

ROADS ANALYSIS REPORT

APPENDIX D: Maps

Helena National Forest

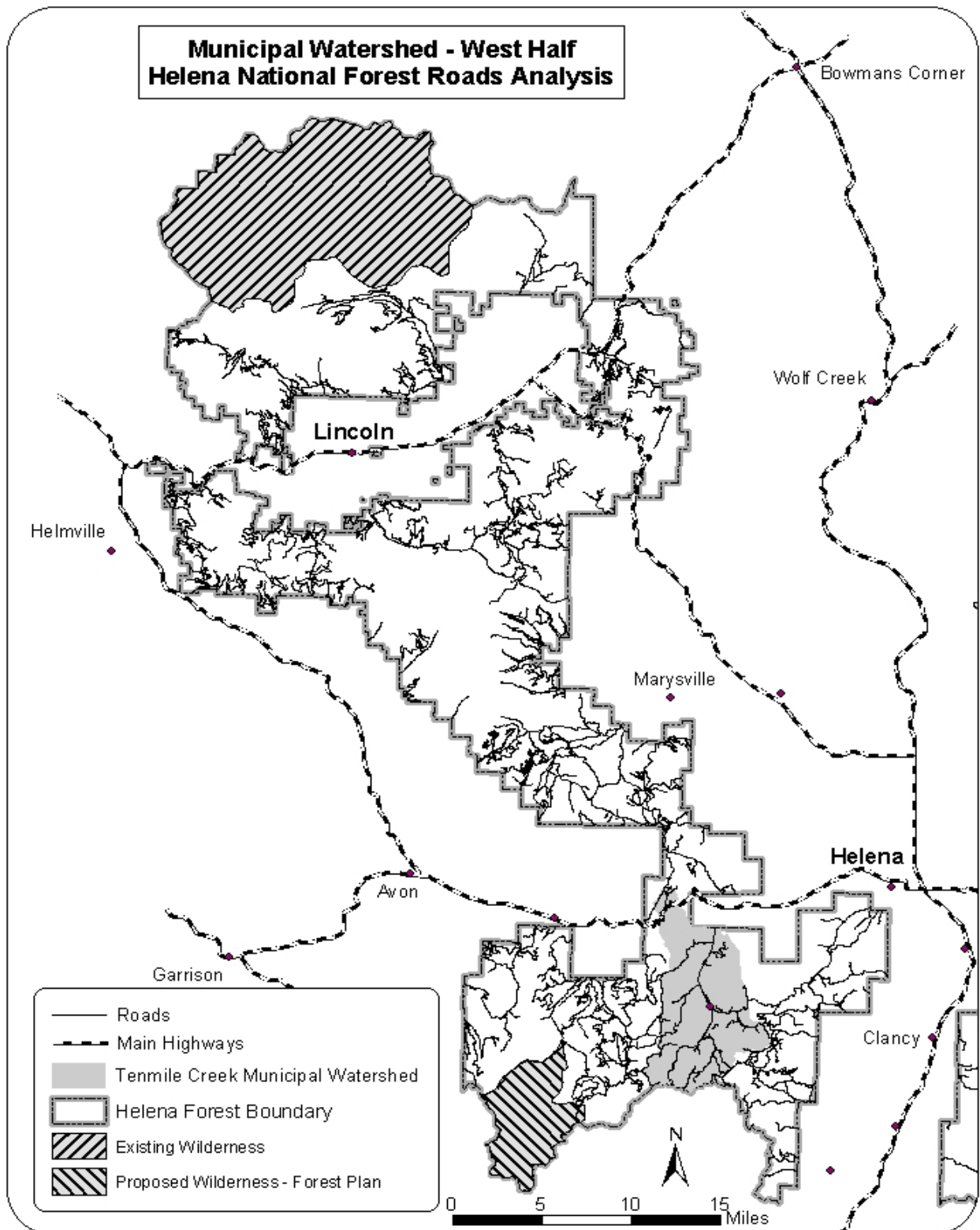
2002 – 2004

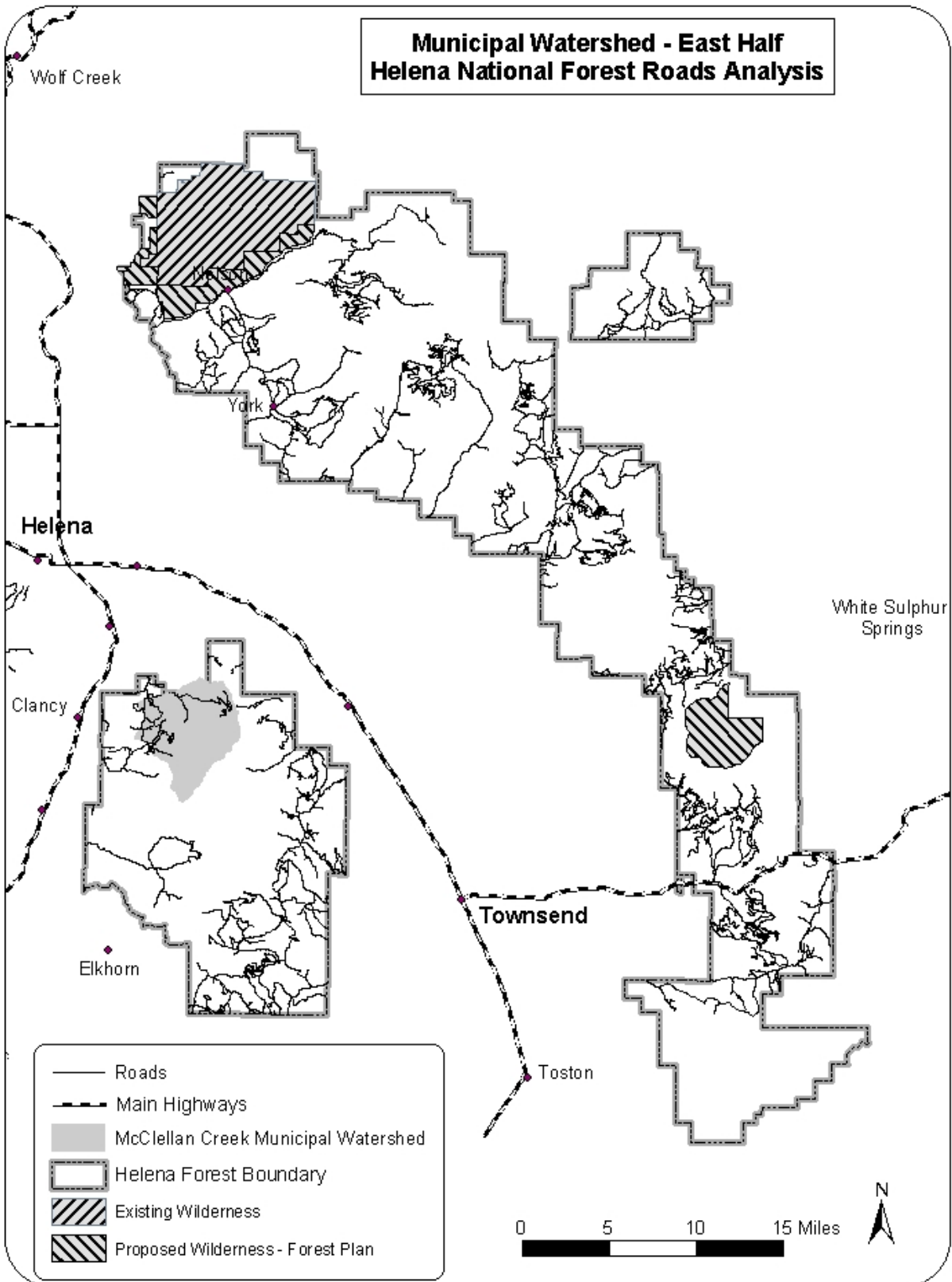
APPENDIX D, ROAD ATLAS

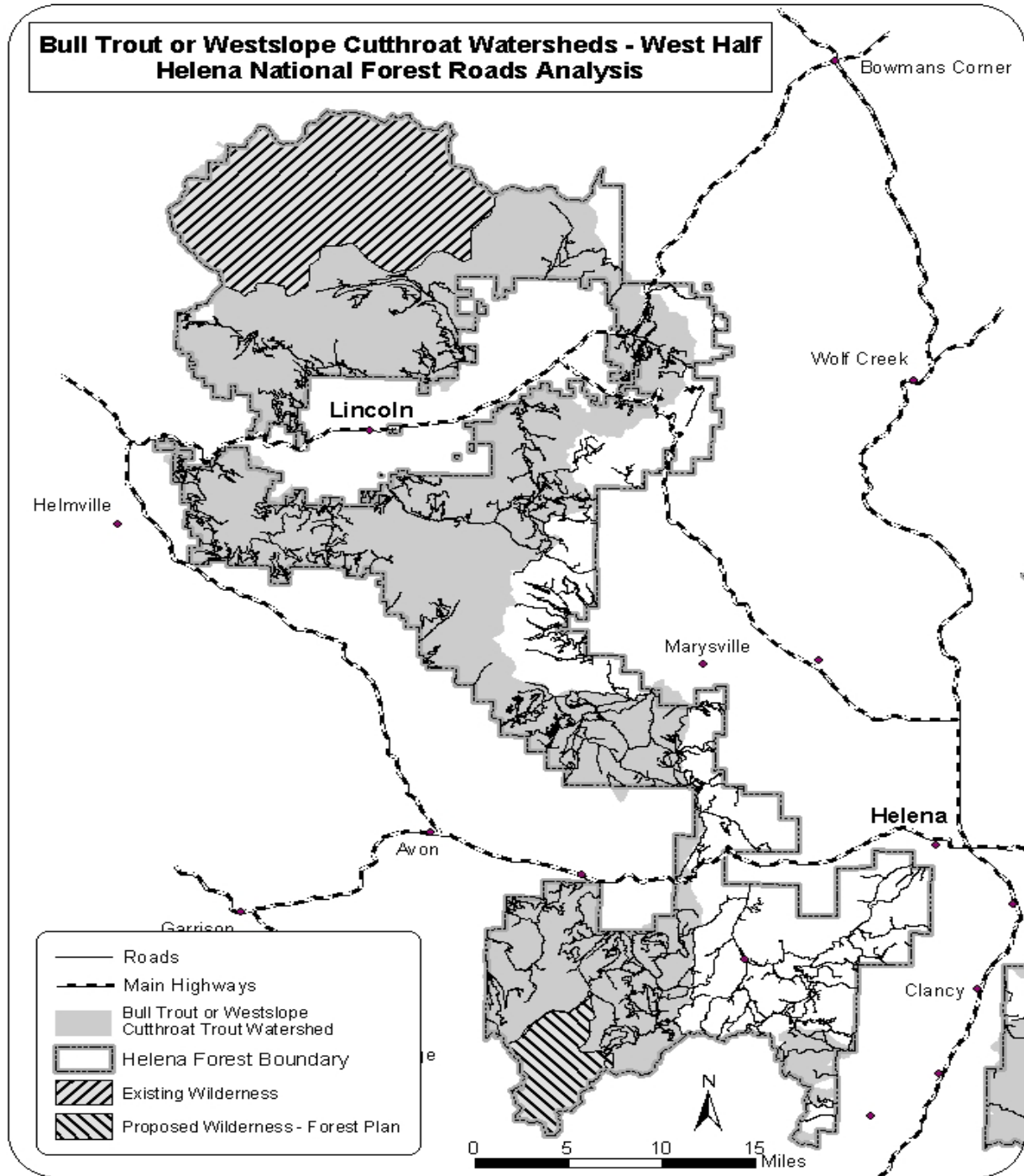
The Road Atlas is maintained in the Helena National Forest GIS and Road data filing systems. A copy will be available at the Supervisors Office and District Offices. Insuring quality control, and maintaining data is the responsibility of the Forest Engineer. The Engineer will coordinate map updates with the GIS program manager. The Atlas will be posted on the Helena National Forest Web Page.

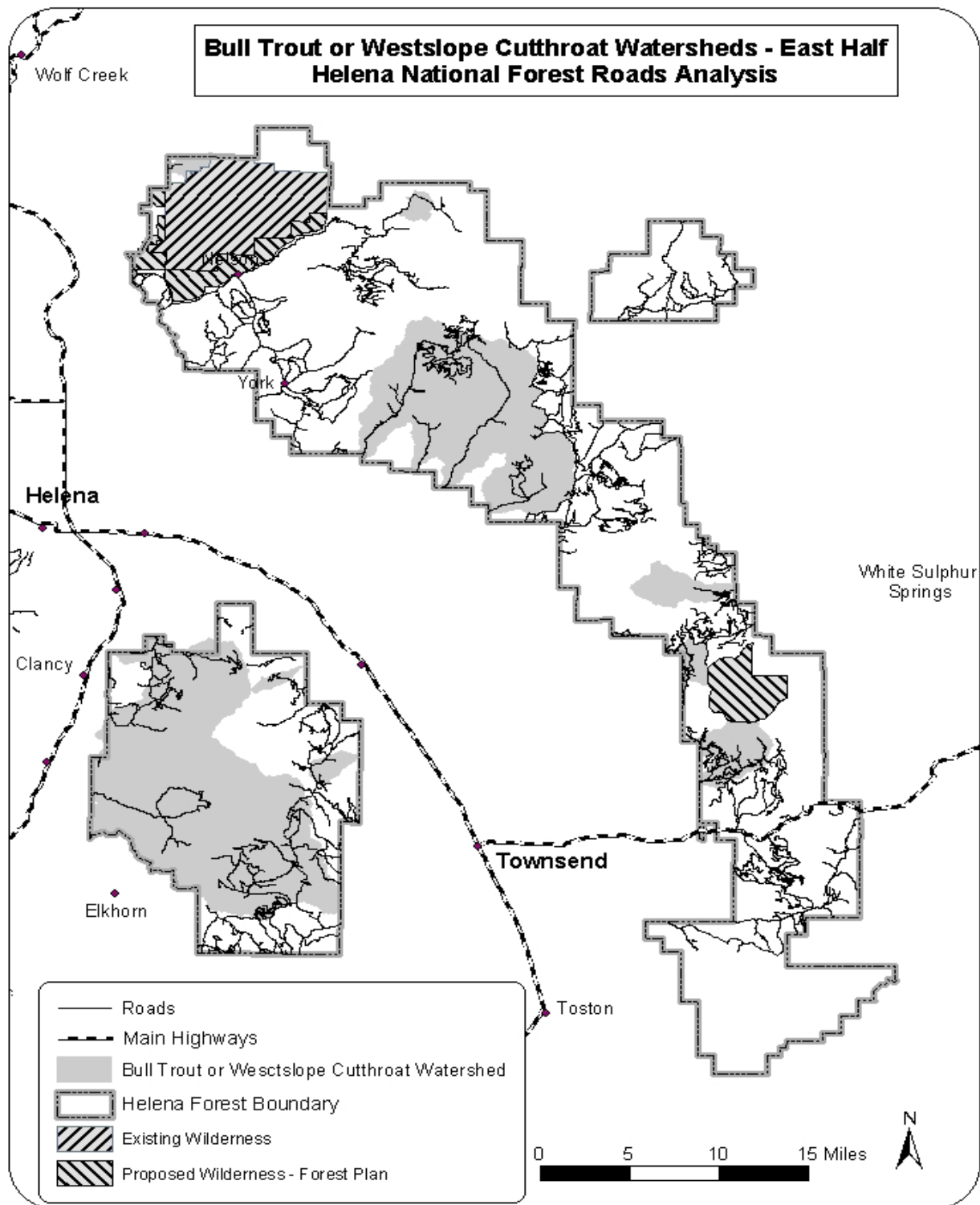
The following maps are located within this appendix:

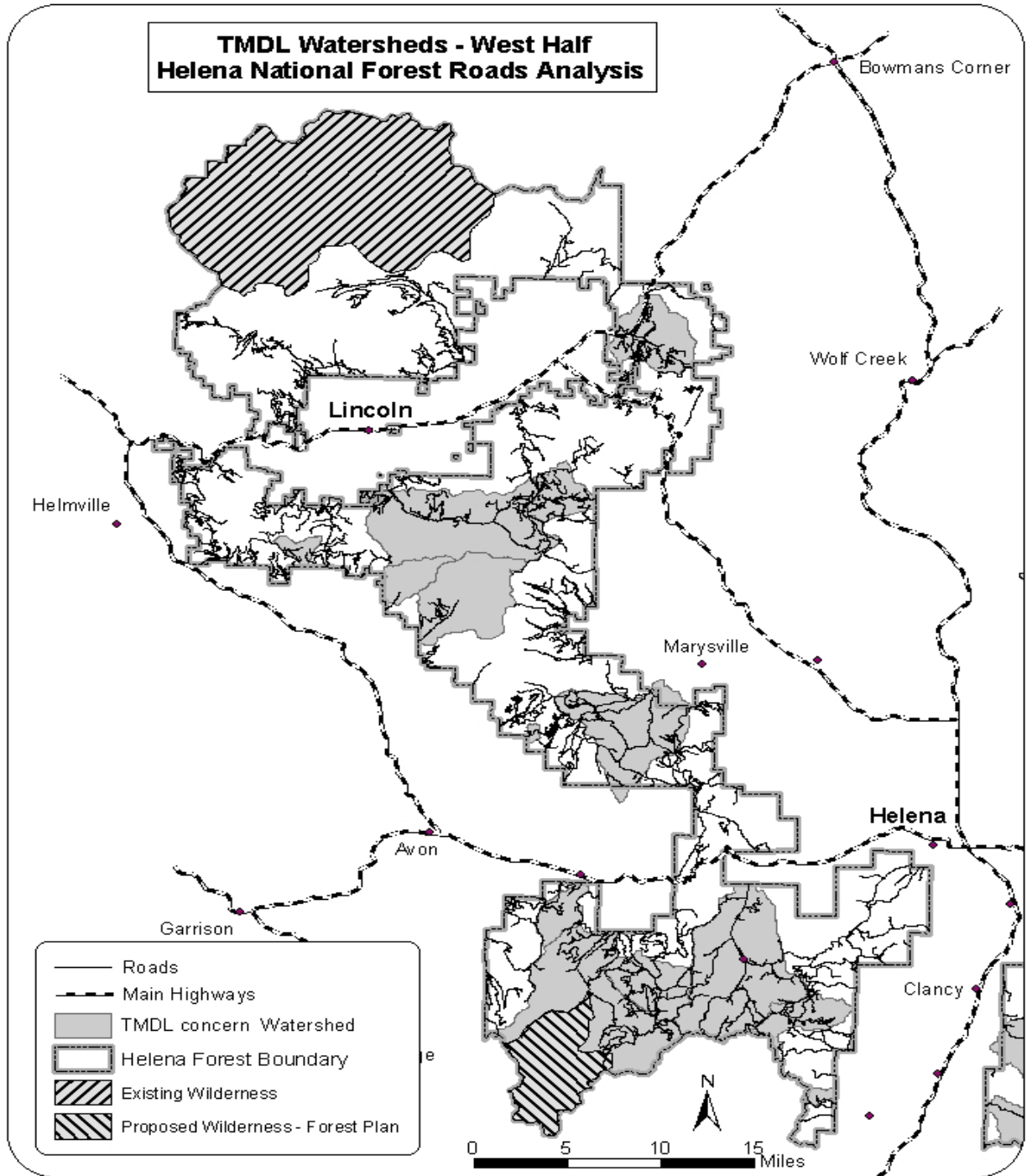
1. Watershed
 - municipal watersheds (west side and east side)
 - bull trout/west slope cutthroat trout (west side and east side)
 - TMDL watersheds (west side and east side)
2. Resource Management
 - suitable timber management areas (west side and east side)
 - weeds (west side and east side)
 - fire starts (west side and east side)
3. Soils and Geology
 - geo-hazards (wet soils, landslides, etc.) (west side and east side)
 - road stream interactions (west side and east side)
 - infish fish buffers (west side and east side)
 - watershed cumulative risk rating (west side and east side)
 - road density grouping by watershed (west side and east side)
4. Administrative
 - wilderness and inventories roadless (west side and east side)
5. Potential Public Forest Service Roads
 - PFSR (west side and east side)
6. Existing Road System
 - existing roads by Obj. Mtc. Level 1-5 (west side and east side)
 - existing roads by Obj. Mtc. Level 3-5 (west side and east side)
 - (also see larger 36"x44" maps in pouch at end of document)
7. Potential Minimum Road System
 - minimum road system by Mtc. Level 1-5 (west side and east side)
 - minimum road system by Mtc. Level 3-5 (west side and east side)
 - (also see larger 36"x44" maps in pouch at end of document)
8. Wildlife
 - elk winter range (west side and east side)
 - lynx (west side and east side)
 - grizzly bear (west side only)

