	N	
ML377	N		N		N		N		N		N		N	
ML378	N		N		N		N		N		N		N	
ML379	N		N		N		N		N		N		N	Access to stocktank
ML380	N		N		N		N		N		N		N	
ML381	N		N		N		N		N		N		N	
ML382	N		N		N		N		N		N		N	
ML383	N		N		N		N		N		N		N	
ML384	Y		N		N		N		N		N		N	
ML385	N		N		N		N		N		N		N	
ML386	N		N		N		N		N		N		N	
ML387	Y	Monitor	N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML388	Y	Monitor	N		N		N		N		N		N	
ML39	N		N		N		N		N		N		N	
ML390	N		N		N	No impact riparian	N		N		N		N	
ML391	N		N		N		N		N		N		N	
ML392	N		N		N		N		N		N		N	
ML394	N		N		N		N		N		N		N	
ML395	N		N		N		N		N		N		N	
ML396	N		N		N		N		N		N		N	
ML4	Y	Monitor	N		N		N		N		N		N	
ML40	N		N		Y		N		N		N		N	
ML401	N		N		N		N		N		N		N	
ML4012	N		N		N		N		N		N		N	
ML4013	N		N		N		N		N		N		N	
ML4017	N		N		N		N		N		N		N	
ML4018	N		N		Y		N		N		N		N	
ML4019	N		N		N		N		N		N		N	
ML4022	N		N		N		N		N		N		N	
ML4023	N		N		N		N		N		N		N	
ML4024	Y	Monitor	N		N		N		N		N		N	
ML4029	N		N		N		N		N		N		N	
ML4030	N	Monitor	N		Y		N		N		N		N	
ML4034	N		N		N		N		N		N		N	
ML4035	N	Monitor	N		N		N		N		N		N	
ML4036	N		N		N		N		N		N		N	
ML4037	N		N		N		N		N		N		N	
ML4039	N		N		N		N		N		N		N	
ML404	N		N		N		N		N		N		N	
ML4041	N		N		N		N		N		N		N	
ML4043	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML4045	N		N		N		N		N		N		N	
ML4046	N		N		N		N		N		N		N	
ML4048	N		N		N		N		N		N		N	Access to cinder pit
ML405	N		N		N		N		N		N		N	
ML406	N		N	Weeds	N		N		N		N		N	
ML410	Y	Monitor	N		N		N		N		N		N	Powerline Rd.
ML415	N	Monitor	N		N		N		N		N		N	
ML416	N		N		N		N		N		N		N	
ML417	Y	Monitor	N		N		N		N		N		N	
ML418	N		N		N		N		N		N		N	
ML421	N	Monitor	N		N		N		N		N		N	
ML425	Y	Monitor	N		N		N		N		N		N	
ML43	N		N		Y		N		N		N		N	
ML432	N		Y		N		N		N		N		N	Access to A1 pond
ML434	N		Y		N		N		N		N		N	
ML436	N		Y	Weeds	N		N		N		N		N	
ML443	N	Monitor	N		N		N		N		N		N	
ML461	N		Y			No riparian concern	N		N		N		N	
ML467	N		N		N		N		N		N		N	
ML469	N		Y		N		N		N		N		N	
ML477	N		Y		N		N		N		N		N	
ML479	Y	Monitor	N		N		N		N		N		N	
ML48	N		N		N		N		N		N		N	
ML481	N		Y		N		N		N		N		N	
ML482	N		N		N		N		N		N		N	
ML486	N		N		N		N		N		N		N	
ML488	N		Y		N		N		N		N		N	Across dam to spillway
ML491	Y		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML492	N		N		N		N		N		N		N	
ML496	N		N		N		N		N		N		N	
ML499	N		N		N		N		N		N		N	
ML50	N		N		N		N		N		N		N	
ML500	N		N		N		N		N		N		N	
ML502	N		N		N		N		N		N		N	
ML504	N		N		N		N		N		N		N	
ML505	N		N		N		N		N		N		N	
ML506	N		N	Weeds	N		N		N		N		N	
ML508	N		N		N		N		N		N		N	
ML509	N		N		N		N		N		N		N	
ML51	N		N		N		N		N		N		N	
ML510	N		N		N		N		N		N		N	
ML513	N		N		N		N		N		N		N	
ML514	N		N		N		N		N		N		N	
ML516	Y	Monitor	N		N		N		N		N		N	
ML518	N		N		N	Seasonal ephemeral stream	N		N		N		N	
ML520	N		Y		N		N		N		N		N	Maint. Road to stock tank
ML524A	N		N		N		N		N		N		N	
ML526	N		N		N		N		N		N		N	
ML527	N		N		N		N		N		N		N	
ML535	N		N		N		N		N		N		N	
ML537	N		Y		N		N		N		N		N	Only add part along fence
ML543	N		Y		N		N		N		N		N	
ML546	N		N		N		N		N		N		N	
ML547	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML548	N		N		N		N		N		N		N	
ML549	N		N		N		N		N		N		N	
ML551	N		N		N		N		N		N		N	
ML552	N		N		N		N		N		N		N	
ML553	N	Monitor	N		N		N		N		N		N	
ML556	N	Monitor	Y		N		N		N		N	Road goes around reservoir high water. Not innundated.	N	
ML566	N		N		N		N		N		N		N	
ML577	N		N		N		N		N		N		N	
ML578	N		N		N		N		N		N		N	
ML58	N		N		Y		N		N		N		N	
ML580	N	Monitor	N		N		N		N		N		N	
ML583	N		N		N		N		N		N		N	
ML584	N	Monitor	Y		N		N		N		N		N	
ML589	N		Y		N		N		N		N		N	Access to private land
ML591	N	Monitor	Y		N		N		N		N		N	
ML592	N		N		N		N		N		N		N	
ML60	N		N		Y		N		N		N		N	
ML62	N		N		N		N		N		N		N	
ML63	N		N		N		N		N		N		N	
ML64	N		N		N		N		N		N		N	
ML66	N		Y		N		N		N		N		N	Extension of system rd. to stock pond
ML67	N		N		N		N		N		N		N	
ML68	N		N		N		N		N		N		N	
ML71	N		N		Y		N		N		N		N	
ML72	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
ML73	N		N		Y		N		N		N		N	
ML76	N		N		N		N		N		N		N	
ML78	Y		Y		N		N		N		N		N	Access to dam
ML79	Y		Y		N		N		N		N		N	Access to dam
ML8	N		N		N		N		N		N		N	
ML84	N		Y		Y		N		N		N		N	Access to dam
ML85	N		Y		N		N		N		N		N	Access to dam
ML88	N		N		Y		N		N		N		N	
ML89	N		N		N		N		N		N		N	
ML9	Y		Y		N		N		N		N		N	Access to Pointdexter
ML90	Y		N		N		N		N		N		N	
ML91	N		N		N		N		N		N		N	
ML92	N		N		N		N		N		N		N	
ML94	N		N		N		N		N		N		N	
ML96	N		N		N		N		N		N		N	
ML97	N		N		N		N		N		N		N	
ML99	N		N		N		N		N		N		N	
PA1	N		N		N		N		N		N		N	
PA10	N		N		N		N		N		N		N	
PA11	N		N		N		N		N		N		N	
PA13	N		N		N		N		N		N		N	Well access
PA14	N		N		N		N		N		N		N	Well access
PA15	N		N		N		N		N		N		N	
PA16	N		N		N		N		N		N		N	
PA17	N		N		N		N		N		N		N	
PA18	N		N		N		N		N		N		N	
PA2	N		N		N		N		N		N		N	
PA3	N		N		N		N		N		N		N	
PA30	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
PA38	N		N		N		N		N		N		N	
PA39	Y	Monitor	N		N		N		N		N		N	
PA4	N		N		N		N		N		N		N	
PA40	N		N		N		N		N		N		N	
PA7	N		N		N		N		N		N		N	
PK1	N		N		N		N		N		N		N	
PK10	N	Monitor	N		N		N		N		N		N	
PK11	N		N		N		N		N		N		N	
PK13	N		N		N		N		N		N		N	
PK14	N		N		N		N		N		N		N	
PK15	N		N		N		N		N		N		N	
PK16	N		N		N		N		N		N		N	
PK17	N		N		N		N		N		N		N	
PK18	N		N		N		N		N		N		N	
PK19	N		N		N		N		N		N		N	
PK20	N		N		N		N		N		N		N	
PK21	N		N		N		N		N		N		N	
PK22	N		N		N		N		N		N		N	
PK23	N		N		N		N		N		N		N	
PK24	N		N		N		N		N		N		N	
PK25	N		N		N		N		N		N		N	
PK26	N		N		N		N		N		N		N	
PK27A	N		N		N		N		N		N		N	
PK27AA	N		N		N		N		N		N		N	
PK28	N		N		N		N		N		N		N	
PK31	N		N		N		N		N		N		N	
PK4	N		N		N		N		N		N		N	
PK5	N		N		N		N		N		N		N	
PK6	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
PK8	N		N		N		N		N		N		N	
PK9	N		N		N		N		N		N		N	
PUB003	N		N		N	Stream is ephemeral	N		N		N		N	
PUB009	Y		N		N		N		N		N		N	
PUB010	N		N		N		N		N		N		N	
PUB011	N		N		N		N		N		N		N	
PUB012	N		N		N		N		N		N		N	Error. Not in Roadless
PUB013	N		N		N		N		N		N		N	Access to private land
PUB017	N		N		N		N		N		N		N	
PUB018	N		N		N		N		N		N		N	
PUB019	N	Monitor	N		N		N		N		N		N	
SS01	Y	Monitor	N		N		N		N		N		N	Access to private land
SS05	N		N		Y		N		N		N		N	
SS1000	Y		N		N		N		N		N		N	Pipeline rd.
SS1002	Y		N		N		N		N		N		N	Pipeline rd.
SS1003	N		N		N		N		N		N		N	Pipeline rd.
SS1004	Y		N		N		N		N		N		N	Pipeline rd.
SS102	N		N		Y		N		N		N		N	
SS103	N		N		N		N		N		N		N	
SS106	N		N		N		N		N		N		N	
SS107	N		N		N		N		N		N		N	
SS111	N		N		N		N		N		N		N	
SS113	N		N		N		N		N		N		N	
SS115	N		N		N		N		N		N		N	
SS118	N		N		N		N		N		N		N	Stockpond
SS12	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS120	N		N		N		N		N		N		N	
SS121	N		N		N		N		N		N		N	
SS123	N		N		N		N		N		N		N	
SS126	N		N		N		N		N		N		N	
SS131	N		N		Y		N		N		N		N	
SS132	N		N		N		N		N		N		N	
SS133	N		N		Y		N		N		N		N	
SS135	N		N		Y		N		N		N		N	
SS136	Y	Monitor	N		N		N		N		N		N	
SS140	Y	Monitor	N		Y		N		N		N		N	
SS141	N		N		N		N		N		N		N	
SS150	Y		N		N		N		N		N		N	
SS1501	N		N		N		N		N		N		N	
SS1507	N		N		N		N		N		N		N	
SS151	N		N		N		N		N		N		N	
SS164	N		N		N		N		N		N		N	
SS165	N		N		N		N		N		N		N	
SS17	N		Y	VP is reservoir	N		N		N		N		N	
SS170	N		N		N		N		N		N		N	
SS171	N		N		N		N		N		N		N	
SS173	N		N		N		N		N		N		N	
SS174	N		N		N		N		N		N		N	
SS176	N		N		N		N		N		N		N	
SS177	N		N		N		N		N		N		N	Stockpond
SS180	N		N		N		N		N		N		N	
SS186	N		N		N		N		N		N		N	
SS189	Y	Monitor	N		N		N		N		N		N	
SS192	N		N		Y		N		N		N		N	
SS193	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS194	N		N		N		N		N		N		N	
SS195	N		N		N		N		N		N		N	
SS197	N		N		Y		N		N		N		N	
SS199	Y	Monitor	N		N		N		N		N		N	
SS200	N		N		N		N		N		N		N	
SS201	Y	Monitor	Y		N		N		N		N		N	
SS202	N		Y		N		N		N		N		N	
SS203	N		Y		N		N		N		N		N	
SS207	N		N		N		N		N		N		N	
SS210	Y	Monitor	N		N		N		N		N		N	
SS211	Y	Monitor	N		N		N		N		N		N	
SS212	N		N		N		N		N		N		N	
SS215	N		N		N		N		N		N		N	
SS216	N	Monitor	N		N		N		N		N		N	Fence maint.
SS22	N		N		N		N		N		N		N	
SS220	N		N		N		N		N		N		N	
SS221	N		N		N		N		N		N		N	
SS223	N		N		N		N		N		N		N	Access to stockpond
SS224	N		N		N		N		N		N		N	
SS225	Y	Monitor	N		Y		N		N		N		N	
SS226	N		Y		N		N		N		N		N	
SS227	Y	Monitor	Y		N		N		N		N		N	
SS228	N		Y		N		N		N		N		N	Access private
SS229	N		Y	Vernal Pool	N		N		N		N		N	Access private
SS23	N		N		N		N		N		N		N	
SS231	N		N		N		N		N		N		N	
SS232	N		N		N		N		N		N		N	
SS233	N		N		N		N		N		N		N	Access to Boles tank

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS234	N		N		N		N		N		N		N	
SS236	N		Y		N		N		N		N		N	
SS238	N		N		N		N		N		N		N	
SS24	N		N		N		N		N		N		N	
SS240	N		N		N		N		N		N		N	
SS241	N		N		N		N		N		N		N	
SS242	N		Y		N		N		N		N		N	
SS243	N		N		N		N		N		N		N	
SS244	N		Y	Vernal Pool at edge of rd.	N		N		N		N		N	
SS247	N		N		N	No riparian concerns	N		N		N		N	
SS248	N		N		N	No riparian concerns	N		N		N		N	
SS250	N	Monitor	N		N		N		N		N		N	
SS251	N	Monitor	N		N		N		N		N		N	
SS252	N		N		N		N		N		N		N	
SS254	N		N		N		N		N		N		N	
SS255	N		N		N		N		N		N		N	
SS256	Y		N		N		N		N		N		N	
SS258	N		N		N		N		N		N		N	
SS259	N		N		N		N		N		N		N	
SS272	N		N		N		N		N		N		N	
SS273	N	Monitor	N		N		N		N		N		N	
SS274	N		Y	Vernal Pool at edge of rd.	N		N		N		N		N	Goes to stocktank
SS275	N		N		N		N		N		N		N	
SS276	N		N		N		N		N		N		N	
SS280	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS281	Y	Monitor	N		N		N		N		N		N	Old administrative site to Badger well
SS282	Y	Monitor	N		N		N		N		N		N	Old administrative site to Badger well
SS285	N		N		N		N		N		N		N	
SS286	N		N		N		N		N		N		N	
SS287	N		N		N		N		N		N		N	
SS288	Y	Monitor	N		N		N		N		N		N	
SS289	Y		N		N		N		N		N		N	
SS290	Y	Monitor	N		N		N		N		N		N	Old administrative site to Badger well
SS293	N		N		N		N		N		N		N	
SS295	N		N		N		N		N		N		N	
SS299	N		N		N		N		N		N		N	
SS300	N		N		N		N		N		N		N	
SS301	N		N		N		N		N		N		N	
SS303	N		N		N		N		N		N		N	
SS305	N		N		N		N		N		N		N	
SS306	N		N		N		N		N		N		N	
SS307	N		N		N		N		N		N		N	
SS308	N		N		N		N		N		N		N	
SS309	Y		Y		N		N		N		N		N	
SS310	N		N		N		N		N		N		N	
SS312	N		N		N		N		N		N		N	
SS315	N		N		N		N		N		N		N	
SS318	N		N		N		N		N		N		N	
SS319	N		N		N		N		N		N		N	
SS320	N		N		N		N		N		N		N	
SS321	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS322	N		N		N		N		N		N		N	
SS324	N		N		N		N		N		N		N	
SS325	N		N		N		N		N		N		N	
SS327	N		N		N		N		N		N		N	
SS328	N		N		N		N		N		N		N	
SS337	N		N		N		N		N		N		N	
SS338	N		N		N		N		N		N		N	
SS339	N		N		N		N		N		N		N	
SS345	N		N		N		N		N		N		N	
SS346	N		N		N		N		N		N		N	
SS350	N		Y		N	No riparian concerns	N		N		N		N	
SS351	N		Y		N		N		N		N		N	
SS352	N		Y		N		N		N		N		N	
SS353	N		Y		N		N		N		N		N	
SS354	N		Y		N		N		N		N		N	
SS358	N	Monitor	N		N		N		N		N		N	
SS359	N		N		N		N		N		N		N	
SS363	N		N		N		N		N		N		N	
SS364	N		N		N		N		N		N		N	
SS366	N		N		N		N		N		N		N	
SS367	N		N		N		N		N		N		N	
SS373	N		N		N		N		N		N		N	
SS374	N		N		N		N		N		N		N	
SS375	N		N		N		N		N		N		N	
SS376	N		N		N		N		N		N		N	
SS377	N		N		N		N		N		N		N	
SS379	N		N		N		N		N		N		N	
SS380	N		N		N		N		N		N		N	
SS382	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS383	N		N		N		N		N		N		N	
SS384	N		N		N		N		N		N		N	
SS386	N		N		N		N		N		N		N	
SS389	N		N		N		N		N		N		N	
SS390	N		N		N		N		N		N		N	
SS396	Y	Monitor	N		N		N		N		N		N	
SS397	N		N		N	No riparian concerns	N		N		N		N	
SS415	N		N		N		N		N		N		N	
SS417	N		N		N		N		N		N		N	
SS418	Y		N		N		N		N		N		N	
SS420	Y	Monitor	Y		Y		N		N		N		N	
SS421	Y	Monitor	Y		N		N		N		N		N	Road over dam
SS432	N	Monitor	Y		N		N		N		N		N	
SS436	N		Y	No VP - reservoir	N		N		N		N		N	
SS437	N		Y	No VP - reservoir	N		N		N		N		N	
SS48	N		Y		N	No riparian concerns	N		N		N		N	
SS500	N		N		N		N		N		N		N	
SS501	N		N		N		N		N		N		N	
SS502	N		Y		N		N		N		N		N	
SS503	N		N		N		N		N		N		N	
SS504	N		N		N		N		N		N		N	
SS505	N		N		N		N		N		N		N	
SS506	N		N		N		N		N		N		N	
SS507	N		N		N		N		N		N		N	
SS508	N		N		N		N		N		N		N	
SS509	N		N		N		N		N		N		N	
SS510	N		N		N		N		N		N		N	
SS514	N		N		N	No riparian	N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
						concerns								
SS515	N		N		N	No riparian concerns	N		N		N		N	
SS517	N		N		N		N		N		N		N	
SS520	N		N		N		N		N		N		N	
SS522	N		N		N		N		N		N		N	
SS524	N		N		N		N		N		N		N	
SS525	N		N		N		N		N		N		N	
SS526	N		N		N		N		N		N		N	
SS527	N		N		N		N		N		N		N	
SS528	N		N		N		N		N		N		N	
SS529	N		N		N		N		N		N		N	
SS530	N		N		N		N		N		N		N	
SS531	N		N		N		N		N		N		N	
SS532	N		N		N		N		N		N		N	
SS533	N		N		Y		N		N		N		N	
SS534	N		N		N		N		N		N		N	
SS535	N		N		N		N		N		N		N	
SS535A	N		Y		N		N		N		N		N	Access to private land
SS551	N		N		Y		N		N		N		N	
SS554	N		N		N		N		N		N		N	
SS556	N		N		Y		N		N		N		N	
SS557	N		N		Y		N		N		N	End road at Roadless	N	
SS558	N		N		Y		N		N		N		N	
SS562	Y	Monitor	N		N		N		N		N	Access to Lily Lake	N	
SS563	N		N		Y		N		N		N		N	
SS564	Y	Monitor	N		Y		N		N		N		N	
SS565	Y	Monitor	N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS566	Y		N		N		N		N		N		N	
SS567	Y	Monitor	N		Y		N		N		N		N	
SS568	Y	Monitor	N		Y		N		N		N		N	
SS569	Y		N		N		N		N		N		N	
SS573	N		N		Y		N		N		N		N	
SS574	N		N		N		N		N		N		N	
SS575	Y		N		N		N		N		N		N	
SS579	Y		N		Y		N		N		N		N	
SS580	N		N		Y		N		N		N		N	
SS581	N		N		Y		N		N		N		N	
SS582	N		N		Y		N		N		N		N	
SS583	Y	Monitor	N		Y		N		N		N		N	
SS584	N		N		Y		N		N		N		N	
SS585	N		N		N		N		N		N		N	
SS588	N		N		N		N		N		N		N	
SS589	Y		N		Y		N		N		N		N	
SS59	N		Y		N		N		N		N	Access to Guerier Reservoir	N	
SS590	Y		N		N		N		N		N		N	
SS591	Y	Monitor	N		Y		N		N		N		N	
SS593	N		N		Y		N		N		N		N	
SS600	N		N		Y		N		N		N		N	
SS601	N		N		Y		N		N		N	Access to Lake	N	
SS602	N		N		Y		N		N		N		N	
SS603	N		N		N		N		N		N		N	
SS605	N		N		Y		N		N		N		N	
SS606	N		N		Y		N		N		N		N	
SS607	N		N		Y		N		N		N		N	
SS608	Y	Monitor	N		Y		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS613	N		N		Y		N		N		N		N	
SS614	N		N		N		N		N		N		N	
SS62	N		N		N		N		N		N		N	
SS622	N		N		Y	Close to riparian but on bench	N		N		N		N	
SS627	N		N		N		N		N		N		N	
SS628	Y	Monitor	N		N		N		N		N		N	
SS63	N		N		N		N		N		N		N	Part of existing system rd.
SS630	N		N		N		N		N		N		N	
SS631	N		N		N		N		N		N		N	
SS633	Y	Monitor	N		N		N		N		N		N	
SS634	Y	Monitor	N		N		N		N		N		N	
SS635	Y		N		N		N		N		N		N	
SS639	N		N		N		N		N		N		N	
SS64	N		N		N		N		N		N		N	
SS640	N		N		N		N		N		N		N	
SS641	Y	Monitor	N		N		N		N		N		N	
SS648	N		N		N		N		N		N		N	
SS65	N		N		N		N		N		N		N	
SS656	N	Monitor	N		Y		N		N		N		N	
SS659	N		N		Y		N		N		N		N	
SS66	N		N		N		N		N		N		N	
SS660	N		N		N		N		N		N		N	
SS662	N		N		Y		N		N		N		N	
SS667	N		N		N		N		N		N		N	
SS668	N		N		N		N		N		N		N	
SS669	N		N		N		N		N		N		N	
SS67	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS670	N		N		N		N		N		N		N	
SS671	N		N		N		N		N		N		N	
SS678	N		N		N		N		N		N		N	
SS690	N		N		N		N		N		N		N	
SS691	N		N		Y		N		N		N		N	
SS695	N		N		N		N		N		N		N	Shaded fuelbreak
SS697	N		N		N		N		N		N		N	
SS701	N		N		N		N		N		N		N	
SS702	Y		N		N		N		N		N		N	
SS706	N		N		Y		N		N		N		N	
SS707	N		N		N		N		N		N		N	
SS71	N		Y		N		N		N		N		N	
SS710	N		N		N	No riparian concerns	N		N	No CAR concerns	N		N	
SS711	N		N		Y	No riparian concerns	N		N	No CAR concerns	N		N	
SS715	N		N		Y		N		N		N		N	
SS725	Y	Monitor	N		Y		N		N		N		N	
SS726	N		N		N		N		N		N		N	
SS727	Y	Monitor	N		N		N		N		N		N	
SS736	Y		N		Y		N		N		N		N	
SS739	N		N		Y		N		N		N		N	
SS74	N		N		N		N		N		N		N	
SS75	N		N		N		N		N		N		N	
SS757	N		N		N		N		N		N		N	
SS76	N		N		N		N		N		N		N	
SS767	N		N		Y		N		N		N		N	
SS770	N		N		N		N		N		N		N	
SS78	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS788	Y	Monitor	N		Y		N		N		N		N	
SS789	Y	Monitor	N		N		N		N		N		N	
SS79	N		N		N		N		N		N		N	
SS790	Y	Monitor	N		Y		N		N		N		N	
SS792	Y		N		N		N		N		N		N	
SS795	N		N		N		N		N		N		N	
SS80	N		N		N		N		N		N		N	Access to stockpond
SS818	N		N		N		N		N		N		N	
SS819	N		N		N		N		N		N		N	
SS824	N		N		N		N		N		N		N	
SS83	N		N		N		N		N		N		N	
SS841	N		N		N		N		N		N		N	
SS844	N		N		Y		N		N		N		N	
SS847	N		N		Y		N		N		N		N	
SS852	N		N		N		N		N		N		N	
SS854	N		N		Y		N		N		N		N	
SS862	N		N		N		N		N		N		N	
SS864	N		N		N		N		N		N		N	Connects with SS865, SS866
SS865	N		N		N		N		N		N		N	
SS866	N		N		N		N		N		N		N	
SS868	N		N		N		N		N		N		N	
SS871	N		N		N		N		N		N		N	
SS881	N		N		N		N		N		N		N	
SS882	N	Monitor	N		N		N		N		N		N	
SS883	N	Monitor	N		N		N		N		N		N	
SS884	Y	Monitor	N		N		N		N		N		N	Powerline access
SS886	N		N		N		N		N		N		N	
SS903	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS904	Y	Monitor	N		N		N		N		N		N	
SS910	Y		N		N		N		N		N		N	
SS912	Y		N		N		N		N		N		N	
SS914	N		N		N		N		N		N		N	
SS920	N		N		N		N		N		N		N	
SS926	N		N		N		N		N		N		N	
SS927	N		N		N		N		N		N		N	
SS928	N		N		N		N		N		N		N	
SS929	N		N		N		N		N		N		N	
SS930	N		N		N		N		N		N		N	
SS931	Y	Monitor	N		N		N		N		N		N	
SS932	N		N		N		N		N		N		N	
SS933	N		N		N		N		N		N		N	
SS934	N		N		N		N		N		N		N	
SS935	N		N		N		N		N		N		N	Connects to system rd.
SS940	Y	Monitor	N		N		N		N		N		N	Connects to system rd.
SS941	N		N		N		N		N		N		N	
SS948	N		N		N		N		N		N		N	
SS949	N		N		N		N		N		N		N	
SS950	N		N		N		N		N		N		N	
SS951	N		N		N		N		N		N		N	
SS952	N		N		N		N		N		N		N	
SS954	N		N		N		N		N		N		N	
SS955	N		N		N		N		N		N		N	
SS957	N		N		N		N		N		N		N	
SS958	N		N		N		N		N		N		N	Access to private land

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
SS964	N		N		N		N		N		N		N	
SS969	Y	Monitor	Y		N		N		N		N		N	Pipeline
SS973	N		N		N		N		N		N		N	
SS978	N		N		N		N		N		N		N	Pipeline
SS979	N		N		N		N		N		N		N	Pipeline
SS980	Y	Monitor	N		N		N		N		N		N	Access to Old Dry Lake guard Station
SS983	Y		N		N		N		N		N		N	
SS984	Y		N		N		N		N		N		N	Pipeline
SS988	N		N		N		N		N		N		N	
SS989	Y		N		N		N		N		N		N	
SS990	Y		N		N		N		N		N		N	Pipeline
SS991	Y		N		N		N		N		N		N	Pipeline
SS993	N		N		N		N		N		N		N	Pipeline
SS994	Y		N		N		N		N		N		N	Pipeline
SS996	N		N		N		N		N		N		N	Pipeline
TR10	N		N		N		N		N		N		N	
TR100	N		N		N		N		N		N		N	
TR101	N		N		N		N		N		N		N	
TR102	N		N		N		N		N		N		N	
TR105	N		N		N		N		N		N		N	
TR106	N		N		N		N		N		N		N	
TR11	N		N		N		N		N		N		N	
TR12	N		N		N		N		N		N		N	
TR13	N		N		N		N		N		N		N	
TR14	N		N		N		N		N		N		N	
TR15	N		N		N		N		N		N		N	
TR16	N		N		N		N		N		N		N	
TR18	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
TR2	N		N		N		N		N		N		N	
TR20	N		N		N		N		N		N	Makes loop	N	
TR21	N		N		N		N		N		N		N	Error - not SPNM
TR22	N		N		N		N		N		N		N	
TR23	N		N		N		N		N		N		N	
TR24	N		N		N		N		N		N		N	
TR25	N		N		N		N		N		N		N	
TR27	N		N		N		N		N		N		N	
TR28	N		N		N		N		N		N		N	
TR29	N		N		N		N		N		N		N	
TR300	N		N		N		N		N		N		N	
TR301	N	Monitor	N		N		N		N		N		N	
TR302	N		N		N		N		N		N		N	
TR303	N		N		N		N		N		N		N	
TR307	N		N		N		N		N		N		N	
TR308	N		N		N		N		N		N		N	
TR310	N		N		N		N		N		N		N	
TR32	N		N		N		N		N		N		N	
TR33	N		N		N		N		N		N		N	
TR34	N		N		N		N		N		N		N	
TR35	N		N		N		N		N		N		N	
TR36	N		N		N		N		N		N		N	
TR37	N		N		N		N		N		N		N	
TR38	N		N		N		N		N		N		N	
TR39	N		N		N		N		N		N		N	
TR4	N		N		N		N		N		N		N	
TR41	N		N		N		N		N		N		N	
TR42	N		N		N		N		N		N		N	
TR43	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
TR44	N		N		N		N		N		N		N	
TR50	Y	Monitor	N		N		N		N		N		N	End at Roadless
TR51	N		N		N		N		N		N		N	
TR52	N		N		N		N		N		N		N	
TR53	N		N		N		N		N		N		N	
TR54	N		N		N		N		N		N		N	
TR55	N		N		N		N		N		N		N	
TR56	N		N		N		N		N		N		N	
TR59	N		N		N		N		N		N		N	
TR60	N	Monitor	N		N		N		N		N		N	
TR61	N		N		N		N		N		N		N	
TR62	N	Monitor	N		N		N		N		N		N	Gravel Pit
TR63	N		N		N		N		N		N		N	
TR64	N		N		N		N		N		N		N	
TR65	N		N		N		N		N		N		N	
TR66	N		N		N		N		N		N		N	
TR67	N		N		N		N		N		N		N	
TR68	N		N		N		N		N		N		N	
TR69	N		N		N		N		N		N		N	
TR70	N		N		N		N		N		N		N	
TR71	N		N		N		N		N		N		N	
TR72	N		N		N		N		N		N		N	
TR73	N		N		N		N		N		N		N	
TR74	N		N		N		N		N		N		N	
TR75	N		N		N		N		N		N		N	
TR76	N		N		N		N		N		N		N	
TR77	N		N		N		N		N		N		N	
TR78	N		N		N		N		N		N		N	
TR79	N		N		N		N		N		N		N	

	Heritage		Botany		Hydro & Soils		Wildlife		Aquatics		Recreation		Other	
TR8	N		N		N		N		N		N		N	
TR80	N		N		N		N		N		N		N	
TR81	N		N		N		N		N		N		N	
TR82	N		N		N		N		N		N		N	
TR83	N		N		N		N		N		N		N	
TR84	N		N		N		N		N		N		N	
TR85	N		N		N		N		N		N		N	
TR87	N		N		N		N		N		N		N	
TR88	N		N		N		N		N		N		N	
TR89	N		N		N		N		N		N		N	
TR90	N		N		N		N		N		N		N	
TR93	N	Monitor	N		N		N		N		N		N	
TR94	N		N		N		N		N		N		N	
TR95	N		N		N		N		N		N		N	
TR96	Y	Monitor	N		N		N		N		N		N	
TR97	N		N		N		N		N		N		N	
TR98	N		N		N		N		N		N		N	
TR99	N		N		N		N		N		N		N	

Appendix B: Monitoring Plan

The following pages show the monitoring plan for the unauthorized routes that are proposed for addition. If a resource is not mentioned below it is because that specialist will not be doing any additional monitoring for these roads under Travel Management other than what would normally be required in the Land and Resource Management Plan (LRMP).

Botany Monitoring Plan

Under each different alternative of the Modoc National Forest Travel Management EIS, there would be different botany concerns requiring differing monitoring needs.

Alternative 1

Alternative 1 provides for cross-country travel, which poses the possibility of effects upon all special status plants on the Forest. Although this would ideally call for monitoring of each plant occurrence as often as possible, this is impractical.

It is recommended, therefore, that the highest priority plants (Endangered and Threatened) would be monitored yearly to determine the effect of cross-country travel upon these plant occurrences. At present, there are 1 Endangered plant occurrence and 16 Threatened plant occurrences known on the Forest, so it should take about three weeks with a two-person crew (one of whom is either the Forest Botanist or Assistant Forest Botanist) to implement botany monitoring protocols upon these sites, including clerical work to appropriately document and file monitoring records. In addition, the plant occurrences in Table B-1 would be monitored, providing a representative sample of Alternative 1's effects upon special status plant populations. In total, this would require six weeks per year with a two-person crew to monitor 34 plant occurrences, including clerical work, and would thus require a budget of about \$8,000 per year. Because of the possibility that new roads affecting special status plant occurrences could be created in any year, there should be no time limit on monitoring.

Alternatives 2 and 5

Table I shows most of the special status plant occurrences located within one hundred feet of roads proposed for addition under Alternatives 2 and 5, save those for *Iliamna bakeri*. *I. bakeri* was removed because it is an upland shrub, growing in conifer or scrub communities, which germinates immediately following fires, and is therefore not especially prone to severe damage, by motorized vehicle traffic. The other species represented here are smaller, and thus more likely to suffer damage by vehicles, and occur in more sensitive habitats, such as meadows, vernal pools, riparian areas, or soft gravelly soils. This leaves 7 rare plant species in 17 occurrences potentially affected by 20 proposed routes.

It is recommended that all 17 occurrences be monitored each year for four years. If no noticeable effects are identified on any of these sites within those four years, then the need to continue monitoring should be re-examined. This would require a two-person crew (one of whom is either the Forest Botanist or Assistant Forest Botanist) three weeks to implement botany monitoring protocols upon these sites, including clerical work to appropriately document and file monitoring records. This would require a budget of about \$4,000 per year for four years; however, this regiment may be adjusted at the end of the first year based on findings and professional judgement.

Alternative 4

The botany monitoring plan would be similar to that for Alts. 2 and 5 above, except that four less occurrences (*Calochortus longebarbatus* sites 78A and 82, *Dimeresia howellii* site 2, and *Gratiola heterosepala* site 9) would be monitored, as the routes that would affect them are not proposed for addition in this Alternative.

It is recommended, therefore, that all 13 occurrences be monitored each year for four years. If no noticeable effects are identified on any of these sites within those four years, then the need to continue monitoring should be re-examined. This would require a two-person crew (one of whom is either the Forest Botanist or Assistant Forest Botanist) three weeks to implement botany monitoring protocols upon these sites, including clerical work to appropriately document and file monitoring records. This would require a budget of about \$4,000 per year for four years, since it would require about the same amount of driving and organizational time as monitoring for Alternatives 2 or 5; however, this regiment may be adjusted at the end of the first year based on findings and professional judgment.

Alternative 3

No routes would be proposed for addition under this Alternative, and cross-country travel would be prohibited. Therefore, there would be no need for monitoring the effects of implementing this Alternative.

Table B-1. Special-Status Plant Occurrences for Botany Monitoring

Species	Status	Occurrence Number	Acres	District Name	Route Number	Miles	Alternative		
							2	4	5
<i>Buxbaumia viridis</i>	Sensitive	1	.10	Warner Mtn.	BA473	.15	X	X	X
					BA474	.11			
<i>Buxbaumia viridis</i>	Sensitive	4	.10	Warner Mtn.	BA406	.53	X	X	X
					BA407	.62			
<i>Buxbaumia viridis</i>	Sensitive	7	.10	Warner Mtn.	BA472	.12	X	X	X
<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	Sensitive	20	1.3	Big Valley	TR310	.06	X	X	X
<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	Sensitive	77	186	Devil's Gdn.	JW2135	.13	X	X	X
<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	Sensitive	78A	31	Devil's Gdn.	BA143	.50	X		X
<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	Sensitive	82	3.3	Devil's Gdn.	ML432	.21	X		X
<i>Carex halliana</i>	Watch List	7	29.2	Doublehead	BA2204	.09	X	X	X
<i>Dimeresia howellii</i>	Watch List	2	.6	Warner Mtn.	BA497	.22	X		X
<i>Eriogonum umbellatum</i> var. <i>glaberrimum</i>	Sensitive	6	1	Warner Mtn.	SS551	.10	X	X	X
<i>Gratiola heterosepala</i>	Watch List	9	357	Devil's Gdn.	BA173	.08	X		X
<i>Gratiola heterosepala</i>	Watch List	13	51.4	Devil's Gdn.	ML584	.10	X	X	X
<i>Gratiola heterosepala</i>	Watch List	16	.5	Doublehead	BA55	.17	X	X	X
<i>Gratiola heterosepala</i>	Watch List	18	1.6	Doublehead	BA2217	.22	X	X	X

Species	Status	Occurrence Number	Acres	District Name	Route Number	Miles	Alternative		
							2	4	5
<i>Pogogyne floribunda</i>	Watch List	4	1.6	Doublehead	BA71	.97	X	X	X
<i>Pogogyne floribunda</i>	Watch List	10	8.2	Doublehead	ML299	2.27	X	X	X
<i>Pogogyne floribunda</i>	Watch List	29	24	Devil's Gdn.	SS312	.86	X	X	X

The Modoc National Forest recently issued the Noxious Weed Treatment Project Final Environmental Impact Statement (NWTPFEIS; R5-MB-167; Aug. 2008). As part of the NWTPFEIS, we will monitor noxious weeds on the Forest as part of the Early Detection – Rapid Response and treatment effectiveness monitoring. The NWTPFEIS, as a forest-wide weed monitoring and treatment project, covers all areas under consideration in the Motorized Vehicle Travel Management project.

Heritage Resources Monitoring Plan

As identified in the Modoc National Forest Travel Management EIS under Heritage Resources under Alternatives 2, 4, and 5, it has been recommended to relocate 47 previously recorded archaeological sites to see if they are actually within the affected area of the route designation and monitor their condition, and to monitor another 211 archaeological sites that have been identified as being within route designation corridors. These efforts are designed to enable a better determination of the affects, if any, upon these cultural resources by route designation. The affects may be the result of the continuing use of these routes after designation. Thus, there is a total of 258 archaeological sites that require some level of relocation and monitoring.

It is recommended that this process be spread over a three year period. First, all 47 of the archaeological sites marked for relocation should be relocated within this time period. It is recommended that 1/3 of the sites be relocated each year. This would mean that 16 sites would be relocated in each of the first two years and 15 in the third year. If any of these sites are found to be within the designated route corridor it would have a new archaeological site record completed and a baseline condition assessment made a part of that record. If a site is determined to be outside of the route corridor its updated site record may be deferred to a later date.

Second, a sample of the 211 archaeological sites designated for monitoring should be examined each year. It is recommended that a 10% sample be selected – or 21 sites per year for three years. If no noticeable affects are identified on any of these sampled sites, then the need to continue monitoring should be reexamined.

It is anticipated that given the relatively light use that most of the designated routes exhibit at present, if use does not increase significantly as a result of designation that continued light use should have little noticeable effect on these sites.

In order to relocate and record 16 sites and monitor 21 sites per year it is anticipated that this will take a two-person archaeological crew (i.e., one GS-0102-05 Archaeological Technician, one Student Volunteer, and a vehicle) about 60 days, plus clerical support to type site and monitoring records. This will require a budget of about \$5,000 per year for nine years. However, this regiment may be adjusted at the end of the first year based on findings and professional judgment.

Hydrology and Soils Monitoring Plan

Monitoring of Soils and Hydrology resources will occur on unauthorized routes added to the Forest Transportation System utilizing the Best Management Practices Evaluation Program. See Appendix G for complete Water Quality Monitoring Plan

Aquatics Monitoring Plan

Monitoring of aquatic resources will occur on unauthorized routes added to the Forest Transportation System utilizing the Best Management Practices Evaluation Program. In areas that have the greatest potential for impacts to aquatic species, monitoring of fine-grained sediments would be implemented using Stream Condition Inventory protocols. Sites monitored may vary from year to year.

Facilities Monitoring Plan

Condition Surveys are performed on all maintenance level 3,4 & 5 roads every 5 years, with approximately 20% completed each year.

Condition Surveys are performed on maintenance level 1 & 2 roads based on a random sample generated by the Washington Office. It is a relatively small sample. All of the roads that are proposed for addition will be classified as level 2.

In addition to the formal condition surveys, we monitor road conditions continually as they are driven for other purposes. As problems are identified, they are addressed as resources allow.

There will be no additional monitoring resulting from Travel Management; however whatever roads are added to the system will be monitored based on the guidelines listed above.

Wildlife Monitoring Plan

Wildlife monitoring on the routes added to the system will be done annually and will begin at the rate of 15 routes per year. However, this regiment may be adjusted at the end of the first year based on findings and professional judgment.

Recreation Monitoring Plan

There is no monitoring proposed for recreation.

Visual Resources Monitoring Plan

There is no monitoring proposed for visual resources.

Appendix C: Route Segments Having Visual Management Prescriptions

The table below lists the route segments on the Modoc National Forest that have visual management prescriptions as described in the visual standards and guidelines in the Land and Resource Management Plan. (P = Partial Retention, R = Retention and Y = route segment in that alternative or the starting inventory, VQO=Visual Quality Objective)

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA118	0.17	P	Y		Y	Y
BA123	0.45	P	Y		Y	Y
BA124	1.08	P	Y		Y	Y
BA125	0.09	P	Y	Y	Y	Y
BA127	0.07	P	Y	Y	Y	Y
BA128	0.18	P	Y	Y	Y	Y
BA131	0.26	P	Y		Y	Y
BA132	0.19	P	Y		Y	Y
BA136	0.58	P	Y	Y	Y	Y
BA140	0.10	P	Y		Y	Y
BA142	0.04	P	Y		Y	Y
BA169	0.05	P	Y		Y	Y
BA191	0.11	P	Y	Y	Y	Y
BA193	0.16	P	Y	Y	Y	Y
BA200	0.08	P	Y	Y	Y	Y
BA2070	1.03	P				Y
BA2189	0.07	P				Y
BA2190	0.04	P				Y
BA2191	0.16	P				Y
BA2192	0.07	P				Y
BA2193	0.02	P				Y
BA2193	0.03	R				Y
BA2194	0.10	R				Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA2195	0.11	P				Y
BA2197	0.17	P				Y
BA2198	0.06	P				Y
BA2199	0.12	P				Y
BA2200	0.30	P				Y
BA2201	0.05	P				Y
BA2203	0.32	P	Y	Y	Y	Y
BA2204	0.05	P	Y	Y	Y	Y
BA2206	0.19	P	Y	Y	Y	Y
BA2208	0.12	P	Y	Y	Y	Y
BA2209	0.01	P				Y
BA2213	0.16	P				Y
BA2214	0.07	P	Y	Y	Y	Y
BA2216	0.07	P	Y	Y	Y	Y
BA222	0.10	P	Y	Y	Y	Y
BA2220	0.23	P				Y
BA2221	0.06	P	Y		Y	Y
BA2223	0.03	P	Y	Y	Y	Y
BA2224	0.21	P	Y	Y	Y	Y
BA2225	0.16	P	Y	Y	Y	Y
BA2226	0.25	P	Y	Y	Y	Y
BA2227	0.14	P	Y	Y	Y	Y
BA2231	0.12	P	Y	Y	Y	Y
BA2233	0.05	P	Y	Y	Y	Y
BA2236	0.19	P	Y	Y	Y	Y
BA2250	0.09	P	Y		Y	Y
BA2254	0.25	P	Y	Y	Y	Y
BA2255	0.06	P	Y		Y	Y
BA2260	0.93	P	Y		Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA2263	0.04	P	Y	Y	Y	Y
BA2264	0.21	P	Y	Y	Y	Y
BA2267	0.06	P	Y	Y	Y	Y
BA2268	0.23	P	Y	Y	Y	Y
BA2269	0.04	P	Y	Y	Y	Y
BA2272	0.25	P	Y	Y	Y	Y
BA2279	0.35	P	Y		Y	Y
BA2280	0.13	P	Y	Y	Y	Y
BA2289	0.14	R	Y		Y	Y
BA2290	0.09	R	Y		Y	Y
BA264	0.09	P				Y
BA297	0.97	P	Y	Y	Y	Y
BA347	0.10	P	Y	Y	Y	Y
BA348	0.04	P				Y
BA349	0.09	P				Y
BA352	0.83	P				Y
BA353	0.12	R				Y
BA355	1.39	P				Y
BA356	0.26	P				Y
BA357	0.04	P	Y	Y	Y	Y
BA358	0.09	P	Y	Y	Y	Y
BA359	0.09	P	Y	Y	Y	Y
BA360	0.45	P				Y
BA361	0.15	P				Y
BA366	0.15	P	Y	Y	Y	Y
BA367	0.16	P				Y
BA368	0.41	P	Y	Y	Y	Y
BA369	0.08	P	Y	Y	Y	Y
BA370	0.09	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA371	0.02	P	Y	Y	Y	Y
BA372	0.20	P				Y
BA373	0.13	P	Y		Y	Y
BA378	0.19	P	Y		Y	Y
BA387	0.04	P	Y	Y	Y	Y
BA388	0.27	P				Y
BA389	0.17	P	Y		Y	Y
BA390	0.13	P				Y
BA391	0.08	P				Y
BA393	0.37	P				Y
BA394	0.10	P	Y		Y	Y
BA396	0.04	P	Y		Y	Y
BA397	0.50	P	Y		Y	Y
BA398	0.02	P	Y		Y	Y
BA399	0.20	P				Y
BA400	0.23	P				Y
BA401	0.24	P				Y
BA402	0.48	P				Y
BA403	0.14	P				Y
BA403	0.06	R				Y
BA405	0.19	P				Y
BA406	0.18	P	Y	Y	Y	Y
BA407	0.58	P	Y	Y	Y	Y
BA408	0.60	P	Y	Y	Y	Y
BA409	0.17	P				Y
BA410	0.57	P	Y	Y	Y	Y
BA411	0.02	P	Y	Y	Y	Y
BA412	0.67	P	Y	Y	Y	Y
BA413	0.08	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA419	0.32	P				Y
BA424	0.07	P				Y
BA425	0.03	P	Y	Y	Y	Y
BA426	0.22	P				Y
BA427	0.20	P				Y
BA430	0.11	P				Y
BA431	0.03	P	Y	Y	Y	Y
BA432	0.08	P				Y
BA433	0.02	P				Y
BA434	0.21	P				Y
BA435	0.41	R				Y
BA436	0.02	P				Y
BA436	0.20	R				Y
BA438	0.17	R				Y
BA439	0.01	P				Y
BA442	0.08	P	Y	Y	Y	Y
BA443	0.06	P	Y	Y	Y	Y
BA444	0.18	P	Y	Y	Y	Y
BA445	0.26	P	Y	Y	Y	Y
BA446	0.14	P	Y	Y	Y	Y
BA447	0.70	P	Y	Y	Y	Y
BA448	0.19	P	Y	Y	Y	Y
BA449	0.04	P	Y	Y	Y	Y
BA450	0.08	P				Y
BA451	0.19	P				Y
BA452	0.03	P	Y	Y	Y	Y
BA455	0.24	P				Y
BA456	0.16	P	Y	Y	Y	Y
BA458	0.06	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA459	0.15	P				Y
BA462	0.11	P				Y
BA463	0.05	P	Y	Y	Y	Y
BA464	0.05	P	Y	Y	Y	Y
BA465A	0.21	P	Y	Y	Y	Y
BA467	0.13	P	Y	Y	Y	Y
BA470	0.07	P	Y	Y	Y	Y
BA470	0.22	R	Y	Y	Y	Y
BA471	0.08	P	Y	Y	Y	Y
BA471	0.02	R	Y	Y	Y	Y
BA472	0.12	P	Y	Y	Y	Y
BA473	0.02	P	Y	Y	Y	Y
BA473	0.13	R	Y	Y	Y	Y
BA474	0.07	P	Y	Y	Y	Y
BA474	0.04	R	Y	Y	Y	Y
BA475	0.53	R	Y		Y	Y
BA476	0.16	P				Y
BA477	0.26	P				Y
BA478	0.10	P	Y		Y	Y
BA478	0.09	P	Y		Y	Y
BA478	0.00	P	Y		Y	Y
BA478	0.00	P	Y		Y	Y
BA479	0.38	P	Y		Y	Y
BA479	0.15	P	Y		Y	Y
BA479	0.00	P	Y		Y	Y
BA479	0.00	P	Y		Y	Y
BA480	0.47	R				Y
BA481	0.08	P				Y
BA482	0.50	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA482	0.26	P	Y	Y	Y	Y
BA485	0.11	R	Y		Y	Y
BA486	0.12	R				Y
BA487	0.14	R				Y
BA488	0.16	R				Y
BA488	0.02	P				Y
BA490	0.07	P	Y	Y	Y	Y
BA491	0.29	P	Y		Y	Y
BA492	0.06	P	Y	Y	Y	Y
BA493	0.05	P	Y	Y	Y	Y
BA495	0.41	R	Y	Y	Y	Y
BA496	0.06	R	Y	Y	Y	Y
BA497	0.22	R	Y		Y	Y
BA498	0.12	R	Y	Y	Y	Y
BA499	0.16	R	Y	Y	Y	Y
BA501	0.91	P	Y	Y	Y	Y
BA503	0.16	P	Y	Y	Y	Y
BA540	0.17	P	Y	Y	Y	Y
BA541	0.17	P	Y	Y	Y	Y
BA542	0.13	R	Y	Y	Y	Y
BA543	0.15	R	Y	Y	Y	Y
BA544	0.06	R	Y	Y	Y	Y
BA545	0.15	R	Y	Y	Y	Y
BA546	0.03	R	Y	Y	Y	Y
BA547	0.20	R				Y
BA551	0.15	P				Y
BA566	0.09	P	Y	Y	Y	Y
BA576	0.06	P	Y	Y	Y	Y
BA577	0.03	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
BA95	0.01	P	Y		Y	Y
JW2100	0.04	R				Y
JW2101	0.03	R				Y
JW2102	0.03	R				Y
JW2103	0.04	R				Y
JW2104	0.02	R				Y
JW2105	0.05	R				Y
JW2106	0.10	R				Y
JW2107	0.03	R				Y
JW2108	0.07	R				Y
JW2121	0.04	P	Y	Y	Y	Y
JW2122	0.22	P	Y	Y	Y	Y
JW2123	0.15	P	Y	Y	Y	Y
JW2124	0.03	P	Y	Y	Y	Y
JW2129	0.25	P	Y	Y	Y	Y
JW2132	0.03	P	Y	Y	Y	Y
JW2134	0.02	P	Y		Y	Y
JW2135	0.13	P	Y	Y	Y	Y
JW2138	0.15	P	Y		Y	Y
JW59	0.24	P	Y	Y	Y	Y
JW61	0.04	P	Y	Y	Y	Y
JW62	0.12	P	Y	Y	Y	Y
JW63	0.13	P	Y	Y	Y	Y
JW64	0.37	P	Y	Y	Y	Y
JW65	0.30	P	Y	Y	Y	Y
JW66	0.63	P	Y	Y	Y	Y
JW69	0.22	P	Y	Y	Y	Y
JW71	0.36	P	Y	Y	Y	Y
JW72	0.23	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
JW74	0.33	P	Y	Y	Y	Y
JW78	0.59	P	Y	Y	Y	Y
JW79	0.49	P	Y	Y	Y	Y
JW82	0.17	P	Y	Y	Y	Y
ML136	0.04	P	Y	Y	Y	Y
ML139	0.07	P				Y
ML140	0.05	P	Y	Y	Y	Y
ML141	0.04	P	Y	Y	Y	Y
ML146	1.11	P	Y	Y	Y	Y
ML147	0.16	P				Y
ML150	0.34	P	Y	Y	Y	Y
ML156	0.85	P				Y
ML159	2.12	P				Y
ML162	0.16	P				Y
ML164	0.36	P	Y	Y	Y	Y
ML172	0.15	P	Y	Y	Y	Y
ML175	0.30	P	Y	Y	Y	Y
ML177	0.27	P	Y	Y	Y	Y
ML178	0.44	P	Y	Y	Y	Y
ML180	0.11	P	Y	Y	Y	Y
ML181A	0.19	P	Y	Y	Y	Y
ML186	0.30	P				Y
ML197	0.14	P				Y
ML198	0.01	P	Y	Y	Y	Y
ML198	0.13	R	Y	Y	Y	Y
ML201	0.05	R	Y	Y	Y	Y
ML2015	0.03	P	Y	Y	Y	Y
ML202	0.09	R	Y	Y	Y	Y
ML203	0.04	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
ML203	0.08	R	Y	Y	Y	Y
ML2030	0.07	P	Y	Y	Y	Y
ML2035	0.11	P	Y	Y	Y	Y
ML204	0.04	R				Y
ML2049	0.21	P	Y	Y	Y	Y
ML205	0.04	R				Y
ML2050	0.09	P	Y	Y	Y	Y
ML2051	0.06	P	Y	Y	Y	Y
ML206	0.05	R	Y	Y	Y	Y
ML207	0.06	R	Y	Y	Y	Y
ML2070	0.04	P	Y	Y	Y	Y
ML2078	0.02	P				Y
ML208	0.06	R	Y	Y	Y	Y
ML2089	0.06	P				Y
ML209	0.22	P	Y	Y	Y	Y
ML209	0.25	R	Y	Y	Y	Y
ML2090	0.04	P				Y
ML2093	0.05	P	Y		Y	Y
ML2097	0.12	P				Y
ML2099	0.03	P				Y
ML2100	0.03	P				Y
ML211	0.13	P				Y
ML2112	0.31	P				Y
ML213	0.06	R				Y
ML307	0.26	P	Y	Y	Y	Y
ML308	0.18	P	Y	Y	Y	Y
ML312	0.43	P	Y	Y	Y	Y
ML320	0.22	P	Y	Y	Y	Y
ML320	0.18	R	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
ML322	0.92	P	Y	Y	Y	Y
ML323	0.29	P	Y	Y	Y	Y
ML327	0.27	R	Y	Y	Y	Y
ML327	0.75	P	Y	Y	Y	Y
ML327	0.34	R	Y	Y	Y	Y
ML328	1.39	R	Y	Y	Y	Y
ML329	0.09	R	Y	Y	Y	Y
ML330	0.10	R	Y	Y	Y	Y
ML336	0.04	R	Y	Y	Y	Y
ML382	0.23	P	Y	Y	Y	Y
ML383	0.77	P	Y	Y	Y	Y
ML384	0.12	P	Y	Y	Y	Y
ML385	0.38	P	Y	Y	Y	Y
ML386	0.31	P	Y	Y	Y	Y
ML394	0.01	R	Y	Y	Y	Y
ML394	0.06	P	Y	Y	Y	Y
ML404	0.08	R	Y	Y	Y	Y
ML4045	0.49	P	Y	Y	Y	Y
ML4046	0.01	P	Y	Y	Y	Y
ML405	0.03	R	Y	Y	Y	Y
ML406	0.17	R	Y	Y	Y	Y
ML407	0.39	P				Y
ML410	0.30	P	Y	Y	Y	Y
ML410	0.70	R	Y	Y	Y	Y
ML410	0.08	R	Y	Y	Y	Y
ML414	0.03	R				Y
ML414	2.07	P				Y
ML414	0.18	R				Y
ML415	0.31	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
ML422	0.01	P				Y
ML423	0.06	P				Y
ML424	0.07	P				Y
ML425	0.20	P	Y	Y	Y	Y
ML438	0.48	P				Y
ML439	0.12	P				Y
ML446	0.54	P				Y
ML459	0.20	P				Y
ML460	0.76	P				Y
ML467	0.05	P	Y	Y	Y	Y
ML473	0.01	R				Y
ML474	0.04	R				Y
ML483	0.14	R				Y
ML488	0.27	R	Y		Y	Y
ML507	0.28	P				Y
ML520	0.11	P	Y		Y	Y
ML583	0.05	P	Y	Y	Y	Y
ML584	0.10	P	Y	Y	Y	Y
PA1	0.02	P	Y	Y	Y	Y
PA10	0.38	P	Y	Y	Y	Y
PA11	0.02	P	Y	Y	Y	Y
PA16	0.04	P	Y	Y	Y	Y
PA17	0.19	P	Y	Y	Y	Y
PA18	0.31	P	Y	Y	Y	Y
PA30	0.05	P	Y	Y	Y	Y
PA33	0.24	P				Y
PA38	0.04	P	Y	Y	Y	Y
PA39	0.03	P	Y	Y	Y	Y
PA40	0.01	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
PK10	0.78	P	Y	Y	Y	Y
PK11	0.27	P	Y	Y	Y	Y
PK13	0.51	P	Y	Y	Y	Y
PK14	0.05	P	Y	Y	Y	Y
PK15	0.12	P	Y	Y	Y	Y
PK16	0.18	P	Y	Y	Y	Y
PK17	0.26	P	Y	Y	Y	Y
PK18	0.12	P	Y	Y	Y	Y
PK19	0.12	P	Y	Y	Y	Y
PK20	0.40	P	Y	Y	Y	Y
PK21	0.05	P	Y	Y	Y	Y
PK22	0.07	P	Y	Y	Y	Y
PK31	0.11	P	Y	Y	Y	Y
PK6	0.22	P	Y	Y	Y	Y
PK9	0.03	P	Y	Y	Y	Y
PUB002	0.19	P				Y
PUB004	0.28	P				Y
PUB010	0.03	R	Y	Y	Y	Y
PUB011	0.04	P	Y	Y	Y	Y
PUB012	0.05	P	Y		Y	Y
PUB013	0.00	P	Y	Y	Y	Y
PUB017	0.04	R	Y	Y	Y	Y
PUB018	0.05	P	Y	Y	Y	Y
PUB019	0.02	P	Y	Y	Y	Y
SS100	0.03	P				Y
SS1002	0.30	P	Y	Y	Y	Y
SS1003	0.06	P	Y	Y	Y	Y
SS1004	0.71	P	Y	Y	Y	Y
SS102	0.03	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS17	0.03	P	Y	Y	Y	Y
SS398	0.15	P				Y
SS399	0.11	P				Y
SS400	0.07	P				Y
SS548	0.06	P				Y
SS551	0.07	R	Y	Y	Y	Y
SS552	0.08	R				Y
SS554	0.11	P	Y	Y	Y	Y
SS555	0.13	P				Y
SS556	0.43	R	Y	Y	Y	Y
SS557	0.11	R	Y	Y	Y	Y
SS558	0.08	R	Y	Y	Y	Y
SS563	0.06	R	Y	Y	Y	Y
SS574	0.07	P	Y	Y	Y	Y
SS575	0.06	P	Y	Y	Y	Y
SS579	0.05	R	Y	Y	Y	Y
SS579	0.16	P	Y	Y	Y	Y
SS580	0.08	P	Y	Y	Y	Y
SS581	0.03	P	Y	Y	Y	Y
SS582	0.03	P	Y		Y	Y
SS583	0.77	P	Y		Y	Y
SS584	0.05	R	Y	Y	Y	Y
SS584	0.01	P	Y	Y	Y	Y
SS585	0.05	R	Y	Y	Y	Y
SS588	0.04	R	Y	Y	Y	Y
SS589	0.05	R	Y	Y	Y	Y
SS590	0.06	R	Y	Y	Y	Y
SS591	0.15	R	Y	Y	Y	Y
SS592	0.26	R				Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS593	0.14	R	Y	Y	Y	Y
SS598	0.04	R				Y
SS600	0.05	R	Y	Y	Y	Y
SS601	0.14	R	Y		Y	Y
SS602	0.04	R	Y	Y	Y	Y
SS603	0.08	R	Y	Y	Y	Y
SS605	0.03	R	Y	Y	Y	Y
SS606	0.12	R	Y	Y	Y	Y
SS607	0.04	R	Y	Y	Y	Y
SS608	0.00	P	Y	Y	Y	Y
SS613	0.26	R	Y	Y	Y	Y
SS614	0.08	R	Y	Y	Y	Y
SS621	0.11	P				Y
SS622	0.07	P	Y	Y	Y	Y
SS623	0.15	P				Y
SS627	0.03	P	Y	Y	Y	Y
SS628	0.07	P	Y	Y	Y	Y
SS629	0.08	P				Y
SS630	0.11	P	Y	Y	Y	Y
SS634	0.70	P	Y		Y	Y
SS635	0.04	P	Y		Y	Y
SS639	0.12	R	Y		Y	Y
SS641	0.11	P	Y	Y	Y	Y
SS642	0.15	P				Y
SS648	0.03	P	Y	Y	Y	Y
SS649	0.10	P				Y
SS650	0.08	P				Y
SS651	0.15	P				Y
SS659	0.07	R	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS660	0.04	R	Y	Y	Y	Y
SS662	0.09	R	Y	Y	Y	Y
SS664	0.14	P				Y
SS667	0.12	R	Y		Y	Y
SS668	0.05	R	Y	Y	Y	Y
SS669	0.05	R	Y	Y	Y	Y
SS670	0.23	R	Y	Y	Y	Y
SS671	0.14	R	Y	Y	Y	Y
SS678	0.07	P	Y		Y	Y
SS68	0.02	P				Y
SS686	0.16	P				Y
SS687	0.26	P				Y
SS688	0.10	P				Y
SS69	0.17	P				Y
SS690	0.10	P	Y	Y	Y	Y
SS691	0.10	P	Y	Y	Y	Y
SS695	0.51	P	Y	Y	Y	Y
SS697	0.65	P	Y	Y	Y	Y
SS701	0.26	P	Y	Y	Y	Y
SS702	0.34	P	Y	Y	Y	Y
SS706	0.23	P	Y	Y	Y	Y
SS711	0.26	P	Y	Y	Y	Y
SS712	0.33	P				Y
SS713	0.35	P				Y
SS715	0.49	P	Y	Y	Y	Y
SS716	0.03	P				Y
SS717	0.26	P				Y
SS718	0.39	P				Y
SS719	0.19	P				Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS725	0.14	P	Y	Y	Y	Y
SS726	0.01	P	Y	Y	Y	Y
SS727	0.10	P	Y	Y	Y	Y
SS729	0.51	P				Y
SS733	0.34	P				Y
SS734	0.38	P				Y
SS735	0.05	P				Y
SS736	0.77	P	Y	Y	Y	Y
SS737	0.13	P				Y
SS738	0.22	P				Y
SS739	0.46	P	Y	Y	Y	Y
SS740	0.08	P				Y
SS741	0.15	R				Y
SS742	0.05	R				Y
SS743	0.36	P				Y
SS743	0.07	R				Y
SS746	0.23	P				Y
SS747	0.50	R				Y
SS748	0.21	R				Y
SS753	0.12	P				Y
SS757	0.21	P	Y	Y	Y	Y
SS758	0.15	P				Y
SS760	0.18	P				Y
SS761	0.17	P				Y
SS765	0.07	P				Y
SS770	0.13	R	Y	Y	Y	Y
SS777	0.41	P				Y
SS781	0.10	P				Y
SS784	0.23	P				Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS785	0.05	P				Y
SS786	0.05	P				Y
SS787	0.30	P				Y
SS788	0.75	P	Y	Y	Y	Y
SS789	0.08	P	Y	Y	Y	Y
SS790	0.13	P	Y	Y	Y	Y
SS791	0.22	P				Y
SS795	0.09	P	Y	Y	Y	Y
SS796	0.04	R				Y
SS797	0.04	R				Y
SS814	0.03	P				Y
SS821	0.03	P				Y
SS845	0.03	P				Y
SS846	0.06	P				Y
SS846	0.31	R				Y
SS847	0.38	P	Y	Y	Y	Y
SS848	0.07	P				Y
SS849	0.12	P				Y
SS855	0.24	R				Y
SS856	0.10	R				Y
SS857	0.06	R				Y
SS858	0.08	R				Y
SS859	0.02	R				Y
SS860	0.18	R				Y
SS861	0.05	R				Y
SS862	0.04	P	Y	Y	Y	Y
SS863	0.63	R				Y
SS863	0.00	P				Y
SS864	0.09	R	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS865	0.05	R	Y		Y	Y
SS865	0.29	P	Y		Y	Y
SS866	0.10	P	Y	Y	Y	Y
SS866	0.06	R	Y	Y	Y	Y
SS868	0.03	P	Y	Y	Y	Y
SS869	0.04	P				Y
SS870	0.06	P				Y
SS871	0.17	P	Y		Y	Y
SS874	0.29	P				Y
SS878	0.02	P				Y
SS881	0.83	P	Y	Y	Y	Y
SS881	0.14	R	Y	Y	Y	Y
SS882	0.03	P	Y	Y	Y	Y
SS883	0.04	P	Y	Y	Y	Y
SS884	0.12	R	Y	Y	Y	Y
SS885	0.04	P				Y
SS886	0.24	P	Y	Y	Y	Y
SS887	0.03	P				Y
SS888	0.08	R				Y
SS888	0.05	P				Y
SS889	0.02	R				Y
SS889	0.01	P				Y
SS890	0.04	R				Y
SS891	0.03	R				Y
SS900	0.12	R				Y
SS901	0.11	R				Y
SS901	0.00	P				Y
SS902	0.29	R				Y
SS902	0.19	P				Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS903	0.05	P	Y	Y	Y	Y
SS904	0.29	P	Y	Y	Y	Y
SS905	0.47	P				Y
SS906	0.05	P				Y
SS907	0.76	P				Y
SS910	0.03	P	Y	Y	Y	Y
SS911	0.08	P				Y
SS912	0.04	P	Y	Y	Y	Y
SS913	0.13	P				Y
SS914	0.08	R	Y	Y	Y	Y
SS915	0.06	R				Y
SS920	0.09	R	Y	Y	Y	Y
SS921	0.10	R				Y
SS926	0.09	R	Y	Y	Y	Y
SS927	0.07	P	Y	Y	Y	Y
SS928	0.05	P	Y	Y	Y	Y
SS929	0.05	P	Y	Y	Y	Y
SS930	0.09	P	Y	Y	Y	Y
SS932	0.14	P	Y	Y	Y	Y
SS933	0.04	P	Y	Y	Y	Y
SS934	0.06	P	Y	Y	Y	Y
SS940	0.05	R	Y	Y	Y	Y
SS940	0.05	P	Y	Y	Y	Y
SS941	0.09	R	Y	Y	Y	Y
SS943	0.26	P				Y
SS945	0.05	P				Y
SS947	0.18	P				Y
SS948	0.01	P	Y	Y	Y	Y
SS948	0.04	R	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
SS949	0.12	P	Y	Y	Y	Y
SS950	0.38	R	Y	Y	Y	Y
SS954	0.04	P	Y	Y	Y	Y
SS960	0.25	P				Y
SS964	0.85	R	Y	Y	Y	Y
SS964	0.02	P	Y	Y	Y	Y
SS969	0.08	P	Y	Y	Y	Y
SS970	0.08	P				Y
SS971	0.03	P				Y
SS972	0.70	P				Y
SS980	0.08	P	Y	Y	Y	Y
SS983	0.03	P	Y	Y	Y	Y
SS984	0.07	P	Y	Y	Y	Y
SS988	0.08	P	Y	Y	Y	Y
SS989	0.29	P	Y	Y	Y	Y
SS990	0.76	P	Y	Y	Y	Y
SS991	0.33	P	Y	Y	Y	Y
SS997	0.09	P				Y
SS998	0.12	P				Y
SS999	0.60	P				Y
TR10	0.00	R	Y	Y	Y	Y
TR10	0.03	P	Y	Y	Y	Y
TR100	0.10	P	Y	Y	Y	Y
TR101	0.21	P	Y	Y	Y	Y
TR102	0.08	P	Y	Y	Y	Y
TR11	0.25	P	Y	Y	Y	Y
TR11	0.39	P	Y	Y	Y	Y
TR12	0.22	R	Y	Y	Y	Y
TR12	0.15	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
TR12	0.46	R	Y	Y	Y	Y
TR12	0.03	P	Y	Y	Y	Y
TR13	0.05	R	Y	Y	Y	Y
TR14	0.03	P	Y	Y	Y	Y
TR16	0.17	P	Y	Y	Y	Y
TR18	0.10	R	Y	Y	Y	Y
TR2	0.15	P	Y	Y	Y	Y
TR20	0.04	R	Y	Y	Y	Y
TR22	0.14	P	Y	Y	Y	Y
TR23	0.03	R	Y	Y	Y	Y
TR25	0.06	R	Y	Y	Y	Y
TR28	0.10	P	Y		Y	Y
TR29	0.07	R	Y	Y	Y	Y
TR301	0.08	P	Y		Y	Y
TR302	0.23	P	Y	Y	Y	Y
TR303	0.03	P	Y	Y	Y	Y
TR307	0.11	P	Y	Y	Y	Y
TR308	0.07	P	Y	Y	Y	Y
TR32	0.05	P	Y	Y	Y	Y
TR33	0.04	P	Y	Y	Y	Y
TR34	0.05	P	Y	Y	Y	Y
TR35	0.07	P	Y	Y	Y	Y
TR36	0.05	P	Y	Y	Y	Y
TR37	0.07	P	Y	Y	Y	Y
TR38	0.05	P	Y		Y	Y
TR39	0.03	P	Y	Y	Y	Y
TR4	0.02	P	Y	Y	Y	Y
TR41	0.18	P	Y		Y	Y
TR42	0.04	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
TR5	0.10	R				Y
TR50	0.10	P	Y	Y	Y	Y
TR52	0.27	P	Y	Y	Y	Y
TR53	0.08	P	Y	Y	Y	Y
TR54	0.59	P	Y	Y	Y	Y
TR55	0.06	P	Y	Y	Y	Y
TR56	0.12	P	Y	Y	Y	Y
TR59	0.02	P	Y	Y	Y	Y
TR60	0.01	P	Y	Y	Y	Y
TR61	0.02	P	Y	Y	Y	Y
TR63	0.02	P	Y	Y	Y	Y
TR64	0.41	P	Y	Y	Y	Y
TR65	0.03	P	Y	Y	Y	Y
TR66	0.03	P	Y	Y	Y	Y
TR66	0.01	P	Y	Y	Y	Y
TR67	0.09	P	Y	Y	Y	Y
TR68	0.15	P	Y	Y	Y	Y
TR68	0.01	R	Y	Y	Y	Y
TR69	0.01	P	Y	Y	Y	Y
TR69	0.06	R	Y	Y	Y	Y
TR70	0.31	P	Y	Y	Y	Y
TR70	0.11	R	Y	Y	Y	Y
TR71	0.09	P	Y	Y	Y	Y
TR71	0.00	R	Y	Y	Y	Y
TR72	0.08	P	Y	Y	Y	Y
TR73	0.27	P	Y	Y	Y	Y
TR73	0.01	R	Y	Y	Y	Y
TR74	0.61	P	Y	Y	Y	Y
TR75	0.30	P	Y	Y	Y	Y

Route #	Miles	VQO	Alt. 2	Alt. 4	Alt. 5	Starting Inventory
TR76	0.44	P	Y	Y	Y	Y
TR77	0.25	P	Y	Y	Y	Y
TR78	0.02	P	Y	Y	Y	Y
TR79	0.05	R	Y	Y	Y	Y
TR80	0.05	R	Y	Y	Y	Y
TR81	0.02	R	Y	Y	Y	Y
TR82	0.20	P	Y	Y	Y	Y
TR82	0.04	R	Y	Y	Y	Y
TR83	0.06	R	Y	Y	Y	Y
TR84	0.07	R	Y	Y	Y	Y
TR85	0.15	P	Y	Y	Y	Y
TR87	0.04	P	Y	Y	Y	Y
TR88	0.09	R	Y	Y	Y	Y
TR89	0.49	P	Y	Y	Y	Y
TR89	0.20	P	Y	Y	Y	Y
TR89	0.17	R	Y	Y	Y	Y
TR90	0.20	P	Y	Y	Y	Y
TR93	0.10	P	Y	Y	Y	Y
TR94	0.10	P	Y	Y	Y	Y
TR95	0.22	R	Y	Y	Y	Y
TR96	1.12	P	Y	Y	Y	Y
TR96	0.01	P	Y	Y	Y	Y
TR97	0.03	P	Y	Y	Y	Y
TR97	0.34	R	Y	Y	Y	Y
TR98	0.01	P	Y	Y	Y	Y
TR98	0.06	R	Y	Y	Y	Y
TR99	0.04	P	Y	Y	Y	Y

Appendix D: Soils and Hydrology Field Review

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180102040101	Middle Fletcher Creek	39222	BG5	0.20		X
			BG19	0.69		X
			BG10	0.05		X
			SS05	0.07		X
			BG41	0.09		X
Subtotals				1.10	2	
180102040102	Upper Fletcher Creek	11239	No	Routes	Field	Checked
Subtotals				0.00	0	
180102040103	Mosquito Creek-Bayley Tank	24713	SS133	0.03		X
			BA16	1.26		X
			ML73	0.23		X
			ML60	0.16		X
			BG35	0.32		X
			ML71	0.06		X
			SS135	1.19		X
			SS102	0.03		X
Subtotals				3.27	5.95	
180102040104	Little Willow Creek	14138	ML84	0.10		X
Subtotals				0.10	0.18	

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180102040105	Lower Fletcher Creek	33027	BA278	0.05		X
			BA273	0.61		X
			ML88	0.49		X
			ML119	0.34		X
			ML120	0.52		X
			BA267	0.06		X
			SS135	0.19		X
			DJ15	0.22		X
			BA37	0.71		X
			SS420	0.05		X
			SS533	0.83		X
Subtotals				4.07	7.41	
180102040106	Fairchild Swamp	18701	BA193	0.16		X
			BA199	0.51		X
			BA223	0.56		X
			BA214	0.10		X
			BA191	0.11		X
Subtotals				1.45	2.64	
180102040107	Boles Meadow	26437	SS420	0.09		X
			BA212	0.80		X
Subtotals				0.89	1.62	
180102040108	Pothole Valley	14310	SS192	0.25		X

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
			SS197	0.28		X
			BA54	0.06		X
			BA51	0.08		X
Subtotals				0.67	1.22	
180102040109	Lower Boles Creek	18619	BA48	0.09		X
			SS225	0.28		X
Subtotals				0.37	0.67	
180102040110	Steele Swamp	16340	SS140	0.41		X
Subtotals				0.41	0.75	
180102040201	Above Weed Valley Reservoir	33816	ML43	0.12		X
			ML37	0.28		X
			ML40	0.32		X
			ML58	0.04		X
Subtotals				0.77	1.4	
180102040202	Wild Horse Creek	17140	No	Routes	Field	Checked
Subtotals				0.00	0	
180102040203	Rock Creek	14192				
Subtotals				0.00	0	
180102040204	Lower North Fork Willow Creek	25207	ML251	0.43		X

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
			ML250	1.27		X
Subtotals				1.71	3.11	
180102040301	Mowitz Creek	56660	ML260	2.07		X
Subtotals				2.07	3.77	
180102040302	Clear Lake Inflow South	28789	No	Routes	Field	Checked
Subtotals				0.00	0	
180102040401	Rock Creek	31720	No	Routes	Field	Checked
Subtotals				0.00	0	
180102040403	East Branch Lost River	17249	No	Routes	Field	Checked
Subtotals				0.00	0	
180102040404	Upper Lost River Frontal	16717	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041002	South Tule Lake Sump	85568	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041101	Mud Lake	9119	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041102	Spaulding Butte	30032	No	Routes	Field	Checked
Subtotals				0.00	0	

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180102041103	Lone Pine Butte	23296	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041104	Rimrock Lake	14873	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041105	Knobcone Butte	24308	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041106	Double Head Mountain	35306	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041107	Tionesta	77495	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041303	Willow Creek	38897	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041401	Sheep Camp	31128	No	Routes	Field	Checked
Subtotals				0.00	0	
180102041402	Laird Landing	21729	No	Routes	Field	Checked
Subtotals				0.00	0	
180200010303	Cottonwood Creek	25037	SS557	0.11		X

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
			SS563	0.06		X
			SS558	0.08		X
			SS600	0.05		X
			SS551	0.10		X
			SS556	0.43		X
			SS573	0.06		X
			SS568	0.41		X
			SS567	0.08		X
			SS564	0.10		X
			SS583	0.17		X
			SS579	0.08		X
			SS659	0.01		X
			SS607	0.04		X
			SS606	0.12		X
			SS605	0.03		X
			SS602	0.04		X
			SS591	0.15		X
			SS593	0.14		X
			SS601	0.14		X
			SS589	0.05		X
Subtotals				2.43	4.42	
180200010304	Willow Creek	23817	BA347	0.10		X
			BA365	0.74		X
180200010304				0.84	1.53	

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180200010305	Lassen Creek	15654	BA358	0.09		X
			BA368	0.41		X
			SS725	0.14		X
			SS711	0.45		X
			SS706	0.23		X
			SS736	0.77		X
			SS715	0.49		X
			BA370	0.09		X
			BA389	0.17		X
			SS739	0.46		X
			BA385	0.35		X
			BA386	0.41		X
			BA394	0.13		X
			BA395	0.49		X
			BA397	0.52		X
			BA411	0.05		X
			BA410	0.04		X
			BA408	0.45		X
			BA412	0.27		X
Subtotals				6.01	10.94	
180200010306	Ross Creek	12756	SS691	0.10		X
			SS767	0.19		X
			SS788	0.75		X

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
			SS790	0.13		X
Subtotals				1.16	2.11	
180200010307	Davis Creek	21934	BA444	0.45		X
			BA413	0.08		X
			BA438	0.26		X
			BA445	0.73		X
			BA442	0.08		X
			BA443	0.06		X
			BA446	0.14		X
			BA447	0.70		X
			BA448	0.19		X
			SS844	0.11		X
Subtotals				2.79	5.08	
180200010308	South Of Goose Lake	16688	No	Routes	Field	Checked
Subtotals				0.00	0	
180200010402	Dry Creek	28886	No	Routes	Field	Checked
Subtotals				0.00	0	
180200010403	Corral Creek	16487	No	Routes	Field	Checked
Subtotals				0.00	0	
180200010404	Lower West Shore Goose Lake	37206	No	Routes	Field	Checked
Subtotals				0.00	0	

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180200020101	East Creek	29458	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020201	Moon Lake	46904	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020202	Parsnip Creek	38600	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020207	Crooks Canyon	25109	ML4030	0.38		X
			ML4018	0.35		X
Subtotals				0.73	1.33	
180200020303	Fitzhugh Creek	24606	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020401	Headwaters North Fork Pit River	26218	BA465A	0.21		X
			SS854	0.13		X
			SS847	0.38		X
			BA470	0.09		X
			BA472	0.07		X
Subtotals				0.88	1.6	
180200020402	Joseph Creek	12321	No	Routes	Field	Checked
Subtotals				0.00	0	

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180200020404	Upper North Fork Pit River	17355	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020405	North Fork Parker Creek	19167	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020408	Lower North Fork Pit River	14755	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020501	Logan Slough	37400	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020502	Ingall Swamp	19565	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020503	Big Sage Reservoir	25585	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020504	Baker And Thomas Reservoirs	25280	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020505	Lower Rattlesnake Creek	16275	No	Routes	Field	Checked
			ML166	0.06		
Subtotals				0.06	0.11	

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180200020601	Upper Warm Springs Valley	26075	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020602	Lower Warm Springs Valley	17963	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020703	Lower Canyon Creek	15007	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020801	Antelope Reservoir	21850	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020802	Dobe Swale	14554	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020803	Lower Clover Swale Creek	21269	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020901	Blacks Canyon	23132	No	Routes	Field	Checked
180200020901 Total				0.00	0	
180200020903	Canby-Pit River	38873	No	Routes	Field	Checked
Subtotals				0.00	0	
180200020904	Stone Coal Creek	29095	No	Routes	Field	Checked
Subtotals				0.00	0	

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
180200021001	Washington Creek	21999	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021002	Upper Turner Creek	15941	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021003	Hulbert-Turner Creek	11129	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021101	Kephart	56960	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021102	Old Camp One	36091	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021103	Frog Waterhole	42761	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021104	Service Gulch	18142	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021107	Egg Lake	20200	No	Routes	Field	Checked
Subtotals				0.00	0	
180200021204	Cottonwood Creek	16350	No	Routes	Field	Checked