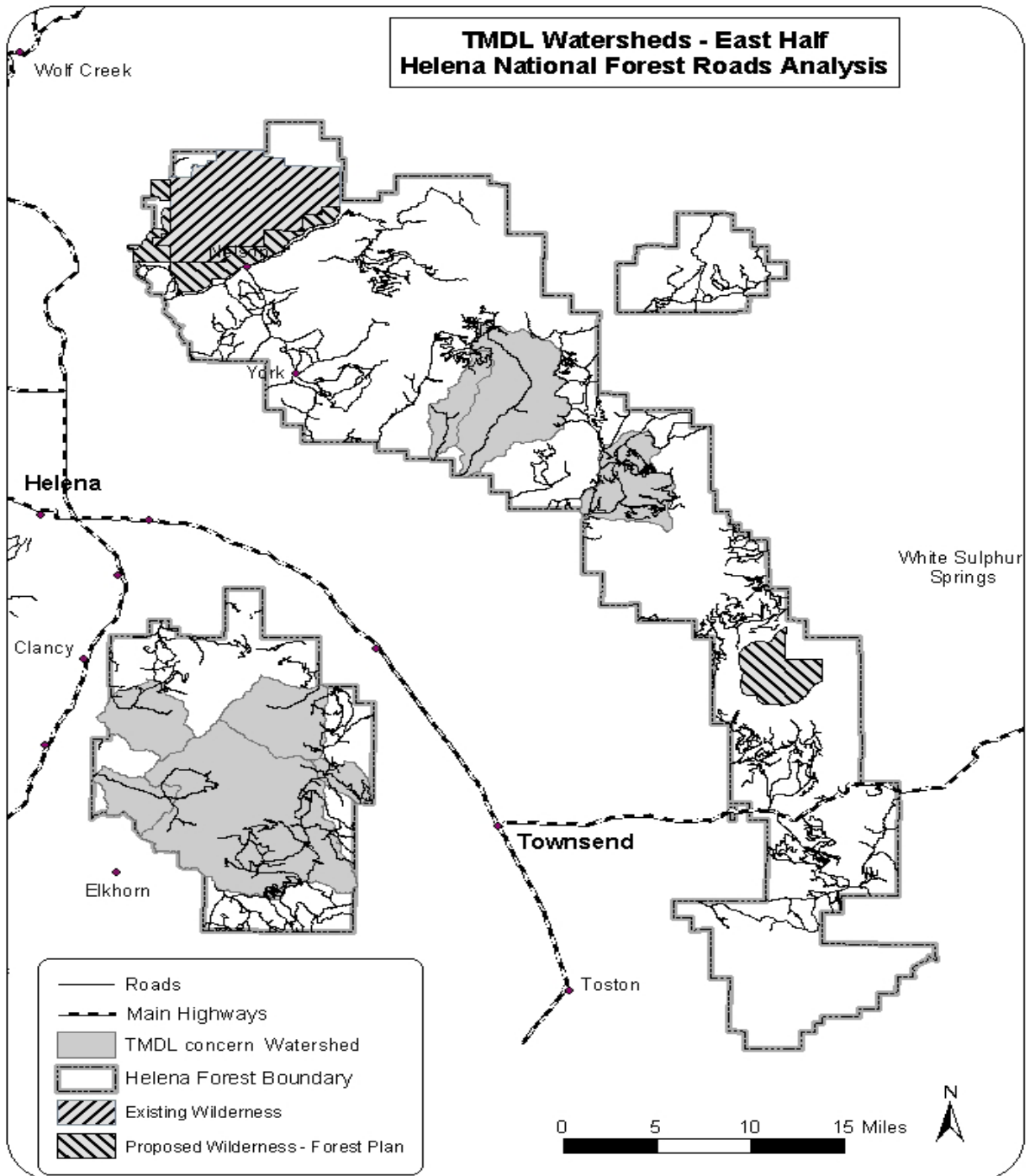


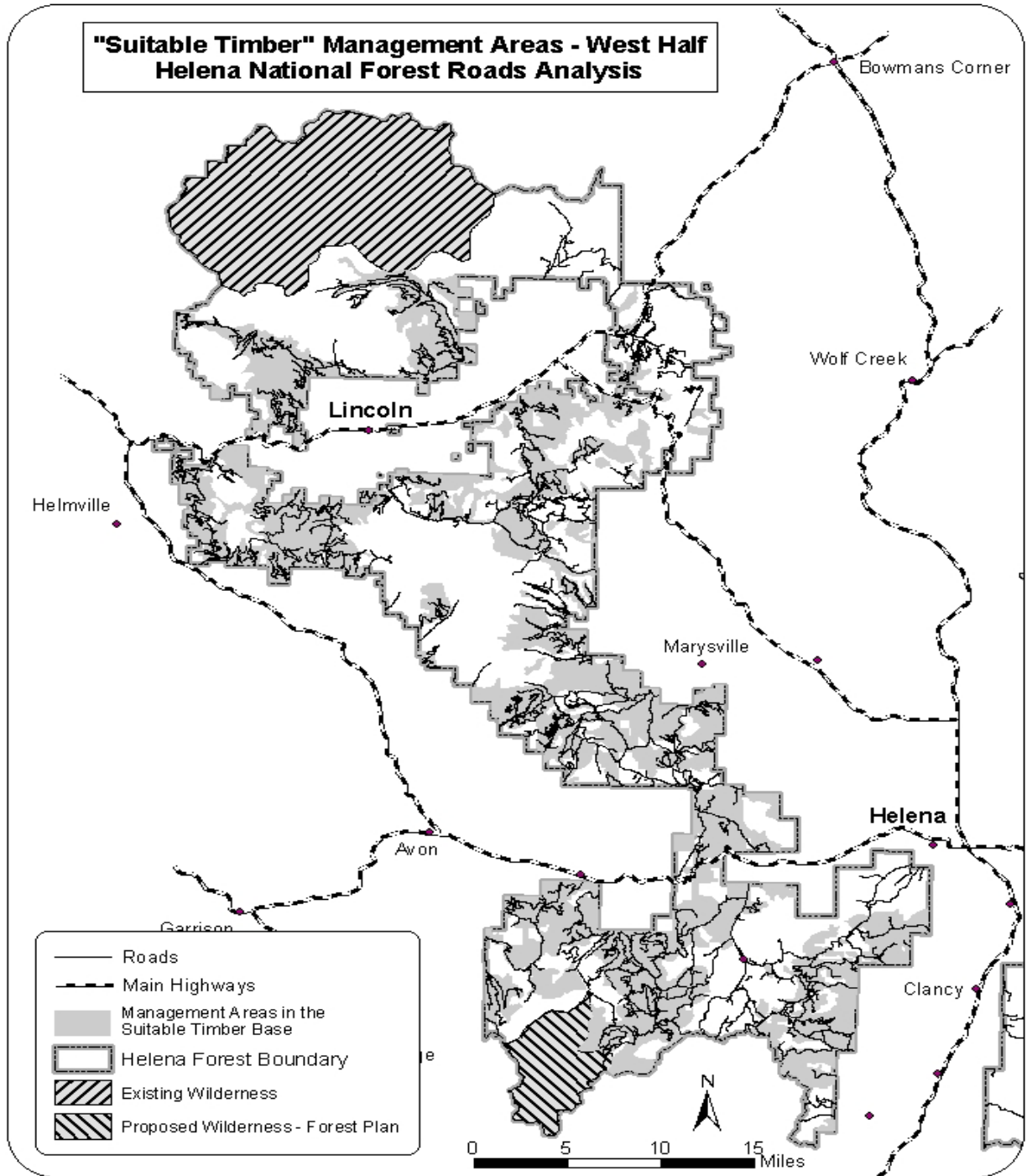


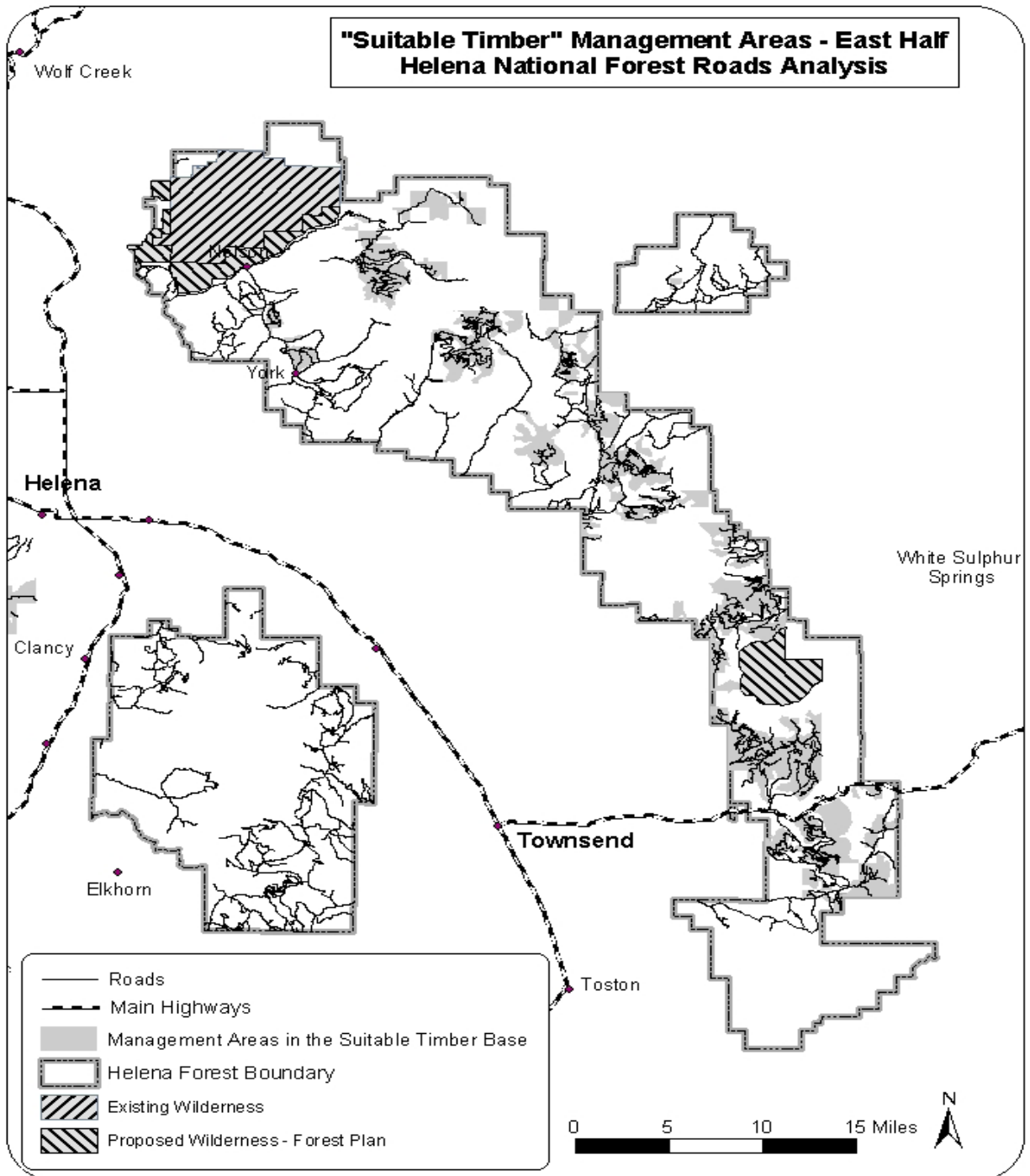


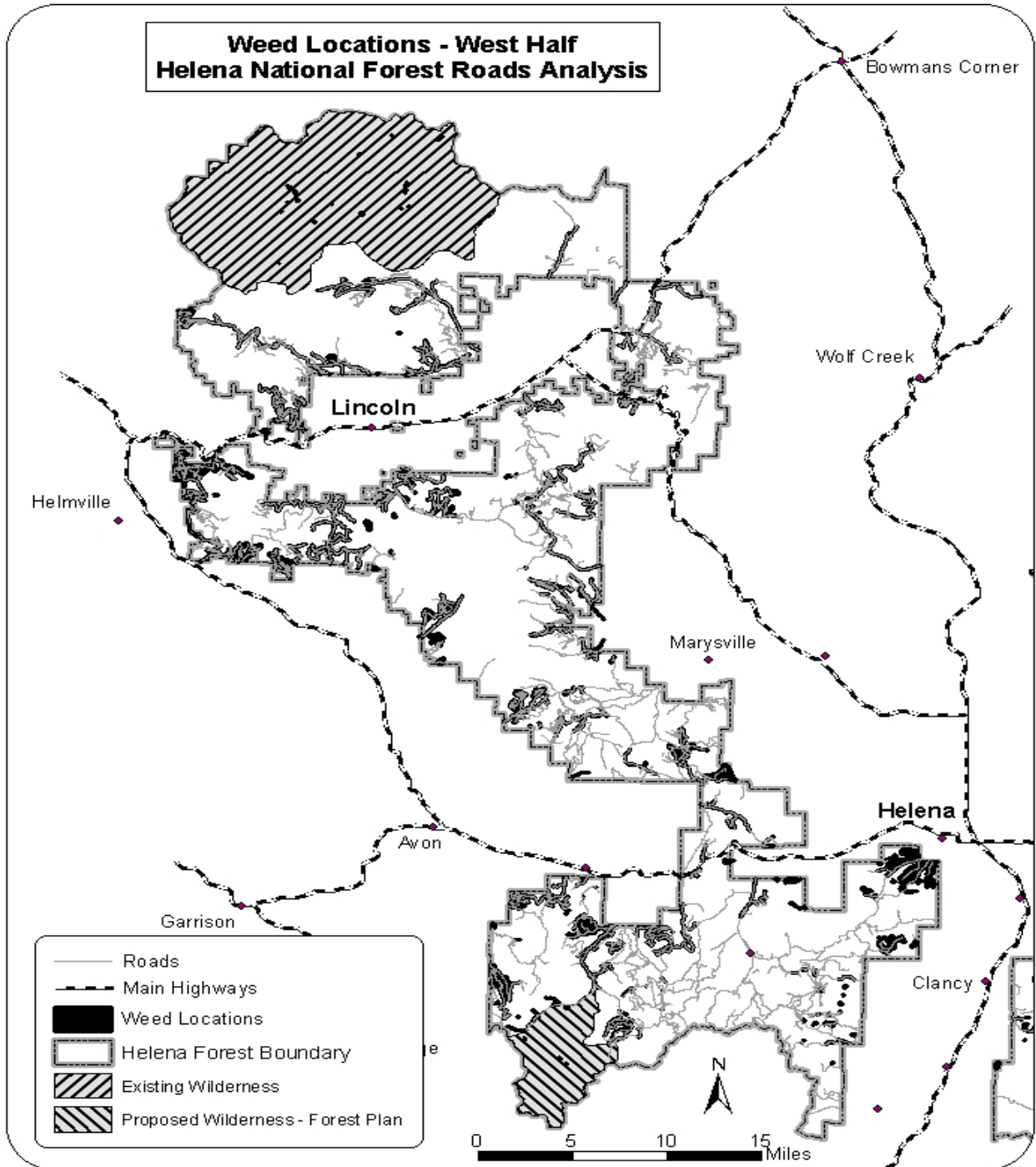


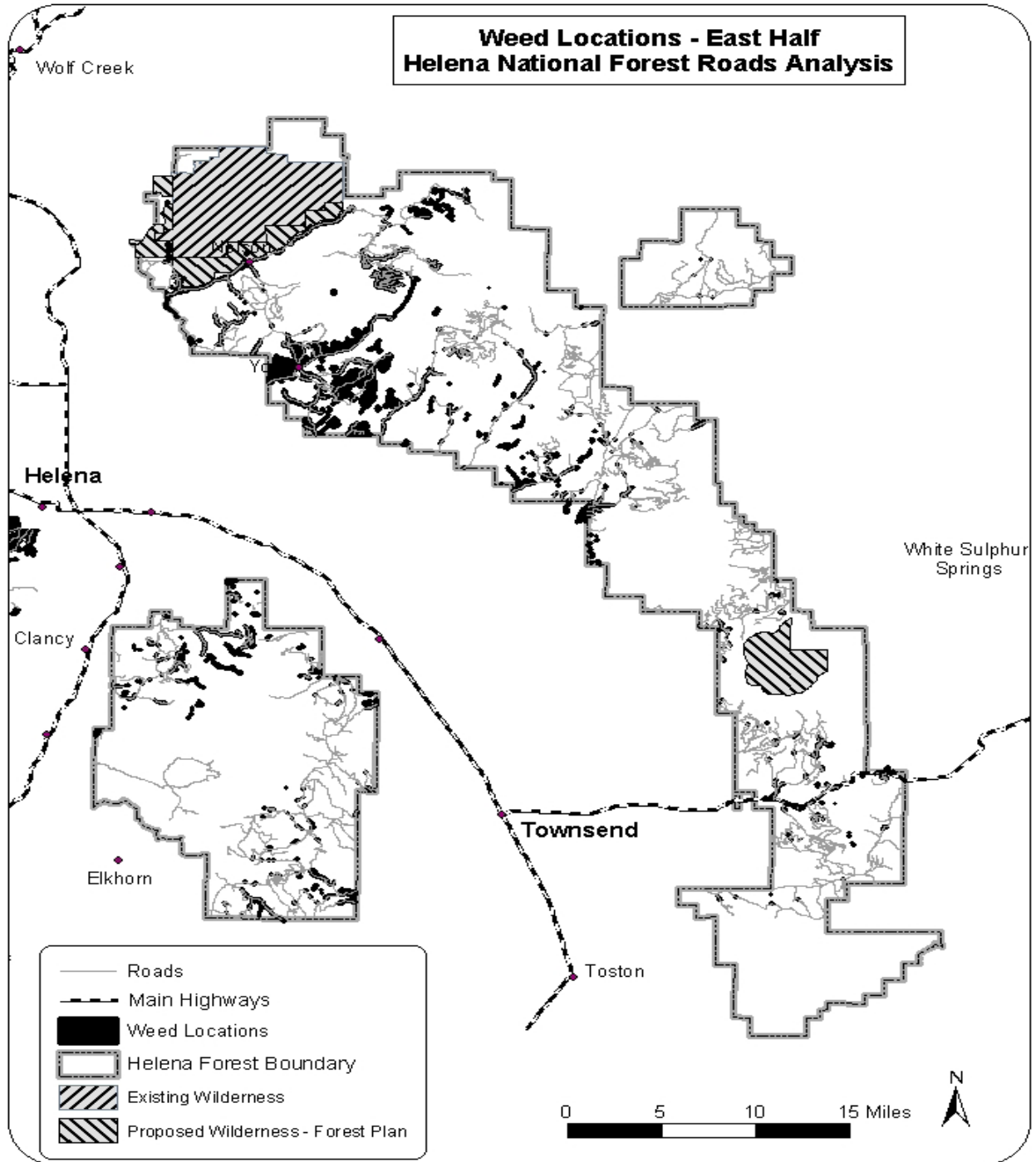


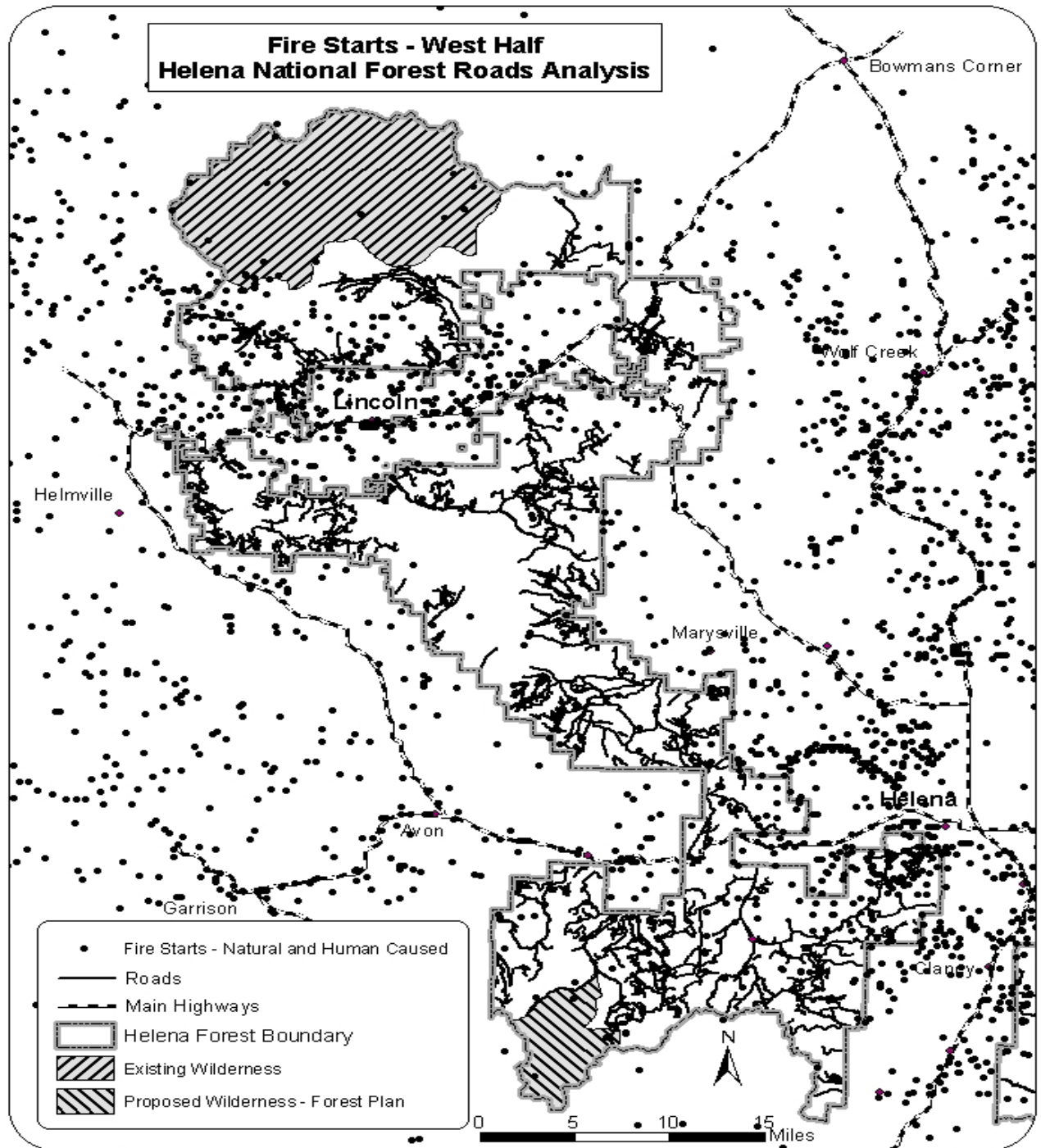


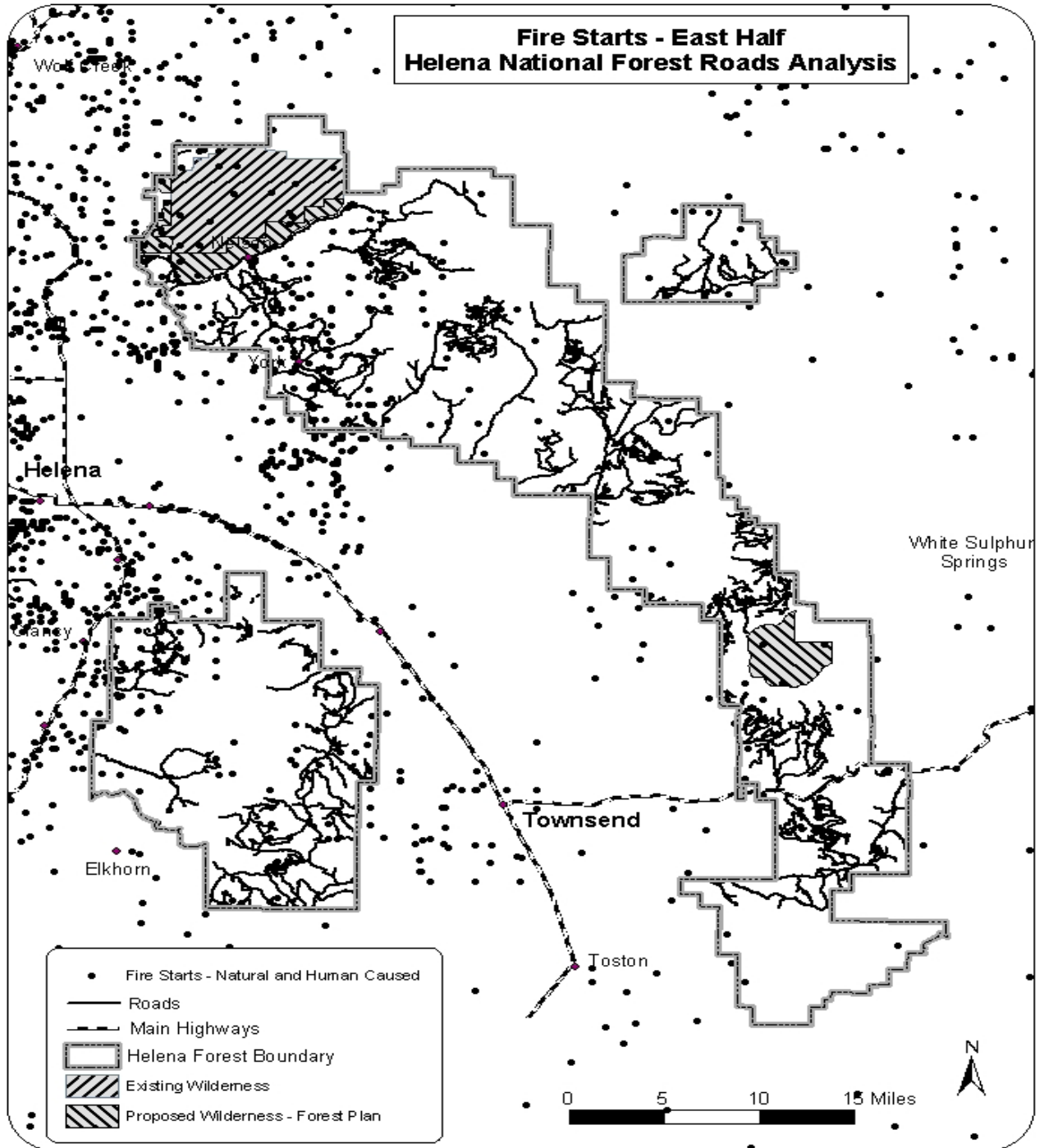


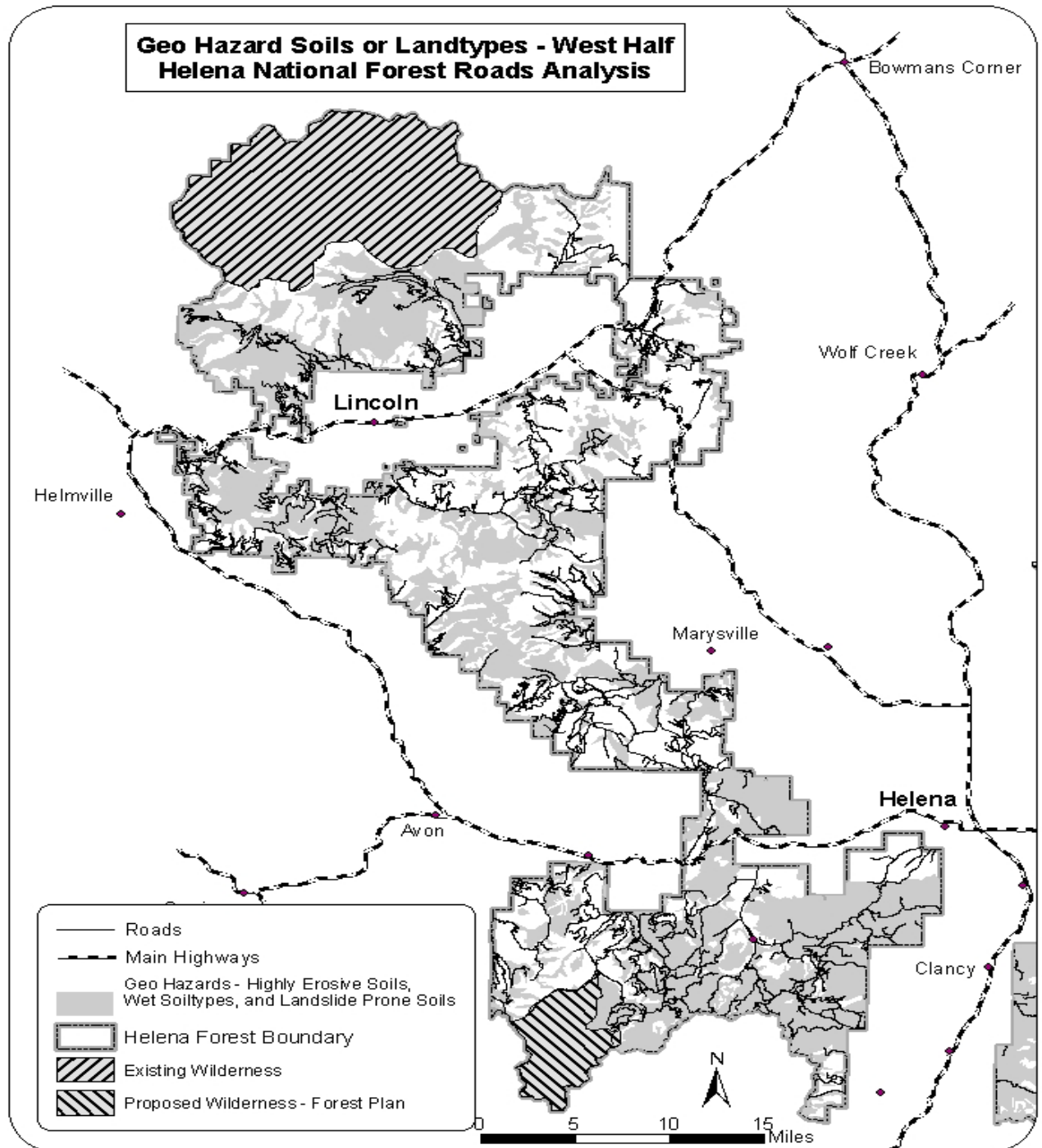


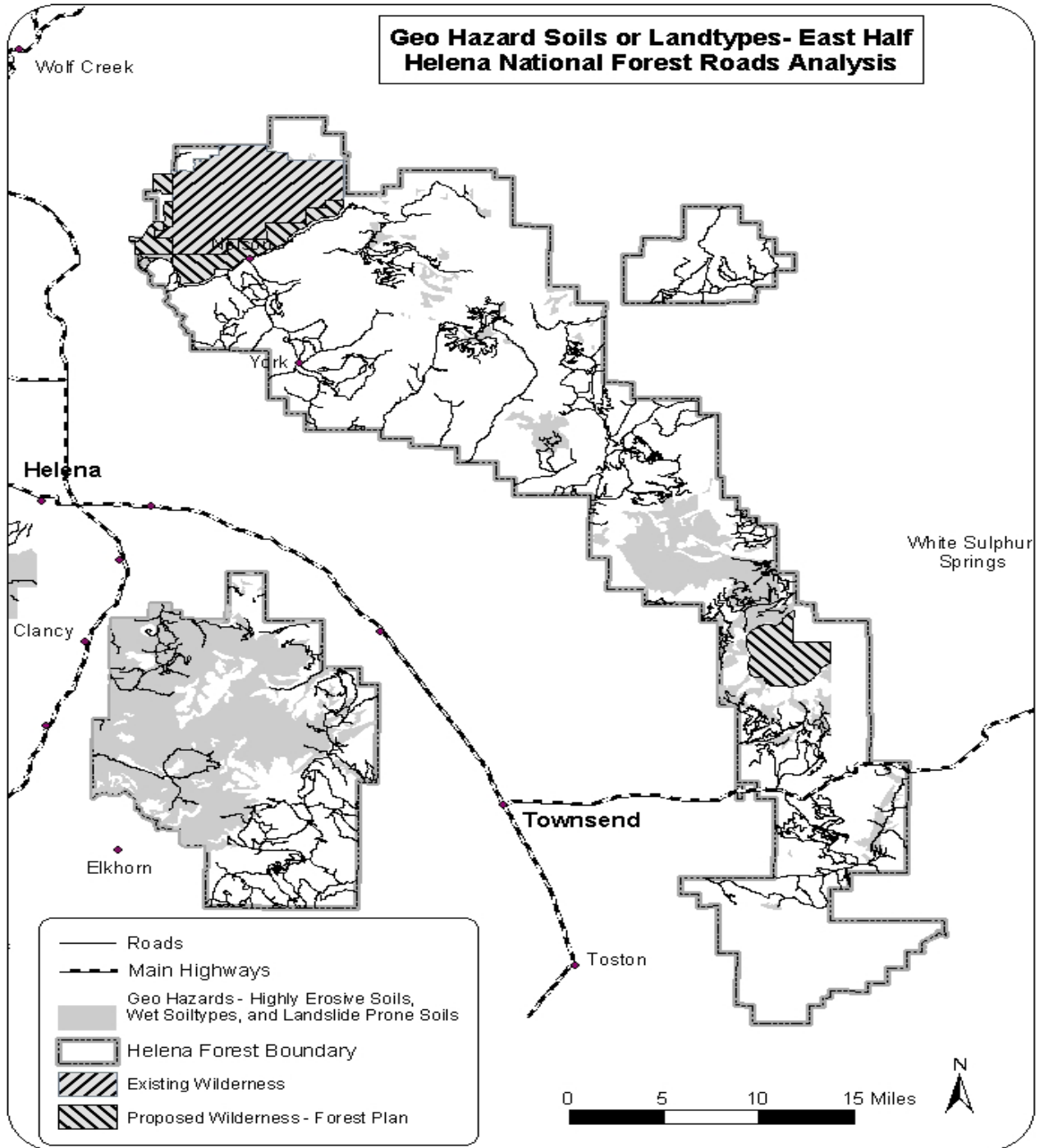


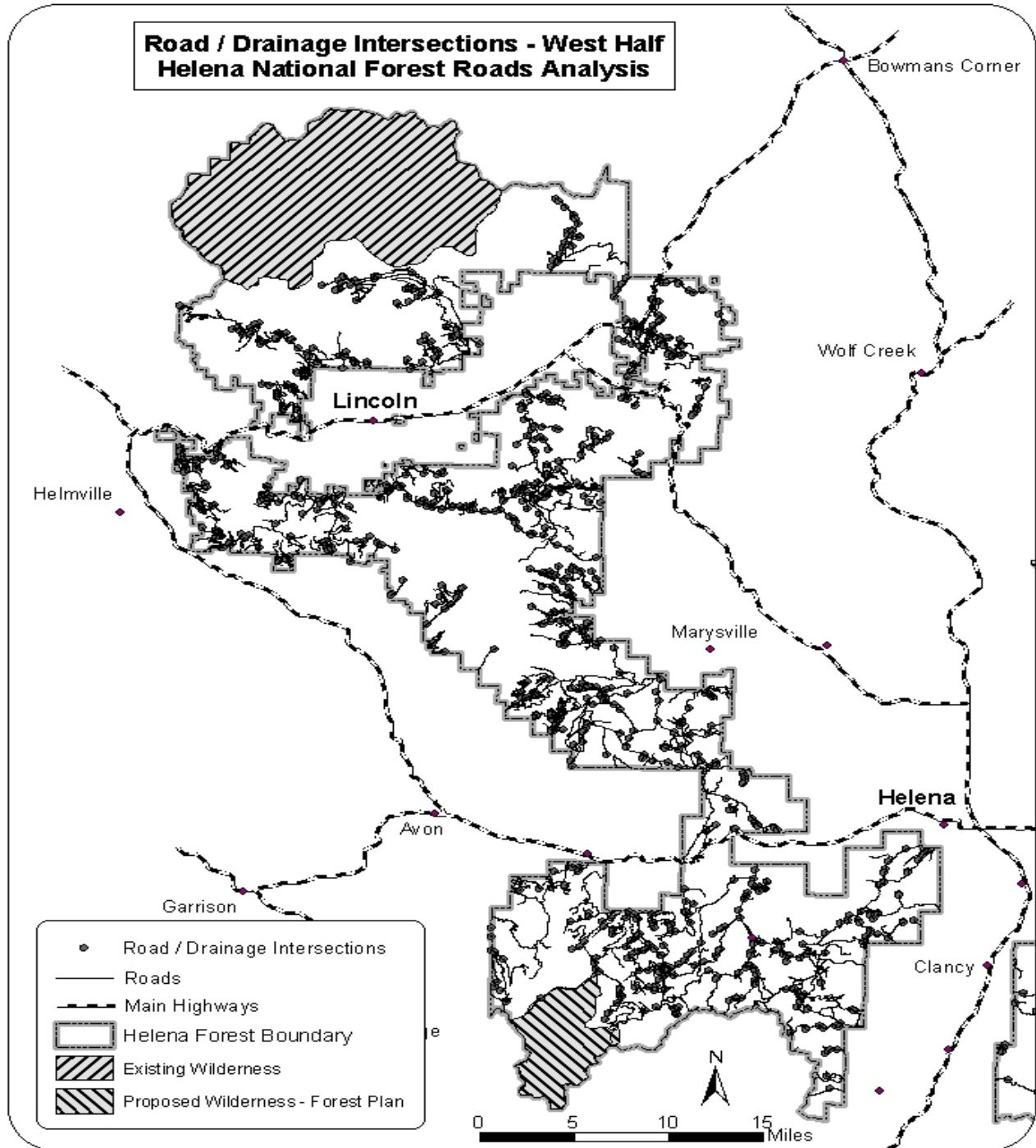


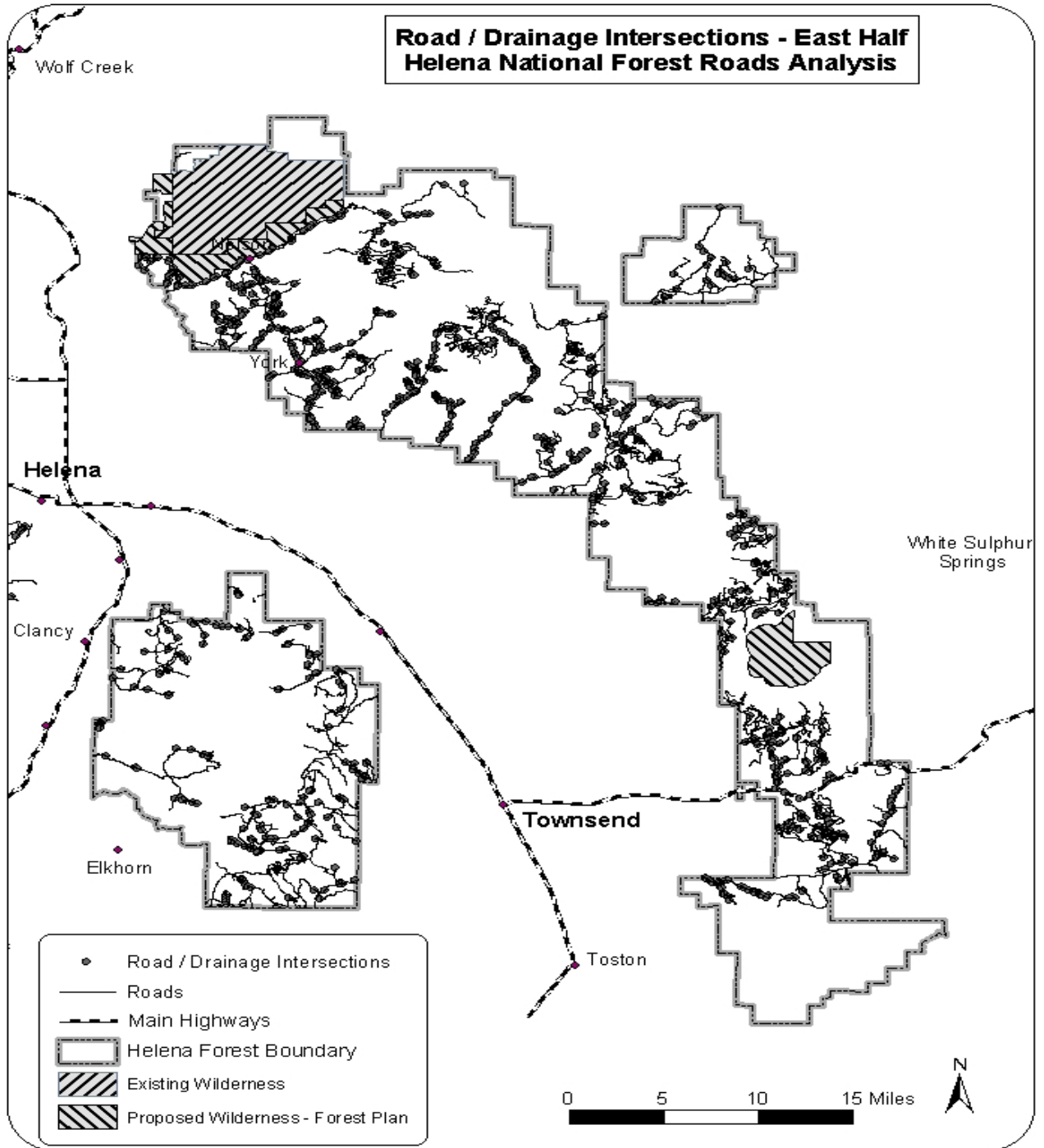