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
Subtotals				0.00	0	
180200030301	Sohonchin Spring	13229	No	Routes	Field	Checked
Subtotals				0.00	0	
180200030304	Whitehorse Flat Reservoir	51923	No	Routes	Field	Checked
Subtotals				0.00	0	
180800010102	Bidwell Creek	19502	SS573	0.05		X
			SS583	0.68		X
			SS582	0.03		X
			SS581	0.03		X
			SS580	0.08		X
			SS579	0.24		X
			SS608	0.07		X
			SS656	0.02		X
			SS584	0.06		X
			SS659	0.06		X
			SS613	0.26		X
			SS662	0.09		X
			SS622	0.07		X
Subtotals				1.75	3.2	
180800010103	Upper West Shore Upper Alkali Lake	28856	BA408	0.15		X
			BA407	0.62		X

HUC 6	HUC Name	HUC Acres	Rte. No	Miles	Acres	Field Checked
			BA406	0.53		X
			BA445	0.27		X
Subtotals				1.58	2.88	
180800010104	Lower West Shore Upper Alkali Lake	18149	BA456	0.21		X
			BA454	0.48		X
			BA467	0.13		X
			BA470	0.20		X
			BA472	0.04		X
			BA473	0.15		X
			BA475	0.53		X
			BA479	0.38		X
			BA453	0.18		X
Subtotals				2.30	4.19	
180800010201	Northwest Shore Middle Alkali Lake	33371	No	Routes	Field	Checked
Subtotals				0.00	0	
180800010202	West Shore Middle Alkali Lake	15403	No	Routes	Field	Checked
Subtotals				0.00	0	
180800010303	Bare Creek	33440	No	Routes	Field	Checked
Subtotals				0.00	0	

Appendix E: Maintenance Levels (ML) for Roads

ML 5

- Highest traffic volume and speeds
- Typically connect to state and county roads
- Culverts for drainage
- Usually arterial and collector
- May include some developed recreation roads
- Usually paved or chip-sealed

ML 4

- Subject to requirements of Highway Safety Act
- Moderate traffic volume and speeds
- May connect to county roads
- Culverts provide drainage
- Usually a collector
- May include some developed recreation roads

ML 3

- Roads have low to moderate traffic volumes
- Subject to Highway Safety Act
- Typically connect to arterial and collectors roads
- Combination of dips and culverts provide drainage
- May include some dispersed recreation roads
- Potholing or washboarding may occur

ML2

- Low traffic volume and low speed
- Typically local roads
- Connect Collectors or other local roads
- Dips are the preferred drainage treatment
- Not subject to Highway Safety Act
- Surface smoothness is not a consideration
- Not suitable for passenger cars

ML1

- Vehicular traffic is eliminated, including administrative traffic
- Physically blocked or entrance is disguised
- Not subject to Highway Safety Act
- Maintenance done only to minimize resource impacts
- No Maintenance other than a condition survey for resource damage

Appendix F: Vernal Pool Field Inventory

Rte No	Total Length of Route	Length of route within 300ft buffer	Name	Acres	Orcuttia Present? (Y/N); Threatened Species	Comments
BA225	0.19	0.06	Antelope Plains	3.45	N	
ML66	0.07	0.03	Baseball Res.	0.38	N	
BA209	0.57	0.09	Boles Mdw.	1.53	N	
SS226	0.36	0.13	Boles Mdw.	1.77	N	
SS227	0.10	0.04	Boles Mdw.	1.25	N	
SS228	0.23	0.10	Boles Mdw.	3.61	N	
SS229	0.40	0.10	Boles Mdw.	5.33	N	
SS242	0.69	0.31	Deadhorse Flat Res.	7.23	N	
ML78	0.10	0.02	Deer Hill Res.	0.20	N	
ML79	0.16	0.08	Deer Hill Res.	0.79	N	
SS969	0.15	0.05	Dry Lake	0.17	N	
SS17	0.05	0.05	Dry Valley Res.	2.54	N	
ML488	0.27	0.27	Duncan Res.	8.03	Y	
BA257	0.33	0.06	Enquist Res.	1.15	N	
ML537	2.32	0.14	Essex Res.	0.83	N	
ML543	2.02	0.67	Essex Res.	19.67	N	
ML556	3.00	0.99	Essex Res.	25.99	N	
BG19	0.85	0.01	Everly Res.	0.03	N	
BA201	2.21	0.95	Fairchild Swamp	22.88	N	
BA203	0.95	0.71	Fairchild Swamp	12.71	N	
SS535A	4.87	0.12	Fairchild Swamp	1.64	N	
SS59	0.26	0.07	Griener Res.	1.51	N	
ML372	0.18	0.04	Hackamore Res.	1.85	Y	
ML374	0.11	0.04	Hackamore Res.	1.37	Y	
ML375	0.20	0.07	Hackamore Res.	1.26	Y	
BA71	0.97	0.14	Lone Pine Lake	1.23	N	

Rte No	Total Length of Route	Length of route within 300ft buffer	Name	Acres	Orcuttia Present? (Y/N); Threatened Species	Comments
ML584	0.10	0.08	Lower Cummings Res.	1.97	N	
SS352	0.42	0.08	NoName136	0.31	N	<i>Pogogyne floribunda</i> present (Watchlist species)
SS353	0.04	0.01	NoName136	0.16	N	<i>Pogogyne floribunda</i> present (Watchlist species)
SS354	0.22	0.07	NoName136	0.76	N	<i>Pogogyne floribunda</i> present (Watchlist species)
BA249	1.15	0.14	NoName14	3.76	N	
SS330	0.04	0.04	NoName141	1.65	Y	
SS274	0.18	0.06	NoName145	1.46	N	
SS309	0.06	0.05	NoName157	0.56	N	
ML348	0.09	0.08	NoName167	1.81	N	OHV tracks going all over through the vernal pool.
BA211	0.27	0.03	NoName18	0.03	N	
SS350	1.00	0.04	NoName212	1.04	N	
SS351	1.00	0.18	NoName212	1.28	N	
ML434	0.49	0.02	NoName214	0.18	N	
ML436	0.43	0.03	NoName214	0.08	N	
ML520	0.11	0.11	NoName216	1.68	N	
ML461	0.48	0.13	NoName217	1.93	Y	
ML432	0.21	0.15	NoName219	2.48	N	
BA186	0.09	0.06	NoName224	1.69	N	
BA185	0.13	0.02	NoName225	0.58	N	
ML589	0.07	0.05	NoName247	1.98	N	
ML9	1.29	0.11	NoName253	1.49	N	<i>Mimulus evanescens</i> present (Sensitive species)

Rte No	Total Length of Route	Length of route within 300ft buffer	Name	Acres	Orcuttia Present? (Y/N); Threatened Species	Comments
SS432	0.49	0.26	NoName256	1.59	N	
SS436	0.63	0.31	NoName256	14.39	N	
SS437	0.83	0.42	NoName256	17.93	N	
BA2289	0.28	0.14	NoName264	4.02	Y	
BA2290	0.09	0.07	NoName264	0.97	Y	
BA258	0.21	0.21	NoName276	8.08	N	
BA252	0.16	0.11	NoName278	0.95	N	
ML469	0.06	0.05	NoName312	2.43	N	<i>Pogogyne floribunda</i> present (Watchlist species)
ML477	0.50	0.06	NoName312	0.62	N	<i>Pogogyne floribunda</i> present (Watchlist species)
ML481	0.08	0.06	NoName312	0.03	N	<i>Pogogyne floribunda</i> present (Watchlist species)
ML84	0.20	0.08	NoName341	1.67	N	
ML233	0.28	0.28	NoName365	6.16	N	
SS236	0.14	0.07	NoName37	1.68	N	<i>Pogogyne floribunda</i> present (Watchlist species); existing system road goes through <i>Pogogyne floribunda</i> occurrence.
SS244	0.48	0.24	NoName37	9.36	N	<i>Pogogyne floribunda</i> present (Watchlist species); existing system road goes through <i>Pogogyne floribunda</i> occurrence.
ML250	5.19	0.71	NoName373	9.74	N	

Rte No	Total Length of Route	Length of route within 300ft buffer	Name	Acres	Orcuttia Present? (Y/N); Threatened Species	Comments
ML260	2.07	0.29	NoName377	3.67	N	
SS201	0.74	0.04	NoName394	0.24	N	
SS202	0.58	0.09	NoName394	0.49	N	
SS203	0.71	0.01	NoName394	0.15	N	
SS71	0.13	0.08	NoName4	2.18	N	
BA540	0.62	0.04	NoName472	0.21	N	
BA541	0.17	0.01	NoName472	0.03	N	
ML307	0.49	0.01	NoName483	0.18	N	
ML299	2.27	0.12	NoName487	0.29	N	
ML293	1.94	0.10	NoName488	0.33	N	
SS502	0.56	0.14	NoName9	0.45	N	
ML17	0.09	0.01	NoName99	0.00	N	
ML591	0.42	0.20	Porcupine Valley	5.21	N	<i>Pogogyne floribunda</i> present (Watchlist species)
SS420	0.14	0.02	Res. G	0.62	N	
SS421	0.24	0.24	Res. G	5.05	N	
ML283	1.07	0.12	Rimrock Lake	2.18	N	
BA296	0.25	0.22	Six Shooter Tank	6.15	N	
ML85	0.34	0.24	South Mtn. Res	4.74	N	
ML180	0.11	0.05	Upper Cummings Res.	2.05	N	
BA164	0.04	0.04	Widow Valley	3.23	N	
BA173	0.08	0.05	Williams Res.	1.27	Y	
SS48	0.72	0.01	Wood Flat Res.	0.02	N	
	52.87	12.04		273.60		

Appendix G: Water Quality Management Plan

Introduction

The purpose of the Water Quality Management Plan is to meet state water quality objectives as identified by the State of California Water Quality Control Board, and to protect and maintain the identified beneficial uses of water flowing off National Forest System (NFS) lands from the occurrence of an adverse or negative direct and indirect effect to water quality. The downstream beneficial use of the water is identified by the appropriate regional control water boards (Central Valley, Lahontan, and North Coast)

Water Quality Management Plan

The primary method of meeting the above-stated purposes of the water management plan is by maintaining the National Forest Transportation System (NFTS) in a manner where the roadways are not hydrologically connected to the stream network, or to insure the roadways are not subject to excessive levels of road runoff or road erosion. The following water-quality guidelines are based on applications of BMPs, and are incorporated into the designation of proposed routes as additions to the NFTS Plan. This can be accomplished in the following manner:

- Disconnect the hydrologic connectivity of roads to the stream and lake network across the Forest.
- Maintain the proposed routes with adequate water diversion structures (e.g., cross drains, water bars, or rolling dips) to prevent the gulling of the routes. Use of natural gradient slope breaks and route relocation, promoting travel along the contours, and minimizing hill climbs are also acceptable measures to achieve the desired goal.
- Over the next 10 years, complete monitoring of the routes dedicated to OHV use and longer than 0.5 miles (this does not include mixed-use routes) according to a developed protocol. The recommended protocol is the Region 5 OHV Trail-Monitoring Protocol (the red-yellow-green protocol developed by Brent Roath, Region 5 Soil Scientist). It is assumed that approximately 20% of the dedicated use OHV routes added to NFTS would be monitored per year.
- Annually, routes added to the NFTS would be monitored under the R5 BMPEP as part of the Forest-wide monitoring program. These routes would be picked at random and can be monitored using the following BMPEP forms:
 - BMPEP form E08: Road Surface, Drainage, and Slope Protection; and BMPEP form #09: Stream Crossings
 - BMPEP Form E20: Management of Roads During Wet Periods

Within Region 5, past monitoring completed as part of the Best Management Practices Evaluation Program (BMPEP), has validated the effectiveness of BMPs in mitigating the effects of Forest management activities on water quality. No evidence has been observed during monitoring completed in 2000-2008 of multiple Forest management activities (i.e., timber sales, road maintenance, road reconstruction and fuels reduction projects) that these projects were adding additional levels of sediment into the stream network, above the natural erosion rate when the BMP is implemented according to plan description or guidance.

Description of Best Management Practices

The Forest Service water quality maintenance and improvement measures called Best Management Practices (BMPs) were developed in compliance with Section 208 of the Federal Clean Water Act, PL92-500, as amended. Following a lengthy development and public review process from 1977 to 1979, the BMPs developed by the Forest Service were certified by the State of California Water Quality Control Board and the US Environmental Protection Agency. These practices are the measures both the state and federal water quality regulatory agencies expect the Forest Service to implement to meet federal and state water quality objectives, and to maintain and improve water quality.

In 1997, the BMPs were reviewed and evaluated by a cadre of water resources specialists in the Forest Service. The result of this effort was to update and improve the BMP program in Region 5. In 1999 and 2000, the updated version of the BMPs, as revised by agency water quality and aquatics specialists, were reviewed and approved by the State Water Quality Control Board for implementation.

Based on monitoring of similar type of activities on the Modoc National Forest, BMPs have been proven to be effective measures in protecting water quality, based on the identified beneficial uses. BMPs have been shown to be effective measures in meeting state and federal water quality objectives as identified by the Central Valley Basin Water Quality Control Plan, and will aid in providing protection of hydrologic function of the watersheds and stability of stream courses.

Table 1. Description of Best Management Practices

BMP #	Name	Objective
1.20	Erosion Control Structure Maintenance	To ensure that constructed erosion control structures are stabilized and working
2.7	Control of Road Drainage	To minimize road runoff and related sediment production from road surfaces
2.22	Maintenance of Roads	To maintain roads in a manner which provides for water quality protecting by minimizing rutting, failures, side casting, and blockage of drainage facilities, all of which can cause erosion, sedimentation, and deteriorating watershed conditions
2.23	Road Surface Treatment to Prevent Loss of Materials	To minimize the erosion of road surface materials and consequently reduce the likelihood of sediment production from those areas
2.24	Traffic Control During Wet Periods	To reduce road surface disturbance, rutting of roads, and minimize the sediment washing from the disturbed roads
2.26	Obliteration or Decommissioning of Roads	To reduce sediment generated from temporary or unclassified and system roads by obliterating or decommissioning them at the completion of their intended use

4.7	Water Quality Monitoring of Off-Highway Vehicle (OHV) Use according to a Developed Plan.	To provide a systematic process to determine when and to what extent OHV use would cause, or is causing, adverse effects on water quality
7.7	Management by Closure to Use	To exclude activities that could result in damages to either resources or improvements, resulting in degraded water quality

Conclusion

By implementing the above-described water quality standards, it is unlikely that the proposed activities would result in an adverse or negative direct or indirect effect to water quality or its identified downstream beneficial uses.

Appendix H: Past, Present, and Reasonably Foreseeable Actions

The following actions were considered in cumulative effects analysis for each resource: fuel treatments and fire, range management, dam construction and maintenance, recreation, timber management and vegetation treatment, reforestation, road management, special uses, and noxious weed treatment. Below is a description of these actions. Reasonably foreseeable and present actions on National Forest System lands considered in cumulative effects analysis are shown in Table XX, which was developed by reviewing the July – September 2008 Schedule of Proposed Actions.

Many actions have some potential for increasing road density either temporarily or permanently: timber management (site preparation, planting, thinning, harvesting), prescribed fire, juniper removal, aspen enhancement, wetlands creation and maintenance, and recreational site development and maintenance.

Fuel Treatments and Fire

Approximately 10,000 acres are proposed for fuel treatments per year across the forest: 4,000 acres of prescribed burns and 6,000 acres of mechanical and physical fuel treatment. Present and reasonably foreseeable fuel projects are listed in Table XX. The fuels program does not build roads to carry out treatment. Cross-country travel may be required either by truck or OHV.

Wildfire and associated suppression and rehabilitation measures sometimes require the creation of temporary roads and fuel breaks that in the past have been used by the public and turned into unauthorized routes on the forest.

Range Management

Grazing allotments occur on most of the Modoc National Forest. Presently there are 76 active allotments, 12 vacant allotments, and 3 allotments that have been closed to grazing. There are approximately 122,500 animal unit months (AUMs) of grazing permitted on the forest. Actual use differs annually from permitted use depending on economics, weather conditions, market conditions, etc. During 2007, actual use was about 95,700 AUMs. There is also one wild-horse territory with an estimated population of 450 head.

Individual range-management projects include installing cattle guards, fencing, developing water sources, and thinning juniper. Projects such as fencing and juniper thinning, and administering permits (e.g., scheduling on- and off-dates) have restored riparian areas. Range management generally does not include the creation of new roads. Present and reasonably foreseeable range projects are included in Table XX.

Dam Construction and Maintenance

There are 152 dams and water impoundments on the forest, which are used for livestock ponds, irrigation, recreation, and wildlife habitat. Thirty-four of these are considered as dams by the State of California. Associated with irrigation dams are canals used to transport water. Many of these structures are maintained by range permittees.

Recreation

On the Modoc National Forest, there are 34 developed campgrounds and several other developed recreation sites, including boat launch facilities, trail heads, etc., and numerous dispersed recreation sites (primarily dispersed campgrounds). Present recreation projects are shown in Table XX. There is not any road construction shown in the SOPA for the proposed projects.

Travel management and the restriction of cross-country travel will impact recreation users by eliminating a certain type of recreation opportunity. However, many of the recreation opportunities will still be available.

There is a variety of recreation-associated activities, including firewood gathering, mineral gathering, hiking, camping, and horse use.

Timber Harvest and Vegetation Treatments

The forest estimates a timber harvest of approximately 15-20 MMBF (million board-feet) annually for the next 5 years. About half of that will be the board-foot equivalent in tons of chips for biomass power generation, and half in sawtimber. Past vegetation management actions are tracked in the FACTS (Forest Activity and Tracking System) database. This database contains information about vegetation management activities back to 1954. Since 1954, there have been over 169,939 acres of vegetation treatments on the forest. On average, 2,500 acres are harvested annually for saw logs, with an additional 3,000 acres for wood fiber. Harvest prescriptions vary from clear cutting to understory thinning; however, clear cutting has been greatly reduced in over the past ten years.

In the past, road construction was supported by timber harvest. The existing forest transportation system was developed, in part, through the need to provide timber to the public after World War II. This trend continued until the late '70s or early '80s. In the future, the forest plans to evaluate each project on a site-specific basis for existing roads that can be used, and for the possible decommissioning of roads that are no longer necessary. There may still be a need for temporary road construction and for the reconstruction of existing roads to allow for use of new equipment and for adjusting to specific logging systems required for steeper ground.

The Sage Steppe Ecosystem Restoration Strategy, a reasonably foreseeable action, is a programmatic analysis for treating 1,254,200 acres of juniper on the Modoc National Forest, BLM Alturas Field Office lands, and surrounding federal lands that lie within the sage steppe ecosystem. Treatment would be through mechanical treatments, hand treatments, or prescribed fire. This project consists of restoring sagebrush communities that have been invaded by juniper over the last 100 to 150 years. There will be no new permanent roads built to support this project.

Reforestation

Reforestation will occur as needed after wildfires or timber management. Past activities associated with replanting trees included the use of herbicides and mechanical and physical site preparation to reduce the competition for soil nutrients and sunlight from grasses and shrubs (release). Existing roads are used for reforestation projects.

Road and Right-of-Way Management

A system of federal, state, and county highways provides access to the Modoc National Forest. Forest system roads are extensions of these highways, and provide access to and mobility within the forest. Roads allow protection, management, use, and development of forest resources on which local communities depend. The forest road system consists of approximately 4,996 miles.

Integrated with the system are approximately 416 miles of private roads. There are also approximately 491 miles of non-system roads on the forest.

State and County Easements

Sixty miles of state highway cross portions of the Modoc National Forest. The highway right-of-way is managed according to the terms of the specific easement. Vegetation management within the right-of-way is done according to the laws and regulations of the State of California.

Modoc County maintains about 1,040 miles of roadway through the Modoc National Forest. These roads are maintained by agreement with the forest, or as easements. The rights-of-way are maintained according to county standard.

Railroads

Two railroads cross portions of the Modoc National Forest. Railroad rights-of way are embedded in the forest and are owned by the railroad.

Special Uses

Approximately 325,000 acres of privately owned lands lie within the forest boundary (2,000 state acres, 1,000 tribal acres, and 323,000 acres of land owned by companies and individuals).

The Modoc National Forest has a caseload of about 160 special-use authorizations annually for apiaries, ditches, dams, water sources, roads, recreational residences, utility transmission and communication sites, outfitters and guides, a ski hill, and miscellaneous permits. Special uses on the forest encompass over 125,000 acres and result in a return of over \$70,000 in fees to the U.S. Treasury. Special-use permits authorize facilities and services necessary for public health, welfare, safety and security, such as communications sites for local 911 radio repeaters to support local law enforcement and emergency response entities. Others provide basic needs such as power and telephone lines to private homeowners.

All new authorizations are issued with specific terms and conditions; road construction is generally not part of a new authorization.

The Modoc National Forest administers slightly over 3,000 acres authorized for the purpose of transmitting or distributing power in the form of electricity and natural gas. In many cases these acres overlap because power and pipeline facilities are located within designated corridors.

Currently there is analysis for a proposal for vegetation maintenance for the U.S. Department of Energy's Western Area Power Authority, Sierra Nevada Region (right-of-way vegetation maintenance for high-voltage power lines), including two 500-kV transmission lines through the Doublehead Ranger District. The proposal includes the maintenance of vegetation within the right-of-way with manual methods (cutting, girdling, topping and trimming), mechanical methods (mowing), and use of herbicides. The proposal specifies maintaining 30 feet of clearance around each transmission tower or structure.

The Modoc National Forest administers 1,460 acres rented to public and private agencies for communications purposes. Over 900 acres of that is authorized to the Department of Defense for a radar installation. The remaining acres are within nine designated communications sites or are parallel to transportation, power line, or pipeline facilities. These authorizations require prior approval for removal of vegetation.

Past Road Construction and Decommissioning

Over the past ten years there have been 9.5 miles of new road constructed and 76.8 miles decommissioned. See Table XX below.

Table B-1. Road Construction and Decommissioning from 1998 to 2007

Fiscal Year	Decommissioning (miles)	Construction & Reconstruction (miles)
1998	13.5	0.0
1999	20.0	0.0
2000	9.4	0.0
2001	15.0	0.0
2002	14.9	0.0
2003	4.0	0.3
2004	0.0	9.1
2005	0.0	0.1
2006	0.0	0.0
2007	0.0	0.0

Other Federal Lands in California

National Forest Lands

The Modoc National Forest abuts the Klamath and Shasta-Trinity national forests on the western flank. The Lassen National Forest administers some of these lands, and also has land that lies roughly 2 to 4 miles south of the Big Valley District.

Klamath National Forest-Goosenest District: There are approximately 1,005 miles of NFTS (National Forest Transportation System) roads on the district and 309 miles of unauthorized routes.

Lassen National Forest: The Lassen National Forest is doing its travel management process. It has completed a notice of intent; the proposed action includes adding 37 miles of unauthorized routes, 12 miles of additional mixed use routes, and 26 acres for open use.

Shasta-Trinity National Forest: The Shasta Trinity is currently in the travel management process and intends to publish its notice of intent in July, 2008. The forest has 6,754 miles of NFTS roads and 175 miles of NFTS trails. Their proposed action will designate 33 miles of roads and 11 miles of trails. There will be no open-use areas, but there will be a change in the designation of “below high-water areas.”

Federal Lands under Other Administration

Klamath Basin National Wildlife Refuge: The refuge has an existing road system and does not propose to create any new roads for public use in the near future.

Modoc National Wildlife Refuge: The refuge has an existing road system and does not propose to create any new roads for public use in the near future.

BLM-Alturas and Surprise Valley Offices: Both the Alturas and Surprise Valley offices recently completed resource management plans (RMPs) and signed records of decision in April 2008. Both offices included a section on travel management. In both areas, OHV travel will be “limited to existing roads and trails” year-round, except where further restrictions are specifically assigned (i.e., “open”, “closed,” “seasonally closed”, or “limited to designated routes”).

The Alturas Field Office manages approximately 503,045 acres in northeastern California. The geographic area consists of BLM-administered lands within the counties of Modoc, Lassen, Shasta, and Siskiyou, California. There are 902 miles of system roads in the Alturas District and

OHV travel would be ‘Limited to Existing Roads and Trails’ year-round, except where further restrictions are specifically assigned off-highway vehicle. Eighty acres are designated open, 498,140 acres are designated as ‘limited to designated routes’ and 4,825 acres are designated closed. The RMP also proposes to construct approximately 66 miles of new motorized and non-motorized trails, including a 40-mile stretch of the abandoned Modoc Line rail bed.

The Surprise Valley Field Office manages approximately 1,220,644 acres in northeastern California and northwestern Nevada. The geographic area consists of BLM-administered lands within the counties of Modoc and Lassen (California) and Humboldt and Washoe (Nevada). The Surprise Valley office will manage 1,809 miles of routes as the designated route network for access to BLM-administered lands, and close 92 miles of routes within WSAs (wilderness study areas). OHV use would be designated as 0 acres open, 1,208,670 acres “limited to designated routes”, and 11,994 acres closed. An OHV special recreation management area would be developed if the need arises. Commercial, competitive, and other organized OHV activities would be managed with special recreation permits. Road maintenance would continue at a rate of 30 to 75 miles per year.

Private Land

There are currently 416 miles of non Forest Service roads within the Forest Service boundary. This includes roads managed by the county across FS lands and private roads on private land that are within the Forest Service boundary. Because private landowners do not typically publish their long-term management plans, actions on private land are difficult to analyze. Some new roads could be built on private lands to support restoration projects, however new roads on private lands would likely not be open to the public. (Sage Steppe EIS) Cross country travel will most likely continue across private land by ranchers and others in their day to day business and for recreation. Timber production will continue on private land and road construction associated with that will likely occur. These roads will probably be temporary and will support timber operations. Firewood gathering will continue to occur on private land but most likely will use existing roads and travel cross country will be for short distances only. There are two existing utility corridors that cross private land and there are no future plans for additional corridors in the future.

Table B-2. Present and Reasonably Foreseeable Actions¹

Activity	NEPA Project Name	District
Fuels Management	Rush2 Vegetation Treatment	BV
Fuels & Vegetation Management	Devil's Garden Plantation Management	DG
Fuels & Vegetation Management	Cedar Pass Forest Health	WM
Fuels & Vegetation Management	Lassen Creek Watershed Forest Health and Restoration Project	WM
Fuels & Vegetation Management	North Warner Roadside Fuel Break Management	WM
Fuels & Vegetation Management	Fletcher Fire Salvage	DG
Grazing Management	Crank Springs, Gerig, Kramer, Shawville and Happy Camp Allotments	BV
Grazing Management	Pit River Fence	BV
Grazing Management	Riparian and Upland Enhancement at Pit river Allotments Adjacent to Shaw Ranch	BV
Grazing Management	Spring Hill Allotment Stockpond	BV
Grazing Management	Triangle Allotment Grazing Management Project	DG
Grazing Management	Crummes Allotment EA	DH
Grazing Management	Tucker Grazing Allotment EA	DH

Minerals and Geology	Geothermal Leasing - Lake City KGRA	WM
Road Management	BIA Road Improvement Lauer Reservoir Access	DG
Road Management	Medicine Lake Highlands Road Closure	DH
Special Use and Recreation	Warner Mountain Relay Event	WM
Special Uses	Ewind Testing Project for Existing Sites	BV, DH
Special Uses	Ewind Testing Project for Potential Sites	BV
Special Uses	Fandango Pass Wind Energy Project	WM
Vegetation Treatment	Noxious Weed Treatment	Forest-wide
Vegetation Treatment	Sage Steppe Ecosystem Restoration Strategy	Forest-wide
Vegetation Treatment	Ash Vegetation Treatment	BV
Vegetation Treatment	Black Mountain Plantation Thinning and Fuels Treatment	DH
Vegetation Treatment	Clear Lake Quaking Aspen Restoration Project	DH
Vegetation Treatment	Highlands Roadside Safety Improvement Project	DH
Wildlife Improvement	Devils Garden Guzzlers	DG

¹ Projects listed on the 07/01/2008 to 09/30/2008 Schedule of Proposed Actions for the Modoc National Forest

Appendix I: Environmental Consequences of Unauthorized Routes to Archaeological Sites

This appendix analyzes the environmental consequences of the identified unauthorized, user-created routes have, or are believed to have, on the associated archaeological sites.

The nature of the effect varies greatly, depending upon how each site is associated with a route. For example, a site may be bisected by a route, it may be adjacent to a route (within 30 meters of either side of the route), it may be adjacent or bisected and have a dispersed recreation camp site (hunter’s camp) associated with it, it may have past wood-cutting activity present, etc. Table I-1 below shows the affected sites within the Proposed Action, and the perceived effects. A “direct effect” means that the route actually crosses the site or some associated activity, e.g., a hunter’s camp is directly on the site. An “indirect effect” means that the site is adjacent to the route and that there may be signs that users of the road are somehow affecting the site (“pot hunting” or looting). “None” means that the site is adjacent to the route, but there is no evidence that it has been affected. Cumulative effects are the anticipated effects that would occur through time to sites that continue to be accessible by these routes.

For the “Types of Effect” column in the table below we have used the following codes:

N = None	D = Direct	I = Indirect	C = Cumulative

For the “Nature of Effect” column we have used the following codes:

R = Rutting (visible traces through the site; some displacement or minor erosion)

C = Camping (a dispersed recreation and hunting camp physically on the site; fire ring, modern debris, etc.)

L = Looting (visible “pothunters’ piles” of flakes or other signs of artifact collection or removal)

WC = Woodcutting (evidence of firewood cutting—slash piles, stumps, etc.)

B = Bladed and engineered road (constructed as an access and maintenance road for a power transmission line, gas transmission line, OTH-B Radar Installation, or other permitted facility.)

For the most part, no significant “erosion” was noted on any of the sites visited; this may be due to the relatively flat nature of most of the forest. The “rutting” may range from very minor visible “two-track traces”, to very deep ruts caused by utilizing the road in mudding conditions creating ruts up to 10 to 20 centimeters in depth. Generally, the overall use of these routes by off-highway vehicles (OHVs) is very light, with few roads appearing to get any major use. Also of note are the routes to be added that are actually access or maintenance roads for power lines (e.g., California-Oregon Transmission Powerline, Bonneville Power Administration Malin-Warner, Western Area Power Authority), natural gas transmission lines (e.g., Pacific Gas Transmission Company, Pacific Gas & Electric Company, and Tuscarora Gas Transmission Company), and the Over-The-Horizon Backscatter Radar Installation military facility. All of the associated sites, if directly

affected by these routes, have been subjected to evaluation for the National Register of Historic Places. They were either determined to be ineligible and therefore not affected, or they were determined eligible and had data recovery undertaken as mitigation for the effect. Continued use of these routes by the public, however, could continue to affect those sites determined to be eligible and still substantially intact and adjacent to the routes.

For the “Severity of Effect” column we have used negligible, minor, moderate, or major. Only the “major” category has the potential to significantly affect potential National Register of Historic Places (NRHP) eligibility criteria to the point that the eligibility status may be jeopardized. Both the “major” and “moderate” categories may warrant the use of protection measures to lessen or mitigate the effects. For the most part, monitoring is recommended for these sites to determine the exact nature of the effects and to enable the decision as to what would be the best or most practicable mitigation measure to implement on a site-by-site basis. All recorded archaeological sites associated with proposed routes are listed in the following table, even if determined ineligible for the NRHP for a previous undertaking. Sites ineligible for the NRHP and sites determined to be unaffected by the route designations will not be proposed for monitoring of effects of the route designations. Routes that have deferred inventory under the Motorized Recreation Programmatic Agreement and have known or suspected recorded sites associated with them, but did not have the sites field verified, have the site identified for relocation to confirm their association and assess the nature of potential route effects.

Tribal consultation has not identified any significant effect on access to or use of traditional plant-gathering areas, or areas of other traditional cultural practices or religious uses.

Table I-1. Alternatives 2,4, and 5—Effects to Cultural Resources

Note: All of the routes listed here are within Alternatives 2 and 5; bolded entries are the routes deleted from Alternatives 2 and 5 to create Alternative 4 (the unbolded entries).

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
BA104	56-2859/H	D/I	R	MINOR	MONITOR
BA130	55-1453	D/I	R	MINOR/NEG.	MONITOR
BA16	55-2081	D/I	R	MINOR	MONITOR
BA16	55-2407H	D/I	R	MINOR	MONITOR
BA16	55-2409H	NONE	---	---	MONITOR
BA206	55-0139/H	D/I	R	MINOR	MONITOR
BA215	55-0473	NONE	---	---	---
BA223	55-0488	D/I	R	MINOR	RELOCATE
BA2234	56-1600	D/I	R	MINOR	MONITOR
BA226	55-0616	D/I	R	MINOR	MONITOR
BA227	55-0615	D/I	R	MINOR	MONITOR
BA228	55-0621	D/I	R/L	MINOR	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
BA2289	55-0843	D/I	R	MINOR	MONITOR
BA2290	55-0758	D/I	R	MINOR	MONITOR
BA2300	55-1703	D/I	R	MINOR	MONITOR
BA2301	56-0871	D/I	R	MINOR	MONITOR
BA241	55-1047	D/I	R	MINOR	MONITOR
BA241	55-1049	D/I	R/WC	MINOR	MONITOR
BA241	55-1058	NONE	---	---	---
BA248	55-0710	D/I	R	MINOR	MONITOR
BA26	56-0059	I	---	---	MONITOR
BA267	55-1333	D/I	R/C/L	MINOR	MONITOR
BA27	55-2242	D/I	R	MINOR	MONITOR
BA27	55-2243	D/I	R	MINOR	MONITOR
BA28	55-2242	D/I	R	MINOR	MONITOR
BA28	55-2243	D/I	R	MINOR	MONITOR
BA283	55-0863	D/I	R/L	MINOR	MONITOR
BA296	55-0809	D/I	R	MINOR	MONITOR
BA347	53-1013	D/I	R/C/L	MODERATE	DO NOT AUTH
BA358	53-0838	---	---	---	INELIGIBLE
BA359	53-0838	---	---	---	INELIGIBLE
BA368	53-0166	D/I	R	MINOR	MONITOR
BA373	53-0264	D/I	R	MINOR	MONITOR
BA373	53-0266	D/I	R/C/L	MINOR	MONITOR
BA38	55-1389	NONE	---	---	---
BA397	53-0172	D/I	R	MINOR	MONITOR
BA407	53-1321	D/I	---	NEGLIGIBLE	MONITOR
BA408	53-1385	I	---	NEGLIGIBLE	MONITOR
BA412	53-1320	D/I	---	NEGLIGIBLE	MONITOR
BA412	53-1455	D/I	R	NEGILIGIBLE	MONITOR
BA431	53-0735	D/I	R/C/L	MINOR	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
BA438	53-0984	I	L	MINOR	MONITOR
BA442	53-0426	D/I	R/C/L	MODERATE	DO NOT AUTH
BA443	53-0426	D/I	R/C/L	MODERATE	DO NOT AUTH
BA444	53-0426	D/I	R/C/L	MODERATE	DO NOT AUTH
BA445	53-0426	D/I	R/C/L	MODERATE	DO NOT AUTH
BA446	53-0828	I	WC	MINOR	MONITOR
BA449	53-0409	D/I	C/L	MINOR	MONITOR
BA452	53-0409	D/I	C/L	MINOR	MONITOR
BA485	53-0549	D/I	R/WC	MINOR	MONITOR
BA490	53-1051	D/I	R/C/L	MINOR	MONITOR
BA491	53-1071	I	---	NEGLIGIBLE	---
BA491	53-1082	D/I	R/L	MINOR	MONITOR
BA491	53-1083	D/I	R	MINOR	MONITOR
BA492	53-0054	D/I	R	MINOR	MONITOR
BA493	53-0054	D/I	R	MINOR	MONITOR
BA495	53-1119/H	D/I	R	MINOR	MONITOR
BA501	53-0996/H	D/I	R	MINOR	MONITOR
BA503	53-1130/H	D/I	C	MINOR	MONITOR
BA54	56-0823/H	D/I	R	MINOR	MONITOR
BA55	56-2114/H	D/I	R/C/L	MINOR	MONITOR
BA67	56-3014	I	---	NEGLIGIBLE	MONITOR
BG19	55-1602	D/I	R	MINOR	MONITOR
BG2	55-1584	D/I	R	MINOR	MONITOR
BG39	55-0103/H	D/I	R	MINOR	MONITOR
BG49	55-1606	D/I	R	MINOR	MONITOR
BG49	55-1614	I	---	NEGLIGIBLE	MONITOR
BG7	55-0551/H	D/I	R	MINOR	MONITOR
BG7	55-2413	D/I	R	MINOR	MONITOR
DJ13	55-2407H	D/I	R	MINOR	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
DJ13	55-2408	D/I	R	MINOR	MONITOR
DJ27	56-1509	D/I	R	MINOR	MONITOR
JW60	56-3171H	D/I	R	MINOR	MONITOR
JW81	55-1083	D/I	R	MINOR	MONITOR
JW82	56-1792/H	D/I	R	---	INELIGIBLE
ML105	55-2334	D/I	R	NEGLIGIBLE	MONITOR
ML105	55-2335H	D/I	R	NEGLIGIBLE	MONITOR
ML105	55-2338	D/I	R	NEGLIGIBLE	MONITOR
ML105	55-2340/H	D/I	R/WC	MINOR	MONITOR
ML105	55-2343H	D/I	R	MINOR	MONITOR
ML106	55-2342/H	D/I	R	MINOR	MONITOR
ML123	55-2410H	NONE	---	---	---
ML123	55-2411H	D/I	R	MINOR	MONITOR
ML1310	56-2418	D/I	R	MINOR	MONITOR
ML146	56-1294	I	---	---	INELIGIBLE
ML146	56-1295	I	---	---	INELIGIBLE
ML146	56-1296	I	---	---	MONITOR
ML146	55-2323	I	---	---	MONITOR
ML146	55-2324/H	D/I	R	MINOR	MONITOR
ML146	55-2290	I	WC	MINOR	MONITOR
ML164	55-2326H	NONE	---	---	---
ML164	55-2327H	D/I	R	MONOR	MONITOR
ML164	55-2336H	D/I	R/WC	MINOR	MONITOR
ML172	55-2329H	D/I	R/L	MINOR	MONITOR
ML172	55-2331	D/I	R/L	MINOR	MONITOR
ML181A	55-0084	D/I	R/L	MINOR	MONITOR - E
ML181A	55-1521/H	D/I	R	MINOR	MONITOR
ML181A	55-1522	D/I	---	---	INELIGIBLE
ML181A	55-1742	D/I	---	---	INELIGIBLE