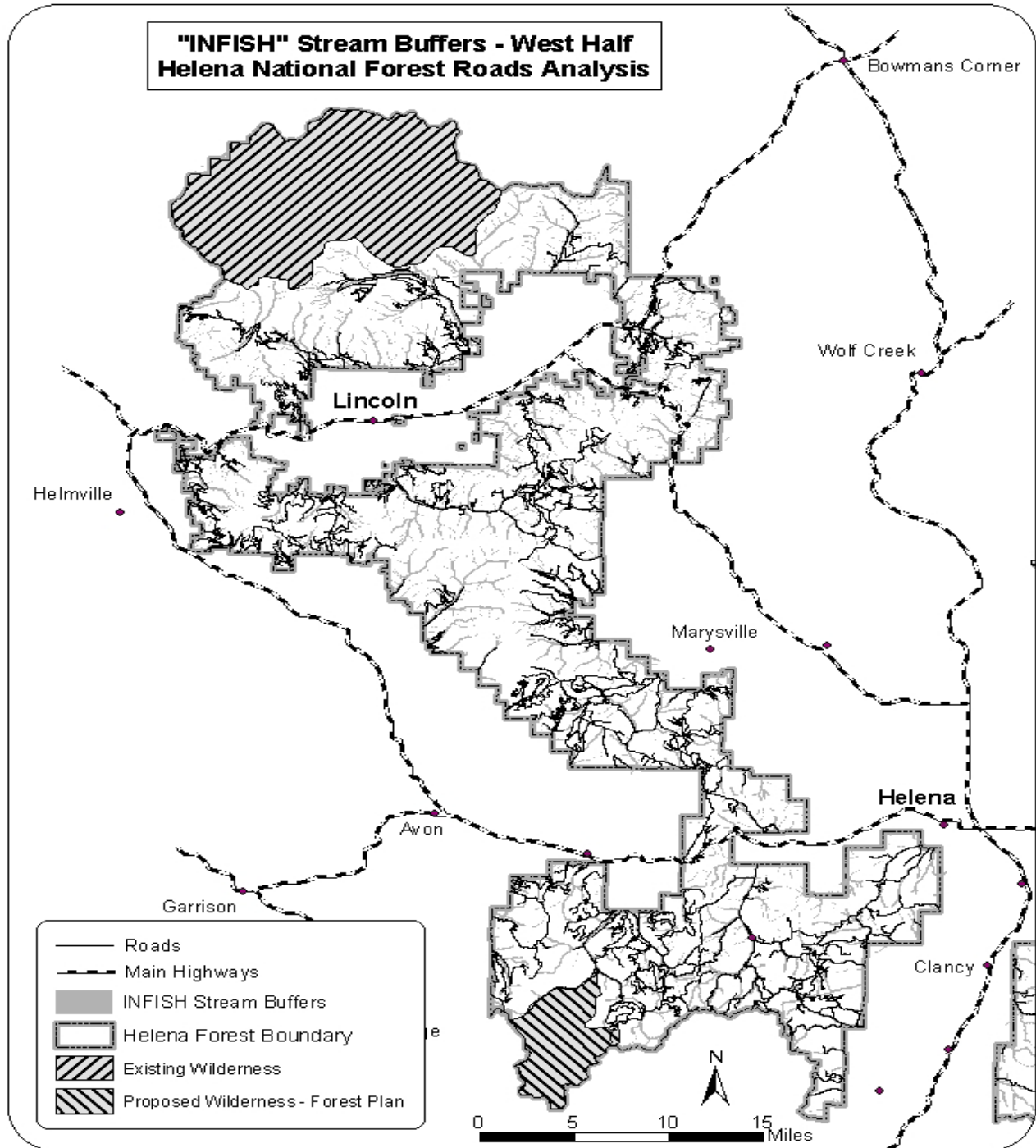


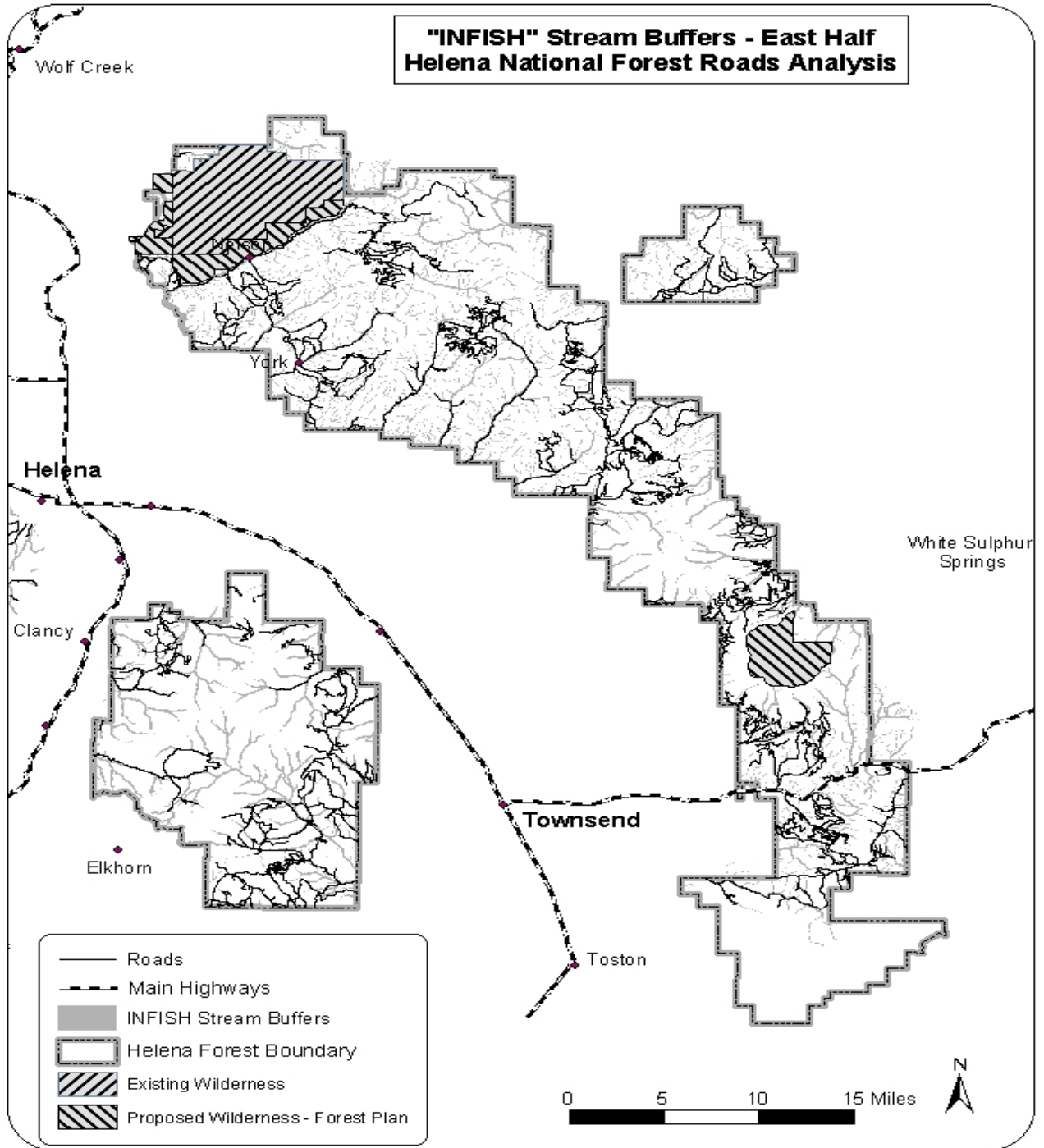


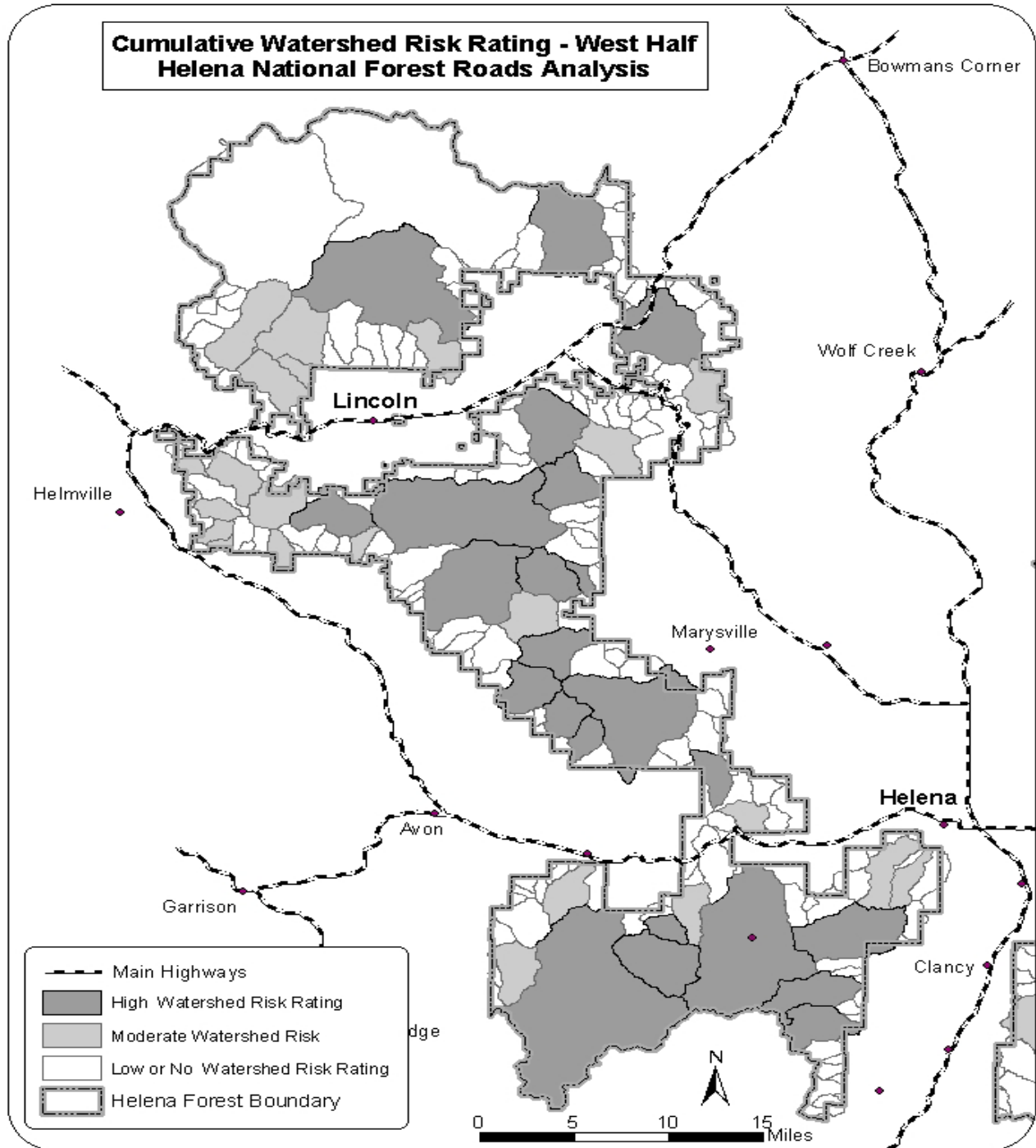


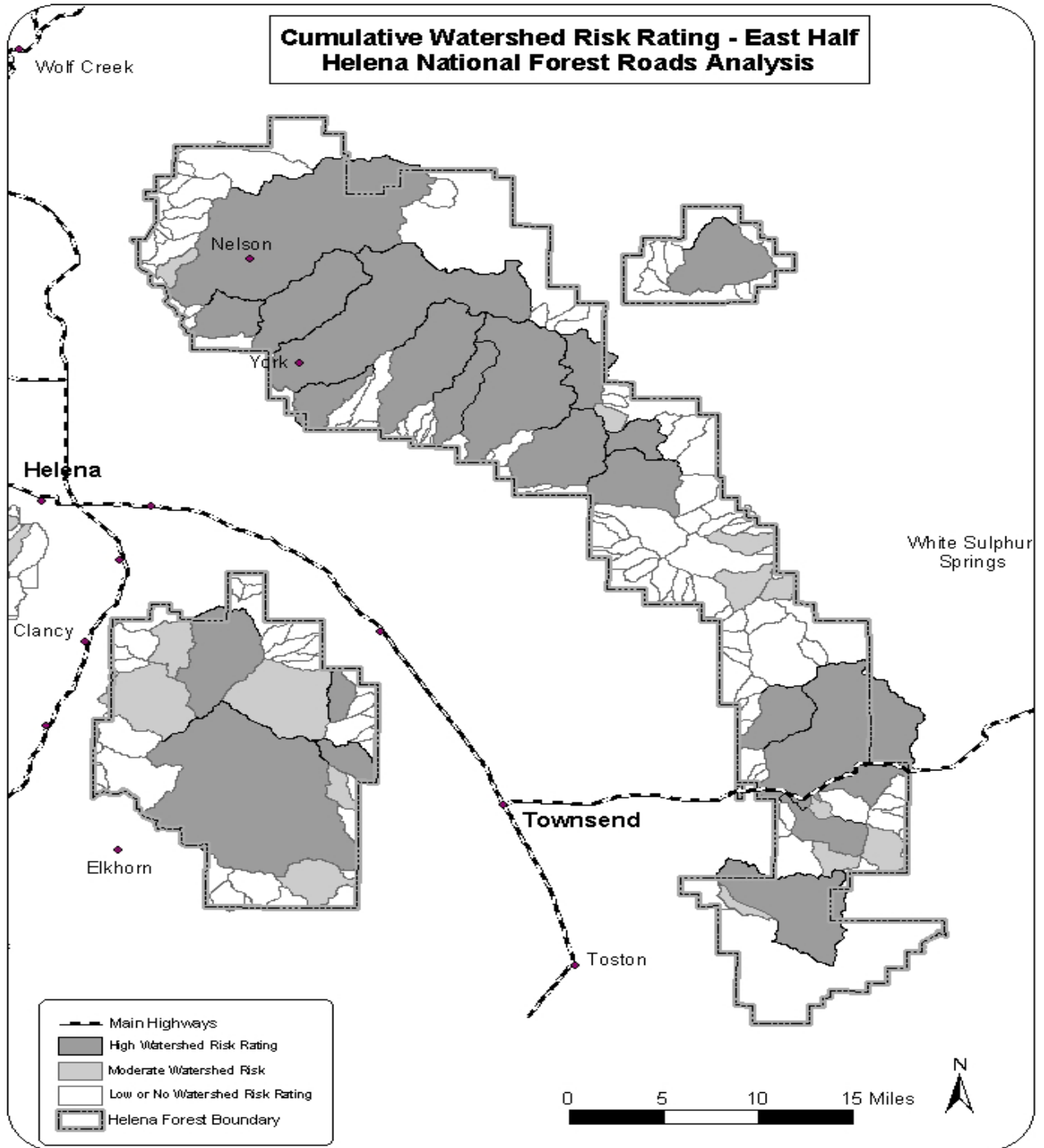


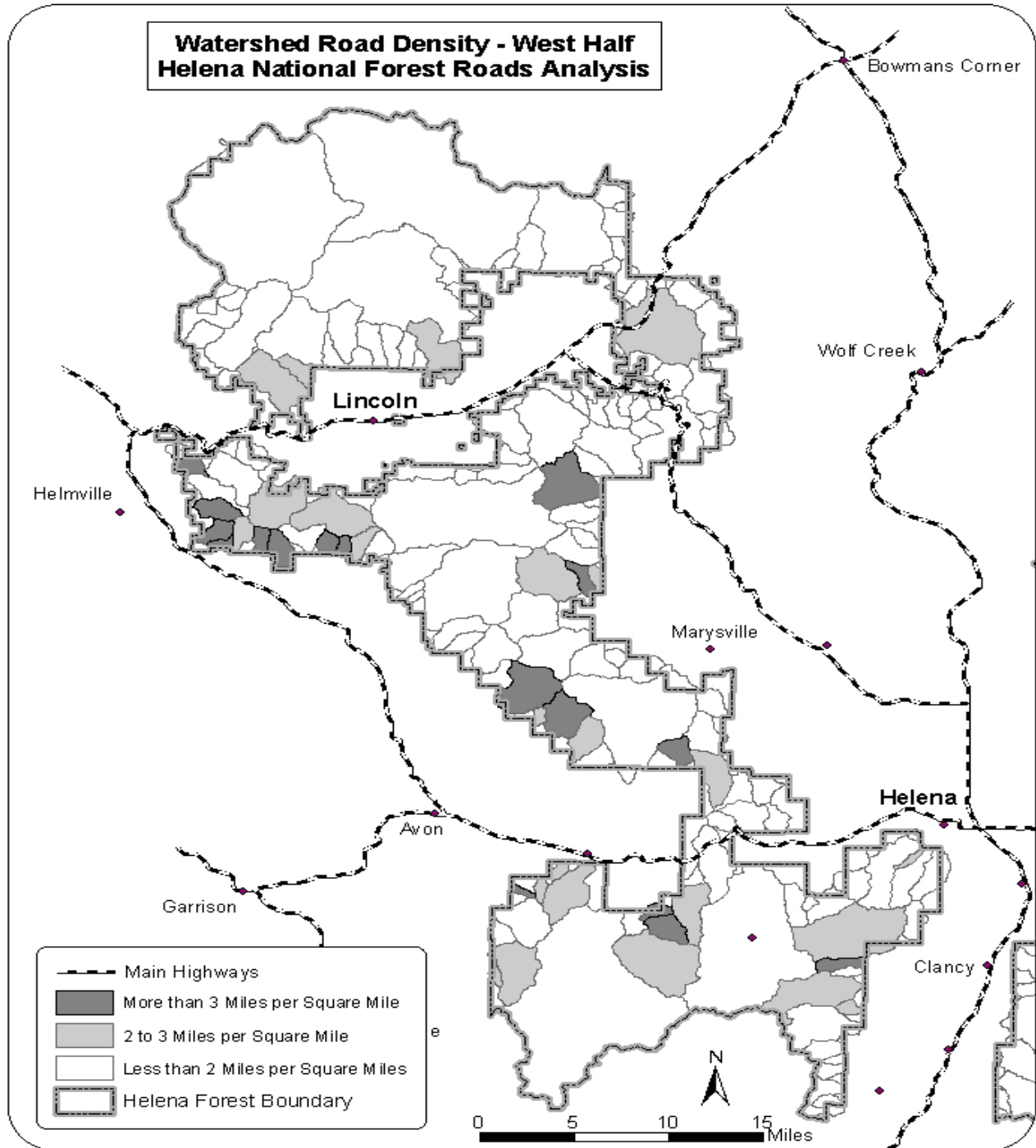


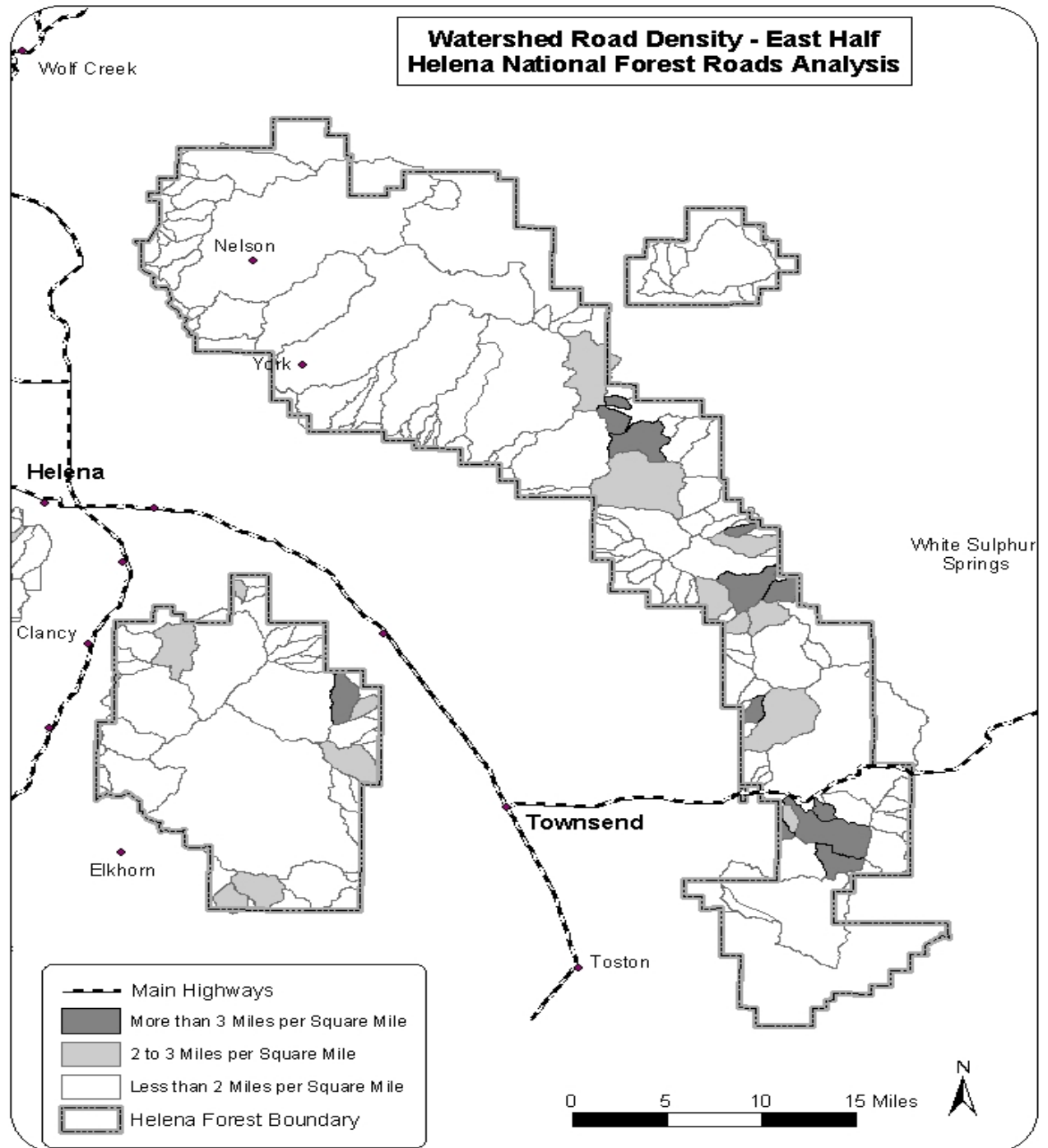


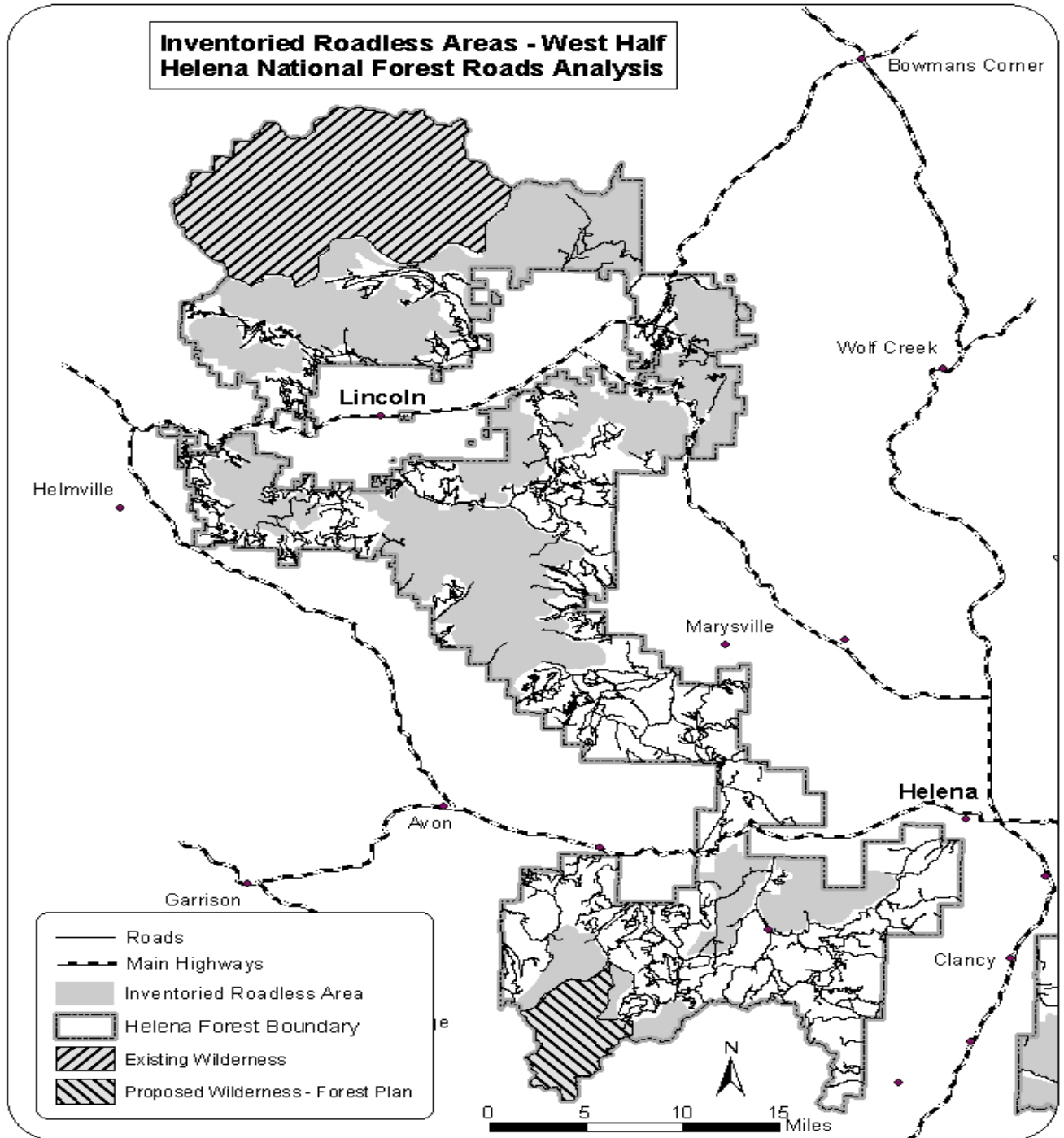


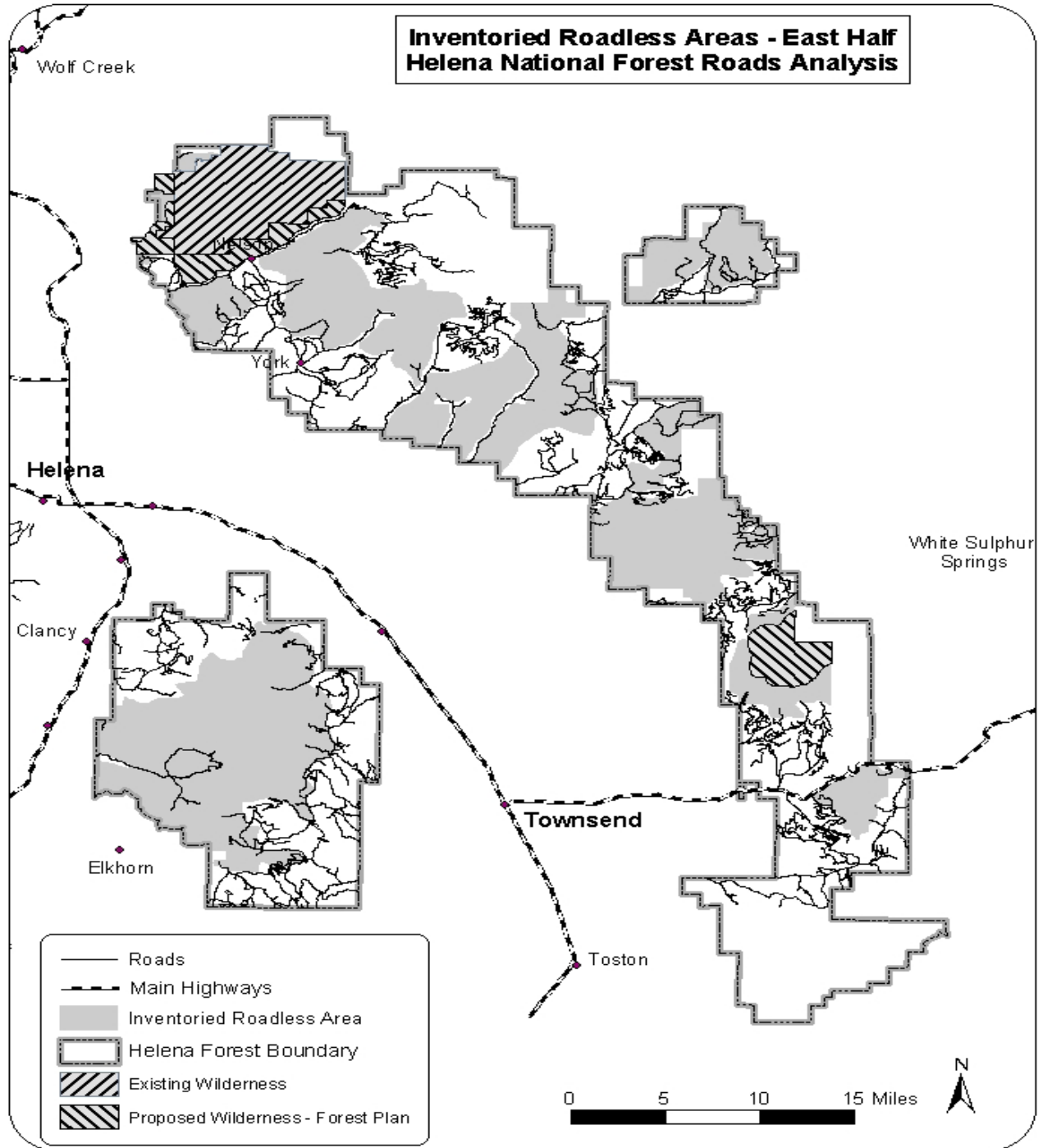


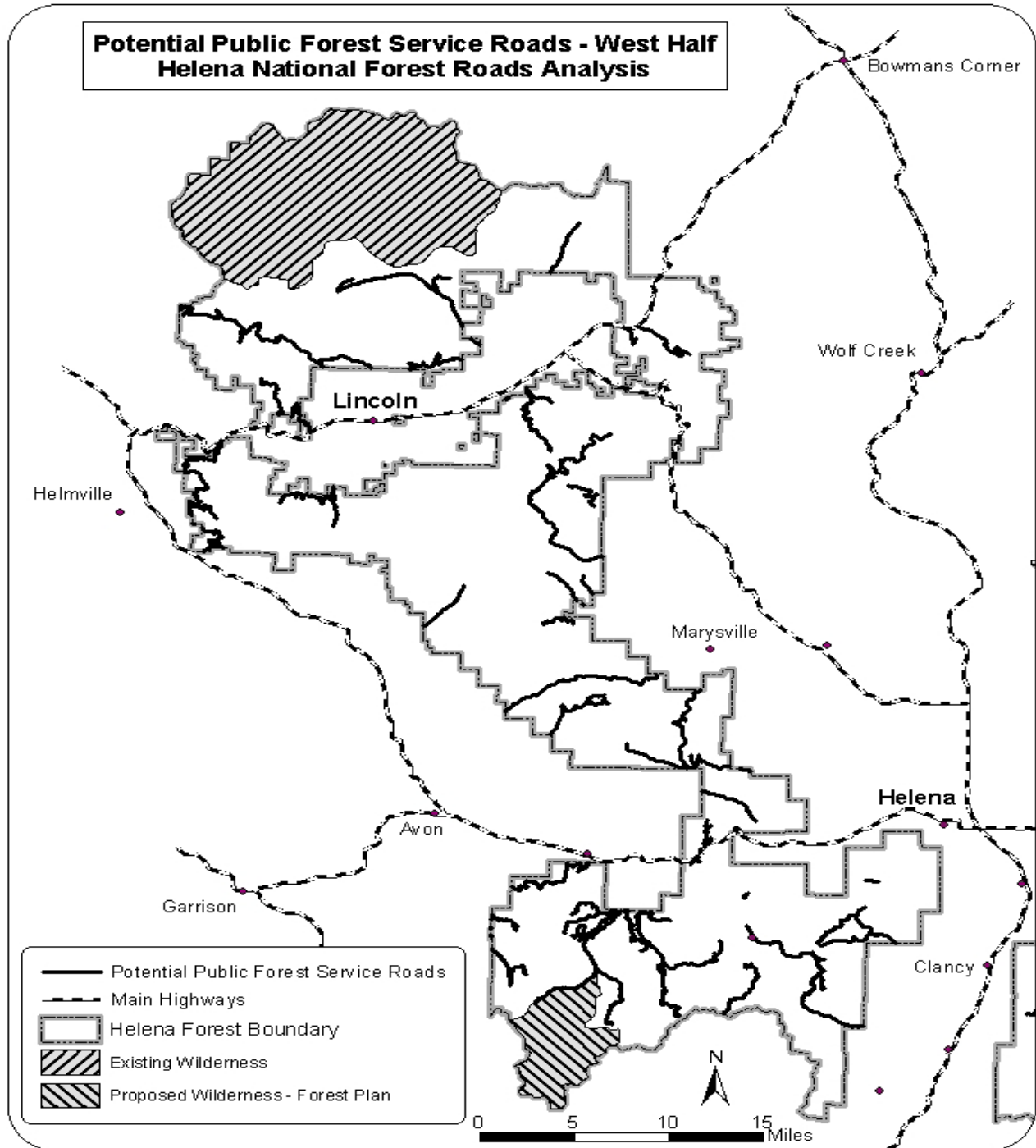


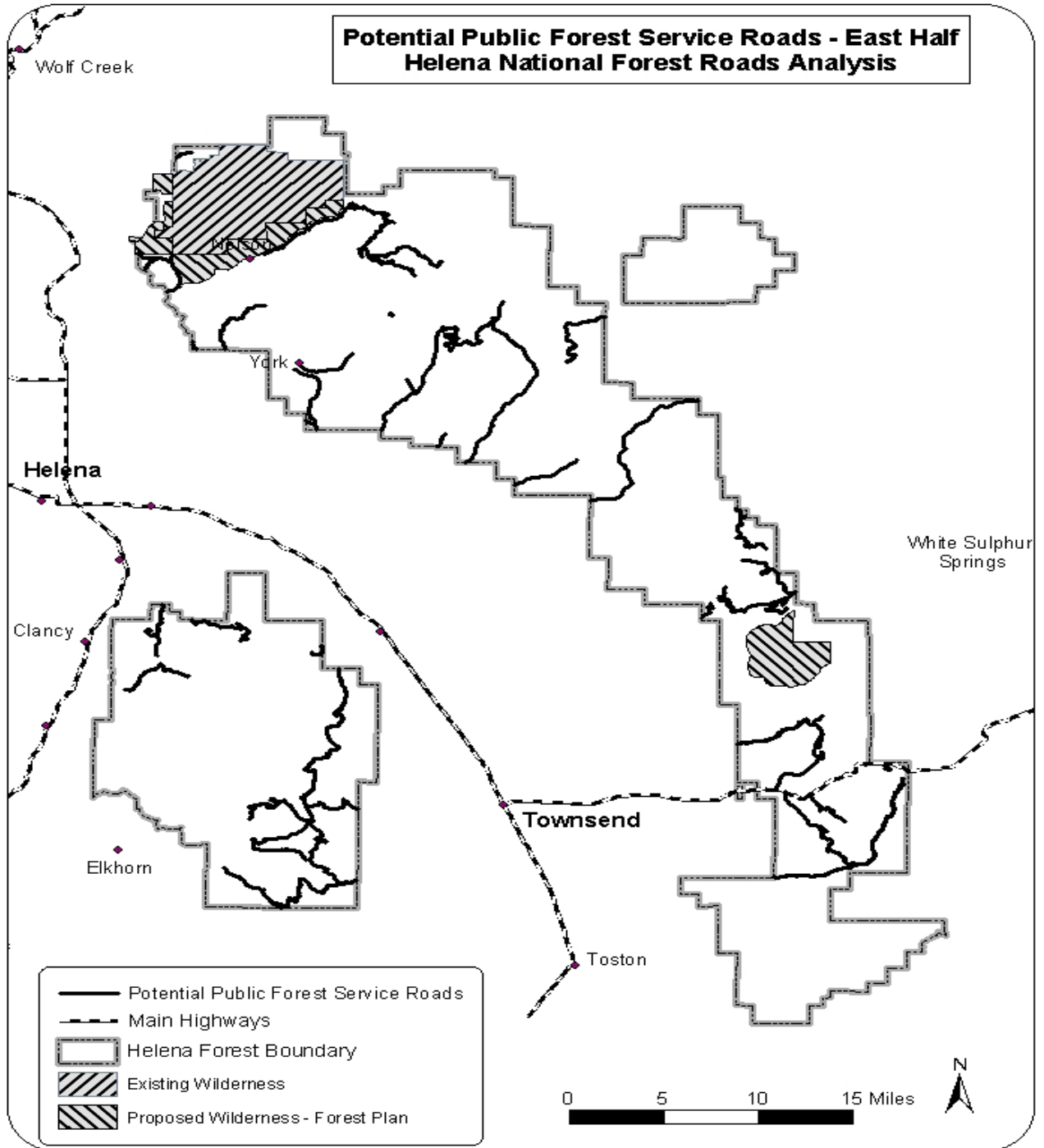


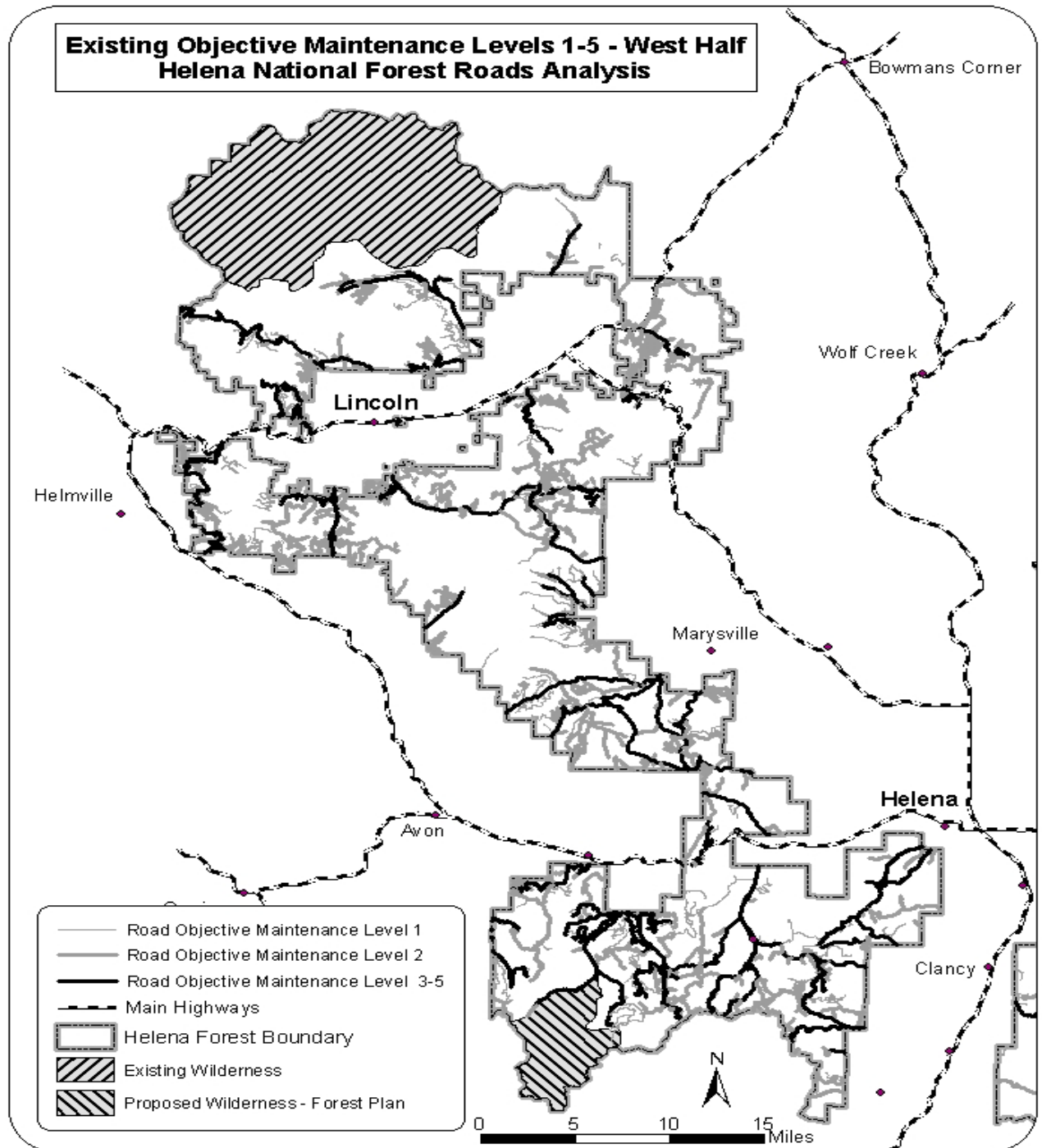