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
ML198	55-2156	D/I	R/C/L	MODERATE	DO NOT AUTH
ML201	55-2156	D/I	R/C/L	MODERATE	DO NOT AUTH
ML2010	56-1792/H	D/I	---	---	INELIGIBLE
ML202	55-2156	D/I	RCL	MODERATE	DO NOT AUTH
ML203	55-2156	D/I	R/C/L	MODERATE	DO NOT AUTH
ML2035	56-0917	D/I	R	MINOR	MONITOR
ML2095	55-1927	NONE	---	---	---
ML244	56-2045	D/I	R/L	MINOR/MOD	DO NOT AUTH
ML250	56-2100/H	D/I	R	MINOR	MONITOR
ML250	56-2323H	D/I	R	MINOR	MONITOR
ML251	56-2120	D/I	R	MINOR	MONITOR
ML251	56-2323H	D/I	R	MINOR	MONITOR
ML260	56-2323H	D/I	R	MINOR	MONITOR
ML283	56-1185	D/I	R	MINOR	MONITOR
ML283	56-1190	D/I	R	MINOR	MONITOR
ML288	56-2183/H	D/I	R/WC	MINOR	MONITOR
ML293	56-1220	I	---	MINOR/NEG	MONITOR
ML293	56-1226	I	---	MINOR/NEG	MONITOR
ML293	56-1266	I	B	---	INELIGIBLE
ML293	56-1267	I	---	MINOR/NEG	MONITOR
ML293	56-1268	I	---	MINOR/NEG	MONITOR
ML293	56-1274	I	B	---	INELIGIBLE
ML293	56-1276	D/I	B	---	INELIGIBLE
ML293	56-1277	I	B	MINOR/NEG	MONITOR
ML299	56-1235	D/I	R	---	MONITOR
ML299	56-1295	D/I	B	---	INELIGIBLE
ML3	55-2418	D/I	R/WC	MINOR	MONITOR
ML300	56-1096	I	---	MINOR/NEG	MONITOR
ML300	56-1099	I	---	MINOR/NEG	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
ML300	56-1143	I	B	---	INELIGIBLE
ML300	56-1144	I	B	---	INELIGIBLE
ML300	56-1293	I	B	---	INELIGIBLE
ML300	56-1396	I	---	MINOR/NEG	MONITOR
ML300	56-1399	I	---	MINOR/NEG	MONITOR
ML300	56-1400	I	B	---	INELIGIBLE
ML310	56-3080	I	---	---	MONITOR
ML312	56-1206	D/I	R	---	INELIGIBLE
ML315	56-1060/-1061/-1062	D/I	B	MINOR	MAINT. RD MONITOR
ML317	56-1060/-1061/-1062	D/I	B	MINOR	MAINT. RD MONITOR
ML318	56-1060/-1061/-1062	D/I	B	MINOR	MAINT. RD MONITOR
ML319	56-1060/-1061/-1062	D/I	B	MINOR	MAINT. RD MONITOR
ML322	56-1060/-1061/-1062	D/I	B	MINOR	MAINT. RD MONITOR
ML323	56-1060/-1061/-1062	D/I	B	MINOR	MAINT. RD MONITOR
ML324	56-1060/-1061/-1062	D/I	B	MINOR	MAINT. RD MONITOR
ML328	56-1067	D/I	B	MINOR	ineligible
ML328	56-2019/H	D/I	R	MINOR	MONITOR
ML328	56-2021	I	---	---	MONITOR
ML328	56-2037/H	I	---	---	MONITOR
ML354	55-1413H	D/I	R	MINOR	MONITOR
ML358	55-0722	D/I	R	MINOR	MONITOR
ML384	55-1986	I	R	NEGLIGIBLE	MONITOR
ML387	55-1990/H	D/I	R	MINOR	MONITOR
ML388	55-1990/H	D/I	R	MINOR	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
ML4	55-2419	I	WC	MINOR	MONITOR
ML4024	54-0776H	I	---	NEGLIGIBLE	MONITOR
ML410	55-0756	D/I	R	MINOR	MONITOR
ML410	55-0758	D/I	R	MINOR	MONITOR
ML415	55-0755	D/I	R	MINOR	MONITOR
ML415	55-2107/H	I	---	---	MONITOR
ML417	55-1451	D/I	R	MINOR	MONITOR
ML417	55-1452	I	---	NEGLIGIBLE	MONITOR
ML421	55-1181	I	---	NEGLIGIBLE	MONITOR
ML425	55-0586	D/I	R/C/L	MINOR	MONITOR
ML479	55-1409	D/I	R	MINOR	MONITOR
ML491	55-1511	D/I	R/C	MINOR	MONITOR - E
ML491	55-2089	D/I	R	MINOR	MONITOR
ML516	55-1000	NONE	---	---	MONITOR
ML516	55-1001	NONE	---	---	MONITOR
ML552	55-0290	D/I	R	MINOR	RELOCATE
ML556	55-1006	I	---	NEGLIGIBLE	MONITOR
ML584	55-0225/0195	D/I	R	MINOR	MONITOR
ML591	55-0080	D/I	R	MINOR	MONITOR
ML78	55-2347	I	---	---	MONITOR
ML79	55-2347	I	---	---	MONITOR
ML9	53-1740	I	---	NEGLIGIBLE	MONITOR
ML90	55-1306H	I	---	NEGLIGIBLE	MONITOR
PA39	56-1800/H	D/I	R/C/L	MINOR	MONITOR
PK10	54-0453	NONE	---	---	---
PK10	54-0464	NONE	---	---	---
PK10	54-0476	D/I	R	NEGLIGIBLE	MONITOR
PUB009	55-2391	D/I	R	MINOR	MONITOR
SS01	55-2414	D/I	R	MINOR	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
SS1000	56-1601	D/I	B	MINOR	MAINT. RD
SS1000	56-1602	D/I	B	MINOR	MAINT. RD
SS1002	56-1601	D/I	B	MINOR	MNIT. RD
SS1002	56-1602	D/I	B	MINOR	MAINT. RD
SS1002	56-1609	D/I	B	MINOT	MAINT. RD
SS1002	56-1610	D/I	B	MINOR	MAINT. RD
SS1002	56-1611	D/I	B	MINOR	MAIMT. RD
SS1002	56-1768	D/I	B	MINOR	MAINT. RD
SS1002	56-3070	I	---	NEGLIGIBLE	MAINT. RD
SS1002	56-3071	I	---	NEGLIGIBLE	MAINT. RD
SS1004	56-1761	D/I	B	MINOR	MAINT. RD
SS1004	56-1939	D/I	B	MINOR	MAINT. RD
SS1004	56-1940	D/I	B	MINOR	MAINT. RD
SS1004	56-1941	D/I	B	MINOR	MAINT. RD
SS136	55-2348H	D/I	R	MINOR	MONITOR
SS136	55-2349	I	---	NEGLIGIBLE	---
SS140	55-2400H	D/I	R	NEGLIGIBLE	MONITOR
SS150	56-2114/H	D/I	R	MINOR	MONITOR
SS189	55-1526	D/I	R	MINOR	MONITOR
SS199	56-1133	I	---	NEGILIBLE	MONITOR
SS201	56-1107	D/I	R	MINOR	MONITOR
SS210	56-2114/H	D/I	R/C/L	MINOR	MONITOR
SS211	56-2114/H	D/I	R/C/L	MINOR	MONITOR
SS225	55-0694/H	D/I	R/C/L	MINOR	MONITOR
SS227	55-0692	D/I	R	MINOR	MONITOR
SS256	55-0905	D/I	R	MINOR	MONITOR
SS281	55-0049/H	D/I	R/C/L	MINOR	MONITOR
SS282	55-0049/H	D/I	R/C/L	MINOR	MONITOR
SS288	55-1528	NONE	---	---	---

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
SS288	55-1536	NONE	---	---	---
SS289	55-0049/H	D/I	R/C/L	MINOR	MONITOR
SS290	55-0049/H	D/I	R/C/L	MINOR	MONITOR
SS309	56-3277	D/I	R	MINOR	MONITOR
SS396	55-2088/H	D/I	R/C/L	MINOR	MONITOR
SS417	55-1567	D/I	R	MINOR	MONITOR
SS418	55-0903	I	---	NEGLIGIBLE	MONITOR
SS420	55-0218	D/I	R	MINOR	MONITOR
SS421	55-0218	D/I	R	MINOR	MONITOR
SS421	55-0989	D/I	R	MINOR	MONITOR
SS432	55-0086	D/I	R	MINOR	MONITOR
SS562	53-0448HA	D/I	R/C/L	MINOR	MONITOR
SS564	53-0448HA	D/I	R/C/L	MINOR	MONITOR
SS565	53-0448HA	D/I	R/C/L	MINOR	MONITOR
SS566	53-0448HA	D/I	R/C/L	MINOR	MONITOR
SS567	53-0448HA	D/I	R/C/L	MINOR	MONITOR
SS568	53-0448HA	D/I	R/C/L	MINOR	MONITOR
SS569	53-0448HA	D/I	R/C/L	MINOR	MONITOR
SS575	53-1053H	D/I	R/L	MINOR	MONITOR
SS579	53-0551	I	C/L	MINOR	MONITOR
SS583	53-0033H	D/I	R/C/L	MINOR	MONITOR
SS589	53-0449H	D/I	R	MINOR	MONITOR
SS590	53-0449H	D/I	R	MINOR	MONITOR
SS591	53-0449H	D/I	R/C/L	MINOR	MONITOR
SS608	53-0559	D/I	R/L	MINOR	MONITOR
SS628	53-0685	NONE	---	---	---
SS633	53-0710	D/I	R	MINOR	MONITOR
SS634	53-0588/-0622/-0705	D/I	R/C/L	MINOR	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
SS634	53-0630	NONE	---	---	---
SS634	53-1361	D/I	R	MINOR	MONITOR
SS635	53-0676	D/I	R	MINOR	MONITOR
SS635	53-1226	D/I	R	MINOR	MONITOR
SS641	53-0632	NONE	---	---	---
SS641	53-0677H	NONE	---	---	---
SS702	53-0185	D/I	R	MINOR	MONITOR
SS725	53-0503H	D/I	R/C/L	MODERATE	SIGN/MONITOR
SS727	53-0765	D/I	R	NEGLIGIBLE	MONITOR
SS736	53-0773	D/I	R	MINOR	MONITOR
SS788	53-0912	D/I	R/C/L	MINOR	MONITOR
SS788	53-1297	D/I	R	MINOR	MONITOR
SS789	53-0054/H	D/I	R	MINOR	MONITOR
SS789	53-0912	D/I	R/C/L	MINOR	MONITOR
SS790	53-0054/H	D/I	R	MINOR	MONITOR
SS790	53-0912	D/I	R/C/L	MINOR	MONITOR
SS792	53-0054/H	D/I	R	MINOR	MONITOR
SS884	53-1119/H	D/I	R	MINOR	MONITOR
SS904	53-0124	I	---	NEGLIGIBLE	MONITOR
SS910	53-0573H	D/I	R/C	MINOR	MONITOR
SS912	53-0573H	D/I	R/C	MINOR	MONITOR
SS931	53-0110	D/I	R/C	MINOR	MONITOR
SS940	53-0100	I	---	NEGLIGIBLE	MONITOR
SS969	56-1571H	D/I	---	---	INELIGIBLE
SS969	56-1576	D/I	R	MINOR	MONITOR
SS978	56-1607	D/I	B	MINOR	MAINT. RD MONITOR
SS979	56-1607	D/I	B	MINOR	MAINT. RD
SS980	56-1570H	---	---	---	INELIGIBLE

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
SS980	56-2908	D/I	R	MINOR	MONITOR
SS983	56-1206	D/I	R	MINOR	MONITOR
SS984	56-1607	D/I	B	MINOR	MAINT. RD
SS989	56-1601	D/I	B	MINOR	MAINT. RD MONITOR
SS989	56-1602	D/I	B	MINOR	MAINT. RD MONITOR
SS989	56-1609	D/I	B	MINOR	MAINT. RD MONITOR
SS989	56-1610	D/I	B	MINOR	MAINT. RD MONITOR
SS990	56-1761	D/I	B	MINOR	MAINT. RD
SS990	56-1939	D/I	B	MINOR	MAINT. RD
SS990	56-1940			MINOR	
SS990	56-1941	D/I	B	MINOR	MAINT. RD
SS991	56-1608	D/I	B	MINOR	MAINT. RD MONITOR
SS991	56-3263	D/I	B	MINOR	MAINT. RD
SS991	56-3270	D/I	B	MINOR	MAINT. RD
SS993	56-1605	D/I	B	---	INELIGIBLE
SS993	56-1606	D/I	B	MINOR	MAINT. RD
SS993	56-2053	D/I	B		MAINT. RD
SS993	56-2804	D/I	B	MINOR	MAINT. RD
SS993	56-2805	D/I	B	MINOR	MAINT. RD
SS993	56-2806	D/I	B	MINOR	MAINT. RD
SS993	56-3053	D/I	B	MINOR	MAINT. RD
SS993	56-3264	D/I	B	MINOR	MAINT. RD
SS993	56-3266	D/I	B	MINOR	MAINT. RD
SS994	56-3053	D/I	B	MINOR	MAINT. RD
TR50	56-1789H	D/I	R	MINOR	MONITOR

Route ID	Site Number	Type of Effect	Nature of Effect	Severity of Effect	Protection or Mitigation
TR50	56-1972H	D/I	R	MINOR	MONITOR
TR96	56-1026	D/I	R	MINOR	MONITOR

Appendix J: Law Enforcement

Introduction

U.S. Forest Service Law Enforcement and Investigations (LEI) personnel are responsible for protecting the public, employees, natural resources, and other property under the agency's jurisdiction. Additionally, LEI investigates and enforces applicable laws and regulations that affect the National Forest System (NFS) lands, and prevents criminal violations. The new Travel Management Rule is one such regulation.

The Travel Management Rule requires designation of roads, trails, and areas open to motor vehicle use, and the prohibition of cross-country, wheeled motorized vehicle travel by the public. This is a considerable change in public motorized access management from previous conditions, where most forests were managed as "open to cross-country travel." The implementation of designated routes and areas for motorized vehicles will be the responsibility of all agency employees, especially in the area of education and enforcement. The law enforcement program is primarily responsible for issuing violations to the Travel Management Rule.

The national LEI budget is funded by appropriated funds from Congress to provide law enforcement services on the NFS lands. The Travel Management program is one of many forest programs to benefit from federal law enforcement funding. For the past few years, law enforcement funding has increased, and that has translated into an increase in field law enforcement personnel¹.

To enhance enforcement of the Travel Management Rule, Region 5 Forest Recreation Programs have applied for and received grant dollars (green sticker funding) from the State of California Off-Highway Motor Vehicle Recreation Division Grants Program. These State funds are earmarked specifically for enforcement of off-highway vehicle laws and regulations on the various forests, and are performed primarily by Forest Protection Officers (FPO). In addition, Law Enforcement Officers (LEOs) support the FPOs as needed, especially if serious violations have occurred. In recent years, State law enforcement grants have ranged from three to four million dollars annually, with similar funding anticipated for the 2008-2009 grant cycle.

Authority and Jurisdiction

The Forest Service exercises its law enforcement authority when violation of laws or regulations occurs on NFS lands, or when incidents affect the NFS. The existing authorities for enforcement are completely adequate and no new laws will be needed to implement the Travel Management rule.

Every national forest has a law enforcement plan that is updated annually. All Forest Service employees have a duty to know and understand their authorities and responsibilities, and to properly enforce laws and regulations relating to the forest within their authority and capability. LEI and agency personnel provide a regular and recurring presence on vast amounts of public land, roads, trails, and areas, and take appropriate action if illegal activity is discovered. Violations involving motorized vehicles are primarily enforced by FPOs, which patrol off-highway use roads, trails, and areas. These include violations such as operating a motor vehicle in violation of federal regulations and California vehicle code, parking improperly, resource damage to soils, vegetation or wildlife, and disorderly or unruly behavior. LEOs have discretion when

¹ Region 5 Law Enforcement budget figures for the past four years have increased, and the number of law enforcement officers has increased by 65.

deciding what type of action to initiate when handling violations to the following federal laws that pertain specifically to motor vehicle use.

- The Act of June 4, 1897 (Title 16 United States Code 551) is the authority for issuing regulations at Title 36 Code of Federal Regulations, Part 261 (36 CFR 261). Specific OHV travel management regulations are in sections 261.9 – Property, 261.13 –Motor Vehicle Use, and 261.15 –Use of Vehicles Off-Road (see Attachment X). These CFRs cover a wide array of misdemeanor infractions.
- The Act of March 3, 1905 (Title 16 United States Code 559) authorizes all employees of the Forest Service to make arrests for violation of the laws and regulations pertaining to national forests. Normally, arrest authority is limited to trained law enforcement personnel. (Any employee may take immediate action when necessary to protect life and prevent serious damage to or destruction of property, escape of a suspect, or loss of material evidence when such action can be done with reasonable safety.)

Cooperation

The Forest Service shares responsibility and cooperates with local, State, and other Federal agencies in the execution of its law enforcement program. The authority for cooperation among agencies, especially as it pertains to Travel Management, is within the following laws:

- The act of August 10, 1971 (Title 16 United States Code 551a) authorizes the Secretary of Agriculture to cooperate with, and provide reimbursement to, any State or political subdivision thereof, for the enforcement of their laws within NFS. This law does not deprive any State or local law enforcement agency from exercising its criminal and civil jurisdiction on lands that are part of the NFS.
- The California Penal Code, Section 830.8, provides that Forest Service law enforcement personnel may exercise State Peace Officer authority where the sheriff of the county wherein the officer works has provided specific written permission for the officer.
- The State vehicle code section 38301 allows State law enforcement officer to enforce any of the Federal Cars related to motor vehicles on NFS lands.²

Each forest maintains close working relationships with many State and local law enforcement agencies that have law enforcement responsibilities within or adjacent to the forest boundary. Significant cooperating agencies relative to the Travel Management Rule include the local county sheriff departments, the California Department of Fish and Game, California Highway Patrol, California Department of Forestry and Fire Protection, and occasionally one or more Federal agencies, depending on the violation. Forest Service law enforcement personnel cooperate fully with these agencies in carrying out their law enforcement responsibilities by providing assistance, liaison, advice, and information.

Forests maintain Cooperative Law Enforcement Agreements with their respective county sheriff's office. In Region 5, the total cost for the 2008 Cooperative Law Enforcement Agreements is \$891,397.³ These funds are for performance of duties in addition to the normal activities in which the sheriff's deputies handle crimes against persons and their property that may occur within the

² The State Vehicle code, section 38301. (a) It is unlawful to operate a vehicle in violation of special regulations which have been promulgated by the governmental agency having jurisdiction over public lands, including, but not limited to, regulations governing access, routes of travel, plants, wildlife habitat, water resources and historical sites.

³ Region 5 Law Enforcement Cooperative Agreement 2008 spreadsheet.

NFS boundary. In these agreements, both parties recognize that public use of NFS lands is usually located in areas that are remote or sparsely populated, and the enforcement of State and local law is related to the administration and regulation of NFS lands. Within the Cooperative Law Enforcement Agreements, an Operating Plan is developed outlining the supplemental work to be performed by the cooperating agency. Relative to the Travel Management Rule, operating plans may provide:

- Supplemental patrols in areas of high use
- Supplemental patrols on weekends or during particular months of high use
- Additional officers for large group gatherings or events (e.g., enduros)
- Vehicle checkpoints for vehicle registration spark arrestors, and other miscellaneous items

Implementation and Tracking

Implementation of the Forest Service law enforcement program is continually adapting as law enforcement personnel assess the changing patterns of visitor use and attitudes, and the trends in violations, especially for property and resource damage. One method of assessment is the analysis of Law Enforcement and Investigations Management Attainment Reporting System (LEIMARS) data. LEIMARS tracks all known violations of criminal law or regulation on NFS lands (FSH 5309.11, chapter 40 and FSM 5340). Additionally, imbedded in LEIMARS is the Case Tracking System, which tracks all felony and serious misdemeanor cases. These tracking systems:

- Capture and record information on location, volume, damages, and type of violations occurring on NFS lands
- Provide a retrieval system of data on incidents and violations that is responsive to the needs of all organizational levels
- Provide agency managers with a means to identify and monitor law enforcement activities.
- Specifically identify problem areas and periods of activity
- Provide a method to record and analyze incidents involving violations or suspected violations on NFS lands

Trends in violations related to the Travel Management Rule can be analyzed and appropriate action(s) taken, if needed. Appropriate action(s) may involve one or more techniques or adaptive strategies. In the law enforcement community, this is often referred to as the “three E strategy” of engineering, education, and enforcement. With the change in the Travel Management Rule, it is anticipated that the law enforcement program will use a combination of strategies, especially during the first five years of the rule implementation.

Implementation Strategy

Engineering, Education, and Enforcement

The Engineering strategy is designed to prevent or reduce inadvertent violations, resource damage, and crime vulnerability. The strategy’s goal is to remove the opportunity to commit a violation. LEI personnel work with each forest, particularly the recreation and engineering programs, to implement some or all of the following specific tactics:

- Proper design of improvements and facilities
- Facility security measures such as installation of barricades, gates, and other natural obstacles
- Forest signing, both directional and informational, to assist the public to ensure they stay on designated trails, and out of the wilderness and other sensitive areas
- Closure and rehabilitation of decommissioned roads and trails

The Educational strategy focuses on specific user groups, school groups, recreation users, and the public. The goal is to develop responsible and concerned public land use attitudes in forest users; it is violation prevention. Forest LEOs and FPOs make regular contacts in the field, informing the users of the regulations and need for the prohibition. The LEI personnel work with each forest, particularly the recreation and public information programs, to identify and implement some or all of the following specific tactics.

- Have motor vehicle use maps easily available to public
- Have route numbers visually marked on the ground
- Distribute maps and brochures promoting responsible use
- Conduct environmental interpretation activities in local communities, at schools, and with special interest groups
- Use of all forms of the media (television, radio, and newspapers), especially prior to, and during, the high use periods
- Ensure all employees understand the Travel Management Rule
- Use high visibility prevention patrols and public information checkpoints, especially during the peak use periods
- Encourage cooperating law enforcement agencies to make visitor contacts and provide violator information to forest officers
- Ride with other agency officers to demonstrate solidarity to the public
- Issue news releases of arrests and successful prosecutions, including offender names, criminal penalties, and court ordered restitution

The Law Enforcement strategy is to effect crime prevention measures that are designed to reduce specific criminal activity, deter potential and repeat offenders, maximize enforcement actions and visibility, and increase prosecutorial successes. All enforcement actions should result in a better understanding of regulations pertaining to the management of NFS lands. LEI personnel work with each forest, to identify and implement some or all of the following specific tactics:

- Schedule officers to work during the identified problem periods, including holidays and weekends
- Use high-profile “saturation patrols” and stationary surveillance posts in the identified problem areas
- Use the most effective and efficient means of patrol, including foot, horseback, all-terrain vehicle, snowmobile, watercraft, and aircraft
- Use aerial overflights to enforce restriction under Travel Management Rule
- Enlist the aid of volunteers

- Initiate an awards program
- Supplement patrols with cooperating law enforcement agencies in areas of concern
- Use technical investigative equipment (cameras, monitors, sensors) to assist officers with detecting and monitoring violations at known or suspected violation sites
- Conduct planned and approved compliance checkpoints
- Follow up on complaints to document violations, damages, and identify suspect vehicles or persons
- Require cooperating law enforcement agencies to assist with reporting and/or enforcing violations within their authority
- Patrol with other cooperating law enforcement agency officers
- Conduct unpredictable patrol schedules
- Conduct special enforcement actions (unmarked vehicle deployment, surveillance, traffic checkpoints)
- Use LEIMARS and Central Violations Bureau databases along with the State motor vehicle data, to identify repeat offenders for enhanced prosecution
- Pursue court ordered restitution or civil collections for resource and property damages.
- Encourage prosecutorial and judicial support
- Execute bench warrants related of off-highway vehicle violations

Assumptions

Based on many years of enforcing off-highway vehicles, implementation of the Travel Management Rule from a law enforcement perspective assumes the following to be true. Additionally, these assumptions are based on several case studies in R5 (see Attachment 1). These assumptions may change in time with analysis of the LEIMARS database.

Enforcement Assumptions

- Enforcement of the laws and regulations related to Travel Management will be enforced equally in authority and weight as with all other Federal laws and regulations.
- As with any change in a regulation on NFS lands, there is usually a transitional period for the public to understand the changes. It is anticipated there will be a higher number of violations to the Travel Management Rule the first few years and the number of violations will decline as the users understand and comply with the rules. It is assumed :
 - Users in communities adjacent to the forest will comply within one to two years.
 - Frequent users but further in distant from the forest will comply within two to three years.
 - Infrequent users, regardless of distance, may take up to five years to comply.
- Law enforcement officer and agency personnel's presence and enforcement actions will positively affect OHV users' behaviors and attitudes.
- The Travel Management Rule and associated motor vehicle use map clearly define the designated routes therefore making violations to the rule unequivocal.

- Once the motor use vehicle map is published, the implementation of the established dedicated network of roads, trails, and areas with signs, and user education programs, will reduce the number of violations.
- FPOs spend a large percentage of their time on Travel Management issues, and depending on the forest the estimate range from 30 to 50 percent. LEOs spend approximately 10 to 20 percent of their time on enforcement of off-highway vehicle issues.⁴

Agency Funding Assumptions

Appropriated program funding levels and number of law enforcement personnel does not affect enforcement of the Travel Management Rule. All laws and regulations are enforced equally.

Appropriated funds will remain level or increase slightly in the next five years.

The State of California Off-Highway Motor Vehicle Recreation Division Grants Program (green sticker funding) enhances and provides additional law enforcement presence in the field at the forest level.

Public Attitude and Compliance Assumptions

- Forest users want to do the right thing and will obey the rule⁵, once they understand the rule and motor vehicle use map.
- User compliance⁶ is based on the State of California Off-Highway Motor Vehicle Recreation Division data and is anticipated to be as follows:
 - 95 percent of the users are fully compliant.
 - 2 to 3 percent of the users think about and may violate a law.
 - 1 to 2 percent of the users will violate the law.

Measures of Success

Measuring the success of the Travel Management Rule from a law enforcement perspective will be done using the LEIMARS database. An analysis of the data may alert a forest to a particular problem area for violations, such as a group campsite area that may be surrounded by flat meadow areas inviting riders to potentially violate the regulation. A successful program will see a positive change in the following measures:

- Measure 1: A reduction in the number of off-route travel violations
- Measure 2: A reduction in the number of resource damage violations

⁴ Barnett, G. 2004-2005 Law Enforcement Workload Analysis.

⁵ Tyler, Tom R. *Why People Obey the Law*, Princeton University Press, 2006, p. 320

⁶ User compliance was computed by using the State Vehicular Recreation Area Fiscal year 2006/2007 data: 4.2M SVRA visitors divided by the 210,000 citations written, is approximately 5 percent non-compliant, and 95% compliant.

Appendix K: Information on Maintenance Backlog

The table below (Table L-1) shows the deferred maintenance backlog for our maintenance level (ML) 3,4, and 5 roads. It is based on condition surveys done on 98.46% of ML 3 roads and 100% of ML 4&5 roads; the reporting year was 2007. The remaining 1.54% of the ML 3 roads was extrapolated from the ones that were done. It shows a deferred maintenance backlog of \$9,087,533 for the ML 3,4, and 5 roads.

For the ML 1 and 2 roads, condition surveys have only been done on a very small percentage (0.09%), so this data is not valid to extrapolate to the remainder. Most of the ML 1 and 2 roads do not need much work. The deferred maintenance on these roads is about \$500 per mile. This is based on almost all of them needing a route marker installed, and some minor drainage or clearing work. The current number of miles, based on objective maintenance levels, is 3,491 miles of ML 2 and 256 miles of ML 1. At \$500 per mile, the deferred maintenance estimate for ML 1&2 roads is \$1,873,500.

The total deferred maintenance estimate for roads is then \$10,961,033, or in round numbers \$11,000,000.

Figure F-1. Data on Maintenance Backlog (2007 data)

Maint. level	All miles	Existing miles	Sample miles	Sample percent	Reason	Priority	Needed funds	Extrapolated funds
3	703.4	703.4	692.565	98.46	forest mission	critical	18,6400	2,915
3	703.4	703.4	692.565	98.46	forest mission	non-critical	1160,755	18,155
3	703.4	703.4	692.565	98.46	health and safety	critical	260,240	4,070
3	703.4	703.4	692.565	98.46	health and safety	non-critical	91,120	1,425
3	703.4	703.4	692.565	98.46	resource protection	critical	50,391	788
3	703.4	703.4	692.565	98.46	resource protection	non-critical	6795,671	106,290
4	13.09	13.09	13.09	100	forest mission	non-critical	19,325	0
4	13.09	13.09	13.09	100	health and safety	critical	812	0
4	13.09	13.09	13.09	100	health and safety	non-critical	311	0
4	13.09	13.09	13.09	100	resource protection	non-critical	292,406	0
5	18.364	18.364	18.364	100	forest mission	non-critical	16,025	0
5	18.364	18.364	18.364	100	health and safety	critical	678	0
5	18.364	18.364	18.364	100	health and safety	non-critical	756	0
5	18.364	18.364	18.364	100	resource protection	critical	148	0
5	18.364	18.364	18.364	100	resource protection	non-critical	78,850	0
Totals							\$8,953,888	\$133,645
Total of needed and extrapolated funds for ML 3,4, &5 roads								\$9,087,533

Total of deferred maintenance estimate for ML 1&2 roads	\$1,873,500
Total of deferred maintenance estimate for all roads	\$10,961,033

Appendix L: Goshawk Habitat I

Table L-1. Goshawk Habitat Influence Index And Security Index Rank And Ratings Where There Are At Least 200 Acres Of NFS Within The Watershed (HUC)—Alternative 1

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Acres of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Ballard Reservoir	12852.6	2270.5	1046.9	46%	155.7	15%	Low	561.2	46%	High
Bare Creek	33440.5	7599.1	2883.6	38%	312.0	11%	Low	1181.9	59%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1042.3	13%	Low	3543.0	57%	Moderate
Blacks Canyon	23132.0	14454.7	277.7	2%	54.0	19%	Low	204.0	27%	High
Canby-Pit River	38873.0	12359.7	767.8	6%	134.7	18%	Low	392.6	49%	High
Corral Creek	16487.0	5304.0	429.3	8%	48.4	11%	Low	166.2	61%	Moderate
Cottonwood Creek - North	25038.1	12896.4	8071.5	63%	1237.9	15%	Low	3663.6	55%	Moderate
Cottonwood Creek- South	16350.0	11917.6	3792.6	32%	657.1	17%	Low	2389.1	37%	High
Crooks Canyon	25109.4	3944.1	2109.9	53%	255.1	12%	Low	1053.1	50%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1318.0	19%	Low	4342.0	38%	High
Dry Creek	28886.1	2403.3	603.6	25%	44.2	7%	Low	198.7	67%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Acres of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Eagle Creek	11360.2	5190.6	1518.2	29%	105.7	7%	Low	364.8	76%	Low
East Creek	29458.5	29035.7	6007.4	21%	922.4	15%	Low	3054.2	49%	High
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	95.6	19%	Low	298.8	40%	High
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1059.6	16%	Low	3257.5	51%	Moderate
Frog Waterhole	42760.7	37927.7	267.9	1%	52.2	19%	Low	162.2	39%	High
Gleason Creek	10621.3	1501.5	235.9	16%	21.2	9%	Low	60.7	74%	Low
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	457.1	17%	Low	1682.0	37%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	190.4	15%	Low	686.8	44%	High
Joseph Creek	12321.5	8231.6	4303.8	52%	516.8	12%	Low	1867.4	57%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	379.9	16%	Low	1346.5	44%	High
Lassen Creek	15654.3	12749.1	5600.3	44%	1151.1	21%	Low	3695.8	34%	High
Lone Pine Butte	23296.6	23296.6	340.9	1%	82.3	24%	Low	249.7	27%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	502.6	18%	Low	1771.3	37%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	534.9	23%	Low	1604.6	32%	High
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	47.5	23%	Low	156.5	26%	High
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	676.3	14%	Low	2155.7	55%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Acres of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Lower Willow Creek	26748.9	11200.8	570.8	5%	70.0	12%	Low	260.7	54%	Moderate
Messenger Gulch East	11401.7	8602.8	3183.2	37%	186.5	6%	Low	720.7	77%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	664.9	21%	Low	2030.2	35%	High
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	44.5	16%	Low	183.2	35%	High
Mill Creek	22288.0	19190.5	9778.6	51%	735.2	8%	Low	2898.2	70%	Moderate
Moon Lake	46904.6	4084.5	831.7	20%	64.2	8%	Low	267.4	68%	Moderate
Mud Lake	9119.1	5948.9	207.5	3%	42.7	21%	Low	127.5	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	493.4	7%	Low	1779.5	76%	Low
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	641.0	15%	Low	2007.3	54%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2510.3	19%	Low	8497.3	35%	High
Parker Creek	22262.2	6240.5	1822.8	29%	207.4	11%	Low	699.9	62%	Moderate
Parsnip Creek	38600.6	19596.6	1028.0	5%	164.5	16%	Low	488.2	53%	Moderate
Pine Creek south	19547.9	11943.3	6114.8	51%	478.9	8%	Low	1808.4	70%	Low
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	244.9	24%	Low	629.4	38%	High
Rose Canyon	18125.5	13713.9	1392.9	10%	149.8	11%	Low	544.4	61%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Acres of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Ross Creek	12755.9	5190.5	2475.4	48%	585.6	24%	Low	1807.0	27%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1693.8	19%	Low	5363.5	39%	High
Sohonchin Spring	13229.0	12795.7	6164.5	48%	892.4	14%	Low	2734.5	56%	Moderate
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	252.2	19%	Low	864.0	34%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	245.4	24%	Low	665.0	35%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1878.7	20%	Low	5490.6	41%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	115.9	19%	Low	391.0	36%	High
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	295.6	7%	Low	899.2	80%	Low
Stone Coal Creek	29094.8	25094.9	3610.2	14%	583.8	16%	Low	2091.3	42%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	457.8	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	112.8	4%	Low	499.9	82%	Low
Tionesta	77495.1	66514.8	2304.1	3%	367.5	16%	Low	1187.5	48%	High
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	227.3	19%	Low	842.3	30%	High
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.5	14%	Low	217.4	61%	Moderate
Upper Turner Creek	15941.5	14868.8	251.0	2%	46.8	19%	Low	150.1	40%	High
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	13.0	2%	Low	89.9	87%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Acres of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	494.3	11%	Low	1484.0	68%	Moderate
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.7	17%	Low	218.7	49%	High
Wagontire Creek	26475.3	11980.5	268.9	2%	69.8	26%	Low	199.7	26%	High
Washington Creek	21999.0	21789.9	377.5	2%	65.8	17%	Low	289.6	23%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	286.6	10%	Low	980.8	67%	Moderate
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	148.5	9%	Low	538.2	68%	Moderate
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1645.8	18%	Low	5757.5	37%	High
Willow Creek DH	38896.9	4421.5	363.7	8%	110.6	30%	Moderate	291.0	20%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	439.5	9%	Low	1666.8	65%	Moderate

Table L-2. Goshawk Habitat Influence Index And Security Index Rank And Ratings Where There Are At Least 200 Ac Of NFS Within The Watershed (HUC)—Alternatives 2 And 5

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Ballard Reservoir	12852.6	2270.5	1046.9	46%	74.1	7%	Low	223.8	79%	Low
Bare Creek	33440.5	7599.1	2883.6	38%	322.8	11%	Low	1177.8	59%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1084.1	13%	Low	3696.4	55%	Moderate
Blacks Canyon	23132.0	14454.7	277.7	2%	53.8	19%	Low	180.1	35%	High
Canby-Pit River	38873.0	12359.7	767.8	6%	50.3	7%	Low	196.0	74%	Low
Corral Creek	16487.0	5304.0	429.3	8%	65.9	15%	Low	227.5	47%	High
Cottonwood Creek N	25307.1	12896.4	8071.5	63%	1315.8	16%	Low	3802.6	53%	Moderate
Cottonwood Creek S	16350.0	11917.6	3792.6	32%	649.9	17%	Low	2331.7	39%	High
Crooks Canyon	25109.4	3944.1	2109.9	53%	283.0	13%	Low	1065.0	50%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1250.2	18%	Low	4119.0	41%	High
Dry Creek	28886.1	2403.3	603.6	25%	66.7	11%	Low	277.5	54%	Moderate
Eagle Creek	11360.2	5190.6	1518.2	29%	0.0	0%	Low	0.0	100%	Low
East Creek	29458.5	29035.7	6007.4	21%	830.1	14%	Low	2791.8	54%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	91.7	18%	Low	265.6	47%	High
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1119.6	17%	Low	3370.7	49%	High
Frog Waterhole	42760.7	37927.7	267.9	1%	52.2	19%	Low	162.2	39%	High
Gleason Creek	10621.3	1501.5	235.9	16%	12.4	5%	Low	34.2	85%	Low
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	424.1	16%	Low	1601.5	40%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	182.9	15%	Low	683.6	44%	High
Joseph Creek	12321.5	8231.6	4303.8	52%	510.2	12%	Low	1826.7	58%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	419.3	17%	Low	1445.3	40%	High
Lassen Creek	15654.3	12749.1	5600.3	44%	950.4	17%	Low	3317.0	41%	High
Lone Pine Butte	23296.6	23296.6	340.9	1%	82.3	24%	Low	249.7	27%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	513.1	18%	Low	1796.9	36%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	532.5	22%	Low	1591.9	33%	High
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	19.4	9%	Low	88.9	58%	Moderate
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	556.0	12%	Low	1827.5	62%	Moderate
Lower Willow Creek	26748.9	11200.8	570.8	5%	68.6	12%	Low	261.3	54%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Messenger Gulch East	11401.7	8602.8	3183.2	37%	156.9	5%	Low	630.2	80%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	646.4	21%	Low	1969.5	37%	High
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	44.0	16%	Low	182.1	36%	High
Mill Creek	22288.0	19190.5	9778.6	51%	448.2	5%	Low	1398.0	86%	Low
Moon Lake	46904.6	4084.5	831.7	20%	45.9	6%	Low	205.7	75%	Low
Mud Lake	9119.1	5948.9	207.5	3%	42.1	20%	Low	126.1	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	500.1	7%	Low	1836.3	75%	Low
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	555.5	13%	Low	1850.1	57%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2576.2	20%	Low	8862.8	32%	High
Parker Creek	22262.2	6240.5	1822.8	29%	254.7	14%	Low	826.4	55%	Moderate
Parsnip Creek	38600.6	19596.6	1028.0	5%	183.1	18%	Low	533.8	48%	High
Pine Creek south	19547.9	11943.3	6114.8	51%	392.1	6%	Low	1436.3	77%	Low
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	245.1	24%	Low	622.9	39%	High
Rose Canyon	18125.5	13713.9	1392.9	10%	158.1	11%	Low	577.7	59%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Ross Creek	12755.9	5190.5	2475.4	48%	537.8	22%	Low	1754.3	29%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1749.9	20%	Low	5414.0	38%	High
Sohonchin Spring	13229.0	12795.7	6164.5	48%	719.9	12%	Low	2417.6	61%	Moderate
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	261.1	20%	Low	891.2	32%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	226.0	22%	Low	643.7	37%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1925.8	21%	Low	5517.6	40%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	146.9	24%	Low	439.6	28%	High
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	0.0	0%	Low	0.0	100%	Low
Stone Coal Creek	29094.8	25094.9	3610.2	14%	646.6	18%	Low	2159.4	40%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	454.9	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	163.2	6%	Low	657.2	77%	Low
Tionesta	77495.1	66514.8	2304.1	3%	434.4	19%	Low	1417.5	38%	High
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	135.0	11%	Low	550.5	54%	Moderate
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.3	13%	Low	211.0	62%	Moderate
Upper Turner Creek	15941.5	14868.8	251.0	2%	48.4	19%	Low	157.2	37%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	10.6	2%	Low	73.8	89%	Low
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	438.5	9%	Low	1370.8	70%	Moderate
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.3	17%	Low	228.7	47%	High
Wagontire Creek	26475.3	11980.5	268.9	2%	63.8	24%	Low	186.6	31%	High
Washington Creek	21999.0	21789.9	377.5	2%	61.5	16%	Low	278.4	26%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	19.6	1%	Low	94.2	97%	Low
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	125.5	8%	Low	411.3	75%	Low
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1668.0	18%	Low	5899.7	35%	High
Willow Creek DH	38896.9	4421.5	363.7	8%	103.0	28%	Low	284.0	22%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	446.8	9%	Low	1665.5	65%	Moderate

Table L-3. Goshawk Habitat Influence Index And Security Index Rank And Ratings Where There Are At Least 200 Acres Of NFS Within The Watershed (HUC)—Alternative 3

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Ballard Reservoir	12852.6	2270.5	1046.9	46%	74.1	7%	Low	223.8	79%	Low
Bare Creek	33440.5	7599.1	2883.6	38%	317.3	11%	Low	1161.3	60%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1002.5	12%	Low	3581.3	57%	Moderate
Blacks Canyon	23132.0	14454.7	277.7	2%	53.7	19%	Low	176.4	36%	High
Canby-Pit River	38873.0	12359.7	767.8	6%	49.7	6%	Low	196.0	74%	Low
Corral Creek	16487.0	5304.0	429.3	8%	65.9	15%	Low	227.5	47%	High
Cottonwood Creek - North	25037.1	12896.4	8071.5	63%	1251.2	16%	Low	3774.1	53%	Moderate
Cottonwood Creek-South	16350.0	11917.6	3792.6	32%	648.7	17%	Low	2331.7	39%	High
Crooks Canyon	25109.4	3944.1	2109.9	53%	261.7	12%	Low	995.3	53%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1209.4	17%	Low	3990.0	43%	High
Dry Creek	28886.1	2403.3	603.6	25%	64.5	11%	Low	270.5	55%	Moderate
Eagle Creek	11360.2	5190.6	1518.2	29%	0.0	0%	Low	0.0	100%	Low
East Creek	29458.5	29035.7	6007.4	21%	809.3	13%	Low	2756.4	54%	Moderate
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	91.7	18%	Low	265.6	47%	High
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1119.0	17%	Low	3370.7	49%	High
Frog Waterhole	42760.7	37927.7	267.9	1%	52.1	19%	Low	158.2	41%	High
Gleason Creek	10621.3	1501.5	235.9	16%	12.4	5%	Low	34.2	85%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	401.9	15%	Low	1545.5	42%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	182.9	15%	Low	683.6	44%	High
Joseph Creek	12321.5	8231.6	4303.8	52%	510.2	12%	Low	1826.7	58%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	405.1	17%	Low	1412.5	42%	High
Lassen Creek	15654.3	12749.1	5600.3	44%	848.7	15%	Low	3055.3	45%	High
Lone Pine Butte	23296.6	23296.6	340.9	1%	79.5	23%	Low	230.4	32%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	513.1	18%	Low	1796.9	36%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	532.5	22%	Low	1591.9	33%	High
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	19.4	9%	Low	88.9	58%	Moderate
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	502.5	11%	Low	1700.6	64%	Moderate
Lower Willow Creek	26748.9	11200.8	570.8	5%	68.6	12%	Low	261.3	54%	Moderate
Messenger Gulch East	23977.2	8602.8	3138.2	36%	156.9	5%	Low	630.2	80%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	646.4	21%	Low	1969.5	37%	High
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	43.8	15%	Low	182.1	36%	High
Mill Creek	22288.0	19190.5	9778.6	51%	448.2	5%	Low	1398.0	86%	Low
Moon Lake	46904.6	4084.5	831.7	20%	45.9	6%	Low	205.7	75%	Low
Mud Lake	9119.1	5948.9	207.5	3%	42.1	20%	Low	126.1	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	500.0	7%	Low	1835.9	75%	Low
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	520.1	12%	Low	1761.8	60%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2454.7	19%	Low	8625.8	34%	High
Parker Creek	22262.2	6240.5	1822.8	29%	254.7	14%	Low	826.4	55%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Parsnip Creek	38600.6	19596.6	1028.0	5%	179.0	17%	Low	524.7	49%	High
Pine Creek South	19547.9	11943.3	6114.8	51%	392.1	6%	Low	1436.3	77%	Low
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	245.1	24%	Low	622.9	39%	High
Rose Canyon	18125.5	13713.9	1392.9	10%	158.1	11%	Low	577.7	59%	Moderate
Ross Creek	12755.9	5190.5	2475.4	48%	482.4	19%	Low	1614.5	35%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1749.9	20%	Low	5414.0	38%	High
Sohonchin Spring	13229.0	12795.7	6164.5	48%	708.9	11%	Low	2389.9	61%	Moderate
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	261.1	20%	Low	891.2	32%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	225.7	22%	Low	643.4	37%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1703.4	18%	Low	5103.3	45%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	146.9	24%	Low	439.6	28%	High
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	0.0	0%	Low	0.0	100%	Low
Stone Coal Creek	29094.8	25094.9	3610.2	14%	646.6	18%	Low	2159.4	40%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	453.4	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	163.2	6%	Low	657.2	77%	Low
Tionesta	77495.1	66514.8	2304.1	3%	395.5	17%	Low	1322.4	43%	High
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	135.0	11%	Low	550.5	54%	Moderate
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.3	13%	Low	211.0	62%	Moderate
Upper Turner Creek	15941.5	14868.8	251.0	2%	48.4	19%	Low	157.2	37%	High
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	10.6	2%	Low	73.8	89%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	349.6	8%	Low	1291.9	72%	Low
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.3	17%	Low	228.7	47%	High
Wagontire Creek	26475.3	11980.5	268.9	2%	63.8	24%	Low	186.6	31%	High
Washington Creek	21999.0	21789.9	377.5	2%	57.7	15%	Low	266.6	29%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	19.6	1%	Low	94.2	97%	Low
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	125.5	8%	Low	409.8	75%	Low
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1565.7	17%	Low	5658.6	38%	High
Willow Creek DH	38896.9	4421.5	363.7	8%	90.5	25%	Low	279.3	23%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	420.9	9%	Low	1607.1	66%	Moderate

Table L-4. Goshawk Habitat Influence Index And Security Index Rank And Ratings Where There Is At Least 200 Ac Of NFS Within The Watershed (HUC) Alternative 4

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Ballard Reservoir	12852.6	2270.5	1046.9	46%	74.1	7%	Low	223.8	79%	Low
Bare Creek	33440.5	7599.1	2883.6	38%	322.8	11%	Low	1177.8	59%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1065.0	13%	Low	3643.7	56%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Blacks Canyon	23132.0	14454.7	277.7	2%	53.7	19%	Low	176.7	36%	High
Canby-Pit River	38873.0	12359.7	767.8	6%	50.3	7%	Low	196.0	74%	Low
Corral Creek	16487.0	5304.0	429.3	8%	65.9	15%	Low	227.5	47%	High
Cottonwood Creek - South	16350.0	11917.6	3792.6	32%	815.8	22%	Low	2331.7	39%	High
Cottonwood Creek- North	25037.1	12896.4	8071.5	63%	1413.7	18%	Low	3802.0	53%	Moderate
Crooks Canyon	25109.4	3944.1	2109.9	53%	283.0	13%	Low	1065.0	50%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1250.2	18%	Low	4118.0	41%	High
Dry Creek	28886.1	2403.3	603.6	25%	66.7	11%	Low	277.5	54%	Moderate
Eagle Creek	11360.2	5190.6	1518.2	29%	0.0	0%	Low	0.0	100%	Low
East Creek	29458.5	29035.7	6007.4	21%	830.1	14%	Low	2791.8	54%	Moderate
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	91.7	18%	Low	265.6	47%	High
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1119.6	17%	Low	3370.7	49%	High
Frog Waterhole	42760.7	37927.7	267.9	1%	52.2	19%	Low	162.2	39%	High
Gleason Creek	10621.3	1501.5	235.9	16%	12.4	5%	Low	34.2	85%	Low
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	424.1	16%	Low	1601.5	40%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	182.9	15%	Low	683.6	44%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Joseph Creek	12321.5	8231.6	4303.8	52%	510.2	12%	Low	1826.7	58%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	411.8	17%	Low	1417.4	41%	High
Lassen Creek	15654.3	12749.1	5600.3	44%	942.1	17%	Low	3293.0	41%	High
Lone Pine Butte	23296.6	23296.6	340.9	1%	82.3	24%	Low	249.7	27%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	513.1	18%	Low	1796.9	36%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	532.5	22%	Low	1591.9	33%	High
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	19.4	9%	Low	88.9	58%	Moderate
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	523.5	11%	Low	1724.2	64%	Moderate
Lower Willow Creek	26748.9	11200.8	570.8	5%	68.6	12%	Low	261.3	54%	Moderate
Messenger Gulch East	11401.7	8602.8	3183.2	37%	157.1	5%	Low	630.2	80%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	676.3	22%	Low	1969.5	37%	High
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	44.0	16%	Low	182.1	36%	High
Mill Creek	22288.0	19190.5	9778.6	51%	448.2	5%	Low	1398.0	86%	Low
Moon Lake	46904.6	4084.5	831.7	20%	45.9	6%	Low	205.7	75%	Low
Mud Lake	9119.1	5948.9	207.5	3%	42.1	20%	Low	126.1	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	500.1	7%	Low	1836.3	75%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	550.0	13%	Low	1844.2	58%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2575.5	20%	Low	8862.8	32%	High
Parker Creek	22262.2	6240.5	1822.8	29%	254.7	14%	Low	826.4	55%	Moderate
Parsnip Creek	38600.6	19596.6	1028.0	5%	183.1	18%	Low	533.8	48%	High
Pine Creek south	19547.9	11943.3	6114.8	51%	392.1	6%	Low	1436.3	77%	Low
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	245.1	24%	Low	622.9	39%	High
Rose Canyon	18125.5	13713.9	1392.9	10%	158.1	11%	Low	577.7	59%	Moderate
Ross Creek	12755.9	5190.5	2475.4	48%	537.8	22%	Low	1754.3	29%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1749.9	20%	Low	5414.0	38%	High
Sohonchin Spring	13229.0	12795.7	6164.5	48%	719.9	12%	Low	2417.6	61%	Moderate
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	261.1	20%	Low	891.2	32%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	226.0	22%	Low	643.7	37%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1885.9	20%	Low	5436.7	41%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	146.9	24%	Low	439.6	28%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	0.0	0%	Low	0.0	100%	Low
Stone Coal Creek	29094.8	25094.9	3610.2	14%	646.6	18%	Low	2159.4	40%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	454.9	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	163.2	6%	Low	657.2	77%	Low
Tionesta	77495.1	66514.8	2304.1	3%	402.7	17%	Low	1329.9	42%	High
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	135.0	11%	Low	550.5	54%	Moderate
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.3	13%	Low	211.0	62%	Moderate
Upper Turner Creek	15941.5	14868.8	251.0	2%	48.4	19%	Low	157.2	37%	High
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	10.6	2%	Low	73.8	89%	Low
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	434.2	9%	Low	1362.1	71%	Low
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.3	17%	Low	228.7	47%	High
Wagontire Creek	26475.3	11980.5	268.9	2%	63.8	24%	Low	186.6	31%	High
Washington Creek	21999.0	21789.9	377.5	2%	59.3	16%	Low	272.4	28%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	19.6	1%	Low	94.2	97%	Low
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	125.5	8%	Low	409.8	75%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1664.9	18%	Low	5899.7	35%	High
Willow Creek DH	38896.9	4421.5	363.7	8%	103.0	28%	Low	284.0	22%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	437.0	9%	Low	1638.5	66%	Moderate

Appendix M: Goshawk Habitat II

Table M-1. Goshawk Habitat Influence Index And Security Index Rank And Ratings By Watershed (HUC) For Alternative 4

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Above Weed Valley Reservoir	33815.8	7912.3	60.2	1%	3.9	7%	Low	26.3	56%	Moderate
Antelope Reservoir	21849.9	21510.7	0.0							
Armentrout Flat	20083.0	3627.3	115.6	3%	22.4	19%	Low	77.0	33%	High
Badger Basin	34607.9	0.2	0.1	64%	0.0	0%	Low	0.0	95%	Low
Baker And Thomas Reservoirs	25280.6	24969.8	0.0							
Ballard Reservoir	12852.6	2270.5	1046.9	46%	74.1	7%	Low	223.8	79%	Low
Bare Creek	33440.5	7599.1	2883.6	38%	322.8	11%	Low	1177.8	59%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1065.0	13%	Low	3643.7	56%	Moderate
Big And Little Juniper Creeks	21384.9	1947.1	0.0	0%						
Big Sage Reservoir	25584.6	24600.3	0.0	0%						
Big Swamp	30138.3	2214.6	75.5	3%	0.0	0%	Low	0.8	99%	Low
Blacks Canyon	23132.0	14454.7	277.7	2%	53.7	19%	Low	176.7	36%	High
Boles Meadow	26436.8	25317.5	0.0	0%						
Butte Creek	24861.6	4262.5	52.8	1%	0.2	0%	Low	8.4	84%	Low
Canby-Pit River	38873.0	12359.7	767.8	6%	50.3	7%	Low	196.0	74%	Low
Clarks Valley	10505.3	1347.6	0.0	0%						

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Clear Lake Inflow Northwest	57800.1	30184.4	0.0	0%						
Clear Lake Inflow South	28788.8	27795.1	4.1	0%	0.0	0%	Low	2.5	38%	High
Copic	17513.1	1109.8	0.0	0%						
Corral Creek	16487.0	5304.0	429.3	8%	65.9	15%	Low	227.5	47%	High
Cottonwood Creek - South	16350.0	11917.6	3792.6	32%	815.8	22%	Low	2331.7	39%	High
Cottonwood Creek- North	25037.1	12896.4	8071.5	63%	1413.7	18%	Low	3802.0	53%	Moderate
Crooks Canyon	25109.4	3944.1	2109.9	53%	283.0	13%	Low	1065.0	50%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1250.2	18%	Low	4118.0	41%	High
Delta Lake	19024.5	1130.9	198.7	18%	1.6	1%	Low	19.3	90%	Low
Dobe Swale	14554.1	7931.0	3.6	0%	1.6	44%	Moderate	3.6	0%	High
Double Head Mountain	35306.3	33297.2	0.0	0%						
Dry Creek	28886.1	2403.3	603.6	25%	66.7	11%	Low	277.5	54%	Moderate
Eagle Creek	11360.2	5190.6	1518.2	29%	0.0	0%	Low	0.0	100%	Low
East Branch Lost River	17249.0	3712.1	0.0	0%						
East Creek	29458.5	29035.7	6007.4	21%	830.1	14%	Low	2791.8	54%	Moderate
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	91.7	18%	Low	265.6	47%	High
East Tule Lake Valley	45783.3		0.0							
Egg Lake	20200.5	5024.6	23.1	0%	2.9	13%	Low	10.1	56%	Moderate
Fairchild Swamp	18700.9	18700.9	8.2	0%	0.5	7%	Low	3.2	61%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1119.6	17%	Low	3370.7	49%	High
Frog Waterhole	42760.7	37927.7	267.9	1%	52.2	19%	Low	162.2	39%	High
Gleason Creek	10621.3	1501.5	235.9	16%	12.4	5%	Low	34.2	85%	Low
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	424.1	16%	Low	1601.5	40%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	182.9	15%	Low	683.6	44%	High
Ingall Swamp	19565.1	18496.6	0.0	0%						
Jim Creek	16455.2	1476.0	86.5	6%	41.7	48%	Moderate	72.3	16%	High
Jim Horn Ranch	11225.8	1953.4	0.0	0%						
Joseph Creek	12321.5	8231.6	4303.8	52%	510.2	12%	Low	1826.7	58%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	411.8	17%	Low	1417.4	41%	High
Knobcone Butte	24308.1	23740.8	41.0	0%	4.5	11%	Low	19.2	53%	Moderate
Laird Landing	21728.6	9695.4	4.3	0%	0.0	0%	Low	0.0	100%	Low
Lake Annie	13828.9	2764.9	106.7	4%	5.1	5%	Low	29.5	72%	Low
Lassen Creek	15654.3	12749.	5600.3	44%	942.1	17%	Low	3293.0	41%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
		1								
Little Willow Creek	14137.6	14137.6	5.4	0%	0.0	0%	Low	1.9	65%	Moderate
Logan Slough	37400.2	37174.0	0.0	0%						
Lone Pine Butte	23296.6	23296.6	340.9	1%	82.3	24%	Low	249.7	27%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	513.1	18%	Low	1796.9	36%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	532.5	22%	Low	1591.9	33%	High
Lower Boles Creek	18618.9	18167.4	0.0	0%						
Lower Clover Swale Creek	21268.8	9988.9	0.0	0%						
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	19.4	9%	Low	88.9	58%	Moderate
Lower Juniper Creek	12008.4	4783.8	167.5	4%	28.0	17%	Low	105.4	37%	High
Lower North Fork Pit River	14755.2	6714.9	0.0	0%						
Lower North Fork Willow Creek	25207.5	24565.4	28.1	0%	9.3	33%	Moderate	21.3	24%	High
Lower Rattlesnake Creek	16275.2	6124.1	0.0	0%						
Lower Warm Springs Valley	17963.2	239.2	0.0	0%						
Lower West Shore Goose Lake	37205.9	27165.0	105.0	0%	4.6	4%	Low	19.8	81%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
		4								
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	523.5	11%	Low	1724.2	64%	Moderate
Lower Willow Creek	26748.9	11200.8	570.8	5%	68.6	12%	Low	261.3	54%	Moderate
Messenger Gulch East	11401.7	8602.8	3183.2	37%	157.1	5%	Low	630.2	80%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	676.3	22%	Low	1969.5	37%	High
Middle Ash Creek	13389.5	1802.4	6.3	0%	0.0	0%	Low	0.0	100%	Low
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	44.0	16%	Low	182.1	36%	High
Mill Creek	22288.0	19190.5	9778.6	51%	448.2	5%	Low	1398.0	86%	Low
Moon Lake	46904.6	4084.5	831.7	20%	45.9	6%	Low	205.7	75%	Low
Mosquito Creek-Bayley Tank	24712.7	16429.9	116.4	1%	13.7	12%	Low	57.6	51%	Moderate
Mowitz Creek	56660.1	49739.1	67.0	0%	13.9	21%	Low	52.5	22%	High
Mud Lake	9119.1	5948.9	207.5	3%	42.1	20%	Low	126.1	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	500.1	7%	Low	1836.3	75%	Low
North Of Horse Mountain	18038.2		0.0							
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	550.0	13%	Low	1844.2	58%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2575.5	20%	Low	8862.8	32%	High
Parker Creek	22262.2	6240.5	1822.8	29%	254.7	14%	Low	826.4	55%	Moderate
Parsnip Creek	38600.6	19596.6	1028.0	5%	183.1	18%	Low	533.8	48%	High
Pine Creek	23614.0	53.2	19.2	36%	0.0	0%	Low	0.0	100%	Low
Pine Creek south	19547.9	11943.3	6114.8	51%	392.1	6%	Low	1436.3	77%	Low
Pothole Valley	14309.8	13836.4	4.6	0%	1.4	30%	Moderat	4.6	0%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
		3					e			
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate
Rimrock Lake	14873.4	14873.4	0.0	0%						
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	245.1	24%	Low	622.9	39%	High
Rock Creek	45912.5	25091.3	0.2	0%	0.0	0%	Low	0.0	100%	Low
Rose Canyon	18125.5	13713.9	1392.9	10%	158.1	11%	Low	577.7	59%	Moderate
Ross Creek	12755.9	5190.5	2475.4	48%	537.8	22%	Low	1754.3	29%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1749.9	20%	Low	5414.0	38%	High
Said Valley Reservoir	13108.8	3489.5	9.5	0%	0.0	0%	Low	3.9	59%	Moderate
Service Gulch	18142.2	2729.6	144.9	5%	22.6	16%	Low	83.6	42%	High
Sheep Camp	31128.3	25256.6	0.0	0%						
Sohonchin Spring	13229.0	12795.7	6164.5	48%	719.9	12%	Low	2417.6	61%	Moderate
South Big Swamp	16003.7	3110.1	115.5	4%	23.9	21%	Low	80.2	31%	High
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	261.1	20%	Low	891.2	32%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	226.0	22%	Low	643.7	37%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1885.9	20%	Low	5436.7	41%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	146.9	24%	Low	439.6	28%	High
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	0.0	0%	Low	0.0	100%	Low
Spaulding Butte	30032.1	29123.0	4.7	0%	0.0	0%	Low	0.0	100%	Low
Spooner Trough Canyon	15242.2	197.1	0.0	0%						
Steele Swamp	16340.4	13486.5	158.2	1%	20.6	13%	Low	92.2	42%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Stone Coal Creek	29094.8	25094.9	3610.2	14%	646.6	18%	Low	2159.4	40%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	454.9	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	163.2	6%	Low	657.2	77%	Low
Tionesta	77495.1	66514.8	2304.1	3%	402.7	17%	Low	1329.9	42%	High
Upper Ash Valley	34892.9	7022.4	70.1	1%	8.9	13%	Low	35.3	50%	Moderate
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	135.0	11%	Low	550.5	54%	Moderate
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.3	13%	Low	211.0	62%	Moderate
Upper Fletcher Creek	11239.4	11205.6	4.1	0%	0.0	0%	Low	0.0	100%	Low
Upper Lost River	31724.4		0.0							
Upper Lost River Frontal	16716.6	14139.3	0.0							
Upper Turner Creek	15941.5	14868.8	251.0	2%	48.4	19%	Low	157.2	37%	High
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	10.6	2%	Low	73.8	89%	Low
Upper Warm Springs Valley	26074.7	7425.9	0.0							
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	434.2	9%	Low	1362.1	71%	Low
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.3	17%	Low	228.7	47%	High
Van Sickle Lake	37251.5	4344.5	0.0	0%						
Wagontire Creek	26475.3	11980.5	268.9	2%	63.8	24%	Low	186.6	31%	High
Warm Creek	27773.8	8806.2	21.9	0%	7.6	35%	Moderate	16.7	24%	High
Washington Creek	21999.0	21789.9	377.5	2%	59.3	16%	Low	272.4	28%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	19.6	1%	Low	94.2	97%	Low
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	125.5	8%	Low	409.8	75%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1664.9	18%	Low	5899.7	35%	High
Wild Horse Creek	17140.2	9775.5	63.7	1%	0.7	1%	Low	34.1	47%	High
Wiley Ranch	45208.7		0.0							
Willow Creek DH	38896.9	4421.5	363.7	8%	103.0	28%	Low	284.0	22%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	437.0	9%	Low	1638.5	66%	Moderate

Table M-2. Goshawk Habitat Influence Index and Security Index Rank and Ratings by Watershed (HUC) for Alternatives 2 and 5

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Above Weed Valley Reservoir	33815.8	7912.3	60.2	1%	6.7	11%	Low	30.3	50%	Moderate
Antelope Reservoir	21849.9	21510.7	0.0							
Armentrout Flat	20083.0	3627.3	115.6	3%	22.4	19%	Low	77.0	33%	High
Badger Basin	34607.9	0.2	0.1	64%	0.0	0%	Low	0.0	95%	Low
Baker And Thomas Reservoirs	25280.6	24969.8	0.0							
Ballard Reservoir	12852.6	2270.5	1046.9	46%	74.1	7%	Low	223.8	79%	Low
Bare Creek	33440.5	7599.1	2883.6	38%	322.8	11%	Low	1177.8	59%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1084.1	13%	Low	3696.4	55%	Moderate
Big And Little Juniper Creeks	21384.9	1947.1	0.0	0%						
Big Sage Reservoir	25584.6	24600.3	0.0	0%						

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Big Swamp	30138.3	2214.6	75.5	3%	0.0	0%	Low	0.8	99%	Low
Blacks Canyon	23132.0	14454.7	277.7	2%	53.8	19%	Low	180.1	35%	High
Boles Meadow	26436.8	25317.5	0.0	0%						
Butte Creek	24861.6	4262.5	52.8	1%	0.2	0%	Low	8.4	84%	Low
Canby-Pit River	38873.0	12359.7	767.8	6%	50.3	7%	Low	196.0	74%	Low
Clarks Valley	10505.3	1347.6	0.0	0%						
Clear Lake Inflow Northwest	57800.1	30184.4	0.0	0%						
Clear Lake Inflow South	28788.8	27795.1	4.1	0%	0.0	0%	Low	2.5	38%	High
Copic	17513.1	1109.8	0.0	0%						
Corral Creek	16487.0	5304.0	429.3	8%	65.9	15%	Low	227.5	47%	High
Cottonwood Creek N	25307.1	12896.4	8071.5	63%	1315.8	16%	Low	3802.6	53%	Moderate
Cottonwood Creek S	16350.0	11917.6	3792.6	32%	649.9	17%	Low	2331.7	39%	High
Crooks Canyon	25109.4	3944.1	2109.9	53%	283.0	13%	Low	1065.0	50%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1250.2	18%	Low	4119.0	41%	High
Delta Lake	19024.5	1130.9	198.7	18%	1.6	1%	Low	19.3	90%	Low
Dobe Swale	14554.1	7931.0	3.6	0%	1.6	44%	Moderate	3.6	0%	High
Double Head Mountain	35306.3	33297.2	0.0	0%						
Dry Creek	28886.1	2403.3	603.6	25%	66.7	11%	Low	277.5	54%	Moderate
Eagle Creek	11360.2	5190.6	1518.2	29%	0.0	0%	Low	0.0	100%	Low
East Branch Lost River	17249.0	3712.1	0.0	0%						
East Creek	29458.5	29035.7	6007.4	21%	830.1	14%	Low	2791.8	54%	Moderate
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	91.7	18%	Low	265.6	47%	High
East Tule Lake Valley	45783.3		0.0							
Egg Lake	20200.5	5024.6	23.1	0%	2.9	13%	Low	10.1	56%	Moderate
Fairchild Swamp	18700.9	18700.9	8.2	0%	0.5	7%	Low	3.2	61%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1119.6	17%	Low	3370.7	49%	High
Frog Waterhole	42760.7	37927.7	267.9	1%	52.2	19%	Low	162.2	39%	High
Gleason Creek	10621.3	1501.5	235.9	16%	12.4	5%	Low	34.2	85%	Low
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	424.1	16%	Low	1601.5	40%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	182.9	15%	Low	683.6	44%	High
Ingall Swamp	19565.1	18496.6	0.0	0%						
Jim Creek	16455.2	1476.0	86.5	6%	41.7	48%	Moderate	72.3	16%	High
Jim Horn Ranch	11225.8	1953.4	0.0	0%						
Joseph Creek	12321.5	8231.6	4303.8	52%	510.2	12%	Low	1826.7	58%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	419.3	17%	Low	1445.3	40%	High
Knobcone Butte	24308.1	23740.8	41.0	0%	6.0	15%	Low	28.5	31%	High
Laird Landing	21728.6	9695.4	4.3	0%	0.0	0%	Low	0.0	100%	Low
Lake Annie	13828.9	2764.9	106.7	4%	5.1	5%	Low	29.5	72%	Low
Lassen Creek	15654.3	12749.1	5600.3	44%	950.4	17%	Low	3317.0	41%	High
Little Willow Creek	14137.6	14137.6	5.4	0%	0.0	0%	Low	1.9	65%	Moderate
Logan Slough	37400.2	37174.0	0.0	0%						
Lone Pine Butte	23296.6	23296.6	340.9	1%	82.3	24%	Low	249.7	27%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	513.1	18%	Low	1796.9	36%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	532.5	22%	Low	1591.9	33%	High
Lower Boles Creek	18618.9	18167.4	0.0	0%						
Lower Clover Swale Creek	21268.8	9988.9	0.0	0%						
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	19.4	9%	Low	88.9	58%	Moderate
Lower Juniper Creek	12008.4	4783.8	167.5	4%	28.0	17%	Low	105.4	37%	High
Lower North Fork Pit River	14755.2	6714.9	0.0	0%						
Lower North Fork Willow Creek	25207.5	24565.4	28.1	0%	9.3	33%	Moderate	21.3	24%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Lower Rattlesnake Creek	16275.2	6124.1	0.0	0%						
Lower Warm Springs Valley	17963.2	239.2	0.0	0%						
Lower West Shore Goose Lake	37205.9	27165.4	105.0	0%	4.6	4%	Low	19.8	81%	Low
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	556.0	12%	Low	1827.5	62%	Moderate
Lower Willow Creek	26748.9	11200.8	570.8	5%	68.6	12%	Low	261.3	54%	Moderate
Messenger Gulch East	11401.7	8602.8	3183.2	37%	156.9	5%	Low	630.2	80%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	646.4	21%	Low	1969.5	37%	High
Middle Ash Creek	13389.5	1802.4	6.3	0%	0	0%	Low	0.0	100%	Low
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	44.0	16%	Low	182.1	36%	High
Mill Creek	22288.0	19190.5	9778.6	51%	448.2	5%	Low	1398.0	86%	Low
Moon Lake	46904.6	4084.5	831.7	20%	45.9	6%	Low	205.7	75%	Low
Mosquito Creek-Bayley Tank	24712.7	16429.9	116.4	1%	13.7	12%	Low	57.6	51%	Moderate
Mowitz Creek	56660.1	49739.1	67.0	0%	13.9	21%	Low	52.5	22%	High
Mud Lake	9119.1	5948.9	207.5	3%	42.1	20%	Low	126.1	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	500.1	7%	Low	1836.3	75%	Low
North Of Horse Mountain	18038.2		0.0							
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	555.5	13%	Low	1850.1	57%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2576.2	20%	Low	8862.8	32%	High
Parker Creek	22262.2	6240.5	1822.8	29%	254.7	14%	Low	826.4	55%	Moderate
Parsnip Creek	38600.6	19596.6	1028.0	5%	183.1	18%	Low	533.8	48%	High
Pine Creek	23614.0	53.2	19.2	36%	0.0	0%	Low	0.0	100%	Low
Pine Creek south	19547.9	11943.3	6114.8	51%	392.1	6%	Low	1436.3	77%	Low
Pothole Valley	14309.8	13836.3	4.6	0%	1.4	30%	Moderate	4.6	0%	High
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Rimrock Lake	14873.4	14873.4	0.0	0%						
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	245.1	24%	Low	622.9	39%	High
Rock Creek	45912.5	25091.3	0.2	0%	0.0	0%	Low	0.0	100%	Low
Rose Canyon	18125.5	13713.9	1392.9	10%	158.1	11%	Low	577.7	59%	Moderate
Ross Creek	12755.9	5190.5	2475.4	48%	537.8	22%	Low	1754.3	29%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1749.9	20%	Low	5414.0	38%	High
Said Valley Reservoir	13108.8	3489.5	9.5	0%	0.0	0%	Low	3.9	59%	Moderate
Service Gulch	18142.2	2729.6	144.9	5%	22.6	16%	Low	83.6	42%	High
Sheep Camp	31128.3	25256.6	0.0	0%						
Sohonchin Spring	13229.0	12795.7	6164.5	48%	719.9	12%	Low	2417.6	61%	Moderate
South Big Swamp	16003.7	3110.1	115.5	4%	23.9	21%	Low	80.2	31%	High
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	261.1	20%	Low	891.2	32%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	226.0	22%	Low	643.7	37%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1925.8	21%	Low	5517.6	40%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	146.9	24%	Low	439.6	28%	High
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	0.0	0%	Low	0.0	100%	Low
Spaulding Butte	30032.1	29123.0	4.7	0%	0.0	0%	Low	0.0	100%	Low
Spooner Trough Canyon	15242.2	197.1	0.0	0%						
Steele Swamp	16340.4	13486.5	158.2	1%	20.6	13%	Low	93.0	41%	High
Stone Coal Creek	29094.8	25094.9	3610.2	14%	646.6	18%	Low	2159.4	40%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	454.9	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	163.2	6%	Low	657.2	77%	Low
Tionesta	77495.1	66514.8	2304.1	3%	434.4	19%	Low	1417.5	38%	High
Upper Ash Valley	34892.9	7022.4	70.1	1%	8.9	13%	Low	35.3	50%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	135.0	11%	Low	550.5	54%	Moderate
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.3	13%	Low	211.0	62%	Moderate
Upper Fletcher Creek	11239.4	11205.6	4.1	0%	0.0	0%	Low	0.0	100%	Low
Upper Lost River	31724.4		0.0							
Upper Lost River Frontal	16716.6	14139.3	0.0							
Upper Turner Creek	15941.5	14868.8	251.0	2%	48.4	19%	Low	157.2	37%	High
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	10.6	2%	Low	73.8	89%	Low
Upper Warm Springs Valley	26074.7	7425.9	0.0							
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	438.5	9%	Low	1370.8	70%	Moderate
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.3	17%	Low	228.7	47%	High
Van Sickle Lake	37251.5	4344.5	0.0	0%						
Wagontire Creek	26475.3	11980.5	268.9	2%	63.8	24%	Low	186.6	31%	High
Warm Creek	27773.8	8806.2	21.9	0%	7.6	35%	Moderate	16.7	24%	High
Washington Creek	21999.0	21789.9	377.5	2%	61.5	16%	Low	278.4	26%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	19.6	1%	Low	94.2	97%	Low
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	125.5	8%	Low	411.3	75%	Low
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1668.0	18%	Low	5899.7	35%	High
Wild Horse Creek	17140.2	9775.5	63.7	1%	0.7	1%	Low	34.1	47%	High
Wiley Ranch	45208.7		0.0							
Willow Creek DH	38896.9	4421.5	363.7	8%	103.0	28%	Low	284.0	22%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	446.8	9%	Low	1665.5	65%	Moderate

Table M-3. Goshawk Habitat Influence Index and Security Index Rank and Ratings by Watershed (HUC) for Alternative 3

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Above Weed Valley Reservoir	33815.8	7912.3	60.2	1%	3.9	7%	Low	26.1	57%	Moderate
Antelope Reservoir	21849.9	21510.7	0.0							
Armentrout Flat	20083.0	3627.3	115.6	3%	22.4	19%	Low	77.0	33%	High
Badger Basin	34607.9	0.2	0.1	64%	0.0	0%	Low	0.0	95%	Low
Baker And Thomas Reservoirs	25280.6	24969.8	0.0							
Ballard Reservoir	12852.6	2270.5	1046.9	46%	74.1	7%	Low	223.8	79%	Low
Bare Creek	33440.5	7599.1	2883.6	38%	317.3	11%	Low	1161.3	60%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1002.5	12%	Low	3581.3	57%	Moderate
Big And Little Juniper Creeks	21384.9	1947.1	0.0	0%						
Big Sage Reservoir	25584.6	24600.3	0.0	0%						
Big Swamp	30138.3	2214.6	75.5	3%	0.0	0%	Low	0.8	99%	Low
Blacks Canyon	23132.0	14454.7	277.7	2%	53.7	19%	Low	176.4	36%	High
Boles Meadow	26436.8	25317.5	0.0	0%						
Butte Creek	24861.6	4262.5	52.8	1%	0.2	0%	Low	8.4	84%	Low
Canby-Pit River	38873.0	12359.7	767.8	6%	49.7	6%	Low	196.0	74%	Low
Clarks Valley	10505.3	1347.6	0.0	0%						
Clear Lake Inflow Northwest	57800.1	30184.4	0.0	0%						
Clear Lake Inflow South	28788.8	27795.1	4.1	0%	0.0	0%	Low	2.5	38%	High
Copic	17513.1	1109.8	0.0	0%						

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Corral Creek	16487.0	5304.0	429.3	8%	65.9	15%	Low	227.5	47%	High
Cottonwood Creek - North	25037.1	12896.4	8071.5	63%	1251.2	16%	Low	3774.1	53%	Moderate
Cottonwood Creek-South	16350.0	11917.6	3792.6	32%	648.7	17%	Low	2331.7	39%	High
Crooks Canyon	25109.4	3944.1	2109.9	53%	261.7	12%	Low	995.3	53%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1209.4	17%	Low	3990.0	43%	High
Delta Lake	19024.5	1130.9	198.7	18%	1.6	1%	Low	19.3	90%	Low
Dobe Swale	14554.1	7931.0	3.6	0%	1.6	44%	Moderate	3.6	0%	High
Double Head Mountain	35306.3	33297.2	0.0	0%						
Dry Creek	28886.1	2403.3	603.6	25%	64.5	11%	Low	270.5	55%	Moderate
Eagle Creek	11360.2	5190.6	1518.2	29%	0.0	0%	Low	0.0	100%	Low
East Branch Lost River	17249.0	3712.1	0.0	0%						
East Creek	29458.5	29035.7	6007.4	21%	809.3	13%	Low	2756.4	54%	Moderate
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	91.7	18%	Low	265.6	47%	High
East Tule Lake Valley	45783.3		0.0							
Egg Lake	20200.5	5024.6	23.1	0%	2.9	13%	Low	10.1	56%	Moderate
Fairchild Swamp	18700.9	18700.9	8.2	0%	0.5	7%	Low	3.2	61%	Moderate
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1119.0	17%	Low	3370.7	49%	High
Frog Waterhole	42760.7	37927.7	267.9	1%	52.1	19%	Low	158.2	41%	High
Gleason Creek	10621.3	1501.5	235.9	16%	12.4	5%	Low	34.2	85%	Low
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	401.9	15%	Low	1545.5	42%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	182.9	15%	Low	683.6	44%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Ingall Swamp	19565.1	18496.6	0.0	0%						
Jim Creek	16455.2	1476.0	86.5	6%	41.7	48%	Moderate	72.3	16%	High
Jim Horn Ranch	11225.8	1953.4	0.0	0%						
Joseph Creek	12321.5	8231.6	4303.8	52%	510.2	12%	Low	1826.7	58%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	405.1	17%	Low	1412.5	42%	High
Knobcone Butte	24308.1	23740.8	41.0	0%	4.5	11%	Low	19.2	53%	Moderate
Laird Landing	21728.6	9695.4	4.3	0%	0.0	0%	Low	0.0	100%	Low
Lake Annie	13828.9	2764.9	106.7	4%	5.1	5%	Low	29.5	72%	Low
Lassen Creek	15654.3	12749.1	5600.3	44%	848.7	15%	Low	3055.3	45%	High
Little Willow Creek	14137.6	14137.6	5.4	0%	0.0	0%	Low	1.9	65%	Moderate
Logan Slough	37400.2	37174.0	0.0	0%						
Lone Pine Butte	23296.6	23296.6	340.9	1%	79.5	23%	Low	230.4	32%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	513.1	18%	Low	1796.9	36%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	532.5	22%	Low	1591.9	33%	High
Lower Boles Creek	18618.9	18167.4	0.0	0%						
Lower Clover Swale Creek	21268.8	9988.9	0.0	0%						
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	19.4	9%	Low	88.9	58%	Moderate
Lower Juniper Creek	12008.4	4783.8	167.5	4%	28.0	17%	Low	105.4	37%	High
Lower North Fork Pit River	14755.2	6714.9	0.0	0%						
Lower North Fork Willow Creek	25207.5	24565.4	28.1	0%	9.3	33%	Moderate	16.1	43%	High
Lower Rattlesnake Creek	16275.2	6124.1	0.0	0%						

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Lower Warm Springs Valley	17963.2	239.2	0.0	0%						
Lower West Shore Goose Lake	37205.9	27165.4	105.0	0%	4.5	4%	Low	15.2	85%	Low
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	502.5	11%	Low	1700.6	64%	Moderate
Lower Willow Creek	26748.9	11200.8	570.8	5%	68.6	12%	Low	261.3	54%	Moderate
Messenger Gulch East	23977.2	8602.8	3138.2	36%	156.9	5%	Low	630.2	80%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	646.4	21%	Low	1969.5	37%	High
Middle Ash Creek	13389.5	1802.4	6.3	0%	0.0	0%	Low	0.0	100%	Low
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	43.8	15%	Low	182.1	36%	High
Mill Creek	22288.0	19190.5	9778.6	51%	448.2	5%	Low	1398.0	86%	Low
Moon Lake	46904.6	4084.5	831.7	20%	45.9	6%	Low	205.7	75%	Low
Mosquito Creek-Bayley Tank	24712.7	16429.9	116.4	1%	13.5	12%	Low	53.2	54%	Moderate
Mowitz Creek	56660.1	49739.1	67.0	0%	13.9	21%	Low	52.5	22%	High
Mud Lake	9119.1	5948.9	207.5	3%	42.1	20%	Low	126.1	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	500.0	7%	Low	1835.9	75%	Low
North Of Horse Mountain	18038.2		0.0							
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	520.1	12%	Low	1761.8	60%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2454.7	19%	Low	8625.8	34%	High
Parker Creek	22262.2	6240.5	1822.8	29%	254.7	14%	Low	826.4	55%	Moderate
Parsnip Creek	38600.6	19596.6	1028.0	5%	179.0	17%	Low	524.7	49%	High
Pine Creek	23614.0	53.2	19.2	36%	0.0	0%	Low	0.0	100%	Low
Pine Creek South	19547.9	11943.3	6114.8	51%	392.1	6%	Low	1436.3	77%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Pothole Valley	14309.8	13836.3	4.6	0%	1.4	30%	Moderate	4.6	0%	High
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate
Rimrock Lake	14873.4	14873.4	0.0	0%						
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	245.1	24%	Low	622.9	39%	High
Rock Creek	45912.5	25091.3	0.2	0%	0.0	0%	Low	0.0	100%	Low
Rose Canyon	18125.5	13713.9	1392.9	10%	158.1	11%	Low	577.7	59%	Moderate
Ross Creek	12755.9	5190.5	2475.4	48%	482.4	19%	Low	1614.5	35%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1749.9	20%	Low	5414.0	38%	High
Said Valley Reservoir	13108.8	3489.5	9.5	0%	0.0	0%	Low	3.9	59%	Moderate
Service Gulch	18142.2	2729.6	144.9	5%	22.6	16%	Low	83.6	42%	High
Sheep Camp	31128.3	25256.6	0.0	0%						
Sohonchin Spring	13229.0	12795.7	6164.5	48%	708.9	11%	Low	2389.9	61%	Moderate
South Big Swamp	16003.7	3110.1	115.5	4%	23.9	21%	Low	80.2	31%	High
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	261.1	20%	Low	891.2	32%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	225.7	22%	Low	643.4	37%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1703.4	18%	Low	5103.3	45%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	146.9	24%	Low	439.6	28%	High
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	0.0	0%	Low	0.0	100%	Low
Spaulding Butte	30032.1	29123.0	4.7	0%	0.0	0%	Low	0.0	100%	Low
Spooner Trough Canyon	15242.2	197.1	0.0	0%						
Steele Swamp	16340.4	13486.5	158.2	1%	20.6	13%	Low	92.2	42%	High