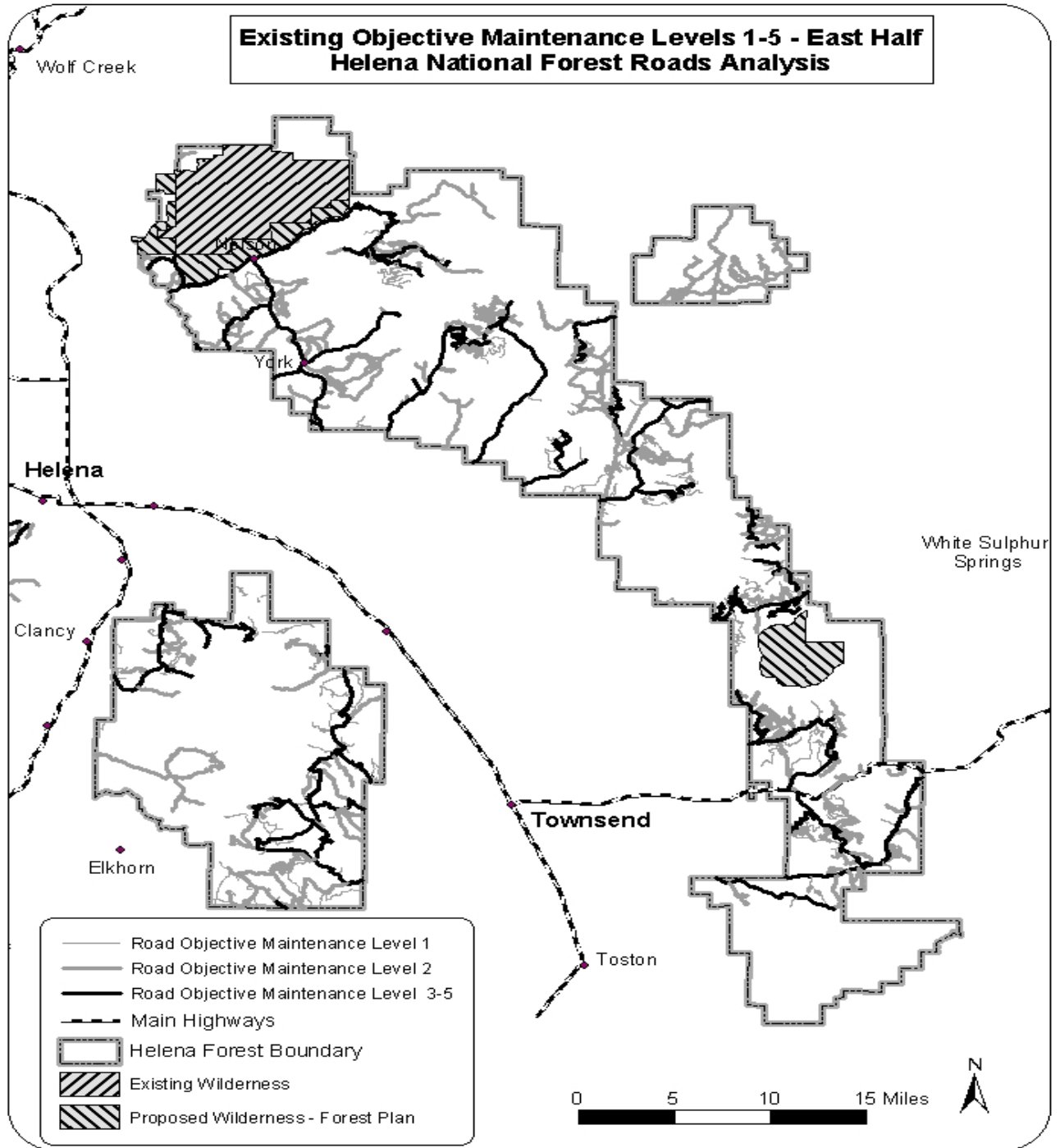


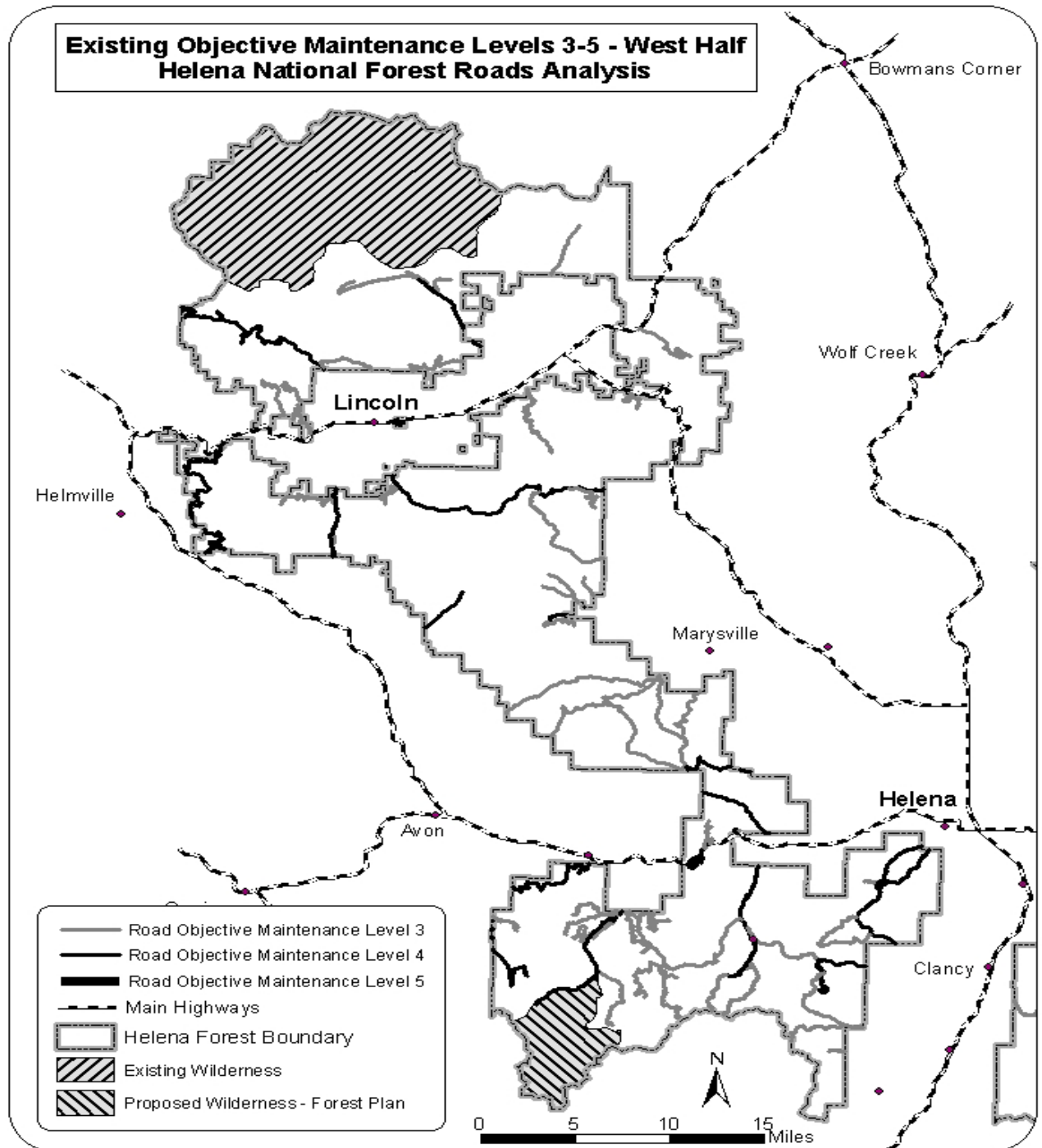


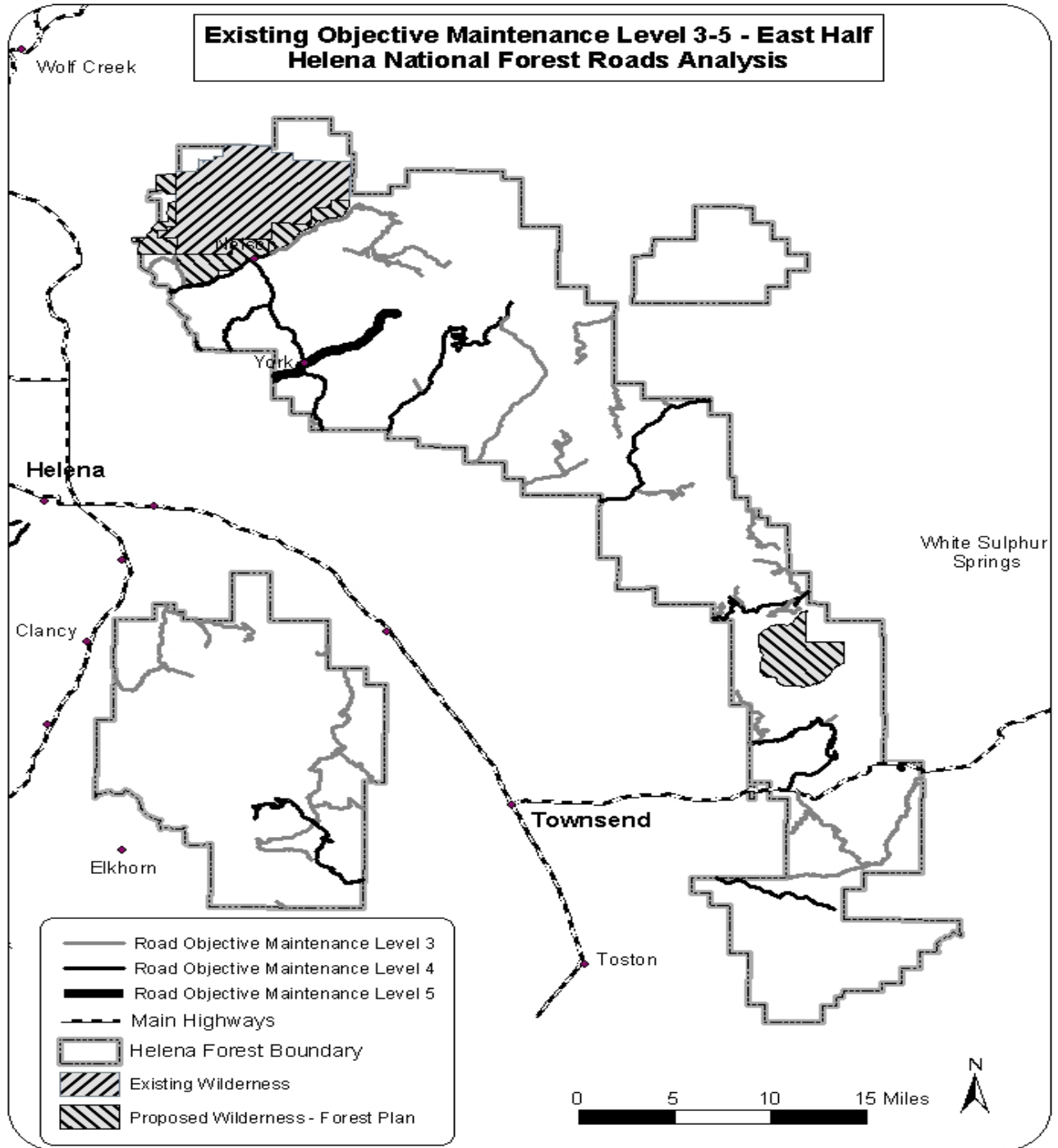


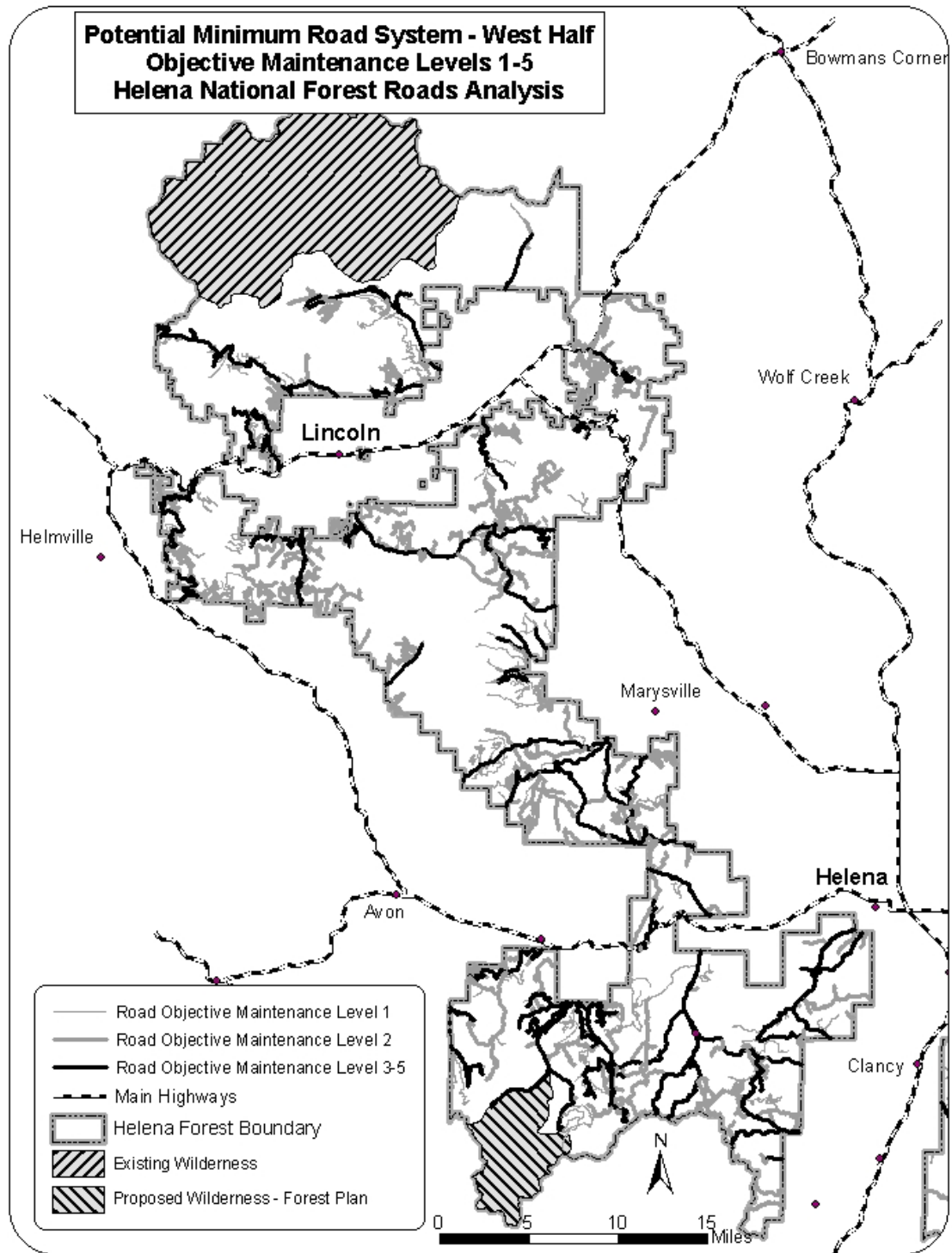


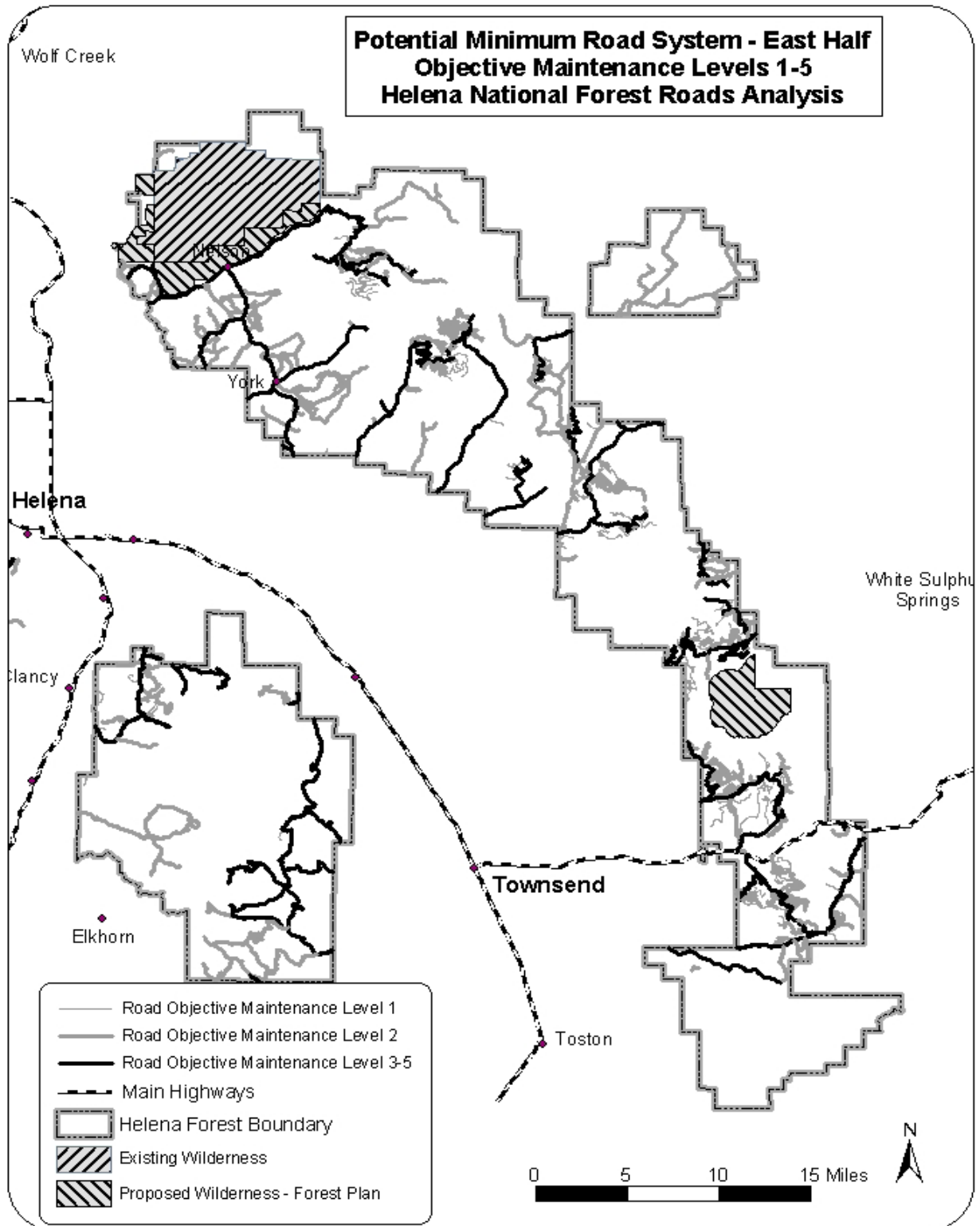


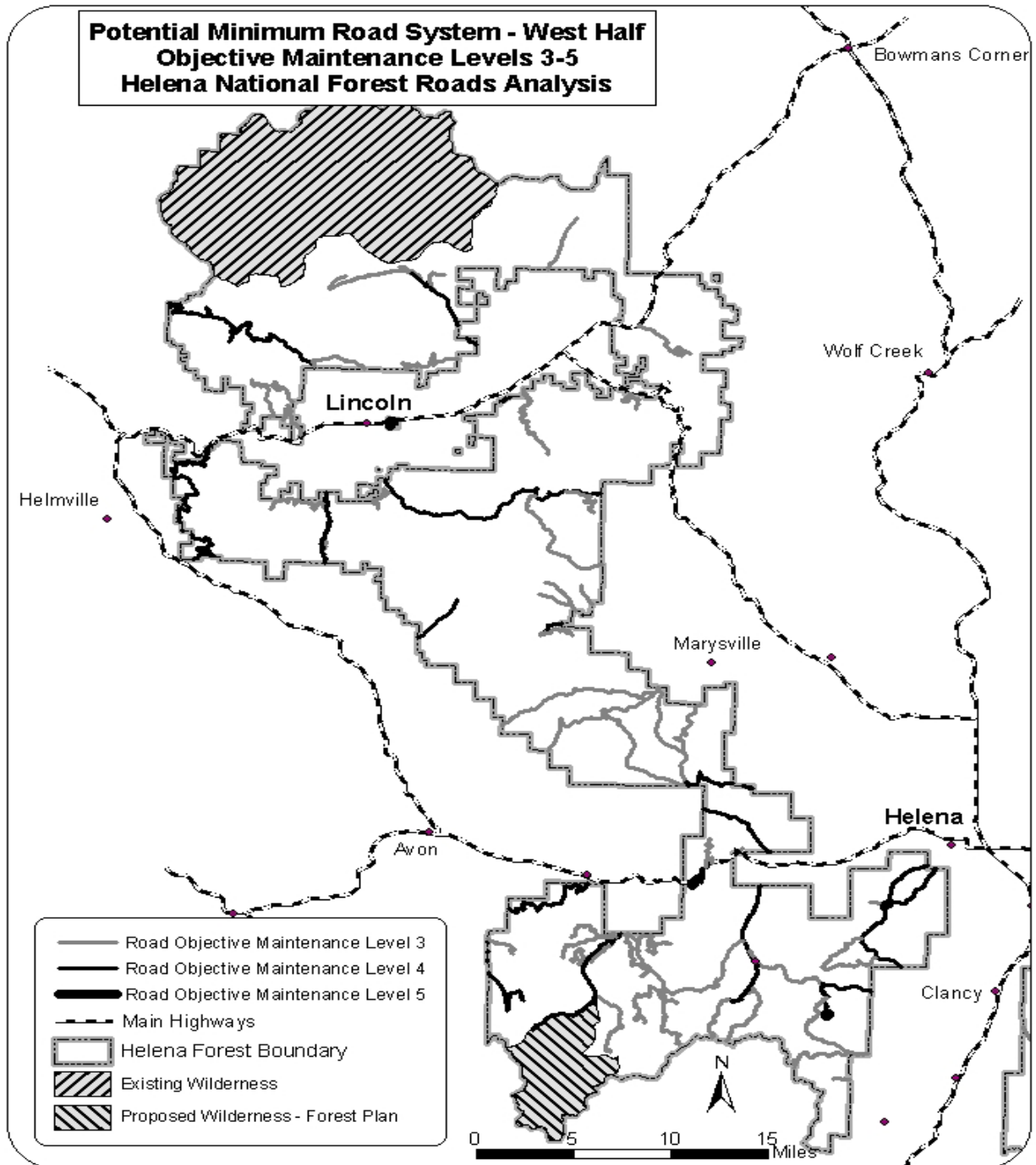


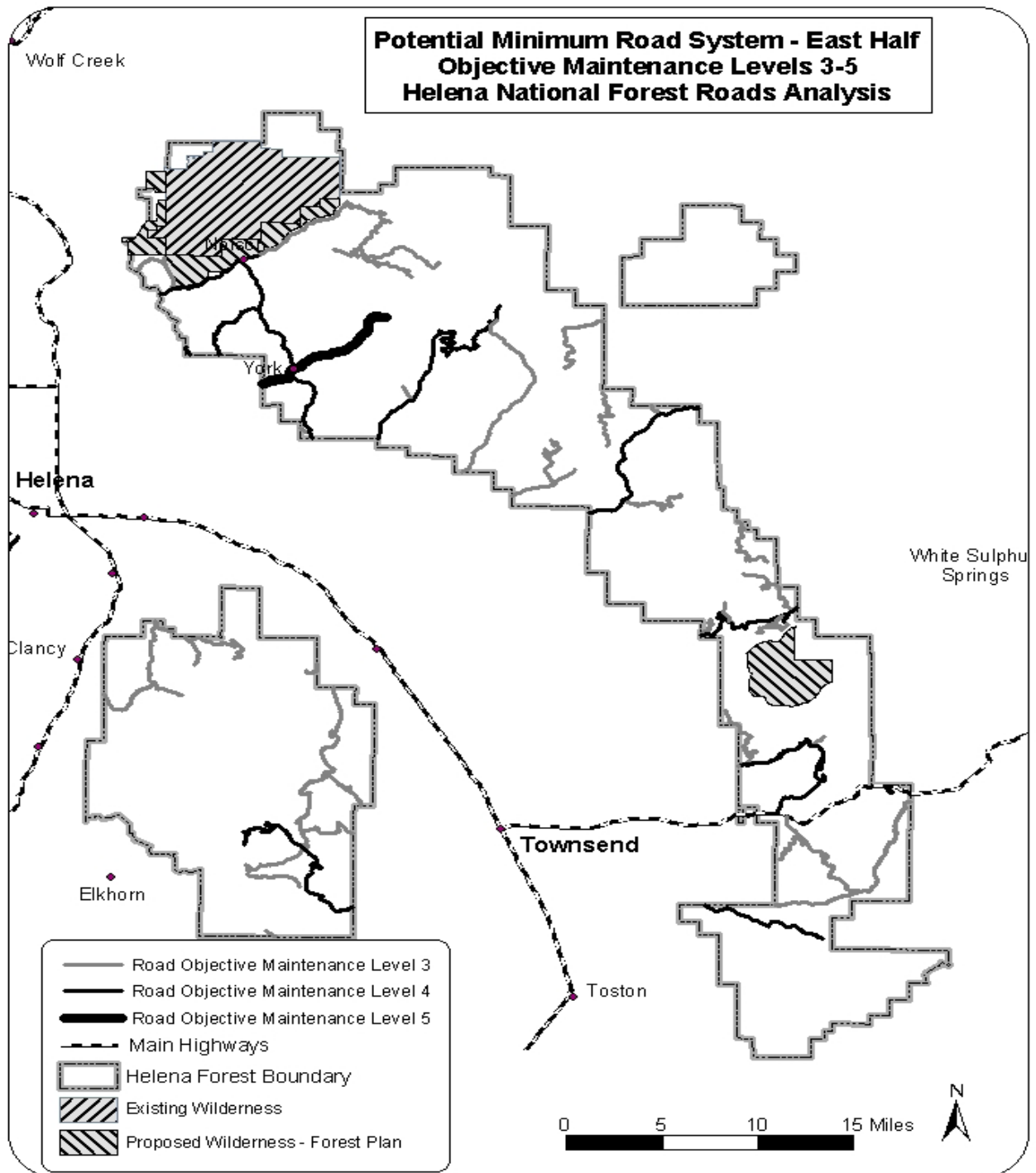


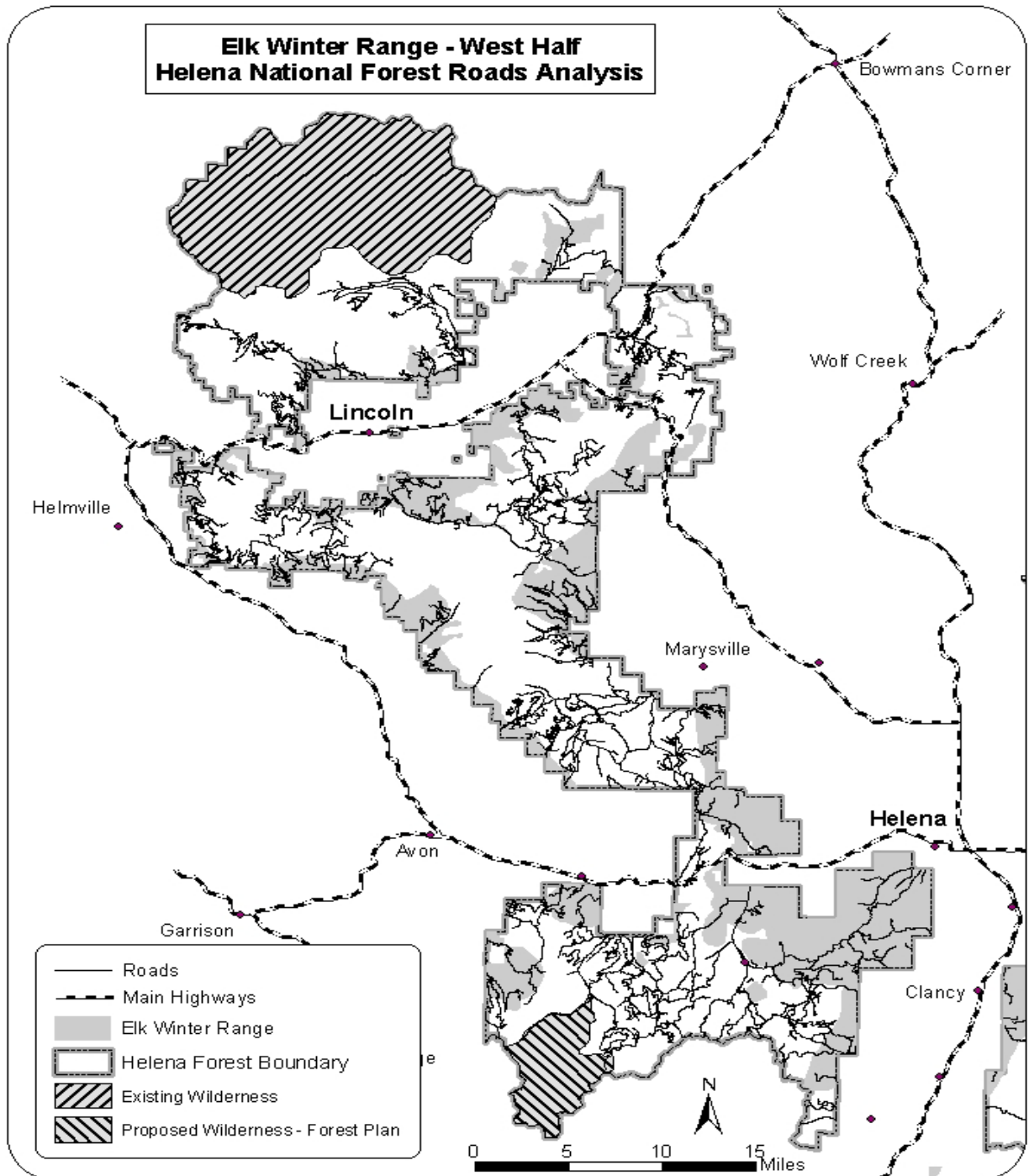


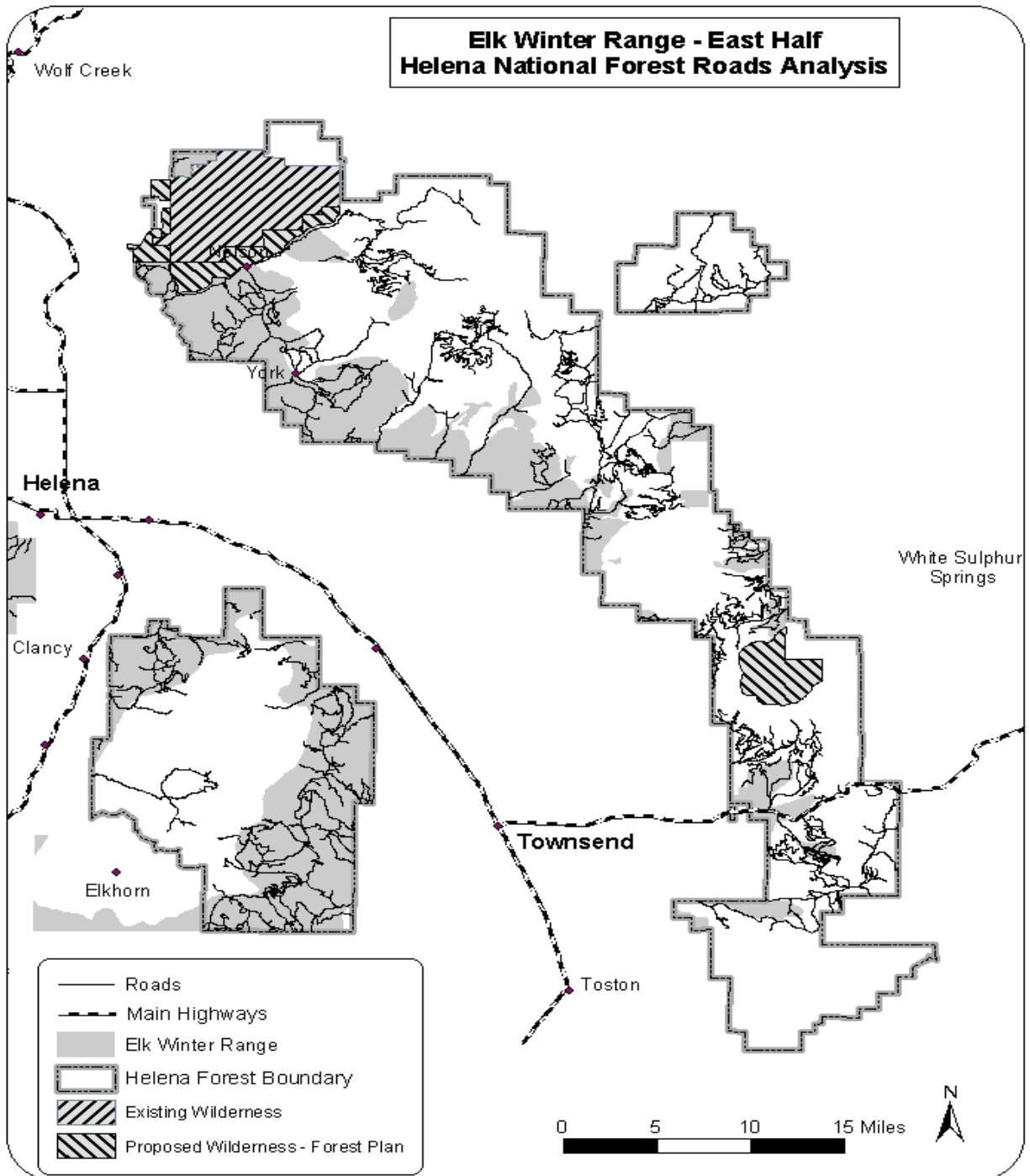


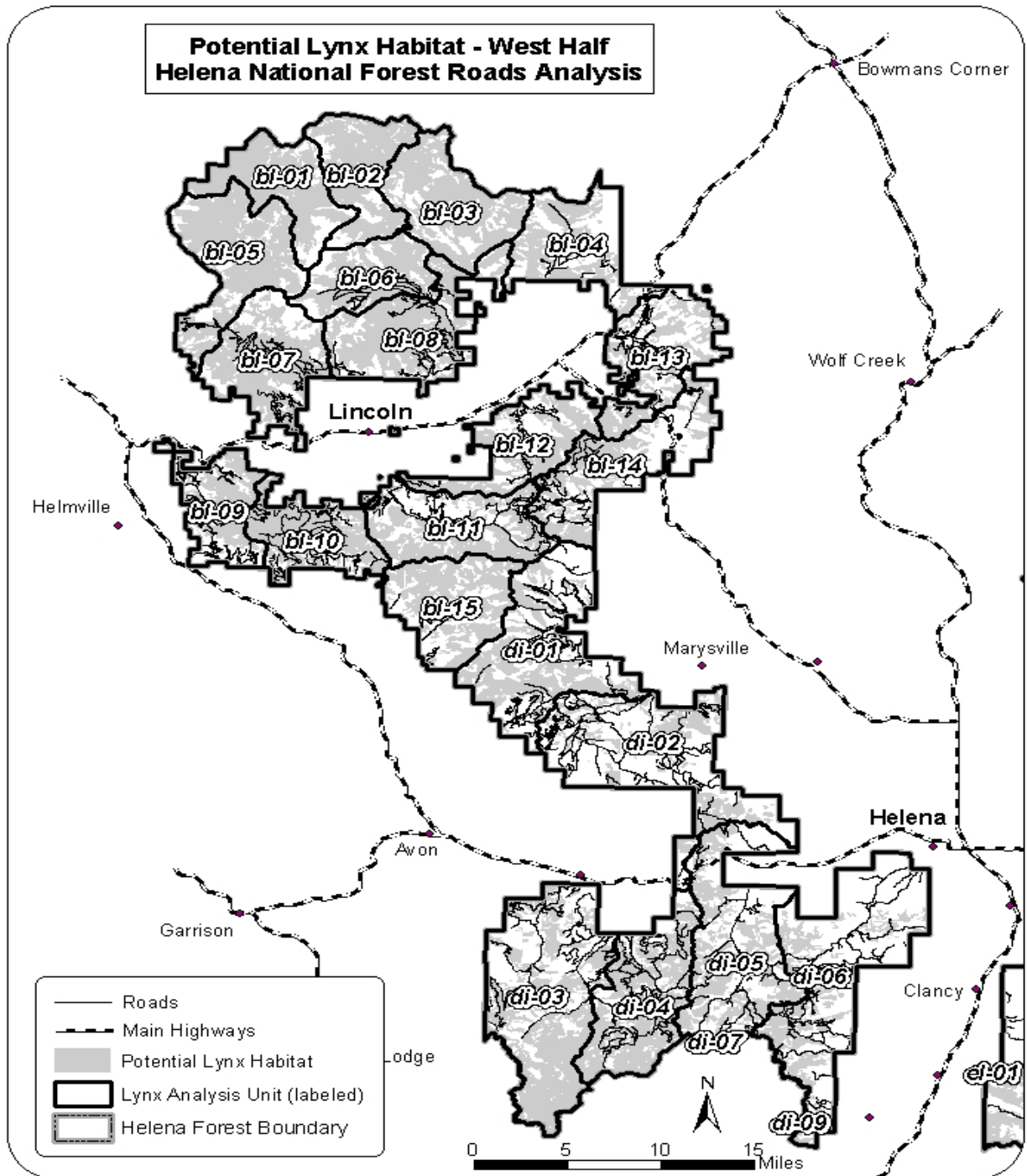


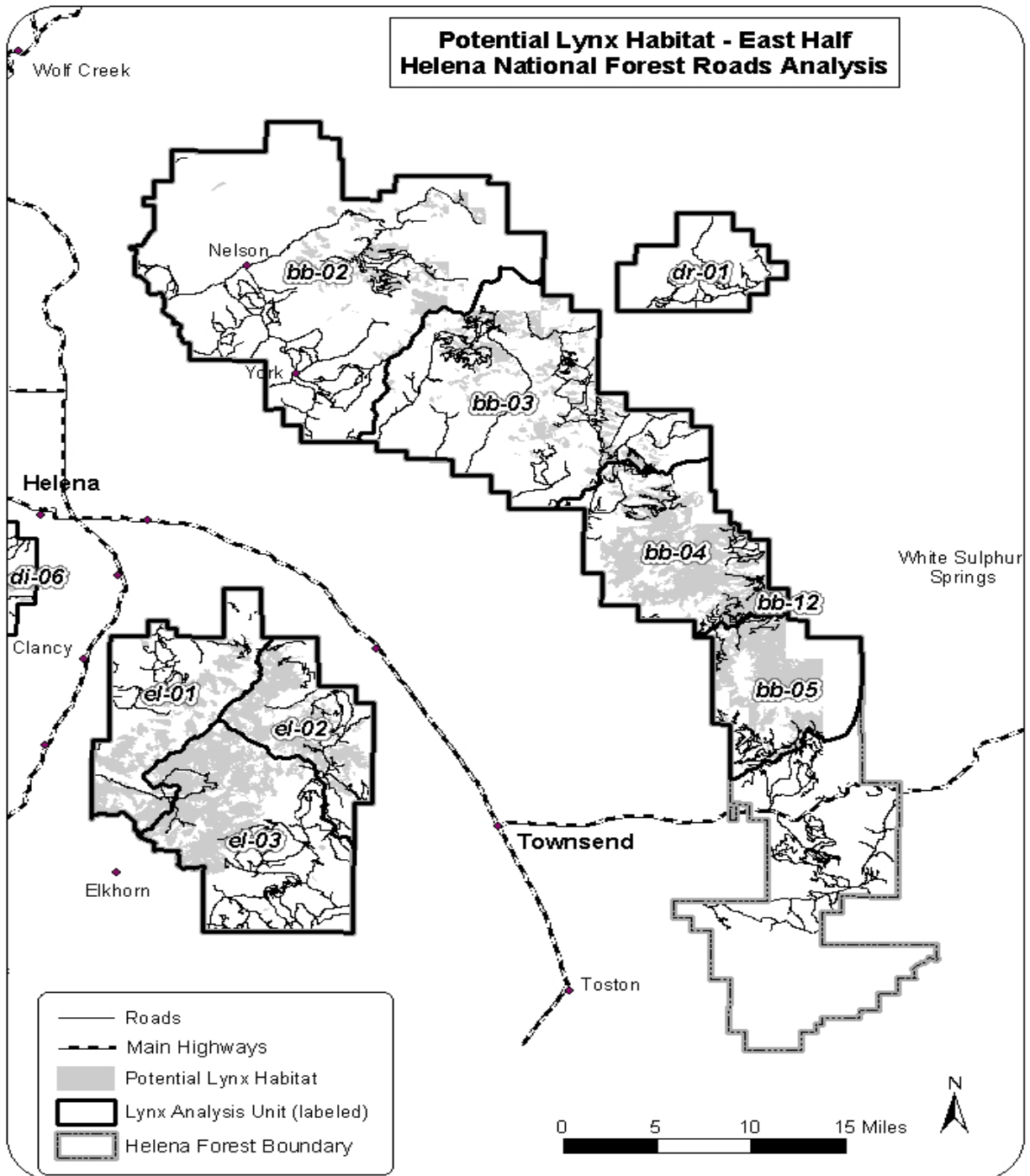


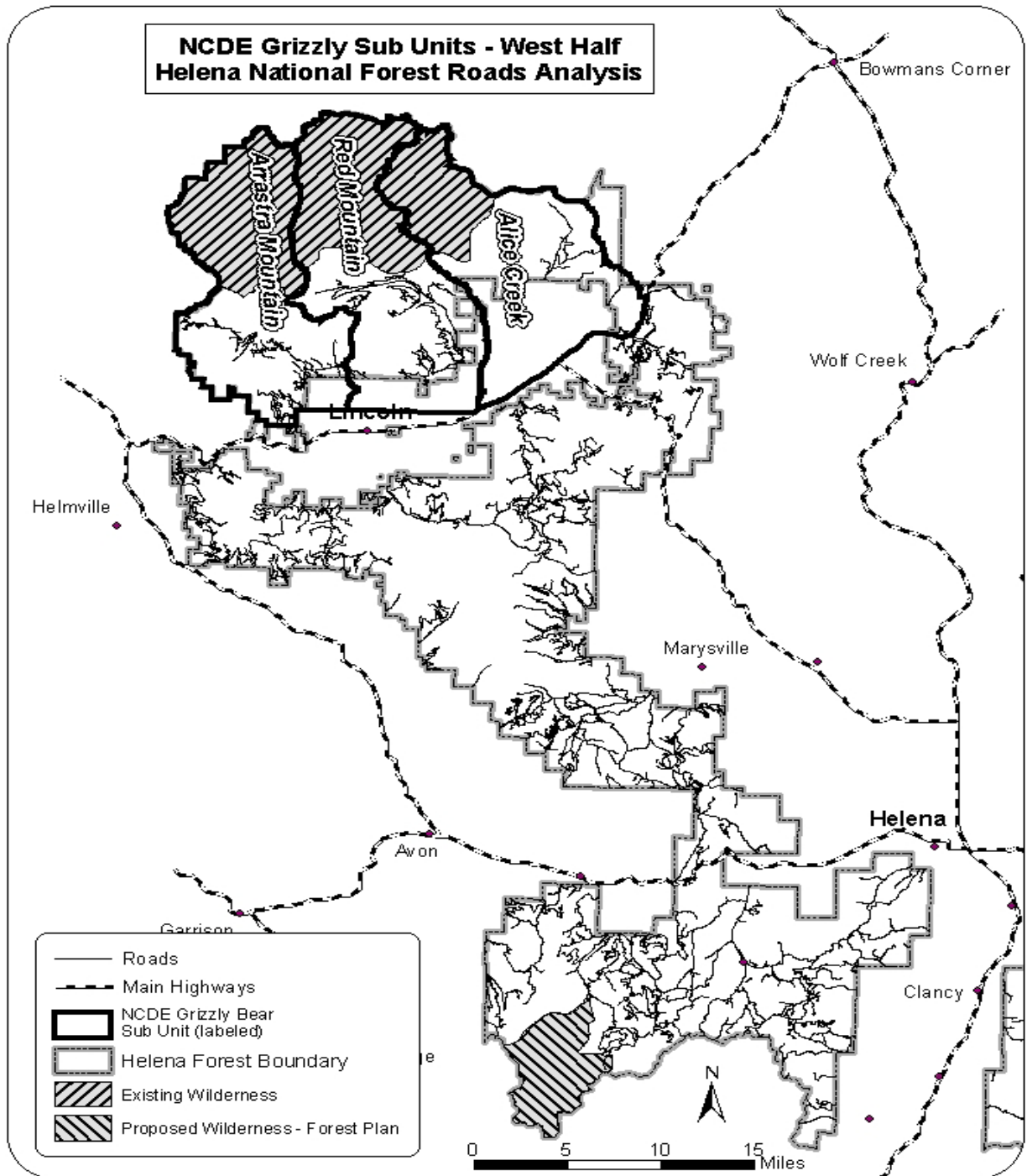












ROADS ANALYSIS REPORT

APPENDIX E: Rating Process

Helena National Forest

2002 – 2004

APPENDIX E, RATING PROCESSES

TERRESTRIAL WILDLIFE RATING PROCESS

On February 21, 2002 the Wildlife Biologists on the Helena got together to outline a procedure for identifying risks to wildlife as part of the Roads Analysis process. We tailored our discussion to those items identified in the “Roads Analysis: Informing Decisions About Managing the National Forest Transportation System”. Several bodies of literature exist that discuss effects of roads on various wildlife species; however quantification of road densities relative to those effects is limited in the scientific literature. As such, discussions of effects to many wildlife species relative to roads have been confined to summary descriptions. We identified 4 areas/species within which roads and road densities and their potential effects to wildlife could be meaningfully assessed.