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Stone Coal Creek	29094.8	25094.9	3610.2	14%	646.6	18%	Low	2159.4	40%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	453.4	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	163.2	6%	Low	657.2	77%	Low
Tionesta	77495.1	66514.8	2304.1	3%	395.5	17%	Low	1322.4	43%	High
Upper Ash Valley	34892.9	7022.4	70.1	1%	8.9	13%	Low	35.3	50%	Moderate
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	135.0	11%	Low	550.5	54%	Moderate
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.3	13%	Low	211.0	62%	Moderate
Upper Fletcher Creek	11239.4	11205.6	4.1	0%	0.0	0%	Low	0.0	100%	Low
Upper Lost River	31724.4		0.0							
Upper Lost River Frontal	16716.6	14139.3	0.0							
Upper Turner Creek	15941.5	14868.8	251.0	2%	48.4	19%	Low	157.2	37%	High
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	10.6	2%	Low	73.8	89%	Low
Upper Warm Springs Valley	26074.7	7425.9	0.0							
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	349.6	8%	Low	1291.9	72%	Low
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.3	17%	Low	228.7	47%	High
Van Sickle Lake	37251.5	4344.5	0.0	0%						
Wagontire Creek	26475.3	11980.5	268.9	2%	63.8	24%	Low	186.6	31%	High
Warm Creek	27773.8	8806.2	21.9	0%	7.6	35%	Moderate	16.7	24%	High
Washington Creek	21999.0	21789.9	377.5	2%	57.7	15%	Low	266.6	29%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	19.6	1%	Low	94.2	97%	Low
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	125.5	8%	Low	409.8	75%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1565.7	17%	Low	5658.6	38%	High
Wild Horse Creek	17140.2	9775.5	63.7	1%	0.7	1%	Low	34.1	47%	High
Wiley Ranch	45208.7		0.0							
Willow Creek DH	38896.9	4421.5	363.7	8%	90.5	25%	Low	279.3	23%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	420.9	9%	Low	1607.1	66%	Moderate

Table M-4. Goshawk Habitat Influence Index and Security Index Rank and Ratings by watershed (HUC) for Alternative 4

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Above Weed Valley Reservoir	33815.8	7912.3	60.2	1%	3.9	7%	Low	26.3	56%	Moderate
Antelope Reservoir	21849.9	21510.7	0.0							
Armentrout Flat	20083.0	3627.3	115.6	3%	22.4	19%	Low	77.0	33%	High
Badger Basin	34607.9	0.2	0.1	64%	0.0	0%	Low	0.0	95%	Low
Baker And Thomas Reservoirs	25280.6	24969.8	0.0							
Ballard Reservoir	12852.6	2270.5	1046.9	46%	74.1	7%	Low	223.8	79%	Low
Bare Creek	33440.5	7599.1	2883.6	38%	322.8	11%	Low	1177.8	59%	Moderate
Bidwell Creek	19501.8	14596.8	8284.8	57%	1065.0	13%	Low	3643.7	56%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Big And Little Juniper Creeks	21384.9	1947.1	0.0	0%						
Big Sage Reservoir	25584.6	24600.3	0.0	0%						
Big Swamp	30138.3	2214.6	75.5	3%	0.0	0%	Low	0.8	99%	Low
Blacks Canyon	23132.0	14454.7	277.7	2%	53.7	19%	Low	176.7	36%	High
Boles Meadow	26436.8	25317.5	0.0	0%						
Butte Creek	24861.6	4262.5	52.8	1%	0.2	0%	Low	8.4	84%	Low
Canby-Pit River	38873.0	12359.7	767.8	6%	50.3	7%	Low	196.0	74%	Low
Clarks Valley	10505.3	1347.6	0.0	0%						
Clear Lake Inflow Northwest	57800.1	30184.4	0.0	0%						
Clear Lake Inflow South	28788.8	27795.1	4.1	0%	0.0	0%	Low	2.5	38%	High
Copic	17513.1	1109.8	0.0	0%						
Corral Creek	16487.0	5304.0	429.3	8%	65.9	15%	Low	227.5	47%	High
Cottonwood Creek - South	16350.0	11917.6	3792.6	32%	815.8	22%	Low	2331.7	39%	High
Cottonwood Creek- North	25037.1	12896.4	8071.5	63%	1413.7	18%	Low	3802.0	53%	Moderate
Crooks Canyon	25109.4	3944.1	2109.9	53%	283.0	13%	Low	1065.0	50%	Moderate
Davis Creek	21933.7	12159.8	7010.9	58%	1250.2	18%	Low	4118.0	41%	High
Delta Lake	19024.5	1130.9	198.7	18%	1.6	1%	Low	19.3	90%	Low
Dobe Swale	14554.1	7931.0	3.6	0%	1.6	44%	Moderate	3.6	0%	High
Double Head Mountain	35306.3	33297.2	0.0	0%						
Dry Creek	28886.1	2403.3	603.6	25%	66.7	11%	Low	277.5	54%	Moderate
Eagle Creek	11360.2	5190.6	1518.2	29%	0.0	0%	Low	0.0	100%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
East Branch Lost River	17249.0	3712.1	0.0	0%						
East Creek	29458.5	29035.7	6007.4	21%	830.1	14%	Low	2791.8	54%	Moderate
East Fork Juniper Creek	24313.0	10371.6	496.5	5%	91.7	18%	Low	265.6	47%	High
East Tule Lake Valley	45783.3		0.0							
Egg Lake	20200.5	5024.6	23.1	0%	2.9	13%	Low	10.1	56%	Moderate
Fairchild Swamp	18700.9	18700.9	8.2	0%	0.5	7%	Low	3.2	61%	Moderate
Fitzhugh Creek	24606.2	13146.2	6611.1	50%	1119.6	17%	Low	3370.7	49%	High
Frog Waterhole	42760.7	37927.7	267.9	1%	52.2	19%	Low	162.2	39%	High
Gleason Creek	10621.3	1501.5	235.9	16%	12.4	5%	Low	34.2	85%	Low
Headwaters North Fork Pit River	26218.3	9697.6	2684.5	28%	424.1	16%	Low	1601.5	40%	High
Hulbert-Turner Creek	11128.9	10560.6	1230.6	12%	182.9	15%	Low	683.6	44%	High
Ingall Swamp	19565.1	18496.6	0.0	0%						
Jim Creek	16455.2	1476.0	86.5	6%	41.7	48%	Moderate	72.3	16%	High
Jim Horn Ranch	11225.8	1953.4	0.0	0%						
Joseph Creek	12321.5	8231.6	4303.8	52%	510.2	12%	Low	1826.7	58%	Moderate
Kephart	56959.8	38508.8	2416.6	6%	411.8	17%	Low	1417.4	41%	High
Knobcone Butte	24308.1	23740.8	41.0	0%	4.5	11%	Low	19.2	53%	Moderate
Laird Landing	21728.6	9695.4	4.3	0%	0.0	0%	Low	0.0	100%	Low
Lake Annie	13828.9	2764.9	106.7	4%	5.1	5%	Low	29.5	72%	Low
Lassen Creek	15654.3	12749.1	5600.3	44%	942.1	17%	Low	3293.0	41%	High
Little Willow Creek	14137.6	14137.6	5.4	0%	0.0	0%	Low	1.9	65%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Logan Slough	37400.2	37174.0	0.0	0%						
Lone Pine Butte	23296.6	23296.6	340.9	1%	82.3	24%	Low	249.7	27%	High
Lower Ash Valley	18595.9	18158.4	2823.1	16%	513.1	18%	Low	1796.9	36%	High
Lower Big Valley	27523.3	7105.0	2371.4	33%	532.5	22%	Low	1591.9	33%	High
Lower Boles Creek	18618.9	18167.4	0.0	0%						
Lower Clover Swale Creek	21268.8	9988.9	0.0	0%						
Lower Fletcher Creek	33027.2	31110.9	210.9	1%	19.4	9%	Low	88.9	58%	Moderate
Lower Juniper Creek	12008.4	4783.8	167.5	4%	28.0	17%	Low	105.4	37%	High
Lower North Fork Pit River	14755.2	6714.9	0.0	0%						
Lower North Fork Willow Creek	25207.5	24565.4	28.1	0%	9.3	33%	Moderate	21.3	24%	High
Lower Rattlesnake Creek	16275.2	6124.1	0.0	0%						
Lower Warm Springs Valley	17963.2	239.2	0.0	0%						
Lower West Shore Goose Lake	37205.9	27165.4	105.0	0%	4.6	4%	Low	19.8	81%	Low
Lower West Shore Upper Alkali Lake	18149.3	11465.7	4780.1	42%	523.5	11%	Low	1724.2	64%	Moderate
Lower Willow Creek	26748.9	11200.8	570.8	5%	68.6	12%	Low	261.3	54%	Moderate
Messenger Gulch East	11401.7	8602.8	3183.2	37%	157.1	5%	Low	630.2	80%	Low
Messenger Gulch West	12575.4	9673.1	3120.8	32%	676.3	22%	Low	1969.5	37%	High
Middle Ash Creek	13389.5	1802.4	6.3	0%	0.0	0%	Low	0.0	100%	Low
Middle Fletcher Creek	39222.2	26799.7	282.7	1%	44.0	16%	Low	182.1	36%	High
Mill Creek	22288.0	19190.5	9778.6	51%	448.2	5%	Low	1398.0	86%	Low

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Moon Lake	46904.6	4084.5	831.7	20%	45.9	6%	Low	205.7	75%	Low
Mosquito Creek-Bayley Tank	24712.7	16429.9	116.4	1%	13.7	12%	Low	57.6	51%	Moderate
Mowitz Creek	56660.1	49739.1	67.0	0%	13.9	21%	Low	52.5	22%	High
Mud Lake	9119.1	5948.9	207.5	3%	42.1	20%	Low	126.1	39%	High
North Fork Parker Creek	19166.8	18325.5	7386.1	40%	500.1	7%	Low	1836.3	75%	Low
North Of Horse Mountain	18038.2		0.0							
Northwest Shore Middle Alkali Lake	33370.8	15619.5	4351.5	28%	550.0	13%	Low	1844.2	58%	Moderate
Old Camp One	36091.5	21510.1	13042.8	61%	2575.5	20%	Low	8862.8	32%	High
Parker Creek	22262.2	6240.5	1822.8	29%	254.7	14%	Low	826.4	55%	Moderate
Parsnip Creek	38600.6	19596.6	1028.0	5%	183.1	18%	Low	533.8	48%	High
Pine Creek	23614.0	53.2	19.2	36%	0.0	0%	Low	0.0	100%	Low
Pine Creek south	19547.9	11943.3	6114.8	51%	392.1	6%	Low	1436.3	77%	Low
Pothole Valley	14309.8	13836.3	4.6	0%	1.4	30%	Moderate	4.6	0%	High
Red Rock Canyon	39828.8	2331.8	827.8	36%	98.6	12%	Low	345.3	58%	Moderate
Rimrock Lake	14873.4	14873.4	0.0	0%						
Roberts Reservoir-Pit River	35562.1	11483.6	1022.3	9%	245.1	24%	Low	622.9	39%	High
Rock Creek	45912.5	25091.3	0.2	0%	0.0	0%	Low	0.0	100%	Low
Rose Canyon	18125.5	13713.9	1392.9	10%	158.1	11%	Low	577.7	59%	Moderate
Ross Creek	12755.9	5190.5	2475.4	48%	537.8	22%	Low	1754.3	29%	High
Rush Creek	36405.2	25419.0	8729.5	34%	1749.9	20%	Low	5414.0	38%	High
Said Valley Reservoir	13108.8	3489.5	9.5	0%	0.0	0%	Low	3.9	59%	Moderate

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Service Gulch	18142.2	2729.6	144.9	5%	22.6	16%	Low	83.6	42%	High
Sheep Camp	31128.3	25256.6	0.0	0%						
Sohonchin Spring	13229.0	12795.7	6164.5	48%	719.9	12%	Low	2417.6	61%	Moderate
South Big Swamp	16003.7	3110.1	115.5	4%	23.9	21%	Low	80.2	31%	High
South Fork Juniper Creek	14338.9	13707.0	1305.8	10%	261.1	20%	Low	891.2	32%	High
South Of Goose Lake	16687.9	1425.5	1026.3	72%	226.0	22%	Low	643.7	37%	High
South Tule Lake Sump	85568.0	38510.1	9230.9	24%	1885.9	20%	Low	5436.7	41%	High
Southern Jess Valley	12378.5	8179.2	609.1	7%	146.9	24%	Low	439.6	28%	High
Southwest Shore Middle Alkali Lake	38038.8	18510.5	4415.2	24%	0.0	0%	Low	0.0	100%	Low
Spaulding Butte	30032.1	29123.0	4.7	0%	0.0	0%	Low	0.0	100%	Low
Spooner Trough Canyon	15242.2	197.1	0.0	0%						
Steele Swamp	16340.4	13486.5	158.2	1%	20.6	13%	Low	92.2	42%	High
Stone Coal Creek	29094.8	25094.9	3610.2	14%	646.6	18%	Low	2159.4	40%	High
Stones Canyon	27725.9	16320.8	797.4	5%	158.9	20%	Low	454.9	43%	High
Thoms Creek	16587.7	8005.4	2799.6	35%	163.2	6%	Low	657.2	77%	Low
Tionesta	77495.1	66514.8	2304.1	3%	402.7	17%	Low	1329.9	42%	High
Upper Ash Valley	34892.9	7022.4	70.1	1%	8.9	13%	Low	35.3	50%	Moderate
Upper Canyon Creek	23229.2	2926.8	1198.7	41%	135.0	11%	Low	550.5	54%	Moderate
Upper Deep Creek	16321.8	1393.7	552.0	40%	74.3	13%	Low	211.0	62%	Moderate
Upper Fletcher Creek	11239.4	11205.6	4.1	0%	0.0	0%	Low	0.0	100%	Low
Upper Lost River	31724.4		0.0							

Watershed (HUC) Name	Sum of all acres in all ownerships	National Forest System Acres	Acres of Goshawk habitat on National Forest	% of National Forest within HUC in Habitat	Ac of NF habitat within 50m road buffer	Road buffer as % of habitat in HUC (NFS lands)	Habitat Influence Index Rank	Acres of Goshawk habitat (NF) w/in 200m buffer	Security Index (NFS lands only)	Security Index Rank
Upper Lost River Frontal	16716.6	14139.3	0.0							
Upper Turner Creek	15941.5	14868.8	251.0	2%	48.4	19%	Low	157.2	37%	High
Upper Twelvemile Creek	27790.4	5453.2	670.1	12%	10.6	2%	Low	73.8	89%	Low
Upper Warm Springs Valley	26074.7	7425.9	0.0							
Upper West Shore Upper Alkali Lake	28856.1	12213.2	4623.9	38%	434.2	9%	Low	1362.1	71%	Low
Upper Willow Creek	23120.3	14981.8	428.6	3%	73.3	17%	Low	228.7	47%	High
Van Sickle Lake	37251.5	4344.5	0.0	0%						
Wagontire Creek	26475.3	11980.5	268.9	2%	63.8	24%	Low	186.6	31%	High
Warm Creek	27773.8	8806.2	21.9	0%	7.6	35%	Moderate	16.7	24%	High
Washington Creek	21999.0	21789.9	377.5	2%	59.3	16%	Low	272.4	28%	High
West Shore Lower Alkali Lake	16687.3	7113.4	2969.5	42%	19.6	1%	Low	94.2	97%	Low
West Shore Middle Alkali Lake	15403.2	6672.0	1658.7	25%	125.5	8%	Low	409.8	75%	Low
Whitehorse Flat Reservoir	51922.9	26529.9	9073.7	34%	1664.9	18%	Low	5899.7	35%	High
Wild Horse Creek	17140.2	9775.5	63.7	1%	0.7	1%	Low	34.1	47%	High
Wiley Ranch	45208.7		0.0							
Willow Creek DH	38896.9	4421.5	363.7	8%	103.0	28%	Low	284.0	22%	High
Willow Creek WM	23817.6	14809.7	4758.2	32%	437.0	9%	Low	1638.5	66%	Moderate

Appendix N: Mixed-Use Analysis

Engineering Report

Analysis of Operational Maintenance

Level 3 Roads for Motorized Mixed Use

Designation

For purposes of this analysis the maintenance level 3 roads proposed for mixed use on the Forest were divided into 7 groups by geographical area. These 7 geographical areas are shown on the map in Appendix “A”. The areas were delineated based on entry points to the Forest and geographical similarity of the area the roads are located in. The seven geographical areas are as follows;

1. South Warners – The Warner Mountain Ranger District South of the South Warner Wilderness.
2. Central Warners – The Warner Mountain Ranger District North of Jess Valley and South of Cedar Pass Road (SH 299).
3. North Warners - The Warner Mountain Ranger District North of the Cedar Pass Road (SH 299).
4. The Devils Garden and Doublehead Ranger Districts East of State Highway 139.
5. The Doublehead and Big Valley Ranger Districts West of State Highway 299 and County Road 91.
6. The Devils Garden and Big Valley Ranger Districts East of County Road 91 and South of State Highway 139.
7. The Big Valley Ranger District South of Adin and West of State Highway 139.

An analysis was done separately for each of the above areas. The reports follow.

Analysis Area 1 - South Warners – The Warner Mountain Ranger District South of the South Warner Wilderness.

Forest: **Modoc** District: **Warner Mountains**

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
38N07	Mosquito Creek	0	4.65	4.65	C	3	3
38N30AB	Unnamed	0	0.03	0.03	D	3	3
39N01	South Warner	5.8	20	14.2	C	3	3
39N01C	East Creek Trailhead	0	0.4	0.4	D	3	3
39N12	Long Valley Ridge	0	2.9	2.9	C	3	3
39N15	Long Valley	0	1.6	1.6	D	3	3
39N28	Patterson Guard Station	0	0.2	0.2	C	3	3
39N28A	Patterson Campground	0	0.355	0.355	D	3	3

Maintenance by: **FS** Non-Forest Service ROW or jurisdiction? Yes No

Any road use agreements, maintenance agreements, or other encumbrances?
 Yes No

Description of agreements or encumbrances: None

Subject to Highway Safety Act? Yes No

Non-highway-legal vehicles currently permitted? Yes No

Is motorized mixed use consistent with State and local laws? Yes No

Description of road management objectives, existing use, and proposed use:
Roads are currently open to all motor vehicles. Primary Use is recreation with access to the South Warner Wilderness and other scenic areas. Other uses include logging, fuelwood cutting, grazing, hunting, fishing and fire suppression. No changes are proposed for use of the roads in the area.

Summary of Findings:

Motorized mixed use currently occurs on all of these roads in the analysis area. There is no accident history. Traffic volumes are low. Sight distances are generally long. The roads are wide with adequate runout space in the ditches or shoulders. Anticipated average speeds are 35 mph or less. These factors lead to the conclusion that the probability of a crash is low, and the severity of a crash is likely to be moderate.

Factors Considered:

1. Operator considerations:

Prudent operators in compliance with the California Vehicle Code and other applicable laws and regulations is assumed.

2. Crash history:

There is no crash history available for any of the roads in this analysis area.

3. Traffic volume and type:

Non-highway-legal vehicles:

< 12 inch tread width < 50 inch tread width >50 inch tread width

Highway-legal vehicles:

Passenger cars Commercial vehicles Recreation vehicles (RV's)

Traffic counts were done at the intersection of the South Warner Road 39N01 and the Blue Lake Road 38N30. Almost all of the traffic using the roads in this analysis area enter or leave the area through this intersection.. Traffic was counted during ten separate periods of 1 to 4 hours. The time periods counted included mornings and evenings, and weekdays and weekends. Traffic was counted for a total of 30.5 hours. 202 vehicle were counted going through this intersection, for an average of less than 7 vehicles per hour. Of the 202 vehicles counted there was one ATV, 5 bicycles, and the remainder were cars, pickups, or SUV's. See traffic count summary in Appendix B & details in Appendix C traffic count log.

4. Speed - Anticipated average speed (85th percentile):

Anticipated average speeds on these roads is 35 mph or less.

5. Road surface type:

All of the roads listed above have either crushed aggregate or cinder surfacing.

6. Intersections with other roads and trails:

Numerous intersections throughout the analysis area. See attached map in Appendix A.

7. Other roadway factors:

The roads listed above are all relatively wide. They were constructed as single lane roads, and are shown on our inventory as single lane roads. However past maintenance practices have widened most of these roads to approximately 18 to 20 feet. Sight distance is adequate for the anticipated average speed on all of these roads.

8. Roadside conditions:

The listed roads all have an inside ditch that can be driven into with most vehicles in an emergency.

9. Risk without mitigation:

Crash probability: High Med Low

Crash severity: High Med Low

Mitigation Measures:

None.

Conclusion:

Currently mixed use is allowed on these roads. Nothing found during this analysis indicates that a change to the current use is needed.

Analysis Area 2 - Central Warners – The Warner Mountain Ranger District North of Jess Valley and South of Cedar Pass Road (SH 299).

Forest: **Modoc** District: **Warner Mountains**

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
40N24	Cherry Creek	0	8.3	8.3	C	3	3
40N25	Soup Spring	0	0.34	0.34	C	3	3
40N25A	Soup Spring Campground	0	0.2	0.2	D	3	3
40N25AA	Soup Cg Corrals	0	0.1	0.1	D	3	3
42N05	West Warner	12.6	26.7	14.1	C	3	3
42N31	Deep Creek-Parker	1.4	17.1	15.7	C	3	3
42N79	Pepperdine Camp	0	0.6	0.6	D	3	3
43N24A	Cedar Pass West Campground	0	0.3	0.3	D	3	3
43N24B	Cedar Pass East Campground	0	0.2	0.2	D	3	3
42N79A	Pepperdine Campground	0	0.3	0.3	D	3	3

Maintenance by: **FS** Non-Forest Service ROW or jurisdiction? Yes No

Any road use agreements, maintenance agreements, or other encumbrances?
 Yes No

Description of agreements or encumbrances: None

Subject to Highway Safety Act? Yes No

Non-highway-legal vehicles currently permitted? Yes No

Is motorized mixed use consistent with State and local laws? Yes No

Description of road management objectives, existing use, and proposed use:
Roads are currently open to all motor vehicles. Primary Use is recreation with access to the South Warner Wilderness and other scenic areas. Other uses include logging, fuelwood cutting, grazing, hunting, fishing, and fire suppression. No changes are proposed for use of the roads in the area.

Summary of Findings:

Motorized mixed use currently occurs on all of these roads in the analysis area. There is no accident history. Traffic volumes are low. Sight distances are generally long. The roads are wide with adequate runout space in the ditches or shoulders. Anticipated average speeds are 35 mph or less. These factors lead to the conclusion that the probability of a crash is low, and the severity of a crash is likely to be moderate.

Factors Considered:

1. Operator considerations:

Prudent operators in compliance with the California Vehicle Code and other applicable laws and regulations is assumed.

2. Crash history:

There is no crash history available for any of the roads in this analysis area.

3. Traffic volume and type:

Non-highway-legal vehicles:

< 12 inch tread width < 50 inch tread width >50 inch tread width

Highway-legal vehicles:

Passenger cars Commercial vehicles Recreation vehicles (RV's)

Traffic counts were done at the intersection of the West Warner Road 42N05 and the Parker Creek Road 42N31. Almost all of the traffic using the roads in this analysis area enter or leave the area through this intersection. Traffic was also counted on the Deep Creek Road at the Forest Boundary. Traffic was counted during ten separate periods of 1 to 4 hours. The time periods counted included mornings and evenings, and weekdays and weekends. Traffic was counted for a total of 22 hours. 33 vehicles were counted, for an average of less than 3 vehicles per hour at the Parker Creek location and less than one vehicle per hour in Deep Creek. Of the 33 vehicles counted there was one motorcycle, 1 bicycles, and the remainder were cars, pickups, or SUV's. See traffic count summary in Appendix B & details in Appendix C traffic count log.

4. Speed - Anticipated average speed (85th percentile):

Anticipated average speeds on these roads is 35 mph or less.

5. Road surface type:

All of the roads listed above have either crushed aggregate or cinder surfacing.

6. Intersections with other roads and trails:

Numerous intersections throughout the analysis area. See attached map in Appendix A.

7. Other roadway factors:

The roads listed above are all relatively wide. They were constructed as single lane roads, and are shown on our inventory as single lane roads. However past maintenance practices have widened most of these roads to approximately 18 to 20 feet. Sight distance is adequate for the anticipated average speed on all of these roads.

8. Roadside conditions:

The listed roads all have an inside ditch that can be driven into with most vehicles in an emergency.

9. Risk without mitigation:

Crash probability: High Med Low

Crash severity: High Med Low

Mitigation Measures:

None.

Conclusion:

Currently mixed use is allowed on these roads. Nothing found during this analysis indicates that a change to the current use is needed.

Analysis Area 3 - North Warners - The Warner Mountain Ranger District North of the Cedar Pass Road (SH 299).

Forest: **Modoc** District: **Warner Mountains**

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
43N07A	STOUGH RESVR. CG	0	0.2	0.2	C	3	3
43N24	CEDAR PASS ACCESS	0	0.8	0.8	D	3	3
45N04	BENTON MEADOW	2.3	9.8	7.5	C	3	3
45N35	PLUM VALLEY	1.4	8.2	6.8	C	3	3
45N35A	PLUM VALLEY C G	0	0.2	0.2	D	3	3
46N06	COLD CREEK	0	12.2	12.2	C	3	3
46N06A	SUGAR HILL LO	0	1.8	1.8	D	3	3
46N09	BUCK CREEK G.S.	0	0.7	0.7	C	3	3
46N14	UNNAMED	0	0.25	0.25	D	3	3
46N14A	UNNAMED	0	0.15	0.15	D	3	3
46N30	LASSEN CREEK	2.4	31.2	28.8	C	3	3
46N63	PLANTATION	0	2.9	2.9	C	3	3
48N80	LILY LAKE DAY USE	0	0.2	0.2	D	3	3
48N81	CAVE LAKE C G	0	0.4	0.4	D	3	3

Maintenance by: **FS** Non-Forest Service ROW or jurisdiction? Yes No

Any road use agreements, maintenance agreements, or other encumbrances?
 Yes No

Description of agreements or encumbrances: None

Subject to Highway Safety Act? Yes No

Non-highway-legal vehicles currently permitted? Yes No

Is motorized mixed use consistent with State and local laws? Yes No

Description of road management objectives, existing use, and proposed use:
Roads are currently open to all motor vehicles. Primary Use is recreation. Other uses include logging, fuelwood cutting, grazing, mining (primarily obsidian), hunting, fishing, and fire suppression. No changes are proposed for use of the roads in the area.

Summary of Findings:

Motorized mixed use currently occurs on all of these roads in the analysis area. There is no accident history. Traffic volumes are low. Sight distances are generally long. The roads are wide with adequate runout space in the ditches or shoulders. Anticipated average speeds are 35 mph or less. These factors lead to the conclusion that the probability of a crash is low, and the severity of a crash is likely to be moderate.

Factors Considered:

1. Operator considerations:

Prudent operators in compliance with the California Vehicle Code and other applicable laws and regulations is assumed.

2. Crash history:

There is no crash history available for any of the roads in this analysis area.

3. Traffic volume and type:

Non-highway-legal vehicles:

< 12 inch tread width < 50 inch tread width >50 inch tread width

Highway-legal vehicles:

Passenger cars Commercial vehicles Recreation vehicles (RV's)

Traffic counts were done at the intersection on the Plumb Valley Road 45N35 and the Dismal Swamp Road 48N21. These are two of the highest use roads within the analysis area. Traffic was counted during eight separate periods of 1 to 4 hours. The time periods counted included mornings and evenings, and weekdays and weekends. Traffic was counted for a total of 27 hours. 43 vehicles were counted, for an average of less than 3 vehicles per hour on the Plumb Valley Road and less than one vehicle per hour at Dismal Swamp. Of the 43 vehicles counted there was one Recreational Vehicle, the remainder were cars, pickups, or SUV's. See traffic count summary in Appendix B & details in Appendix C traffic count log.

4. Speed - Anticipated average speed (85th percentile):

Anticipated average speeds on these roads is 35 mph or less.

5. Road surface type:

All of the roads listed above have either crushed aggregate or cinder surfacing.

6. Intersections with other roads and trails:

Numerous intersections throughout the analysis area. See attached map in Appendix A.

7. Other roadway factors:

The roads listed above are all relatively wide. They were constructed as single lane roads, and are shown on our inventory as single lane roads. However past maintenance practices have widened most of these roads to approximately 18 to 20 feet. Sight distance is adequate for the anticipated average speed on all of these roads.

8. Roadside conditions:

The listed roads all have an inside ditch that can be driven into with most vehicles in an emergency.

9. Risk without mitigation:

Crash probability: High Med Low

Crash severity: High Med Low

Mitigation Measures:

None.

Conclusion:

Currently mixed use is allowed on these roads. Nothing found during this analysis indicates that a change to the current use is needed.

Analysis Area 4 - Devils Garden and Doublehead Ranger Districts East of State Highway 139.

Forest: **Modoc** District: **Devils Garden & Doublehead**

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
43N36	RESERVOIR F	0	6.5	6.5	C	3	3
44N02	HACKAMORE RES	0	8.2	8.2	C	3	3
44N03A	BIG SAGE CG	0	0.2	0.2	C	3	3
44N11	BOLES	0	14.8	14.8	D	3	3
44N32	RESERVOIR C	0	0.7	0.7	D	3	3
44N59	MOWITZ WELL	0	0.3	0.3	D	3	3
44N78	RESVR C CG	0	0.2	0.2	D	3	3
45N09	OTH RADAR	0	5.94	5.94	B	3	3
45N09A	UNNAMED	0	5.3	5.3	D	3	3
46N08	BLUE MOUNTAIN LO	0	1.5	1.5	D	3	3
46N10	MOWITZ	0	30.7	30.7	C	3	3
47N06	CARR BUTTE	6.7	17.2	10.5	C	3	3
47N09H	GREEN SPRING RESV	0	0.6	0.6	D	3	3
47N11	ENQUEST RESERVOIR	0	3.6	3.6	C	3	3
47N16	CROWDER GS	0	0.2	0.2	D	3	3
47N37	HOUSEHOLDER RESERV	0	3.4	3.4	D	2	3
47N97	KELLOGG MTN	0	1.2	1.2	D	2	3
48N08	CROWDER FLAT	0	9.6	9.6	C	3	3
48N08E	JANES RESVR	0	0.3	0.3	C	3	3
48N11	OLD STATE LINE	0	6.2	6.2	C	3	3
48N19A	UNNAMED	0	0.25	0.25	D	3	3
48N28	MULDOON	0	2.4	2.4	C	2	3
48N70	FOUR MILE	0	12.2	12.2	C	3	3

Maintenance by: **FS** Non-Forest Service ROW or jurisdiction? Yes No

Any road use agreements, maintenance agreements, or other encumbrances?

Yes No

Description of agreements or encumbrances: None

Subject to Highway Safety Act? Yes No

Non-highway-legal vehicles currently permitted? Yes No

Is motorized mixed use consistent with State and local laws? Yes No

Description of road management objectives, existing use, and proposed use:
Roads are currently open to all motor vehicles. Primary uses are recreation, logging, fuelwood cutting, grazing, hunting, fishing, and fire suppression. No changes are proposed for use of the roads in the area.

Summary of Findings:

Motorized mixed use currently occurs on all of these roads in the analysis area. There is no accident history. Traffic volumes are low. Sight distances are generally long. The roads are wide with adequate runout space in the ditches or shoulders. Anticipated average speeds are 35 mph or less. These factors lead to the conclusion that the probability of a crash is low, and the severity of a crash is likely to be moderate.

Factors Considered:

1. Operator considerations:

Prudent operators in compliance with the California Vehicle Code and other applicable laws and regulations is assumed.

2. Crash history:

There is no crash history available for any of the roads in this analysis area.

3. Traffic volume and type:

Non-highway-legal vehicles:

< 12 inch tread width < 50 inch tread width >50 inch tread width

Highway-legal vehicles:

Passenger cars Commercial vehicles Recreation vehicles (RV's)

Traffic counts were done at the 7 different locations at the main entry points to the analysis area.. The time periods counted included mornings and evenings, and weekdays and weekends. Traffic was counted for a total of 175 hours, in 53 different counting periods. 223 vehicles were counted, for an average of less than 1.5 vehicles per hour. Of the 213 vehicles counted there was four ATV's, the remainder were cars, pickups, or SUV's. See traffic count summary in Appendix B & details in Appendix C traffic count log.

4. Speed - Anticipated average speed (85th percentile):

Anticipated average speeds on these roads is 35 mph or less.

5. Road surface type:

All of the roads listed above have either crushed aggregate or cinder surfacing.

6. Intersections with other roads and trails:

Numerous intersections throughout the analysis area. See attached map in Appendix A.

7. Other roadway factors:

The roads listed above are all relatively wide. They were constructed as single lane roads, and are shown on our inventory as single lane roads. However past maintenance practices have widened most of these roads to approximately 18 to 20 feet. Sight distance is adequate for the anticipated average speed on all of these roads. The terrain in this area is predominantly flat.

8. Roadside conditions:

The listed roads all have an inside ditch that can be driven into with most vehicles in an emergency.

9. Risk without mitigation:

Crash probability: High Med Low

Crash severity: High Med Low

Mitigation Measures:

None.

Conclusion:

Currently mixed use is allowed on these roads. Nothing found during this analysis indicates that a change to the current use is needed.

Analysis Area 5 - The Doublehead and Big Valley Ranger Districts West of State Highway 299 and County Road 91.

Forest: **Modoc** District: **Devils Garden & Doublehead**

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
41N06	LAVA WELL	0	0.3	0.3	D	2	3
42N03	LONG BELL	0	12.9	12.9	C	3	3
42N10	ROUND MTN. MAIN	0	3.2	3.2	C	3	3
42N10	ROUND MTN. MAIN	4.9	5.5	0.6	C	3	3
42N10A	ROUND MTN. MAIN	0	0.9	0.9	C	3	3
42N23	MAC'S SOUTH MAIN	0	8.2	8.2	C	3	3
42N24	PAYNES	0	1.7	1.7	C	3	3
42N56	MUD SPRING	0	29.1	29.1	C	3	3
42N68	LONG BELL G.S.	0	0.2	0.2	C	3	3
43N12	LOST LOOP	0	3.4	3.4	C	3	3
43N14	SOUTH CONNECTOR	0	5.1	5.1	C	3	3
43N17	PAYNES CREEK	0	3	3	C	3	3
43N21	ALCOHOL CRATER	0	2.5	2.5	C	2	3
43N42	UNDERTAKER	0	1.1	1.1	D	3	3
43N44	MEDICINE TRAILER DUMP	0	0.1	0.1	C	3	3
43N47B	SCHONCHIN SPRING	0	0.3	0.3	D	3	3
43N48	MEDICINE LAKE	0	4.7	4.7	C	3	3
43N54	SHOTGUN PEAK NORTH	0	4.7	4.7	C	3	3
43N58A	HEMLOCK CG LOOP	0	0.03	0.03	C	3	3
43N99	LYONS PEAK	3.3	9.05	5.95	C	3	3
44N01	COUGAR BUTTE	0	13.8	13.8	C	3	3
44N19	TIMBER MTN LO	1.4	3.5	2.1	C	3	3
44N60	TIONESTA WELL	0	0.2	0.2	D	3	3
44N75	MEDICINE LAKE	8.6	10.8	2.2	B	5	3

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
44N75C	MEDICINE WELL	0	0.2	0.2	D	3	3
44N77	BENCH	0	10.5	10.5	C	2	3

Maintenance by: **FS** Non-Forest Service ROW or jurisdiction? Yes No

Any road use agreements, maintenance agreements, or other encumbrances?

Yes No

Description of agreements or encumbrances: None

Subject to Highway Safety Act? Yes No

Non-highway-legal vehicles currently permitted? Yes No

Is motorized mixed use consistent with State and local laws? Yes No

Description of road management objectives, existing use, and proposed use:
Roads are currently open to all motor vehicles. Primary uses are recreation, logging, fuelwood cutting, grazing, hunting, fishing, and fire suppression. No changes are proposed for use of the roads in the area.

Summary of Findings:

Motorized mixed use currently occurs on all of these roads in the analysis area. There is no accident history. Traffic volumes are low. Sight distances are generally long. The roads are wide with adequate runout space in the ditches or shoulders. Anticipated average speeds are 35 mph or less. These factors lead to the conclusion that the probability of a crash is low, and the severity of a crash is likely to be moderate.

Factors Considered:

1. Operator considerations:

Prudent operators in compliance with the California Vehicle Code and other applicable laws and regulations is assumed.

2. Crash history:

There is no crash history available for any of the roads in this analysis area.

3. Traffic volume and type:

Non-highway-legal vehicles:

< 12 inch tread width < 50 inch tread width >50 inch tread width

Highway-legal vehicles:

Passenger cars Commercial vehicles Recreation vehicles (RV's)

Traffic counts were done at the 5 different locations at the main entry points to the analysis area.. The time periods counted included mornings and evenings, and weekdays and weekends. Traffic was counted for a total of 85 hours, in 27 different counting periods. 259 vehicles were counted, for an average of less than 3.5 vehicles per hour. Of the 259 vehicles counted there was 7 motorcycles, 6 Truck/Tractors, the remainder were cars, pickups, or SUV's. See traffic count summary in Appendix B & details in Appendix C traffic count log.

4. Speed - Anticipated average speed (85th percentile):

Anticipated average speeds on these roads is 35 mph or less.

5. Road surface type:

All of the roads listed above have either crushed aggregate or cinder surfacing.

6. Intersections with other roads and trails:

Numerous intersections throughout the analysis area. See attached map in Appendix A.

7. Other roadway factors:

The roads listed above are all relatively wide. They were constructed as single lane roads, and are shown on our inventory as single lane roads. However past maintenance practices have widened most of these roads to approximately 18 to 20 feet. Sight distance is adequate for the anticipated average speed on all of these roads.

8. Roadside conditions:

The listed roads all have an inside ditch that can be driven into with most vehicles in an emergency.

9. Risk without mitigation:

Crash probability: High Med Low

Crash severity: High Med Low

Mitigation Measures:

None.

Conclusion:

Currently mixed use is allowed on these roads. Nothing found during this analysis indicates that a change to the current use is needed.

Analysis Area 6 - The Devils Garden and Big Valley Ranger Districts East of County Road 91 and South of State Highway 139.

Forest: **Modoc** District: **Devils Garden & Doublehead**

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
37N07	WILLOW CREEK CG	0	0.15	0.15	D	3	3
37N11	WILLIAMS RES	0	1	1	D	3	3
37N11	WILLIAMS RES	5.7	10	4.3	D	3	3
38N04	HUNSINGER FLAT	0	10.1	10.1	C	3	3
38N46	FOSTER SPRING	0	11.7	11.7	C	3	3
38N47	ASH CREEK C G	0	0.1	0.1	D	3	3
39N17	DUTCH FLAT	0	8	8	C	3	3
39N50	KNOX FLAT	0	13.37	13.37	C	3	3
40N05	RUSH CREEK	0	2.1	2.1	C	3	3
40N05A	RUSH CREEK CG LOWER	0	0.3	0.3	D	3	3
40N05B	RUSH CREEK CG UPPER	0	0.2	0.2	D	3	3
40N07	YELLOWJACKET SPR	0	1.6	1.6	C	2	3
40N11	FOX MOUNTAIN	0	10.9	10.9	C	3	3
40N12	HOSKINS SPRING	0	6.6	6.6	C	3	3
40N13	NILES SPRING	0	3.6	3.6	C	3	3
40N22	HUNTERS RIDGE	0	21.3	21.3	C	3	3
40N22R	SHORTYS SPRING	0	0.1	0.1	D	2	3
40N27	RYAN RIDGE	0	5.8	5.8	C	2	3
40N33	MESSENGER GULCH	0	9.4	9.4	C	3	3
40N37	RATTLESNAKE BUTTE	0	5.86	5.86	D	3	3
40N41	MAZ-CAL TIE	0	1.2	1.2	D	3	3
41N11	RONEY FLAT	0	17.6	17.6	C	3	3
41N34	CANYON CREEK	0	7.665	7.665	C	3	3
41N44	PIT RIVER	0	15.4	15.4	C	3	3
41N47	HARRIS SPRING	0	4.3	4.3	C	3	3
42N46	HAPPY CAMP LO	0	3.3	3.3	C	3	3

Maintenance by: **FS** Non-Forest Service ROW or jurisdiction? Yes No

Any road use agreements, maintenance agreements, or other encumbrances?