- Overall open road densities relative to the probability of meeting or exceeding Forest Plan Standards during hunting season (relative to Elk)²
- Elk Winter Range
- Lynx
- Grizzly Bear

Each area is discussed separately since each topic has its own definitions, assumptions, and risk parameters. Existing direction in our Forest Plan is used as a parameter against which to measure risk. In some cases direction is either absent from the Plan or new information is available and has been used by the Forest as a measure of effects of roads. These exceptions are noted where applicable. All applicable maps are on file at the Supervisor’s Office.

Overall Open Road Densities Relative To The Probability Of Meeting Or Exceeding Forest Plan Standards During Hunting Season

Open road density was chosen as a parameter primarily to measure effects to elk during non-winter use. The overall road density may also be used to generally summarize effects to other wildlife but only in a cursory manner since data aren’t available for many species to quantify such effects. The Forest Plan standard at hand involves road management during the first week of hunting season and identifies various road densities relative to the percent of existing hiding cover.

Definitions

² Open road density may also be used to generally describe effects to other species and the information contained in the roads analysis may be descriptively applied to other species but for the purposes of this analysis we specifically looked at open road density against a measurable parameter in our Forest Plan.

Overall road densities outside of the winter season are identified as any road that is open at any time during the year. This includes only road levels 2-5 because level 1 are assumed closed to motorized traffic. However, some of these open roads may be seasonally closed (i.e. during hunting season) but that level of information is not available for this analysis.

The Process

Road densities were calculated by watershed, and, as stated above, were treated as *open* road densities since seasonal closures were not available electronically. Because this information is not available it's probable that some watersheds received 'high' risk ratings when in essence they might actually represent a low risk to elk due to seasonal closures. Project level analyses, both existing and future, will identify where seasonal closures exist to benefit elk during the first week of hunting season. Open road densities relative to the amount of hiding cover present are not evaluated as a part of this process. This parameter is designed to indicate the *probability* of exceeding Forest Plan standards in order to highlight watersheds that may warrant additional analyses during travel planning efforts.

Risk Parameters and Ratings

The risk parameters are based on the 'Max Open Road Density' standard identified in the Forest Plan on page II/18. This standard is based on the amount of existing hiding cover but for the purposes of this analysis, open road densities only were used to develop a rating system. Project level analyses will determine the relationship between hiding cover and maximum open road density. The current road analysis is intended to broadly address the probability of exceeding Forest Plan standards. As such, a risk rating was developed using the 'Max Open Road Density' as a framework from which to determine high, medium, and low probabilities of exceeding Forest Plan standards. If the existing road density in a watershed is less than the lowest open road density identified in the Forest Plan, it received a low probability of exceeding Forest Plan standards. If the existing road density was higher than the highest open road density in the Forest Plan it received a high probability of exceeding standards. Road densities in between these two values were assigned a moderate probability of exceeding Forest Plan standards. The risk ratings are as follows:

Less than 0.1 mi/mi² = low risk rating
 0.1 to 2.4 mi/mi² = moderate risk rating
 Greater than 2.4 mi/mi² = high risk rating

Results

Table 1, below, identifies those watersheds that have a high, medium, or low probability of exceeding Forest Plan Standards during hunting season (*See column labeled 'Probability of Exceeding FP Standards During Hunting Season'*). Approximately 50 watersheds have a high probability of exceeding Forest Plan standards, 209 moderate, and 252 low. This information is also use to derive a composite elk risk rating that is reflected in Table 2 and described under the section Elk Winter Range. Table 2, however, assigned a risk rating per road segment based on

the watershed information described in Table 1. Based on road segments, approximately 375 roads received a high risk rating, 1215 moderate, and 33 low.

Appendix E, Table 1 Probability of Exceeding Forest Plan Standards During Hunting Season

Watershed	Watershed Name	Area Mi ²	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0100 1	#N/A	1.04	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0100 2	#N/A	3.83	#N/A	0.2036	6.2338	#N/A	6.4374	1.68	Moderate
0101 0	#N/A	65.26	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0102 0	#N/A	1.36	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 1	#N/A	3.19	1.9646	2.3231	0.108	#N/A	4.3957	1.38	Moderate
0200 10	#N/A	0.15	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 11	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 12	#N/A	0.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 13	#N/A	0.22	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 14	#N/A	0.25	#N/A	#N/A	#N/A	0.7039	0.7039	2.82	High
0200 15	#N/A	0.84	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 16	#N/A	0.3	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 17	#N/A	0.8	#N/A	0.4962	0.4418	#N/A	0.938	1.17	Moderate
0200 18	#N/A	0.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 19	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 2	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 20	#N/A	0.27	0.6348	#N/A	#N/A	#N/A	0.6348	2.35	Moderate
0200 21	#N/A	0.07	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 22	#N/A	0.3	#N/A	#N/A	0.7838	#N/A	0.7838	2.61	High
0200 23	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 24	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 25	#N/A	0.1	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 26	#N/A	3.83	7.6601	#N/A	0.361	#N/A	8.0211	2.09	Moderate
0200 27	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 28	#N/A	0.28	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 29	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 3	#N/A	1.52	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 30	#N/A	0.01	0.0066	#N/A	#N/A	#N/A	0.0066	0.66	Moderate
0200 31	#N/A	0.38	0.696	0.753	#N/A	#N/A	1.449	3.81	High

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0200 32	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 33	#N/A	1.25	0.9322	#N/A	0.0087	#N/A	0.9409	0.75	Moderate
0200 34	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 4	#N/A	1.3	0.614	1.4053	#N/A	#N/A	2.0193	1.55	Moderate
0200 5	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 6	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 7	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0200 8	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0200 9	#N/A	3.56	1.4242	3.6793	#N/A	#N/A	5.1035	1.43	Moderate
0201 0	#N/A	2.35	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0202 0	Arrastra Creek	11.78	0.4772	#N/A	4.4292	#N/A	4.9064	0.42	Moderate
0203 0	Lincoln Gulch	7.58	2.3082	6.638	#N/A	#N/A	8.9462	1.18	Moderate
0204A 0	Beaver Creek	10.68	1.9841	0.5351	5.4463	#N/A	7.9655	0.75	Moderate
0204B 0	W. Trib Beaver Creek	1.96	5.7404	#N/A	#N/A	#N/A	5.7404	2.93	High
0205A 0	Stonewall Creek	4.82	2.1072	0.8015	#N/A	#N/A	2.9087	0.60	Moderate
0206 0	#N/A	2.97	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0207 0	#N/A	2.48	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0208 0	Sucker Creek	1.87	#N/A	0.7945	#N/A	#N/A	0.7945	0.42	Moderate
0209 0	Keep Cool Ceek	6.28	7.7422	3.348	#N/A	#N/A	11.0902	1.77	Moderate
0210 0	Seven-Up-Pete Creek	4.8	0.232	#N/A	#N/A	#N/A	0.232	0.05	Low
0211A 0	#N/A	1.56	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0211B 0	South Fork Humbug Creek	2.99	2.2319	#N/A	#N/A	#N/A	2.2319	0.75	Moderate
0211C 0	#N/A	1.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0212 0	Poorman Creek	37.23	41.4859	7.2731	10.3213	#N/A	59.0803	1.59	Moderate
0213 0	Willow Creek	8.03	14.1288	1.6284	3.2812	#N/A	19.0384	2.37	Moderate
0214 0	Sauerkraut Creek	7.31	7.2799	2.5123	#N/A	#N/A	9.7922	1.34	Moderate
0215 0	#N/A	2.44	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0216 0	Moose Creek	5.48	#N/A	#N/A	0.9651	#N/A	0.9651	0.18	Moderate

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0217 0	#N/A	1.26	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0218 0	Unnamed Trib to Blackfoot	0.54	0.7364	#N/A	#N/A	#N/A	0.7364	1.36	Moderate
0219 0	Unnamed Trib to Blackfoot	1.67	4.2224	#N/A	3.4873	#N/A	7.7097	4.62	High
0220 0	#N/A	1.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0300 1	#N/A	0.09	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0300 10	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0300 11	#N/A	0.8	0.5646	#N/A	#N/A	#N/A	0.5646	0.71	Moderate
0300 12	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0300 13	#N/A	0.13	0.0061	#N/A	#N/A	#N/A	0.0061	0.05	Low
0300 14	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0300 15	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0300 16	#N/A	0.2	0.1632	#N/A	#N/A	#N/A	0.1632	0.82	Moderate
0300 17	#N/A	0.66	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0300 18	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0300 19	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0300 2	#N/A	1.7	1.2952	#N/A	2.4463	#N/A	3.7415	2.20	Moderate
0300 20	#N/A	0.68	2.0137	#N/A	0.0131	#N/A	2.0268	2.98	High
0300 3	#N/A	0.62	0.0381	#N/A	0.3442	#N/A	0.3823	0.62	Moderate
0300 4	#N/A	0.57	1.7713	#N/A	#N/A	#N/A	1.7713	3.11	High
0300 5	#N/A	0.34	1.4706	#N/A	#N/A	#N/A	1.4706	4.33	High
0300 6	#N/A	0.22	0.3752	#N/A	#N/A	#N/A	0.3752	1.71	Moderate
0300 7	#N/A	0.04	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0300 8	#N/A	0.1	0.053	#N/A	0.0756	#N/A	0.1286	1.29	Moderate
0300 9	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0301 0	Wasson Creek	3.15	0.5365	#N/A	1.6664	#N/A	2.2029	0.70	Moderate
0304 0	Chimney Creek	1.89	2.96	#N/A	2.3228	#N/A	5.2828	2.80	High
0305 0	Rossin Creek	0.87	1.3632	#N/A	1.9555	#N/A	3.3187	3.81	High
0306 0	Deer Creek	1.95	2.2848	#N/A	#N/A	#N/A	2.2848	1.17	Moderate
0307 0	Chicken Creek	1.29	0.0205	#N/A	#N/A	#N/A	0.0205	0.02	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0308A 0	Clear Creek	2.57	6.8784	#N/A	#N/A	#N/A	6.8784	2.68	High
0308B 0	Buffalo Gulch	2.52	3.9002	#N/A	#N/A	#N/A	3.9002	1.55	Moderate
0308C 0	Sheldon Gulch	1.34	5.0327	0.6312	1.5407	#N/A	7.2046	5.38	High
0308D 0	California Creek	0.77	2.1372	#N/A	#N/A	#N/A	2.1372	2.78	High
0309 0	Madison Gulch	1.91	4.4092	#N/A	#N/A	#N/A	4.4092	2.31	Moderate
0310A 0	Washington Creek	6.15	0.9031	#N/A	#N/A	#N/A	0.9031	0.15	Moderate
0310B 0	#N/A	0.95	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0310C 0	#N/A	0.45	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0311 0	Nevada Creek	22.2	9.7469	#N/A	3.171	#N/A	12.9179	0.58	Moderate
0313 0	Shingle Mill Creek	3.1	3.0649	#N/A	#N/A	#N/A	3.0649	0.99	Moderate
0314 0	Mitchell Creek	1.84	0.1729	#N/A	#N/A	#N/A	0.1729	0.09	Low
0315 0	Wilson Creek	2.54	4.7463	#N/A	0.6336	#N/A	5.3799	2.12	Moderate
0316 0	Jefferson Creek	2.09	2.9293	#N/A	#N/A	#N/A	2.9293	1.40	Moderate
0400 1	#N/A	0.66	0.6197	#N/A	#N/A	#N/A	0.6197	0.94	Moderate
0400 10	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0400 11	#N/A	1.61	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0400 12	#N/A	2	0.1406	#N/A	#N/A	#N/A	0.1406	0.07	Low
0400 2	#N/A	0.09	#N/A	0.063	#N/A	#N/A	0.063	0.70	Moderate
0400 3	#N/A	0.55	0.5597	#N/A	#N/A	#N/A	0.5597	1.02	Moderate
0400 4	#N/A	1.28	0.7647	#N/A	#N/A	#N/A	0.7647	0.60	Moderate
0400 5	#N/A	1.72	0.745	0.2364	#N/A	#N/A	0.9814	0.57	Moderate
0400 6	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0400 7	#N/A	0.24	0.5935	#N/A	#N/A	#N/A	0.5935	2.47	High
0400 8	#N/A	0.14	#N/A	0.3721	#N/A	#N/A	0.3721	2.66	High
0400 9	#N/A	0.92	0.1769	#N/A	0.6587	#N/A	0.8356	0.91	Moderate
0401 0	Alice Creek	17.92	5.4788	3.5372	#N/A	#N/A	9.016	0.50	Moderate
0401A 0	#N/A	3.76	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0401B 0	Bartlet Creek	0.9	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0402 0	Upper Blackfoot River	15.08	39.519	5.392	#N/A	#N/A	44.911	2.98	High

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0402A 0	Cadotte Creek	1.97	1.0491	#N/A	#N/A	#N/A	1.0491	0.53	Moderate
0402B 0	#N/A	1.53	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0403 0	Willow Creek	3.16	1.7194	#N/A	#N/A	#N/A	1.7194	0.54	Moderate
0403A 0	Sandbar Creek	2.2	3.2534	#N/A	#N/A	#N/A	3.2534	1.48	Moderate
0403B 0	#N/A	1.82	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0403C 0	Willow Cr Trib #2	0.91	0.3623	1.3795	#N/A	#N/A	1.7418	1.91	Moderate
0403D 0	Willow Cr Trib #3	1.28	#N/A	0.7472	#N/A	#N/A	0.7472	0.58	Moderate
0405 0	Hogum Creek	11.86	10.5014	6.8372	#N/A	#N/A	17.3386	1.46	Moderate
0406 0	#N/A	1	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0500 1	#N/A	0.27	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0500 2	#N/A	0.09	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0500 3	#N/A	1.34	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0500 4	#N/A	1.13	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0500 5	#N/A	0.48	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0500 6	#N/A	1.16	0.0682	0.0942	0.6275	#N/A	0.7899	0.68	Moderate
0501 0	#N/A	68.8	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0501A 0	#N/A	1.04	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0501B 0	Indian Meadows	2.59	0.2851	0.4758	#N/A	#N/A	0.7609	0.29	Moderate
0502 0	Copper Creek	38.8	14.691	9.0025	4.604	#N/A	28.2975	0.73	Moderate
0600 1	#N/A	0.72	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 10	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0600 11	#N/A	0.28	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 12	#N/A	0.08	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 13	#N/A	0.37	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 14	#N/A	0.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 2	#N/A	0.48	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 3	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 4	#N/A	0.18	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 5	#N/A	0.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0600 6	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0600 7	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0600 8	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0600 9	#N/A	0.26	0.5861	#N/A	#N/A	#N/A	0.5861	2.25	Moderate
0601A 0	West Fork Dearborne River	1.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0601B 0	Middle Fork Dearborne River	0.75	1.0696	#N/A	#N/A	#N/A	1.0696	1.43	Moderate
0601C 0	#N/A	2.38	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0601D 0	#N/A	2.11	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0602A 0	West Prong S. Fk. Dearborne R.	2.82	2.4776	#N/A	#N/A	#N/A	2.4776	0.88	Moderate
0602C 0	South Fork Dearborne River	5.61	1.128	#N/A	#N/A	#N/A	1.128	0.20	Moderate
0700 1	#N/A	0.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 10	#N/A	0.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 11	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 12	#N/A	0.56	0.2327	0.722	#N/A	#N/A	0.9547	1.70	Moderate
0700 13	#N/A	1.43	0.1711	#N/A	#N/A	#N/A	0.1711	0.12	Moderate
0700 14	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 15	#N/A	0.18	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 16	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 17	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 18	#N/A	2.79	1.1344	1.8602	0.3901	#N/A	3.3847	1.21	Moderate
0700 19	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
0700 2	#N/A	0.14	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 20	#N/A	0.08	0.4334	#N/A	#N/A	#N/A	0.4334	5.42	High
0700 21	#N/A	0.85	0.2202	#N/A	#N/A	#N/A	0.2202	0.26	Moderate
0700 22	#N/A	10.65	0.233	#N/A	#N/A	#N/A	0.233	0.02	Low
0700 3	#N/A	0.04	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 4	#N/A	0.04	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 5	#N/A	0.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0700 6	#N/A	0.02	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 7	#N/A	0.17	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 8	#N/A	0.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0700 9	#N/A	0.22	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0701A 0	Canyon Creek	6.13	5.5923	#N/A	#N/A	#N/A	5.5923	0.91	Moderate
0701B 0	#N/A	1.3	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0701C 0	#N/A	2.13	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0703 0	#N/A	1.47	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0705 0	East Fork canyon Creek	7.62	7.719	#N/A	#N/A	#N/A	7.719	1.01	Moderate
0706 0	Virginia Creek	7.99	22.2006	2.9744	4.1106	#N/A	29.2856	3.67	High
0706A 0	Stemple Creek	2.23	1.4656	#N/A	#N/A	#N/A	1.4656	0.66	Moderate
0706E 0	Gould Creek	2.67	4.3586	0.0289	#N/A	#N/A	4.3875	1.64	Moderate
0707A 0	North Fork Marsh Creek	1.3	0.0602	#N/A	#N/A	#N/A	0.0602	0.05	Low
0707B 0	Marsh Creek	3.73	2.9639	3.5138	#N/A	#N/A	6.4777	1.74	Moderate
0708A 0	N. Fk. Little Prickley Pear	7.81	0.6241	4.2046	#N/A	#N/A	4.8287	0.62	Moderate
0708C 0	Cellar Gulch	1.62	#N/A	1.3601	#N/A	#N/A	1.3601	0.84	Moderate
0708D 0	Ogilvie Gulch	1.08	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0709 0	S. Fk. Little Prickley Pear	7.07	#N/A	1.3208	0.7644	#N/A	2.0852	0.29	Moderate
0710A 0	Deadman Creek	7.7	1.5502	0.137	#N/A	#N/A	1.6872	0.22	Moderate
0710B 0	Cottonwood Gulch	3.93	3.1101	0.2089	#N/A	#N/A	3.319	0.84	Moderate
0710C 0	Jerusha Gulch	2.95	0.4133	1.5046	#N/A	#N/A	1.9179	0.65	Moderate
0710D 0	Dry Creek	1.03	1.3676	#N/A	#N/A	#N/A	1.3676	1.33	Moderate
0800 1	#N/A	2.39	4.9047	#N/A	#N/A	#N/A	4.9047	2.05	Moderate
0800 10	#N/A	0	0.0076	#N/A	#N/A	#N/A	0.0076	#DIV/0!	Low
0800 11	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 12	#N/A	2.51	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 13	#N/A	1.17	1.0457	#N/A	#N/A	#N/A	1.0457	0.89	Moderate
0800 14	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0800 15	#N/A	0.04	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 16	#N/A	1.14	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 17	#N/A	3.46	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 18	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 19	#N/A	0.4	#N/A	#N/A	0.0332	#N/A	0.0332	0.08	Low
0800 2	#N/A	0.47	0.1493	#N/A	#N/A	#N/A	0.1493	0.32	Moderate
0800 20	#N/A	0.94	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 21	#N/A	0.34	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 22	#N/A	0.59	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 23	#N/A	0.13	#N/A	0.1818	#N/A	#N/A	0.1818	1.40	Moderate
0800 24	#N/A	0.46	0.5686	#N/A	#N/A	#N/A	0.5686	1.24	Moderate
0800 25	#N/A	0.19	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 26	#N/A	0.59	0.0533	#N/A	#N/A	#N/A	0.0533	0.09	Low
0800 27	#N/A	0.63	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 28	#N/A	0.66	1.4813	#N/A	#N/A	#N/A	1.4813	2.24	Moderate
0800 29	#N/A	0.07	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 3	#N/A	0.3	0.4684	#N/A	#N/A	#N/A	0.4684	1.56	Moderate
0800 30	#N/A	0.33	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 4	#N/A	0.48	#N/A	#N/A	0.5311	#N/A	0.5311	1.11	Moderate
0800 5	#N/A	3.71	0.2446	#N/A	0.1178	#N/A	0.3624	0.10	Moderate
0800 6	#N/A	0.73	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 7	#N/A	0.04	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0800 8	#N/A	1.59	0.0401	#N/A	#N/A	#N/A	0.0401	0.03	Low
0800 9	#N/A	0.35	0.205	#N/A	#N/A	#N/A	0.205	0.59	Moderate
0802 0	Skely Gulch	2.24	3.9337	#N/A	#N/A	#N/A	3.9337	1.76	Moderate
0803 0	Greenhorn Creek	3.87	4.5208	#N/A	#N/A	#N/A	4.5208	1.17	Moderate
0804 0	Austin Creek	4.63	7.6648	#N/A	4.0961	#N/A	11.7609	2.54	High
0804A 0	Trib Austin Ceek	2.28	1.2641	#N/A	0.7298	#N/A	1.9939	0.87	Moderate
0805 0	#N/A	2.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Table 1. Probability of Exceeding Forest Plan Standards During Hunting Season, Continued...