Yes No

Description of agreements or encumbrances: None

Subject to Highway Safety Act? Yes No

Non-highway-legal vehicles currently permitted? Yes No

Is motorized mixed use consistent with State and local laws? Yes No

Description of road management objectives, existing use, and proposed use:
Roads are currently open to all motor vehicles. Primary uses are recreation logging, fuelwood cutting, grazing, hunting, fishing, and fire suppression. No changes are proposed for use of the roads in the area.

Summary of Findings:

Motorized mixed use currently occurs on all of these roads in the analysis area. There is no accident history. Traffic volumes are low. Sight distances are generally long. The roads are wide with adequate runout space in the ditches or shoulders. Anticipated average speeds are 35 mph or less. These factors lead to the conclusion that the probability of a crash is low, and the severity of a crash is likely to be moderate.

Factors Considered:

1. Operator considerations:

Prudent operators in compliance with the California Vehicle Code and other applicable laws and regulations is assumed.

2. Crash history:

There is no crash history available for any of the roads in this analysis area.

3. Traffic volume and type:

Non-highway-legal vehicles:

< 12 inch tread width < 50 inch tread width >50 inch tread width

Highway-legal vehicles:

Passenger cars Commercial vehicles Recreation vehicles (RV's)

Traffic counts were done at the 2 different locations at entry points to the analysis area.. The time periods counted included mornings and evenings, and weekdays and weekends. Traffic was counted for a total of 40 hours, in 13 different counting periods. 13 vehicles were counted, for an average of less than 0.5 vehicles per hour. Of the 13 vehicles counted there was one motorcycle, the remainder were cars, pickups, or SUV's. See traffic count summary in Appendix B & details in Appendix C traffic count log.

4. Speed - Anticipated average speed (85th percentile):

Anticipated average speeds on these roads is 35 mph or less.

5. Road surface type:

All of the roads listed above have either crushed aggregate or cinder surfacing.

6. Intersections with other roads and trails:

Numerous intersections throughout the analysis area. See attached map in Appendix A.

7. Other roadway factors:

The roads listed above are all relatively wide. They were constructed as single lane roads, and are shown on our inventory as single lane roads. However past maintenance practices have widened most of these roads to approximately 18 to 20 feet. Sight distance is adequate for the anticipated average speed on all of these roads.

8. Roadside conditions:

The listed roads all have an inside ditch that can be driven into with most vehicles in an emergency.

9. Risk without mitigation:
 Crash probability: High Med Low
 Crash severity: High Med Low

Mitigation Measures:

None.

Conclusion:

Currently mixed use is allowed on these roads. Nothing found during this analysis indicates that a change to the current use is needed.

Analysis Area 7 - Big Valley Ranger District South of Adin and West of State Highway 139.

Forest: **Modoc** District: **Devils Garden & Doublehead**

ID	NAME	BMP	EMP	LENGTH	TSL	OB ML	OP ML
38N54	CARY SPRING	0	22	22	C	3	3
38N54A	MEYER FLAT WELL	0	0.1	0.1	D	2	3
38N54E	SNAG HILL L.O.	0	0.3	0.3	C	3	3

Maintenance by: **FS** Non-Forest Service ROW or jurisdiction? Yes No

Any road use agreements, maintenance agreements, or other encumbrances?
 Yes No

Description of agreements or encumbrances: None

Subject to Highway Safety Act? Yes No

Non-highway-legal vehicles currently permitted? Yes No

Is motorized mixed use consistent with State and local laws? Yes No

Description of road management objectives, existing use, and proposed use:
Roads are currently open to all motor vehicles. Primary uses are recreation, logging, fuelwood cutting, grazing, hunting, fishing, and fire suppression. No changes are proposed for use of the roads in the area.

Summary of Findings:

Motorized mixed use currently occurs on all of these roads in the analysis area. There is no accident history. Traffic volumes are low. Sight distances are generally long. The roads are wide with adequate runout space in the ditches or shoulders. Anticipated average speeds are 35 mph or less. These factors lead to the conclusion that the probability of a crash is low, and the severity of a crash is likely to be moderate.

Factors Considered:

1. Operator considerations:

Prudent operators in compliance with the California Vehicle Code and other applicable laws and regulations is assumed.

2. Crash history:

There is no crash history available for any of the roads in this analysis area.

3. Traffic volume and type:

Non-highway-legal vehicles:

< 12 inch tread width < 50 inch tread width >50 inch tread width

Highway-legal vehicles:

Passenger cars Commercial vehicles Recreation vehicles (RV's)

Traffic counts were done on the Cary Springs Road 38N54 at the Forest Boundary. This is one of the primary entrances to the analysis area. The time periods counted included mornings and evenings, and weekdays and weekends. Traffic was counted for a total of 10 hours, in 4 different counting periods. 7 vehicles were counted, for an average of less than 1 vehicles per hour. Of the 7 vehicles counted there were two fire engines, the remainder were cars, pickups, or SUV's. See traffic count summary in Appendix B & details in Appendix C traffic count log.

4. Speed - Anticipated average speed (85th percentile):

Anticipated average speeds on these roads is 35 mph or less.

5. Road surface type:

All of the roads listed above have either crushed aggregate or cinder surfacing.

6. Intersections with other roads and trails:

Numerous intersections throughout the analysis area. See attached map in Appendix B.

7. Other roadway factors:

The roads listed above are all relatively wide. They were constructed as single lane roads, and are shown on our inventory as single lane roads. However past maintenance practices have widened most of these roads to approximately 18 to 20 feet. Sight distance is adequate for the anticipated average speed on all of these roads.

8. Roadside conditions:

The listed roads all have an inside ditch that can be driven into with most vehicles in an emergency.

9. Risk without mitigation:

Crash probability: High Med Low

Crash severity: High Med Low

Mitigation Measures:

None.

Conclusion:

Currently mixed use is allowed on these roads. Nothing found during this analysis indicates that a change to the current use is needed.

Appendix “B”

Traffic Count Summary

Date	Location	Start Time	End Time	# of veh.	Hours	veh/hr ave
7/13/2008	Parker Creek	11:00 AM	13:00 PM	8	2	4.0
7/14/2008	Parker Creek	8:30 AM	10:35 AM	7	2	3.5
7/20/2008	Parker Creek	13:10 PM	15:10 PM	1	2	0.5
6/21/2008	2-Deep Creek	14:15 PM	16:15 PM	5	2	2.5
6/26/2008	2	14:05 PM	16:00 PM	0	2	0.0
6/29/2008	2	7:30 AM	10:45 AM	8	3	2.7
7/6/2008	2	7:15 AM	9:30 AM	4	2	2.0
7/11/2008	2	8:35	11:45 AM	3	3	1.0
7/12/2008	2	7:30 AM	9:30 AM	0	2	0.0
7/25/2008	2	7:30 AM	9:45 AM	0	2	0.0
6/20/2008	3 - Blue Lake	15:30 PM	18:30 Pm	15	3	5.0
6/20/2008	3 - South Warner	15:30	18:30	19	3	6.3
6/22/2008	3	10:30 AM	12:00 PM	16	1.5	10.7
6/22/2008	3	16:00 PM	17:30 PM	13	1.5	8.7
6/28/2008	3	14:00 PM	16:00 PM	10	2	5.0
7/3/2008	3 - Blue Lake	13:10 PM	17:10 PM	29	4	7.3
7/3/2008	3 - S. Warner	13:10 PM	17:10 PM	40	4	10.0
7/11/2008	3 - Blue Lake	8:25 AM	12:25 PM	22	4	5.5
7/11/2008	3 - South Warner	8:25 AM	12:25 PM	30	4	7.5
7/25/2008	3 - Blue Lake	8:50 AM	12:20 PM	11	3.5	3.1
7/25/2008	3 - South Warner	8:50 AM	12:20 PM	12	3.5	3.4
6/21/2008	4 - Plumb Valley	8:00 AM	12:00 PM	11	4	2.8
6/21/2008	4 - Intersection	8:00 AM	12:00 PM	10	4	2.5
7/27/2008	4	8:00 AM	12:00 PM	10	4	2.5
6/28/2008	5-Dismal Swamp	8:15 AM	11:38 AM	2	3.5	0.6
7/3/2008	5	9:00 AM	11:00 AM	4	2	2.0

Date	Location	Start Time	End Time	# of veh.	Hours	veh/hr ave
7/3/2008	5	16:00 PM	19:00 PM	1	3	0.3
7/13/2008	5	10:15 AM	12:15	2	4	0.5
7/18/2008	5	16:30 PM	19:00 PM	3	2.5	1.2
6/21/2008	6 - Crowder Flat	11:00 AM	15:00 PM	4	3	1.3
6/21/2008	6 - South Main	11:00 AM	15:00 PM	16	3	5.3
6/22/2008	6 - Crowder Flat	7:00 AM	11:00 AM	2	4	0.5
6/22/2008	6 - South Main	7:00 AM	11:00 AM	1	4	0.3
6/22/2008	6 - Crowder Flat	11:30 AM	15:30 AM	14	4	3.5
7/4/2008	6	7:55 AM	12:00 PM	5	4	1.3
7/13/2008	6	8:30 AM	12:30 PM	4	4	1.0
7/24/2008	6	18:00 PM	20:30 PM	4	2.5	1.6
7/26/2008	6	11:00 AM	14:00 PM	4	3	1.3
6/21/2008	7- Pencil Road	9:00 AM	12:00 PM	2	3	0.7
6/21/2008	7	14:00 PM	17:00 PM	2	3	0.7
6/26/2008	7	16:54 PM	19:05 PM	2	2	1.0
6/27/2008	7	5:51 AM	8:00 AM	0	2	0.0
7/3/2008	7	8:00 AM	13:00 PM	2	5	0.4
7/3/2008	7	13:00 PM	17:00 PM	0	4	0.0
6/20/2008	8	15:00 PM	18:00 PM	10	3	3.3
6/21/2008	8 - Logan Slough	6:30 AM	10:30 AM	2	4	0.5
6/21/2008	8 - Crowder Flat	6:30 AM	10:30 AM	5	4	1.3
6/28/2008	8 - Logan Slough	9:15 AM	12:15 PM	3	3	1.0
6/30/2008	8	16:56 PM	19:10 PM	0	2	0.0
7/2/2008	8	5:52 AM	7:55 AM	2	2	1.0
7/13/2008	8 - Logan Slough	14:15 PM	17:15 PM	4	3	1.3
7/13/2008	8 - Crowder Flat	14:15 PM	19:15 PM	15	5	3.0
7/26/2008	8 - Crowder Flat	10:15 AM	12:15 AM	9	2	4.5
7/26/2008	8 - Logan Slough	10:15 AM	12:15 PM	5	2	2.5
	8 - Intersection	6:30 AM	10:30 AM	7	4	1.8

Date	Location	Start Time	End Time	# of veh.	Hours	veh/hr ave
	8 - Crowder Flat	9:15 AM	12:15 PM	8	3	2.7
	8 - Logan Slough	12:15 PM	16:00 PM	3	4	0.8
	8 - Crowder Flat	12:15 PM	16:00 PM	12	4	3.0
7/10/2008	9	16:00 PM	19:00 PM	3	3	1.0
7/11/2008	9 - Mowitz Road	10:30 AM	13:30 PM	9	3	3.0
7/13/2008	9	13:45	16:45 PM	3	3	1.0
7/20/2008	9	9:15 AM	12:00 PM	2	3	0.7
7/20/2008	9	12:30 PM	15:30 PM	8	3	2.7
7/23/2008	9	9:30 AM	13:30 PM	11	4	2.8
7/5/2008	10- Hackamore Road	9:00 AM	12:00 PM	2	3	0.7
7/13/2008	10	17:00 PM	19:00 PM	0	2	0.0
7/16/2008	10	14:30 PM	16:30 PM	2	2	1.0
7/19/2008	10	8:30 AM	11:45 AM	0	3	0.0
7/19/2008	10	16:30 PM	19:00 PM	0	2.5	0.0
7/23/2008	10	15:00 PM	17:00 PM	4	2	2.0
7/12/2008	11 - Badger Well	15:35 PM	17:15 PM	2	2	1.0
7/18/2008	11	7:00 AM	12:00 PM	0	5	0.0
7/20/2008	11	13:15 PM	17:15 PM	2	4	0.5
7/27/2008	11	11:15 AM	14:15 PM	2	3	0.7
6/20/2008	12	8:15 AM	12:15 AM	5	4	1.3
6/27/2008	12 - Loveness	9:45 AM	13:43 PM	4	4.5	0.9
7/11/2008	12	13:30 PM	15:30 PM	0	2	0.0
7/13/2008	12	9:30 AM	12:00 PM	2	2.5	0.8
7/13/2008	12	12:00 PM	15:00 PM	0	3	0.0
7/5/2008	13	16:45 PM	19:30 PM	5	3	1.7
7/11/2008	13 - Pit River Road	8:15 AM	10:15 AM	5	2	2.5
7/18/2008	13	14:15 PM	16:30 PM	6	2	3.0
7/19/2008	13	8:30 AM	11:45 AM	3	3	1.0
7/19/2008	13	12:30 PM	15:30 PM	2	3	0.7

Date	Location	Start Time	End Time	# of veh.	Hours	veh/hr ave
7/21/2008	13	16:45 PM	19:30 PM	7	3	2.3
7/1/2008	14--Hunter Ridge	17:30 PM	20:00 PM	0	2.5	0.0
7/11/2008	14	8:00 AM	12:00 PM	0	4	0.0
7/19/2008	14	9:00 AM	11:30 AM	0	3	0.0
7/20/2008	14	8:15 AM	12:00 PM	0	4	0.0
7/25/2008	14	15:00 PM	17:15 PM	2	2	1.0
7/26/2008	14	7:45 AM	9:45 AM	0	2	0.0
7/26/2008	14	17:45 PM	19:45 PM	1	2	0.5
7/16/2008	15 - Mud Springs Road	16:45 PM	19:30 PM	3	3	1.0
7/19/2008	15	12:45 PM	16:15 PM	2	3.5	0.6
7/20/2008	15	7:00 AM	9:00 AM	2	2	1.0
7/23/2008	15	17:15 PM	19:15 PM	3	2	1.5
7/26/2008	15	9:00 AM	12:00 PM	5	3	1.7
7/6/2006	16 - Medicine Lake	14:00 PM	18:00 PM	44	4	11.0
6/27/2008	16	14:00 PM	18:00 PM	25	2	12.5
6/29/2008	16	9:15 AM	12:30 PM	11	3	3.7
7/3/2008	16	7:00 AM	13:00 PM	8	6	1.3
7/6/2008	16 - Cougar Butte	14:00 PM	18:00 PM	1	4	0.3
7/13/2008	16 - Cougar Butte	9:30 AM	12:30 PM	3	3	1.0
7/13/2008	16 - Medicine Lake	9:30	12:30	28	3	9.3
7/18/2008	16	7:00 AM	12:00 PM	9	5	1.8
7/18/2008	16	14:00 PM	19:00 PM	14	5	2.8
6/27/2008	17 - Cary Springs	9:00 AM	12:00 PM	3	3	1.0
6/27/2008	17	12:00 PM	14:00 PM	0	2	0.0
6/28/2008	17	7:30 AM	10:30	4	3	1.3
7/12/2008	17			0	2	0.0
6/22/2008	18 - 44N01	14:15 PM	17:15 PM	3	3	1.0
6/22/2008	18- Co. Rd. 97	14:15 PM	17:15 PM	25	3	8.3
7/20/2008	18 - Cougar Butte Rd	9:00 AM	13:00 PM	28	4	7.0

Date	Location	Start Time	End Time	# of veh.	Hours	veh/hr ave
7/27/2008	18	9:00 AM	11:00 AM	11	2	5.5
6/13/2008	19 - Ash Valley	10:00 AM	12:00 PM	0	2	0.0
6/13/2008	19 - Hunter's Ridge	10:00 AM	12:00 PM	1	2	0.5
7/11/2008	19	16:00 PM	19:00 PM	0	3	0.0
7/20/2008	19	12:15 AM	15:45 PM	0	3	0.0
7/20/2008	19	16:00 PM	18:15 PM	0	2	0.0
7/25/2008	19	17:15 PM	19:15 PM	0	2	0.0
7/11/2008	20	8:00 AM	15:00 PM	13	7	1.9
7/11/2008	20 - Backscatter Road	8:00 AM	15:00 PM	6	7	0.9
7/25/2008	20 - Clear Lake	9:00 AM	14:00 PM	4	5	0.8
7/25/2008	20 - Backscatter	9:00 AM	14:00 PM	0	5	0.0
			Totals	791	386	2.0

Appendix “C”

Traffic Count Log

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
6/13/2008	19 - Ash Valley	10:00 AM					NO vehicles
6/13/2008	19 - Hunter's Ridge	10:00 AM		11:11	SUV	West/Inbound	Work - Geothermal
6/20/2008	12	8:15 AM	12:15 AM	8:18	PickUp	Inbound	
				8:20	Flatbed PickUp	Inbound	Work - towing small cat.
				8:42	PickUp	Inbound	
				9:43	Flatbed PickUp	Outbound	Logging
				11:20	Flatbed PickUp	Outbound	Logging
6/20/2008	8	15:00 PM	18:00 PM	14:57	PickUp	South	Horse Trailer
				15:24	PickUp	South	Firewood gathering
				15:52	PickUp	South	Horse Trailer
				15:52	PickUp	South	Horse Trailer - SL Ranch
				15:52	PickUp	North	
				16:18	Jeep	North	Recreation
				16:28	PickUp	North	Hauling a camper
				17:15	PickUp	North	Hauling a small boat
				17:15	PickUp	North	
				17:36	PickUp	South	Law Enforcement Truck
6/20/2008	3 - Blue Lake	15:30 PM	18:30 Pm	15:42	PickUp w/boat	North	Recreation/Boating
				15:50	PickUp	South	Recreation
				16:02	PickUp	South	
				16:03	SUV	North	
				16:15	PickUp	South	Fishing (poles)
				16:18	PickUp	South	
				16:21	PickUp w/trailer	South	Rowboat and rafrt on trailer
				16:24	PickUp	South	
				16:58	PickUp	North	
				17:10	SUV w/boat	South	Camping and Fishing
				17:16	SUV	South	
				17:30	SUV	South	
				17:48	PickUp	South	
				18:17	SUV	North	same vehicle as 17:30 entry
				18:20	Bicycle	South	Recreation/Cycling
6/20/2008	3 - South Warner	15:30	18:30	15:30	PickUp	North West	
				15:38	PickUp w/	North West	Recreation/ ATV on trailer

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
					trailer		
				15:42	PickUp w/boat	North West	Recreation/Boating
				15:46	Bicycle	North West	Recreation/Cycling
				15:50	PickUp	East	Recreation
				16:02	PickUp		
				16:03	SUV	North West	
				16:15	PickUp	East	Fishing (poles)
				16:18	PickUp	East	
				16:21	PickUp w/trailer	East	Rowboat and raft on trailer, Camping (grill)
				16:24	PickUp	East	
				16:42	MiniVan	East	
				16:58	PickUp	North West	
				17:10	SUV w/boat	East	Camping and Fishing
				17:16	SUV	East	
				17:30	SUV	East	
				17:48	PickUp	East	
				18:17	SUV	East	same vehicle as 17:30 entry
				18:20	Bicycle	East	Recreation/Cycling (NOT same as 15:46)
6/21/2008	8 - Logan Slough	6:30 AM	10:30 AM	8:39	Automobile	East	Fishing
				9:00	Automobile	West	Fishing
	8 - Intersection	6:30 AM	10:30 AM	8:20	Automobile	North	
				8:36	PickUp w/trailer	North	Horse Trailer/Cattle
				8:39	Automobile	North	FireFighter
				8:39	Automobile	East	Fishing
				8:57	PickUp	North	
				9:00	Automobile	West	Return from Fishing
				9:07	FS PickUp	North	FireFighter
6/21/2008	8 - Crowder Flat	6:30 AM	10:30 AM	8:20	Automobile	North	
				8:36	PickUp w/trailer	North	Range
				8:38	Automobile	North	FireFighter
				8:51	PickUp	North	
				9:07	FS PickUp	North	FireFighter
6/21/2008	4 - Plumb Valley	8:00 AM	12:00 PM	8:14	PickUp w/camper	Outbound	Camping
				8:25	RV	Outbound	Camping
				8:50	PickUp	Inbound	
				10:03	MiniVan	Outbound	
				10:21	PickUp	Outbound	
				10:26	SUV	Outbound	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				10:41	Hatchback	Inbound	
				11:03	PickUp w/camper	Outbound	Camping - also had ATV
				11:12	SUV	Outbound	
				11:17	MDF PT 52	Inbound	FS Business
				11:30	MDF PT 52	Outbound	FS Business
6/21/2008	4 - Intersection	8:00 AM	12:00 PM	8:27	PickUp	South/Inbound	Purpose Not Evident
				8:35	SUV	South/Inbound	Camping
				8:50	PickUp	North/Outbound	Purpose Not Evident
				9:00	PickUp w/trailer	North/Outbound	Animal Trailer/Ranching
				10:21	PickUp	South/Inbound	Purpose Not Evident
				10:24	SUV	South/Inbound	Purpose Not Evident
				10:41	PickUp	South/Inbound	Liesure/Mine
				10:58	Truck/SUV	South/Inbound	Camping
				11:15	SUV	South/Inbound	Camping/Liesure
				11:40	PickUp w/trailer	South/Inbound	Animal Trailer/Ranching
6/21/2008	7	9:00 AM	12:00 PM	10:52	SUV	North/Inbound	Driver only - NO passengers
				12:02	SUV	South/Outbound	Same vehicle as above (10:52)
6/21/2008	6 - Crowder Flat	11:00 AM	15:00 PM	11:05	PickUp w/trailer	North	Range
				12:29	PickUp w/trailer	South	Range
				14:06	Jeep	North	Recreation
				14:22	FS Engine	South	Fire
6/21/2008	6 - South Main	11:00 AM	15:00 PM	11:05	Jeep	West	Recreatoin
				11:06	Jeep	West	Recreation
				11:07	Jeep	West	Recreation
				11:08	Jeep	West	Recreation
				11:09	4x4 Pickup	West	Recreation
				11:09	4x4 Pickup	West	Recreation
				11:09	Jeep	West	Recreation
				11:10	4x4 Pickup	West	Recreation
				11:11	4x4 Pickup	West	Recreation
				11:11	Jeep	West	Recreation
				11:12	4x4 Pickup	West	Recreation
				11:12	4x4 Pickup	West	Recreation
				11:13	Jeep	West	Recreation
				11:13	Jeep	West	Recreation
				11:14	Jeep	West	Recreation
				11:14	Jeep	West	Recreation
				14:27	Jeep	West	Recreation

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
6/21/2008	2	14:15 PM	16:15 PM	15:20			Counter moved to intersection w/CO1
				15:23	PickUp	East	May have come from private lane
				15:50			Counter moved back to forest entrance
				15:54	SUV	West	Obsidian Hunters
				16:05	SUV	East	Same vehicle as above (15:54)
6/21/2008	7	14:00 PM	17:00 PM	16:38	PickUp	North/Inbound	USFS Fire Vehicle
				16:48	PickUp	South/Outbound	USFS Fire Vehicle
6/22/2008	6 - Crowder Flat	7:00 AM	11:00 AM	8:45	FS Engine	South	Fire
				9:50	FS Engine	North	Fire
6/22/2008	6 - South Main	7:00 AM	11:00 AM	9:40	4x4 Pickup	West	
6/22/2008	3	10:30 AM	12:00 PM	10:30	Car	Inbound to lake	Going to Blue Lake Youth Camp
				10:45	small SUV	Outbound from lake	turned onto gravel road
				10:50	PickUp	East	going up gravel road w/Rhino
				11:00	PickUp w/trailer	Inbound to lake	Camping
				11:07	SUV	Outbound from lake	1 person
				11:07	SUV	Outbound from lake	1 person
				11:10	PickUp	Outbound from lake	Full PickUp
				11:11	Motorcycle	Inbound to lake	2 people
				11:15	FS PickUp	East	going up gravel road (Glenn)
				11:20	SUV	U turn	went back to Blue Lake
				11:24	PickUp	East	turned up gravel road
				11:35	Motorcycle	Outbound from lake	
				11:40	PickUp	Outbound	
				11:42	Van	East	turned up gravel road
				11:43	Car	Inbound to lake	Visiting for the day
				11:48	PickUp	Inbound to lake	Going to Blue Lake Youth Camp
6/22/2008	6 - Crowder Flat	11:30 AM	15:30 AM	12:00	FS PickUp	South	Fire
				12:30	SUV	North	
				12:48	PickUp w/trailer	South	Camping
				12:53	4x4 Vehicle	South	
				13:13	PickUp w/trailer	South	Camping
				13:14	Van w/trailer	South	Camping

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				13:54	4x4 Pickup	North	
				14:30	SUV	South	
				14:55	PickUp	North	
				15:00	4x4 Pickup	South	Camping
				15:15	PickUp	South	Camping
				15:20	4x4 Pickup	North	
				15:22	PickUp w/trailer	South	Camping
				15:27	PickUp w/boat	South	Fishing
6/22/2008	18 - 44N01	14:15 PM	17:15 PM	14:14	Motorcycle	East	Continued East on Co. Rd. 97
				14:14	Motorcycle	East	Continued East on Co. Rd. 97
				14:15	Jeep	East	Continued East on Co. Rd. 97
6/22/2008	18- Co. Rd. 97	14:15 PM	17:15 PM	14:13	SUV	East	
				14:34	PickUp	East	
				14:36	Semi	West	pulled off before intersection w/44W01
				15:08	Car	East	
				15:08	Car	East	
				15:11	Motorcycle	East	
				15:12	SUV w/boat	East	
				15:12	Car	West	
				15:17	Car	East	
				15:26	PickUp	West	
				15:32	car	West	
				15:43	Semi	East	came from dirt road East of intersection
				15:58	PickUp	East	ATV in back
				16:03	Car	East	
				16:06	SUV	West	
				16:11	PickUp	East	
				16:36	PickUp w/camper	East	
				16:41	PickUp	East	
				16:49	PickUp	East	
				16:52	PickUp	East	Canoe in back
				16:55	Jeep	West	
				16:55	Motorcycle	West	
				16:55	Motorcycle	West	
				16:59	PickUp	East	
				17:00	SUV	East	
6/22/2008	3	16:00 PM	17:30 PM	16:15	SUV	Inbound to Lake	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				16:20	Car	Outbound from Lake	Swimming
				16:20	VW bug	Outbound from Lake	Swimming
				16:20	PickUp	Outbound from Lake	
				16:43	SUV	Outbound from Lake	
				16:43	PickUp	Outbound from Lake	Swimming
				16:45	PickUp	East on gravel road	
				16:50	PickUp	Inbound to Lake	Fishing
				16:55	PickUp w/ATV	from East gravel road	ATVing
				17:05	PickUp w/boat	Outbound from Lake	Fishing
				17:10	PickUp w/boat	Inbound to Lake	Fishing
				17:20	PickUp w/boat	Inbound to Lake	Fishing
				17:30	Car	Outbound from Lake	from Blue Lake Youth Camp
6/26/2008	2	14:05 PM	16:00 PM	15:48	Sedan	Inbound	
6/26/2008	7	16:54 PM	19:05 PM	18:41	ATV	North	Recreation
				18:49	ATV	South then East	Same ATV as above (18:41)
6/27/2008	7	5:51 AM	8:00 AM				NO Traffic
6/27/2008	17	9:00 AM	12:00 PM	9:03	CDF Fire Engine	South	
				9:54	PickUp	North	Firewood gathering
				10:45	CDF Fire Engine	North	
6/27/2008	12 - Loveness	9:45 AM	13:43 PM	10:44	PickUp	Inbound	
				11:01	SUV	Outbound	
				11:16	PickUp w/trailer	Inbound	Horse Trailer
	12 - Washington Creek			11:44	SUV	Inbound	
6/27/2008	17	12:00 PM	14:00 PM				NO Traffic
6/27/2008	16	14:00 PM	18:00 PM	14:10	Water Truck	NW/Inbound	Water/Grating
				14:17	Car	NE/Inbound	
				14:20	Car	SW/Outbound	
				14:26	PickUp	SW/Outbound	
				14:38	SUV	NE/Inbound	
				14:47	PickUp	SW/Outbound	Fishing
				14:51	Water Truck	SE/Oubound	Water/Grating
				14:57	Hatchback	NE/Inbound	
				14:59	Car	SW/Outbound	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				15:02	Hatchback	SW/Outbound	
				15:03	Jeep	NE/Inbound	
				15:18	PickUp	SW/Outbound	Fishing
				15:20	Motorcycle	NE/Inbound	
				15:35	Water Truck	NW/Inbound	Water/Grating
				15:45	Jeep	SW/Outbound	
				15:48	Water Truck	SE/Oubound	Water/Grating
				15:49	Grater	NW/Inbound	Grating
				15:54	PickUp	SW/Outbound	
				16:09	Wagon	NE/Inbound	
				16:36	Wagon	NE/Inbound	
				17:02	Wagon	SW/Outbound	
				17:22	PickUp	SW/Outbound	
				17:22	Car	NE/Inbound	
				17:26	Wagon	NE/Inbound	
				17:43	Wagon	SW/Outbound	
6/28/2008	17	7:30 AM	10:30	7:53	PickUp	South/Inbound	Firewood gathering
				8:22	PickUp	South/Inbound	
				8:46	CDF Fire Engine	South/Inbound	Fire
				10:28	CDF Fire Engine	North/Outbound	Fire
6/28/2008	5	8:15 AM	11:38 AM	8:38	Car	Co. Rd. 2 North	Pic-Nic (2 adults, 2 children)
				8:59	Suburban	Co. Rd. 2 North	1 person
6/28/2008	8 - Logan Slough	9:15 AM	12:15 PM	10:28	PickUp w/trailer	Out	Firewood gathering
				11:36	PickUp w/trailer	In	Firewood gathering
				11:41	MiniVan	Out	
	8 - Crowder Flat	9:15 AM	12:15 PM	9:43	PickUp	South	
				10:00	Flatbed PickUp	South	Firewood gathering
				10:08	PickUp	North	
				10:28	PickUp	South	Firewood gathering
				10:33	PickUp	North	
				11:34	Jeep	North	Recreation
				11:36	PickUp	North	Firewood gathering
				11:41	MiniVan	South	
	8 - Logan Slough	12:15 PM	16:00 PM	13:47	PickUp	Out	Firewood gathering
				14:37	FS FireTruck	In	
				15:03	FS FireTruck	Out	
	8 - Crowder Flat	12:15 PM	16:00 PM	12:26	Wagon	North	
				12:29	PickUp	South	Recreation - rowboat in back

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				13:47	PickUp w/trailer	South	Firewood gathering
				13:47	PickUp	South	
				13:47	Jeep	South	Recreation
				13:47	PickUp	North	Firewood gathering
				14:19	PickUp	South	
				14:26	PickUp	South	Firewood gathering
				14:37	FS FireTruck	South	turned onto Logan Slough
				15:03	FS FireTruck	South	
				15:39	PickUp	North	Firewood gathering
				15:58	Jeep	South	Recreation
6/28/2008	3	14:00 PM	16:00 PM	14:10	Car	Outbound from Lake	
				14:30	Van	Outbound from Lake	Kayaking
				14:30	Motorcycle	Outbound from Lake	
				15:20	PickUp	Outbound from East	
				15:40	Car	Inbound to Lake	Swimming
				15:40	PickUp	Inbound to Lake	Swimming
				15:50	PickUp	Inbound to Lake	
				15:55	PickUp	Outbound from Lake	coming from Blue Lake Youth Camp
				15:55	Car	Outbound from Lake	coming from Blue Lake Youth Camp
				15:55	Jeep	Inbound to Lake	
6/29/2008	2	7:30 AM	10:45 AM	7:45	PickUp	Inbound	
				8:15	Bicycle	Outbound	Cycling
				9:27	Car	Inbound	
				9:31	SUV	Inbound	Flower Picking
				9:50	SUV	Outbound	Flower Picking
				9:56	SUV	Inbound	
				10:00	Car	Outbound	
				10:38	PickUp	Outbound	Firewood gathering
6/29/2008	16	9:15 AM	12:30 PM	9:24	Car	North East	
				9:38	PickUp w/trailer	North East	Recreation/Boating/Camping
				10:03	PickUp w/camper	South West	Recreation/Camping
				10:18	PickUp	South West	
				10:48	SUV	North East	
				10:49	PickUp w/camper	North East	
				11:14	Car	North East	
				11:24	PickUp	North East	Recreation
				11:30	PickUp w/ boat	South West	Recreation/Boating

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				11:51	PickUp	North East	
				15:17	MiniVan	South West	
6/30/2008	8	16:56 PM	19:10 PM				NO Traffic
7/1/2008	14	17:30 PM	20:00 PM				NO Traffic
7/2/2008	8	5:52 AM	7:55 AM	7:43	SUV	South on Crowder	
				7:59	SUV	North on Crowder	
7/3/2008	16	7:00 AM	13:00 PM	9:40	Van	NE/Outbound	
				10:00	PickUp	NE/Outbound	
				10:15	PickUp	SW/Inbound	Recreation/Fishing
				10:42	Van	NW/Outbound	
				10:55	Van	SW/Inbound	Recreation/Fishing
				11:12	PickUp	NE/Outbound	Recreation/Fishing
				11:13	SUV	NE/Outbound	
				11:58	SUV	SW/Inbound	
7/3/2008	7	8:00 AM	13:00 PM	10:40	PickUp	North/Inbound	Firewood gathering
				12:49	PickUp	South/Outbound	Firewood gathering (same truck as above)
7/3/2008	5	9:00 AM	11:00 AM	9:13	SUV	North	turned onto Dismal Swamp Rd. from Co. Rd.2
				9:45	SUV	South	turned out of Dismal Swamp Rd. onto Co. Rd. 2
				10:28	SUV	North	turned onto road to Mineral Spring
				10:54	SUV	South	Co. Rd. 2
7/3/2008	7	13:00 PM	17:00 PM				NO Traffic
7/3/2008	3 - Blue Lake	13:10 PM	17:10 PM	13:25	PickUp	South/Inbound	
				13:34	PickUp	South/Inbound	
				13:34	MiniVan	North/Outbound	Camping
				13:39	PickUp	North/turned East	Fishing
				13:51	PickUp	North/turned East	
				13:51	Jeep	South/Inbound	Camping
				13:52	FS Truck	North/turned West	
				14:07	MiniVan	South/Inbound	
				14:18	PickUp	North/turned East	
				14:43	PickUp	South/Inbound	
				14:51	PickUp	North/turned West	
				14:52	PickUp	South/Inbound	
				14:54	PickUp	South/Inbound	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				14:58	PickUp	North/turned West	
				15:01	Car	South/Inbound	
				15:14	Car	North/turned East	
				15:16	SUV	North/turned West	
				15:19	Jeep	North/turned East	Fishing
				15:26	PickUp	South/Inbound	
				15:36	Car	North/turned West	
				15:39	PickUp	South/Inbound	
				15:43	PickUp	South/Inbound	
				16:03	Car	South/Inbound	
				16:15	FS SUV	South/Inbound	CG Checks
				16:32	PickUp	South/Inbound	
				16:34	FS Truck	North/turned West	
				16:45	3 Wheeler	South/Inbound	Fishing
				16:56	SUV	South/Inbound	Camping
				17:03	MiniVan	South/Inbound	
7/3/2008	3 - S. Warner	13:10 PM	17:10 PM	13:13	PickUp w/camper	East	Camping
				13:14	PickUp w/camper	East	Camping
				13:19	PickUp w/camper	East	Camping
				13:25	PickUp	East	turned South onto 36N30
				13:29	PickUp w/camper	East	Camping
				13:34	MiniVan	West	Camping
				13:38	PickUp	East	Fishing
				13:51	PickUp	East	
				13:51	Jeep	East	Camping
				13:52	FS Truck	West	
				14:07	MiniVan	East	turned onto 36N30
				14:18	PickUp	East	
				14:41	PickUp	East	
				14:43	PickUp	East	turned South onto 36N30
				14:51	PickUp	West	
				14:52	Car	East	
				14:52	PickUp	East	turned South onto 36N30
				14:54	PickUp	East	turned South onto 36N30
				14:58	PickUp	West	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				15:01	Car	West	turned South onto 36N30
				15:14	Car	East	
				15:16	SUV	West	
				15:19	Jeep	East	Fishing
				15:26	PickUp	West	turned South onto 36N30
				15:36	Car	West	
				15:39	PickUp w/camper	East	Camping/Recreation (ATV in bed)
				15:39	PickUp w/camper	East	Camping
				15:39	PickUp w/camper	East	Camping
				15:39	PickUp w/camper	East	Camping
				15:39	PickUp	East	turned South onto 36N30
				15:43	PickUp	East	turned South onto 36N30
				16:03	Car	West	turned South onto 36N30
				16:07	Car	East	
				16:15	FS SUV	East	CG Checks
				16:32	PickUp	East	turned South onto 36N30
				16:34	FS Truck	West	
				16:45	3 Wheeler	East	Fishing
				16:56	SUV	East	Camping
				17:03	MiniVan	East	turned South onto 36N30
7/3/2008	5	16:00 PM	19:00 PM	18:59	SUV	East	Recreation
7/4/2008	6	7:55 AM	12:00 PM	9:32	PickUp w/boat	East on S. Main	Fishing
				10:37	ATV	North	Camping
				10:46	ATV	North	
				11:30	FS Truck	North	
				11:35	FS Truck	South	
7/5/2008	10	9:00 AM	12:00 PM	10:18	SUV	139 to 44N02	
				10:23	SUV	44N02 to 139	
7/5/2008	13	16:45 PM	19:30 PM	17:12	PickUp	West to 41N44	
				17:25	PickUp	West to 41N44	
				17:45	PickUp	East to 299	Hay in back
				17:52	PickUp	West to 41N44	
				18:11	PickUp	West to 41N44	
7/6/2008	2	7:15 AM	9:30 AM	7:20	PickUp	Inbound	
				7:22	SUV	Inbound	
				8:20	SUV	Outbound	
				9:04	Bicycles (2)	Inbound	
7/6/2006	16 - Medicine Lake	14:00 PM	18:00 PM	14:04	PickUp	North	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				14:06	SUV	South	
				14:07	PickUp	South	
				14:13	SUV	South	
				14:13	PickUp w/boat	North	Recreatoin/Boating
				14:14	FS Truck	North	
				14:38	PickUp	North	
				14:45	Car	South	
				14:57	PickUp	North	
				15:00	PickUp w/boat	North	Recreatoin/Boating
				15:01	PickUp	North	Camping
				15:17	Car	North	Fishing
				15:18	SUV	South	looking for Glass Mountain
				15:24	PickUp	South	
				15:26	SUV	South	
				15:34	PickUp w/boat	North	Recreation/Boating
				15:37	SUV	North	Camping/Recreation (bikes on top rack)
				15:39	PickUp w/camper	North	Camping/Recreation
				15:40	Car	North	Recreatoin/Swimming
				15:42	SUV	North	
				15:44	PickUp	North	
				15:46	SUV	North	Camping/Recreation
				15:48	PickUp w/camper	South	Camping/Recreation
				15:49	SUV	North	
				15:49	PickUp	South	
				15:49	SUV	North	
				15:49	SUV	North	
				15:49	PickUp	South	
				15:49	SUV	North	
				15:51	PickUp	North	
				15:51	PickUp	North	Recreation/Biking (bikes in bed)
				15:54	Car	South	
				16:15	MiniVan	North	Recreation/Kayaking (kayacks on top rack)
				16:16	SUV	South	
				16:37	SUV	North	
				16:39	PickUp	North	
				16:59	PickUp	North	
				17:04	PickUp	North	pulling Bobcat
				17:14	FS Truck	South	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				17:21	Car	North	
				17:22	SUV	North	
				17:36	Jeep	South	Camping
				17:37	Car	South	
				17:44	SUV	North	
				17:44	Jeep	North	
7/6/2008	16 - Cougar Butte	14:00 PM	18:00 PM	15:18	SUV	East	turned South onto Medicine Lake
7/10/2008	9	16:00 PM	19:00 PM	16:24	Car w/boat	West to 139	
				16:46	PickUp	East on 46N10	
				17:52	PickUp w/trailer	West to 139	Wood cutting
7/11/2008	14	8:00 AM	12:00 PM				NO Traffic
7/11/2008	20	8:00 AM	15:00 PM	8:00	PickUp	East/Inbound	Permittee
				8:32	PickUp w/trailer	East/Inbound	Permittee
				9:00	PickUp	Inbound	Permittee
				10:00	FS Truck	Inbound	
				10:04	FS Truck	Inbound	
				11:27	SUV	Outbound	Fish & Wildlife
				11:59	PickUp	Outbound	Permittee
				13:37	Road Grader	Inbound	
				13:37	PickUp	Inbound	Grader Crew
				14:03	FS Truck	Inbound	
				14:17	PickUp	Inbound	Permittee
				14:20	FS Truck	Outbound	
				14:24	PickUp	Outbound	Grader Crew
7/11/2008	20 - Backscatter Road	8:00 AM	15:00 PM	10:05	FS Truck	Inbound	
				10:39	FS Truck	Outbound	
				14:17	PickUp	Inbound	Permittee
				14:24	PickUp	Inbound	Grader Crew
				14:43	PickUp	Outbound	Permittee
				14:56	PickUp	Outbound	Grader Crew
7/11/2008	13	8:15 AM	10:15 AM	8:17	PickUp	Outbound	
				8:21	PickUp	Inbound	
				8:39	UPS Truck	Inbound	
				8:53	UPS Truck	Outbound	
				9:03	Car	Outbound	
7/11/2008	3 - Blue Lake	8:25 AM	12:25 PM	8:27	Car	South	
				9:03	PickUp w/boat	South	Boating
				9:08	FS truck	South	CG Maintenance
				9:15	PickUp w/boat	South	Boating

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				9:31	FS truck	North	turned East
				9:40	PickUp	North	turned West
				9:44	PickUp	North	turned East
				10:14	Car	North	turned West
				10:29	Car	North	turned East
				10:31	Fish & Game Truck	South	Delivering Fish from Crystal Lake Hatchery
				10:33	PickUp	North	turned West
				11:03	PickUp w/boat	South	Boating
				11:03	Car	North	Catching Butterflies
				11:18	PickUp	South	
				11:19	PickUp	North	turned West
				11:25	PickUp	South	
				11:26	Fish & Game Truck	North	turned West
				11:27	SUV w/trailer	North	turned West
				11:34	PickUp w/boat	North	turned West - Boating
				11:46	PickUp	South	Canoeing/Camping
				11:59	PickUp	North	turned West
				12:22	PickUp	South	
7/11/2008	3 - South Warner	8:25 AM	12:25 PM	8:27	Car	East	turned South
				8:33	PickUp	West	
				8:45	PickUp	East	
				9:03	PickUp w/boat	East	Boating - turned South
				9:06	Flatbed w/trailer	East	
				9:08	FS truck	East	CG Maintenance - turned South
				9:15	PickUp w/boat	East	Boating - turned South
				9:31	FS truck	East	
				9:40	PickUp	West	
				9:41	PickUp w/trailer	East	
				9:52	Flatbed w/trailer	West	Logging
				10:14	Car	West	
				10:29	Car	East	
				10:31	Fish & Game Truck	East	turned South
				10:33	PickUp	West	
				11:03	PickUp w/boat	East	Boating
				11:03	Car	East	Catching Butterflies
				11:18	PickUp	East	turned South
				11:19	PickUp	West	
				11:25	PickUp	East	turned South

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				11:26	Fish & Game Truck	West	
				11:27	SUV w/trailer	West	
				11:34	PickUp w/boat	West	Boating
				11:35	Flatbed w/trailer	East	Logging
				11:37	PickUp	West	
				11:46	PickUp	East	Camping/Canoeing - turned South
				11:59	PickUp	West	
				12:02	FS Truck	West	
				12:12	Flatbed w/trailer	West	Logging
				12:19	PickUp	West	
				12:22	PickUp	East	
7/11/2008	2	8:35	11:45 AM	9:00	FS Truck	Outbound	
				10:15	SUV	Inbound	
				10:57	SUV	Outbound	
7/11/2008	9 - Mowitz Road	10:30 AM	13:30 PM	10:38	FS Truck	Outbound	
				10:40	FS Truck w/trailer	Outbound	
				11:05	FS Truck	Outbound	
				11:46	FS Engine	Inbound	
				11:58	FS Engine	Outbound	
				12:27	FS Truck	Inbound	
				12:29	FS Engine	Oubound	
				12:35	PickUp	Inbound	
				13:19	PickUp w/boat	Outbound	
7/11/2008	12	13:30 PM	15:30 PM				NO Traffic
7/11/2008	19	16:00 PM	19:00 PM				NO Traffic
7/12/2008	2	7:30 AM	9:30 AM				NO Traffic
7/12/2008	11	15:35 PM	17:15 PM	15:12	PickUp	Inbound	
				17:08	Car	Inbound	
7/12/2008	17						NO Traffic
7/13/2008	6	8:30 AM	12:30 PM	8:58	Car	Inbound	
				9:18	FS Truck	Inbound	
				10:30	FS Truck	Inbound	
				12:07	PickUp	Outbound	
7/13/2008	16 - Cougar Butte	9:30 AM	12:30 PM	9:58	PickUp	West	
				10:49	Camper Van	West	Camping
				11:49	Motorcycle	East	turned South on 44N70
7/13/2008	16 - Medicine Lake	9:30	12:30	9:50	SUV	South	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				9:58	PickUp	North	turned West on 44N01
				10:17	Car	South	
				10:18	Car	South	
				10:24	SUV	North	
				10:24	Suburban	North	
				10:38	MiniVan	South	Camping/Biking
				10:43	Sheriff SUV	South	
				10:49	Camper Van	North	turned West on 44N01
				11:00	PickUp w/boat	South	Recreation/Boating
				11:02	PickUp	North	Camping
				11:04	SUV	North	Caving
				11:05	SUV	North	
				11:06	Car	North	
				11:26	SUV	North	
				11:41	PickUp	South	Camping/BBQ
				11:42	PickUp	South	
				11:44	PickUp	North	Camping/BBQ
				11:47	FS Truck	South	CG Checks
				11:49	Motorcycle	South	
				11:51	Car	South	
				12:04	SUV	North	headed to Tuelake
				12:05	Car	North	Camping
				12:06	Car	North	
				12:07	MiniVan	South	
				12:09	MiniVan	North	Caving
				12:24	SUV	South	
				12:28	SUV	South	
7/13/2008	12	9:30 AM	12:00 PM	9:30	Van	North East	Mountain Biking
				11:13	4x4 PickUp	East	
7/13/2008	5	10:15 AM	12:15	10:52	SUV	Outbound	Mineral Spring to South bound Co. Rd. 2
				11:38	SUV	North	Northbound Co. Rd. 2
7/13/2008	Parker Creek	11:00 AM	13:00 PM	11:37	SUV	Inbound	scouting for deer (from the bay area)
				11:53	SUV	Outbound	
				11:58	Van	Outbound	
				12:05	PickUp	Inbound	
				12:07	PickUp	Outbound	
				12:10	SUV	Outbound	
				12:12	PickUp	Outbound	
				12:28	Truck	Inbound	Horse Trailer
7/13/2008	12	12:00 PM	15:00 PM				NO Traffic

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
7/13/2008	9	13:45	16:45 PM	15:15	PickUp	East - West to 139	Looking for Bitterbrush
				15:38	PickUp	East on 46N10	
				16:16	PickUp w/ camper	West to 139	Caming
7/13/2008	8 - Logan Slough	14:15 PM	17:15 PM	14:30	Suburban	Outbound	turned South on 48N08
				14:57	PickUp	Outbound	
				15:12	MiniVan	Inbound	turned South on 48N08
				15:18	PickUp	Outbound	turned South on 48N08
7/13/2008	8 - Crowder Flat	14:15 PM	19:15 PM	14:12	PickUp	South	
				14:27	PickUp w/camper	South	Camping
				14:28	SUV	South	
				14:30	Suburban	South	
				14:57	PickUp	South	
				14:59	MiniVan	North	
				15:12	MiniVan	North	turned East on 45N06
				15:18	PickUp	South	
				15:19	PickUp	North	
				15:27	PickUp	North	turned around at 45N06
				15:43	PickUp w/camper	South	Camping
				15:46	PickUp w/camper	South	Camping
				16:08	PickUp w/boat	South	Boating/Water Activitirs
				16:16	PickUp	South	
				16:22	SUV	South	
7/13/2008	10	17:00 PM	19:00 PM				NO Traffic
7/14/2008	Parker Creek	8:30 AM	10:35 AM	8:32	Truck	Inbound	
				8:47	Truck	Outbound	
				8:51	Truck	Outbound	
				9:14	Truck	Inbound	Property Owner
				9:32	Truck	Outbound	
				10:24	Truck	Outbound	
				10:31	Truck	Outbound	
7/16/2008	10	14:30 PM	16:30 PM	15:30	FS SUV	44N02 to 139	Arch Crew
				16:00	FS SUV	44N02 to 139	Arch Crew
7/16/2008	15	16:45 PM	19:30 PM	16:45	Service Truck	East on Mudlake	Railroad Service Truck
				18:21	PickUp	West on Mudlake	
				19:15	FS Truck	East on Mudlake	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
7/18/2008	11	7:00 AM	12:00 PM				NO Traffic
7/18/2008	16	7:00 AM	12:00 PM	8:17	Car	NE/Outbound	
				8:40	Wagon	NE/Outbound	
				9:08	PickUp	SW/Inbound	Fishing
				9:37	Van	SW/Inbound	
				10:43	PickUp	NE/Outbound	
				11:09	SUV	NE/Outbound	Recreation
				11:15	Wagon	SW/Inbound	
				11:25	PickUp	SW/Inbound	Recreation
				11:41	Van	SW/Inbound	
7/18/2008	16	14:00 PM	19:00 PM	14:01	SUV	NE/Outbound	
				14:11	Jeep	NE/Outbound	
				14:43	PickUp	SW/Inbound	
				14:50	Car	NE/Outbound	
				14:55	Car	SW/Inbound	
				15:13	SUV	NE/Outbound	
				15:33	SUV	NE/Outbound	
				15:49	PickUp	SW/Inbound	
				16:17	Car	NE/Outbound	Recreation
				16:43	PickUp	NE/Outbound	Fishing
				16:47	SUV	SW/Inbound	
				17:09	PickUp	SW/Inbound	Recreation
				17:26	Wagon	NE/Outbound	
				17:57	Jeep	NE/Outbound	
7/18/2008	13	14:15 PM	16:30 PM	14:20	PickUp	West to 41N44	
				15:00	FS Truck	East to Hwy 139	
				15:30	Car	West to 41N44	
				15:35	PickUp	East to Hwy 139	
				15:45	Engine 54	East to Hwy 139	
				16:10	PickUp	West to 41N44	Horse Trailer
7/18/2008	5	16:30 PM	19:00 PM	17:30	PickUp		turned around in intersection
				18:00	RV	East	
				18:15	4x4 SUV	East	
7/19/2008	13	8:30 AM	11:45 AM	8:53	SUV	West on 41N44	
				10:52	PickUp	West on 41N44	
				11:07	PickUp	West on 41N44	
7/19/2008	10	8:30 AM	11:45 AM				NO Traffic
7/19/2008	14	9:00 AM	11:30 AM				NO Traffic
7/19/2008	13	12:30 PM	15:30 PM	12:50	PickUp	East to Hwy 139	Resident
				14:19	PickUp	West to 41N44	Resident
7/19/2008	15	12:45 PM	16:15 PM	13:00	PickUp	West on 42N56	
				15:34	PickUp w/trailer	West on 42N56	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
7/19/2008	10	16:30 PM	19:00 PM				NO Traffic
7/20/2008	15	7:00 AM	9:00 AM	8:35	PickUp	West on Mudlake	CDF Employee
				8:53	PickUp	West on Mudlake	CDF Equipment
7/20/2008	14	8:15 AM	12:00 PM	11:30	SUV	West to Hwy 299	
7/20/2008	18	9:00 AM	13:00 PM	9:00	Car	Outbound	Co. Rd. 97
				9:19	PickUp	Outbound	Co. Rd. 97
				9:37	FS Truck	Inbound	Co. Rd. 97
				9:39	PickUp w/trailer	Outbound	Co. Rd. 97 - collecting wood
				9:40	PickUp	Outbound	Co. Rd. 97 - collecting wood
				9:41	PickUp w/boat	Inbound	Co. Rd. 97
				9:45	PickUp w/boat	Inbound	Co. Rd. 97
				10:07	SUV	Inbound	Co. Rd. 97
				10:08	PickUp	Inbound	Co. Rd. 97
				10:08	SUV	Outbound	Co. Rd. 97
				10:08	PickUp	Inbound	Co. Rd. 97
				10:39	SUV	Inbound	Co. Rd. 97
				10:48	Car	Inbound	Co. Rd. 97
				11:01	PickUp w/camper	Outbound	Co. Rd. 97
				11:02	PickUp	Inbound	Co. Rd. 97 - camping
				11:02	PickUp w/camper	Inbound	Co. Rd. 97
				11:07	Car	Inbound	Co. Rd. 97
				11:21	SUV	Inbound	Co. Rd. 97
				11:37	Car	Inbound	Co. Rd. 97
				11:46	SUV	Outbound	Co. Rd. 97
				12:34	Car	Outbound	Co. Rd. 97
				12:36	PickUp w/camper	Outbound	Co. Rd. 97
				12:36	PickUp	Inbound	
				12:36	Car	Inbound	
				12:37	Car	Outbound	
				12:37	Car	Outbound	
				12:38	SUV	Inbound	
				12:42	PickUp	Outbound	
7/20/2008	9	9:15 AM	12:00 PM	10:01	SUV	East on 46N10	
				10:03	PickUp	East on 46N10	Boating
7/20/2008	19	12:15 AM	15:45 PM				NO Traffic
7/20/2008	9	12:30 PM	15:30 PM	13:17	Van	In and Out	Turnaround
				13:20	PickUp	West to 139	
				13:25	PickUp	East on 46N10	Fishing

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				13:30	SUV	East on 46N10	
				13:31	PickUp	West to 139	ATVing
				13:34	SUV	East on 46N10	ATVing
				13:35	PickUp	East on 46N10	ATVing
				13:37	PickUp	East on 46N10	ATVing
				13:48	PickUp	West to 139	ATVing
				13:50	PickUp	West to 139	Boating
				14:00	PickUp	West to 139	Boating
				14:02	Jeep	West to 139	Fishing
				14:14	PickUp	West to 139	Fishing
				15:05	SUV	West to 139	
				15:25	PickUp	West to 139	Boating
				15:27	PickUp	West to 139	Boating
				15:30	Jeep	West to 139	
				15:32	PickUp	West to 139	
7/20/2008	Parker Creek	13:10 PM	15:10 PM	14:22	Motorcycle	Outbound	
7/20/2008	11	13:15 PM	17:15 PM	13:56	PickUp	Outbound	
				14:09	PickUp	Outbound	Wood Collecting
7/20/2008	19	16:00 PM	18:15 PM				NO Traffic
7/21/2008	13	16:45 PM	19:30 PM	17:24	PickUp	East to 299	
				18:02	PickUp	East to 299	
				18:22	Car	East to 299	
				18:35	PickUp	East to 300	
				18:50	Service Truck	East to 301	
				18:54	PickUp	East to 302	
				19:00	Service Truck	East to 303	
7/23/2008	9	9:30 AM	13:30 PM	9:30	PickUp	Outbound	Wood cutting
				10:13	FS Truck	Inbound	
				11:18	FS Truck	Outbound	
				11:32	Car	Inbound	
				11:40	PickUp	Outbound	Camping
				11:43	Jeep	Inbound	Camping
				11:56	FS Truck	Inbound	
				12:14	FS Truck	Outbound	
				12:17	Car	Inbound	
				12:23	Car	Outbound	
				12:41	PickUp	Inbound	
7/23/2008	10	15:00 PM	17:00 PM	15:07	PickUp w/trailer	East on 44N02	Trees Inc. with water pump
				15:40	FS Truck	West to 139	
				16:00	FS Truck	West to 139	
				16:37	PickUp w/trailer	West to 139	Trees Inc. with water pump

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
7/23/2008	15	17:15 PM	19:15 PM	18:07	FS Truck	East to 91	
				18:09	FS Truck	East to 91	
				18:23	Car	East to 91	
7/24/2008	6	18:00 PM	20:30 PM	18:10	FS Truck	South (Crowder)	Going home from CF Guard Station
				18:17	PickUp	East (South Main)	Going home from CF Guard Station
				18:17	PickUp	South (Crowder)	Going home from CF Guard Station
				18:17	PickUp	South (Crowder)	Going home from CF Guard Station
7/25/2008	2	7:30 AM	9:45 AM	9:37	PickUp	Inbound	
7/25/2008	3 - Blue Lake	8:50 AM	12:20 PM	9:06	Sheriff Truck	North	turned East
				9:29	Sheriff Truck	South	returning home
				9:50	Van	North	turned West
				10:34	PickUp	South	
				10:44	PickUp	North - then South	let an animal out of cage
				10:45	Camper	North	Camping - turned West
				10:45	PickUp	North	turned West
				11:24	Car	South	
				11:35	PickUp	North	turned West
				11:37	SUV	North	Camping - turned East
				11:55	SUV	South	
7/25/2008	3 - South Warner	8:50 AM	12:20 PM	9:06	Sheriff Truck	East	taking a call
				9:29	Sheriff Truck	West	turned South - returning home
				9:40	FS Truck	West	
				9:50	Van	West	
				9:51	CHP SUV	East - then West	turned around in intersection
				10:34	PickUp	East	turned South
				10:45	Camper	West	Camping
				10:45	PickUp	West	
				11:24	Car	East	turned South
				11:35	PickUp	West	
				11:37	SUV	West	Camping
				11:55	SUV	East	turned South
7/25/2008	20 - Clear Lake	9:00 AM	14:00 PM	9:52	MiniVan	Inbound	
				11:52	PickUp	Inbound	Fishing
				12:09	MiniVan	Outbound	
				13:30	PickUp	Inbound	ATVing

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
7/25/2008	20 - Backscatter	9:00 AM	14:00 PM				NO Traffic
7/25/2008	14	15:00 PM	17:15 PM	16:30	FS Vehicle	East on 40N22	
				17:15	Car	West to 299	
7/25/2008	19	17:15 PM	19:15 PM				NO Traffic
7/26/2008	14	7:45 AM	9:45 AM				NO Traffic
7/26/2008	15	9:00 AM	12:00 PM	9:02	PickUp	West	
				9:14	Flatbed Truck	West	Contractor Water Wagon
				9:22	FS Truck	West	Fire Support
				9:25	FS Truck	West	
				10:25	Car	East to 91	
7/26/2008	8 - Crowder Flat	10:15 AM	12:15 AM	10:16	FS SUV	North	Traffic Counts
				10:33	PickUp	North	turned in East
				10:36	PickUp	South	Firewood collecting
				10:37	PickUp	South	Firewood collecting
				10:38	SUV	North	Recreation
				10:40	PickUp w/trailer	South	Firewood collecting
				10:48	FS Fire Truck	North	
				12:00	PickUp	North	Firewood collecting
				12:05	PickUp	South	Firewood collecting
7/26/2008	8 - Logan Slough	10:15 AM	12:15 PM	10:33	PickUp	East/Inbound	
				10:36	PickUp	West/Outbound	Firewood collecting
				10:37	PickUp	West/Outbound	Firewood collecting
				10:40	PickUp w/trailer	West/Outbound	Firewood collecting
				12:00	PickUp	East/Inbound	Firewood collecting
7/26/2008	6	11:00 AM	14:00 PM	11:10	MiniVan	Inbound	Sight-seeing
				11:36	PickUp w/trailer	Outbound	Hunting/2 ATV in trailer
				12:36	SUV	Inbound	
				12:48	SUV	Outbound	
7/26/2008	14	17:45 PM	19:45 PM	18:36	Motorcycle	East to 299	
7/27/2008	4	8:00 AM	12:00 PM	9:14	SUV	Outbound	
				9:22	PickUp	Outbound	Ranch Work
				10:06	SUV	Inbound	
				10:16	Sedan	Outbound	Ranch Work - Horse Trailer
				10:16	PickUp w/trailer	Outbound	
				10:24	PickUp	Inbound	Ranch Work
				10:54	MiniVan	Inbound	
				10:57	PickUp	Outbound	
				11:09	PickUp	Inbound	
				11:49	Van	Outbound	
7/27/2008	18	9:00 AM	11:00 AM	9:13	PickUp	Outbound	

Date	Location	Start Time	End Time	Time	Vehicle Type	Direction of Travel	Comments
				9:30	RV	Outbound	Firewood collecting
				9:41	PickUp	Outbound	
				9:41	FS Truck	Inbound	
				9:41	Car	Inbound	
				9:42	PickUp	Outbound	
				9:45	PickUp	Inbound	Hauling boat
				10:20	PickUp	Outbound	
				10:20	PickUp	Outbound	Firewood collecting
				10:34	PickUp	Outbound	Firewood collecting
				10:49	SUV	Inbound	
7/27/2008	11	11:15 AM	14:15 PM	12:41	PickUp	Inbound	
				13:46	PickUp	Outbound	

Appendix O: Tribal Relations

Native American Intergovernmental Affairs: Modoc National Forest, Tribal Relations Program

Origins of Native American Intergovernmental Affairs

The United States and the 562 federally recognized tribes share a unique relationship whose foundation lies in the earliest history of this country.⁷ The settlement of the New World began with Native American tribes possessing a clear strategic advantage over the 13 colonies, both militarily and economically; consequently, early American treaties with Indian tribes emphasized both tribal sovereignty and property rights.⁸ Also, treaties were intended to deter foreign powers from forging alliances with Native Americans on U.S. promises of protection and trade.⁹ Good relations with Indian tribes were paramount to American foreign policy since tribes protected U.S. western and southern borders from European aggressors similar to what the Warsaw Pact did for the U.S.S.R. in the 20th century.¹⁰ The practice of treaty making continued as the country reconstituted itself under the United States Constitution in 1787.¹¹ Over 371 treaties were negotiated with Native American tribes by special commissioners acting on behalf of the President and under oversight by the War Department until 1849; subsequently, oversight was transferred to the newly established Department of the Interior.¹² The U.S. Senate continued to ratify Indian treaties between 1787 and 1871, which “under the Authority of the United States shall be the supreme Law of the Land.”¹³ Treaties are superior to state constitutions and state laws.¹⁴ The U.S. House of Representatives protested their exclusion over the Indian treaty-making process by passing the Indian Appropriations Act of 1871. The action prevented Congress from entering into any treaties with Indian tribes (25 U.S.C. § 71).¹⁵

⁷ Federal Register, Department of the Interior, Bureau of Indian Affairs, Indian Entities Recognized and Eligible to Receive Services from the United States Bureau of Indian Affairs (Washington, D.C.: U.S. Government Printing Office, Volume 73, No. 66, 2008), 18553.

⁸ Charles Wilkinson, *Indian Tribes as Sovereign Governments*, 2nd ed. (Oakland: American Indian Lawyer Training Program, 2004), 93.

⁹ *Ibid.*, 93-96; *Johnson v. M'Intosh*, 21 U.S. 543, 5 L.Ed. 681, 8 Wheat. 543 (1823).

¹⁰ Wilkinson, *Indian Tribes as Sovereign Governments*, 93-94.

¹¹ Yale Law School, “The Avalon Project—Documents in Law, History and Diplomacy,” under “Report of Proceedings in Congress; February 21, 1787,” http://avalon.law.yale.edu/18th_century/const04.asp (accessed October 14, 2008).

¹² The National Archives, “Records of the Committee on Indian Affairs, 1820-1946,” under “Chapter 12. Records of the Committee on Interior and Insular Affairs and Predecessor Committees, 1816-1968,” <http://www.archives.gov/legislative/guide/senate/chapter-12-indian-affairs.html#1-41> (accessed October 14, 2008).

¹³ U.S. Constitution, in article 2, section 2, President “shall have the power, by and with the advice and consent of the Senate to make Treaties, provided two thirds of the Senators present concur,” and article 6.

¹⁴ *Worcester v. State of Georgia*, 31 U.S. 515 (1832).

¹⁵ Wilkinson, *Indian Tribes as Sovereign Governments*, 97.

The Source of Federal Trust Responsibilities

As non-Indian populations dramatically increased coupled with industrial revolutionary technological advances and the War of 1812, Indian tribes suffered a shift in the balance of power that favored the United States; consequently, Congress increased their use of treaties as instruments for massive land concessions from American Indians.¹⁶ Land concessions obligated the nation to tribes when aboriginal territories were exchanged for U.S. promises set forth in treaties.¹⁷ The obligation is known as, “the doctrine of trust responsibility,” was first articulated in a U.S. Supreme Court opinion of Chief Justice John Marshall.¹⁸ The Honorable John Marshall created two distinctions. Firstly, Chief Justice Marshall limited the sovereign status of Indian tribes by designating all tribes as “domestic dependent nation.”¹⁹ Lastly, federal trust responsibility is drawn from the reference, “Their (Indian tribes) relation to the United States resembles that of a ward to his guardian.”²⁰ The Honorable Frank Murphy, Justice on the U.S. Supreme Court, further distinguished trust responsibility in his opinion to the Court in 1941:

In carrying out its treaty obligation with the Indian tribes the Government is something more than a mere contracting party. Under a humane and self imposed policy which has found expression in many acts of Congress and numerous decisions of this Court, it has charged itself with moral obligations of the highest responsibility and trust. Its conduct, as disclosed in the acts of those who represent it in dealings with Indians, should therefore be judged by the most exacting fiduciary standards.²¹

Again, fiduciary responsibilities are based upon treaties, which are, “not a grant of rights to the Indians, but a grant of right from them, – a reservation of those not granted.”²²

Forest Service Trust Responsibilities

The USDA Forest Service, Southwest Pacific Region (Region 5), Modoc National Forest, is an agency of the federal government, whose obligation toward Native American tribes is governed by trust responsibility and where, “any Federal government action is subject to the United States’ fiduciary responsibilities toward the Indian tribes.”²³ The scope of these trust responsibilities are defined by the Constitution, Congress, courts, the executive branch, and statutes to protect and maintain the lands, resources and traditional use areas of Indians.²⁴ Presently, the Modoc National Forest consists of 1,979,407 acres of which 1,654,392 acres are administered by the Modoc National Forest, which includes portions of the aboriginal homelands for six federally recognized tribes, which are as follows:

Alturas Indian Rancheria, California; and

¹⁶ Wilkinson, *Indian Tribes as Sovereign Governments*, 93-96.

¹⁷ *Ibid*, 53.

¹⁸ *Cherokee Nation v. The State of Georgia*, 30 U.S. 1 (1831).

¹⁹ Mary Christina Wood, “Origins and Development of the Trust Responsibility: Paternalism or Protection?” [paper presented at the Federal Bar Association-28th Annual Indian Law Conference, Albuquerque, NM, April 10, 2003]

²⁰ *Cherokee Nation v. The State of Georgia*, 30 U.S. 1 (1831)..

²¹ *Seminole Nation v. United States*, 316 U.S. 286, 296-97 (1941).

²² *United States v. Winans*, 198 U.S. 371, 25 S.Ct. 662, 49 L.Ed. 1089 (1905).

²³ *Covelo Indian Community v. FERC*, 895 F.2d 581 (9th Cir. 1990); *Nance v. EPA*, 645 F.2d 701, 711 (9th Cir. 1981).

²⁴ *U.S. v. Mitchell*, 463 U.S. 206 (1983); U.S. Department of Agriculture. 2008. Prepared by the Office of the General Council. Departmental Regulation: *Policies on American Indians and Alaska Natives [March 14, 2008]* No. 1340-007.

Cedarville Rancheria, California; and
 Fort Bidwell Indian Community of the Fort Bidwell Reservation of California; and
 Klamath Tribes, Oregon (formerly the Klamath Indian Tribe of Oregon); and
 Modoc Tribe of Oklahoma; and
 Pit River Tribe, California (includes XL Ranch, Big Bend, Likely, Lookout, Montgomery Creek and Roaring Creek Rancherias); and
 Susanville Indian Rancheria, California.²⁵

Also, the Modoc National Forest includes the indigenous territories of two federally unrecognized tribes, which are as follows:

The Shasta Tribe, Inc.; and

The Shasta Nation, Inc. (Confederated Bands of the Shasta and Upper Klamath River Indians).²⁶

Brief on Selected Tribes of the Modoc National Forest

Modoc Tribe of Oklahoma

The Modoc Tribe of Oklahoma were followers of Keintpoos ‘having the water-brash’ who is commonly known as Captain Jack.²⁷ The nation belonged to the amalgamation of tribes that signed the 1864 Treaty of Klamath Lake, Oregon with the Klamath, Modoc, and Yahooskin Band of Snake Indians.²⁸ The refusal of Captain Jack to remain on the Klamath reservation led to the Modoc War of 1872-73, which ended in the execution of Keintpoos on October 2, 1873, and the relocation of 153 Modoc men, women, and children to the Quapaw Agency in Oklahoma.²⁹ The Eastern Shawnee purchased 4,000 acres of trust land for the Modoc in 1874; however, Modoc populations dwindled to 99 natives by 1879 and only 68 Modoc were eligible to receive allotments following the passage of the General Allotment Act of 1887.³⁰ The U.S. Congress authorized the remaining Modoc survivors to return to the Klamath Tribes, Oregon, on March 3, 1909, but many remained or returned to Oklahoma.³¹ Upheavals in national Indian policy prevailed following the Hoover Commission, Indian Reorganization Act of 1934, and World War

²⁵ Federal Register, Department of the Interior, Bureau of Indian Affairs, Indian Entities Recognized and Eligible to Receive Services from the United States Bureau of Indian Affairs (Washington, D.C.: U.S. Government Printing Office, Volume 73, No. 66, 2008), 18553; Modoc National Forest, “About Us: Forest Facts,”

<http://www.fs.fed.us/r5/modoc/about/index.shtml> [accessed October 29, 2008].

²⁶ Dan Meza, “Tribal Contact Information of the Modoc National Forest,” Modoc National Forest [March 30, 2008].

²⁷ Keith A. Murray, *The Modocs and Their War* [Norman: University of Oklahoma Press, 1959], 35. “The leader of the Modoc group who adjusted best to the new ways in Yreka was *Keintpoos*, dubbed, for a joke, by Judge Steele as ‘Captain Jack’ because of an alleged resemblance to one of the miners of that community.”; Access Genealogy-Indian Tribal Records, “Modoc Indian Chiefs and Leaders,”

<http://www.accessgenealogy.com/native/tribes/modoc/modocindianchiefs.htm> [accessed October 29, 2008].

²⁸ “Treaty with the Klamath, etc., 1864,” October 14, 1864, 16 Stats., 707., Ratified, July 2, 1866, Proclaimed February 17, 1870, *Indian Affairs: Laws and Treaties. Vol. II (Treaties)*. Compiled and edited by Charles J. Kappler. Washington: Government Printing Office, 1904, http://www.fws.gov/Pacific/ea/tribal/treaties/Klamath_1864.pdf [accessed October 29, 2008].

²⁹ Murray, *The Modocs and Their War*, 304, 318.

³⁰ Patricia Shruggs Trolinger, “The History of the Modoc Tribe of Oklahoma,” Modoctribe.net. <http://www.modoctribe.net/history.html> [accessed October 29, 2008].

³¹ Chapter 253, Mar. 3, 1909. [H. R. 16743.] [Public, No. 306.] 35 Stat., 751. Section 5; Trolinger.

II with federal trust responsibility being utilized as an instrument against tribes. The enactment of Public Law 83-280 on August 15, 1953, facilitated the termination of both the Klamath and Modoc Tribes.³² Again, Federal Indian policy revolved when President Richard Milhous Nixon repudiated the former Indian policy of termination with his address to Congress on July 8, 1970.³³ President Nixon introduced a new Indian policy of Self-Determination, which continues to be followed today. The Modoc Tribe of Oklahoma acted on this new policy and was recognized as a tribe on May 15, 1978.³⁴ The Modoc tribe remains the only federally recognized entity with traditional cultural properties in the national forest that is without the jurisdictional concerns of Public Law 83-280.

Pit River Tribe, California (Includes XL Ranch, Big Bend, Likely, Lookout, Montgomery Creek and Roaring Creek Rancherias)

The Modoc National Forest encompasses portions of the Pit River Tribe, which is one of five California tribes and one Oregon tribe of the national forest whose tribal jurisdictions are subject to Public Law (P.L.) 83-280.³⁵ The passage of P.L. 83-280 authorized state criminal jurisdiction over Indians and non-Indians in the mandatory states of California, Minnesota, Nebraska, Oregon and Wisconsin with Alaska as the 6th state; moreover, P.L. 83-280 transferred criminal jurisdiction to those mandatory states without tribal consent between 1953 and 1968.³⁶ Non-mandatory states or optional states could enact P.L. 83-280 by legislative action; however, the law was amended in 1968 to where tribes must provide consent.³⁷

The switch to state jurisdiction also meant a decline in potential tribal control over law enforcement because tribes under Public Law 280 could not take advantage of the 1975 Indian Self-Determination Act to contract with the BIA [Bureau of Indian Affairs] for the administration of their own law enforcement services.³⁸

The Pit River Tribe, California, and 106 tribes of California have not requested the state to retrocede their jurisdiction back to the United States; furthermore, all California tribes are subject to P.L. 83-280.³⁹ Public Law 83-280 is an example of Congress utilizing federal trust responsibility as an instrument to assimilate tribes, which convolutes issues of tribal, federal and state jurisdiction within the Modoc National Forest. The late President Richard M. Nixon redirected American Indian policy to Self-Determination, which Congress enacted as Public Law (P.L.) 93-638, the Indian Self-Determination and Education Assistance Act of 1975.⁴⁰ P.L. 93-638 provides federal government-to-government authorities for agencies to contract with tribes;

³² Public Law **83-280**, August 15, 1953, codified as 18 U.S.C. § 1162, 28 U.S.C. § 1360, and 25 U.S.C. § 1321–1326; 25 U.S.C. 564.

³³ Environmental Protection Agency. Presidential Documents, “President Nixon, Special Message on Indian Affairs,” [July 8, 1970] <http://www.epa.gov/tribalportal/pdf/president-nixon70.pdf> [accessed on October 29, 2008].

³⁴ 25 U.S.C. 861a; U.S. Government Accountability Office, Report: “Indian Issues: BLM’s Program for Issuing Individual Indian Allotments on Public Lands Is No Longer Viable,” GAO-07-23R BLM Indian Allotments, [October 20, 2006] 16.

³⁵ Wilkinson, *Indian Tribes as Sovereign Governments*, 126; Public Law (P.L.) 83-280, August 15, 1953, codified as 18 U.S.C. § 1162, 28 U.S.C. § 1360, and 25 U.S.C. § 1321-1326.

³⁶ Garole Goldberg, J.D., Duane champagne, Ph.D., “Final Report: Law Enforcement and Criminal Jurisdiction Under Public Law 280,” [November 1, 2007], vi, 3.

³⁷ *Ibid.*, vi.

³⁸ *Ibid.*, 6.

³⁹ Garole Goldberg, J.D., Duane champagne, Ph.D., “Final Report: Law Enforcement and Criminal Jurisdiction Under Public Law 280,” [November 1, 2007], 9.

⁴⁰ P.L. 93-638, Approved January 4, 1975 (88 Stat. 2203).

however, those authorities are limited by statute to the Department of the Interior and Department of Health and Human Services.

The Pit River Tribe, California, was federally recognized by the Secretary of the Interior through an Act of Congress on August 13, 1946.⁴¹ The tribe is a confederation of eleven bands as follows, under a constitution adopted in 1964:

- | | | |
|-------------|--------------|----------------|
| 1. Ajumawi | 5. Atwamsini | 9. Kosealekte |
| 2. Astariwi | 6. Hammawi | 10. Madesi |
| 3. Aporige | 7. Illmawi | 11. Hewisedawi |
| 4. Atsugewi | 8. Itsatawi | |

The traditional cultural properties of the tribe are described as the 100-mile square by the Pit River Tribe, which were based upon natural boundaries of mountains and watersheds; however, exact boundaries that was offered as evidence to the Indian Claims Commission was not specific, according to the commission.⁴³ Nevertheless, tribal trust land and fee patent land of the Pit River Tribe, California, lies within or abuts the boundaries of the Modoc National Forest; therefore and pursuant to Executive Order 13175, the national forest maintains a government-to-government consultation agreement with the tribe to assist the agency’s execution of its’ federal trust responsibility.⁴⁴ The Pit River Tribal Council was advised by the Modoc National Forest to close roads under the agency’s Travel Management Guidelines during a scheduled consultation held on Wednesday, 3 September 2008.⁴⁵ Irvin Brown, Tribal Councilman-Kosealekte Alternate, stated during the meeting that the plan was acceptable provided that road closures not impede tribal members from accessing sacred sites or traditional cultural properties.⁴⁶

Klamath Tribes, Oregon

The Klamath Tribes, Oregon, is subject to state jurisdiction under Public Law 83-280, where, “state or county law enforcement replaced the Bureau of Indian Affairs police, and state criminal trials largely replaced those carried out by the federal government.”⁴⁷

⁴¹ Indian Claims Commission, No. 347, *The Pit River Indians of California, Petitioners v. The United States of America*, Defendant, Smithsonian Institution [August 11, 1951], 1.

⁴² Pit River Tribe, Tribal Contact List, [January 22, 2008]; Native American Rights Fund, “National Indian Law Library,” [1964] <http://doc.narf.org/nill/Constitutions/pitconst/pitriverconst.htm>. [accessed October 29, 2008].

⁴³ Indian Claims Commission, No. 347, [August 11, 1951], 21-22.

⁴⁴ Memorandum of Understanding Regarding a Communication and Consultation Protocol between USDA Forest Service, Modoc National Forest, Lassen Shasta-Trinity National Forest, and Lassen National Forest and the Pit River Tribe [May 4, 2007].

⁴⁵ Modoc National Forest, Tribal Relations Program, “Government-to-Government Consultation Standard Form” [Wednesday, 3 September 2008].

⁴⁶ Ibid.

⁴⁷ Garole Goldberg, J.D., Duane champagne, Ph.D., “Final Report: Law Enforcement and Criminal Jurisdiction Under Public Law 280,” [November 1, 2007], 3,9.

Federal Statutes Relevant to American Indian Tribes

Table 3.11-14. Federal Laws Relevant to Native American Concerns on National Forest Management

Law	Purpose
National Environmental Policy Act of 1969	Requires consideration of effects on cultural values and diversity.
American Indian Religious Freedom Act of 1978, as amended in 1994	Protects Indian religious practices and access to sacred sites.
Federal Land Policy and Management Act of 1976	Coordinates with Indian tribes to inventory, plan, and manage resources of value to tribes.
National Historic Preservation Act of 1976	Accounts for impacts of management on prehistoric and historic sites.
Archeological Resources Protection Act of 1979, as amended in 1992	Protects archeological resources and requires that affected tribes be notified if archeological studies might harm or destroy culturally or spiritually important sites.
Native American Graves Protection and Repatriation Act of 1990	Requires consultation with tribes about disposition of Native American remains, funerary objects, and other cultural relics.