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0807A 0	Sweeney Creek	3.5	0.1898	#N/A	2.6277	#N/A	2.8175	0.81	Moderate
0807B 0	E. Fk. Sweeney Creek	1.64	1.3687	#N/A	#N/A	#N/A	1.3687	0.83	Moderate
0809A 0	W. Fk. Colorado Gulch	2.65	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0809B 0	#N/A	2.95	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0809C 0	Nelson Gulch	3.02	#N/A	0.2119	#N/A	#N/A	0.2119	0.07	Low
0809D 0	#N/A	0.56	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0810 0	Grizzly Gulch	6.71	1.5974	0.5682	6.7925	#N/A	8.9581	1.34	Moderate
0810A 0	Squaw Gulch	0.65	1.7137	#N/A	#N/A	#N/A	1.7137	2.64	High
0810B 0	Orofino Gulch	3.88	1.9151	#N/A	3.1651	#N/A	5.0802	1.31	Moderate
0810C 0	Dry Gulch	3.63	0.0706	#N/A	#N/A	#N/A	0.0706	0.02	Low
0810D 0	#N/A	0.35	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0813 0	Little Buffalo Gulch	2.2	1.616	#N/A	#N/A	#N/A	1.616	0.73	Moderate
0814 0	Buffalo Creek	15.28	6.8473	7.7354	4.274	#N/A	18.8567	1.23	Moderate
0815 0	Corral Gulch	1.78	1.7781	#N/A	3.6052	#N/A	5.3833	3.02	High
0815A 0	#N/A	0.85	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0816 0	Lump Gulch	8.69	9.0127	2.9013	1.2771	0.4358	13.6269	1.57	Moderate
0817 0	Quartz Creek	7.58	4.3871	7.9088	#N/A	#N/A	12.2959	1.62	Moderate
0817A 0	Roe Gulch	0.95	2.3727	#N/A	#N/A	#N/A	2.3727	2.50	High
0818 0	Kady Gulch	2.15	0.887	0.9335	#N/A	#N/A	1.8205	0.85	Moderate
0818A 0	Clancy Creek	1.21	0.5454	#N/A	#N/A	#N/A	0.5454	0.45	Moderate
0819 0	Wood Chute Creek	1.78	3.2872	#N/A	#N/A	#N/A	3.2872	1.85	Moderate
0819A 0	#N/A	1.43	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0820 0	Prickley Pear Creek	9.86	6.9217	#N/A	#N/A	#N/A	6.9217	0.70	Moderate
0820A 0	#N/A	0.99	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0821 0	Dutchman Creek	5.8	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0822 0	Warm Springs Creek	15.61	3.9171	4.5915	#N/A	#N/A	8.5086	0.55	Moderate
0822A 0	Badger Creek	1.26	0.7799	#N/A	#N/A	#N/A	0.7799	0.62	Moderate
0823 0	Strawberry Creek	3.49	0.8123	0.5955	#N/A	#N/A	1.4078	0.40	Moderate

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
0825A 0	Corral Creek	0.73	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0825B 0	#N/A	0.79	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0900 1	#N/A	2.79	2.0291	2.4886	#N/A	#N/A	4.5177	1.62	Moderate
0900 2	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
0901 0	Maupin Creek	5.81	9.352	3.0902	#N/A	#N/A	12.4422	2.14	Moderate
0904 0	McClellan Creek	19.8	0.328	8.1722	#N/A	#N/A	8.5002	0.43	Moderate
1000 1	#N/A	0.85	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1000 2	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1000 3	#N/A	0.26	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1000 4	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1001 0	Tenmile Creek	40.38	21.9669	18.3023	8.8867	#N/A	49.1559	1.22	Moderate
1001A 0	Walker Creek	6.28	1.4344	2.6241	0.4118	0.0628	4.5331	0.72	Moderate
1005 0	Little Porcupine Creek	1.56	0.8189	0.2828	#N/A	#N/A	1.1017	0.71	Moderate
1100 1	#N/A	0.78	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 10	#N/A	0.02	0.095	#N/A	#N/A	#N/A	0.095	4.75	High
1100 11	#N/A	0.27	0.4114	0.2988	0.9248	#N/A	1.635	6.06	High
1100 12	#N/A	0.25	0.1471	#N/A	#N/A	#N/A	0.1471	0.59	Moderate
1100 13	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1100 14	#N/A	4.01	3.8255	0.4012	0.7598	0.8641	5.8506	1.46	Moderate
1100 15	#N/A	0.21	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 16	#N/A	0.37	0.0628	#N/A	0.9366	#N/A	0.9994	2.70	High
1100 17	#N/A	2.59	1.7854	1.1572	0.0056	#N/A	2.9482	1.14	Moderate
1100 18	#N/A	0.97	3.255	#N/A	1.5042	#N/A	4.7592	4.91	High
1100 19	#N/A	0.15	0.7949	#N/A	0.3315	#N/A	1.1264	7.51	High
1100 2	#N/A	0.07	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 20	#N/A	0	#N/A	#N/A	0.0196	#N/A	0.0196	#DIV/0!	Low
1100 21	#N/A	0.03	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 22	#N/A	0.5	0.8153	#N/A	#N/A	#N/A	0.8153	1.63	Moderate
1100 23	#N/A	0.38	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
1100 24	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1100 25	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1100 26	#N/A	1.62	#N/A	5.305	0.0326	#N/A	5.3376	3.29	High
1100 27	#N/A	1.62	0.7899	0.2676	0.1959	#N/A	1.2534	0.77	Moderate
1100 28	#N/A	0.13	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 3	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1100 4	#N/A	0.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 5	#N/A	0.14	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 6	#N/A	0.6	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 7	#N/A	0.42	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1100 8	#N/A	0.84	0.9164	#N/A	#N/A	#N/A	0.9164	1.09	Moderate
1100 9	#N/A	1.29	1.2228	1.5617	#N/A	#N/A	2.7845	2.16	Moderate
1101 0	Three Mile Creek	4.96	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1101B 0	#N/A	1.88	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1102 0	Ophir Creek	7.43	2.2718	3.8167	#N/A	#N/A	6.0885	0.82	Moderate
1102A 0	Carpenter Creek	0.63	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1103 0	Snowshoe Creek	4.94	14.8423	3.9853	#N/A	#N/A	18.8276	3.81	High
1104 0	North Trout Creek	3.47	9.8501	#N/A	#N/A	#N/A	9.8501	2.84	High
1104A 0	Clarks canyon	1.91	1.1945	#N/A	#N/A	#N/A	1.1945	0.63	Moderate
1105 0	Dog Creek	27.63	22.9428	25.543	#N/A	#N/A	48.4858	1.75	Moderate
1105E 0	Uncle George Creek	2.24	5.929	2.2059	#N/A	#N/A	8.1349	3.63	High
1106A 0	#N/A	0.8	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1106B 0	S. Fk. Mike Renig Gulch	4.9	2.2348	#N/A	#N/A	#N/A	2.2348	0.46	Moderate
1107 0	Telegraph Creek	12.48	15.317	13.4538	#N/A	#N/A	28.7708	2.31	Moderate
1107B 0	Flume Creek	2.79	2.1284	3.4489	#N/A	#N/A	5.5773	2.00	Moderate
1107C 0	Hahn Creek	1.08	2.6861	0.835	#N/A	#N/A	3.5211	3.26	High
1108 0	Little Blackfoot River	63.46	19.0139	21.4886	9.8005	#N/A	50.303	0.79	Moderate
1109 0	Elliston Creek	5.93	4.1755	0.6222	2.5777	#N/A	7.3754	1.24	Moderate

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
1110A 0	Trout Creek	5.89	3.3404	2.3029	#N/A	#N/A	5.6433	0.96	Moderate
1110B 0	N. Fk. Trout Creek	0.56	1.2713	#N/A	0.905	#N/A	2.1763	3.89	High
1110C 0	Hurd Creek	0.81	1.247	#N/A	1.0701	#N/A	2.3171	2.86	High
1111B 0	Spotted Dog Creek	6.82	3.4578	#N/A	5.6099	#N/A	9.0677	1.33	Moderate
1111C 0	S. Fk. Spotted Dog Creek	0.56	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1112 0	Kinney Gulch	0.77	1.6824	#N/A	0.6078	#N/A	2.2902	2.97	High
1200 1	#N/A	1.65	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 10	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 11	#N/A	0.44	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 12	#N/A	2.02	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 13	#N/A	1.8	4.0215	1.263	#N/A	#N/A	5.2845	2.94	High
1200 14	#N/A	0.32	0.3956	#N/A	#N/A	#N/A	0.3956	1.24	Moderate
1200 2	#N/A	1	1.7091	0.4252	#N/A	#N/A	2.1343	2.13	Moderate
1200 3	#N/A	0.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 4	#N/A	1.46	0.0205	0.0197	#N/A	#N/A	0.0402	0.03	Low
1200 5	#N/A	0.53	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 6	#N/A	0.13	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 7	#N/A	1.23	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1200 8	#N/A	0.8	0.3481	0.01	#N/A	#N/A	0.3581	0.45	Moderate
1200 9	#N/A	1.62	3.3999	0.3184	#N/A	#N/A	3.7183	2.30	Moderate
1201 0	Antelope Creek	1.69	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1202 0	Staubach Ceek	1.83	3.0191	#N/A	#N/A	#N/A	3.0191	1.65	Moderate
1203 0	Beaver Creek	20.21	3.6158	#N/A	#N/A	#N/A	3.6158	0.18	Moderate
1203A 0	North Pole creek	0.94	0.4561	0.4979	#N/A	#N/A	0.954	1.01	Moderate
1203B 0	South Pole Ceek	1.18	0.8054	#N/A	#N/A	#N/A	0.8054	0.68	Moderate
1203C 0	Weasel Creek	3.54	0.3256	4.5211	#N/A	#N/A	4.8467	1.37	Moderate
1204A 0	Kimber Gulch	1.43	2.4901	#N/A	#N/A	#N/A	2.4901	1.74	Moderate
1204B 0	Whitehorse creek	3.25	0.0482	2.2995	#N/A	#N/A	2.3477	0.72	Moderate
1204C 0	#N/A	0.66	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
1205A 0	Indian Creek	5.01	1.6136	5.2401	#N/A	#N/A	6.8537	1.37	Moderate
1205B 0	West Fork Indian Creek	2.62	3.0285	1.6251	#N/A	#N/A	4.6536	1.78	Moderate
1206 0	Crow Creek	78.13	31.5477	16.6554	11.3422	#N/A	59.5453	0.76	Moderate
1206A 0	Slim Sam Creek	7.48	4.5273	0.0768	3.5961	#N/A	8.2002	1.10	Moderate
1207 0	Johnny Gulch	2.33	2.5173	#N/A	#N/A	#N/A	2.5173	1.08	Moderate
1207A 0	Dahlman Gulch	4.5	6.9202	#N/A	#N/A	#N/A	6.9202	1.54	Moderate
1300 1	#N/A	0.08	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 10	#N/A	1.77	0.115	#N/A	#N/A	#N/A	0.115	0.06	Low
1300 11	#N/A	3.79	1.3125	1.0096	#N/A	#N/A	2.3221	0.61	Moderate
1300 12	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1300 13	#N/A	0.37	1.2929	0.5934	#N/A	#N/A	1.8863	5.10	High
1300 14	#N/A	0.68	1.195	1.3202	0.0582	#N/A	2.5734	3.78	High
1300 15	#N/A	2.31	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 16	#N/A	1.35	#N/A	1.6892	#N/A	#N/A	1.6892	1.25	Moderate
1300 17	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 18	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 19	#N/A	0.19	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 2	#N/A	0.3	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 20	#N/A	0.54	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 21	#N/A	0.58	1.4095	0.4852	#N/A	#N/A	1.8947	3.27	High
1300 22	#N/A	0.59	0.5679	#N/A	#N/A	#N/A	0.5679	0.96	Moderate
1300 23	#N/A	5.37	1.2011	1.0877	#N/A	#N/A	2.2888	0.43	Moderate
1300 24	#N/A	1.43	1.7364	0.5559	#N/A	#N/A	2.2923	1.60	Moderate
1300 25	#N/A	0.21	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 26	#N/A	3.11	#N/A	#N/A	0.7888	#N/A	0.7888	0.25	Moderate
1300 3	#N/A	2.03	0.8209	#N/A	#N/A	#N/A	0.8209	0.40	Moderate
1300 4	#N/A	0.83	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 5	#N/A	2.99	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 6	#N/A	0.43	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
1300 7	#N/A	0.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 8	#N/A	0.1	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1300 9	#N/A	0.78	0.3094	0.1183	1.9339	#N/A	2.3616	3.03	High
1301A 0	Confederate Creek	14.58	14.2094	6.2566	5.4359	#N/A	25.9019	1.78	Moderate
1301C 0	Boulder Creek	8.39	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1301D 0	Spruce Creek	1.36	0.3283	#N/A	#N/A	#N/A	0.3283	0.24	Moderate
1301E 0	#N/A	1.53	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1302 0	#N/A	1.96	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1303 0	Duck Creek	3.7	0.8126	3.1761	2.3793	#N/A	6.368	1.72	Moderate
1303A 0	#N/A	1.47	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1303B 0	Middle Fork Duck Creek	2.26	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1303C 0	Wood Gulch	1.35	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1303D 0	#N/A	0.75	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1304A 0	Gurnett Creek	1.42	0.9213	#N/A	0.6055	#N/A	1.5268	1.08	Moderate
1304B 0	S. Fk. Gurnett Creek	1.05	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1305 0	Ray Creek	1.4	3.9772	1.0249	#N/A	#N/A	5.0021	3.57	High
1305A 0	N. Fk. Ray Creek	1.55	0.9179	0.1407	#N/A	#N/A	1.0586	0.68	Moderate
1306 0	N. Fork Deep Creek	10.12	13.8456	2.0921	5.5265	#N/A	21.4642	2.12	Moderate
1309 0	Deep Creek	49.76	15.5868	0.9348	10.5593	#N/A	27.0809	0.54	Moderate
1309A 0	#N/A	0.54	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1309B 0	#N/A	0.47	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1309C 0	Butte Gulch	0.73	2.4248	1.0029	#N/A	#N/A	3.4277	4.70	High
1309D 0	Sulphur Bar Creek	7.83	16.1703	7.4754	#N/A	#N/A	23.6457	3.02	High
1309E 0	Blacktail Creek	1.19	3.3975	#N/A	#N/A	#N/A	3.3975	2.86	High
1309F 0	Cedar Bar Creek	3.66	0.8016	#N/A	#N/A	#N/A	0.8016	0.22	Moderate
1309G 0	Unnamed Trib Sulphur Bar	1.02	0.3199	1.4911	#N/A	#N/A	1.811	1.78	Moderate
1310 0	Hay Creek	5.02	6.2196	2.5864	#N/A	#N/A	8.806	1.75	Moderate
1311A 0	Greyson Creek	3	4.4895	4.0563	#N/A	#N/A	8.5458	2.85	High

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
1311B 0	Dry Creek	24.46	5.244	1.9761	6.5228	#N/A	13.7429	0.56	Moderate
1311C 0	Timber Gulch	1.7	2.481	#N/A	#N/A	#N/A	2.481	1.46	Moderate
1312 0	Faulkner Creek	2.12	0.5816	1.3017	#N/A	#N/A	1.8833	0.89	Moderate
1313 0	Mike Day Creek	1.28	0.6712	0.9282	#N/A	#N/A	1.5994	1.25	Moderate
1400 1	#N/A	0.72	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 10	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1400 11	#N/A	0.37	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 12	#N/A	0	#N/A	0.0184	#N/A	#N/A	0.0184	#DIV/0!	Low
1400 13	#N/A	0.69	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 14	#N/A	0.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 15	#N/A	1.43	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 2	#N/A	0.3	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 3	#N/A	0.39	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 4	#N/A	0.16	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 5	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1400 6	#N/A	0.2	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 7	#N/A	0.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 8	#N/A	0.16	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1400 9	#N/A	1.32	0.0854	#N/A	#N/A	#N/A	0.0854	0.06	Low
1401 0	Cave Gulch	4.37	0.3437	#N/A	#N/A	#N/A	0.3437	0.08	Low
1402 0	Magpie Creek	24	24.1386	0.9914	14.1925	#N/A	39.3225	1.64	Moderate
1403 0	#N/A	1.83	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1404 0	Hellgate Gulch	9.39	5.2606	#N/A	0.3757	#N/A	5.6363	0.60	Moderate
1404B 0	#N/A	0.84	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1404C 0	#N/A	0.58	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1405 0	Avalanche Creek	34.63	8.9238	12.1697	2.6728	#N/A	23.7663	0.69	Moderate
1406 0	White Gulch	18.62	4.7448	9.1728	#N/A	#N/A	13.9176	0.75	Moderate
1406A 0	#N/A	0.66	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1407 0	#N/A	2.21	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
1408 0	#N/A	0.4	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 1	#N/A	9.89	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 10	#N/A	0	0.0145	#N/A	#N/A	#N/A	0.0145	#DIV/0!	Low
1500 11	#N/A	0.18	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 12	#N/A	0	#N/A	#N/A	#N/A	#N/A	0	#DIV/0!	Low
1500 13	#N/A	1.32	0.8091	#N/A	#N/A	#N/A	0.8091	0.61	Moderate
1500 14	#N/A	0.06	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 15	#N/A	0.05	#N/A	#N/A	0.0104	#N/A	0.0104	0.21	Moderate
1500 2	#N/A	0.43	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 3	#N/A	0.88	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 4	#N/A	4.33	1.9178	#N/A	#N/A	#N/A	1.9178	0.44	Moderate
1500 5	#N/A	0.82	0.8255	0.3576	#N/A	#N/A	1.1831	1.44	Moderate
1500 6	#N/A	0.04	#N/A	#N/A	0.0034	#N/A	0.0034	0.09	Low
1500 7	#N/A	0.7	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 8	#N/A	0.61	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1500 9	#N/A	2.8	3.4621	#N/A	1.3429	#N/A	4.805	1.72	Moderate
1501 0	Willow Creek	12.18	1.0142	#N/A	#N/A	#N/A	1.0142	0.08	Low
1502 0	Beaver Creek	73.26	17.7514	16.2221	8.8806	#N/A	42.8541	0.58	Moderate
1505 0	Trout Creek	53.83	40.7347	10.0974	4.8732	8.5779	64.2832	1.19	Moderate
1507A 0	Oregon Gulch	7.37	8.2674	0.5493	3.3406	#N/A	12.1573	1.65	Moderate
1507B 0	Horse Gulch	2.41	1.1936	#N/A	#N/A	#N/A	1.1936	0.50	Moderate
1510 0	#N/A	1.13	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1511 0	#N/A	4.2	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1512 0	#N/A	2.08	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1513 0	#N/A	2.56	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1514 0	#N/A	0.44	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1515 0	Spring Gulch	2.73	0.6134	1.3481	#N/A	#N/A	1.9615	0.72	Moderate
1516 0	Cochran Gulch	2.25	1.7996	1.1342	#N/A	#N/A	2.9338	1.30	Moderate
1517 0	#N/A	0.54	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

Watershed	Watershed Name	Area Mi^2	Level 2 Mi	Level 3 Mi	Level 4 Mi	Level 5 Mi	Sum 2-5	Rd Density	Probability of Exceeding FP Standards During Hunting Season
1518 0	Favorite Gulch	8.05	7.5776	#N/A	3.498	#N/A	11.0756	1.38	Moderate
1519 0	Soup Creek	19.83	14.0805	0.2836	3.7817	#N/A	18.1458	0.92	Moderate
1600 1	#N/A	38.87	8.0104	1.6933	#N/A	#N/A	9.7037	0.25	Moderate
1600 2	#N/A	4.62	1.0134	#N/A	#N/A	#N/A	1.0134	0.22	Moderate
1600 3	#N/A	0.1	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1600 4	#N/A	8.13	8.6822	#N/A	#N/A	#N/A	8.6822	1.07	Moderate
1600 5	#N/A	0.07	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1600 6	#N/A	2.48	4.9539	#N/A	#N/A	#N/A	4.9539	2.00	Moderate
1600 7	#N/A	3.34	1.3296	2.9087	#N/A	#N/A	4.2383	1.27	Moderate
1600 8	#N/A	0.01	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1601 0	French Creek	2.48	2.7647	#N/A	#N/A	#N/A	2.7647	1.11	Moderate
1602 0	Unnamed Trib Antelope Cr.	1.02	1.4662	#N/A	#N/A	#N/A	1.4662	1.44	Moderate
1603 0	Rubison Gulch	1.81	0.5076	#N/A	#N/A	#N/A	0.5076	0.28	Moderate
1604 0	Beaver Creek	9.1	18.7476	2.8678	#N/A	#N/A	21.6154	2.38	Moderate
1604A 0	Unnamed Trib Beaver creek	0.81	0.8709	#N/A	#N/A	#N/A	0.8709	1.08	Moderate
1605 0	Buffalo Canyon	1.6	0.6381	#N/A	#N/A	#N/A	0.6381	0.40	Moderate
1606 0	#N/A	1.84	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1607 0	Unnamed Trib Rock Creek	1.59	0.5251	#N/A	#N/A	#N/A	0.5251	0.33	Moderate
1608 0	Ellis Canyon	16.34	25.7077	#N/A	#N/A	#N/A	25.7077	1.57	Moderate
1609 0	#N/A	1.12	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1700 1	#N/A	0.23	#N/A	#N/A	#N/A	#N/A	0	0.00	Low
1700 10	#N/A	9.43	0.3825	0.4811	1.0733	#N/A	1.9369	0.21	Moderate
1700 2	#N/A	4.9	2.6068	1.424	3.2546	#N/A	7.2854	1.49	Moderate
1700 3	#N/A	7.34	0.9178	0.1587	#N/A	#N/A	1.0765	0.15	Moderate
1700 4	#N/A	0.39	0.1712	0.5146	#N/A	#N/A	0.6858	1.76	Moderate
1700 5	#N/A	0.78	2.107	#N/A	#N/A	#N/A	2.107	2.70	High
1700 6	#N/A	0.43	#N/A	0.0747	#N/A	#N/A	0.0747	0.17	Moderate
1700 7	#N/A	0.02	#N/A	#N/A	#N/A	#N/A	0	0.00	Low

[illegible]

Elk Winter Range

Elk winter range was chosen as a parameter for the roads analysis for several reasons. It is identified as a management indicator species in our Forest Plan and as such we have standards against which to measure the presence of roads relative to winter range. Literature exists that documents effects to elk due to roads. Finally, it is a high profile species that receives a lot of attention.

The Forest Plan standards relative to winter range state “All winter range areas will be closed to vehicles between December 1 and May 15. Exceptions (i.e., access through winter range to facilitate land management or public use activities on other lands) may be granted.” The analysis that follows demonstrates that some roads are open in winter range during the restricted time period. Some of those roads have undergone analyses that identify the need for the exception; others have not received completed analyses. This distinction is not made below. For the purposes of this analysis we identified whether roads were open in winter range or not.

Definitions

A **closed** road is considered closed for the entire segment of the road (as identified by a unique road number) between December 1 and May 14 to all forms of motorized traffic.

A road is considered **open** if it receives any form of motorized traffic (e.g. snowmobile) on any portion of the road segment between December 1 and May 14.

The Process

Open roads in elk winter range were mapped and a visual inspection of the maps determined if open roads were present in various portions of that winter range. Open roads in elk winter range were then electronically assigned either a high risk rating (if the road was open during winter) or a low risk rating (if the road was closed during the winter). Since roads were not segmented on elk winter range boundary lines, the entire segment of a road was assigned the risk rating, which includes those portions that extend beyond the winter range. For example, in several cases a road outside elk winter range received a high risk rating because it was open inside elk winter range. The Forest Plan is the reference document against which the risk parameters are measured.

Risk Parameters and Ratings

The risk parameter is any open road in elk winter range. If there are any open roads in winter range this is considered a high risk to elk. If there are no open roads, this is considered a low risk to elk. No open roads in winter range are essentially ‘no risk’ but the choices for the purposes of the analysis include only high, medium, and low. The risk rating for elk winter range will be combined with the risk rating relative to the probability of achieving Forest Plan standards to determine a composite risk rating. This is described in more detail below.

Results

Table 2 identifies the high and low risk roads relative to the parameter in question: open roads in elk winter range. Out of 1623 total Forest roads, approximately 675 are open during winter in elk winter range. Not all of the 1623 roads cross elk winter range but data are not available to determine how many of the 1623 roads actually pass through elk winter range. Project level analyses need to identify if exceptions have been made for these open roads or if they should be closed.

Composite Elk Rating

Table 2 also displays a composite elk rating that combines both the elk winter range rating and the probability of exceeding Forest Plan standards rating (*See column labeled 'Elk Composite Score'*). The composite rating will be the final parameter to determine high, medium, or low risk roads relative to elk. These ratings were derived by using the higher of the two risk ratings as identified in the previous two columns. Approximately 924 are high, 694 are moderate, and 5 are low.

Appendix E, Table 2 Elk Winter Range& Road Density Concerns, & Composite Scores

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
1006	(FDR) ROOSTER BILL	High	High	High
1006-A1	(FDR) ROOSTER BILL SPUR	High	High	High
1006-A3		High	High	High
1015	(FDR) DEEP CREEK PICNIC AREA	High	Moderate	High
1020	(FDR) SPRING GULCH	High	Moderate	High
1020-A1	(FDR) SPRING GULCH SPUR 1	High	Moderate	High
1020-A2	(FDR) SPRING GULCH SPUR 2	High	Moderate	High
1020-B1	(FDR) SPRING GULCH SPUR 3	High	Moderate	High
1040	(FDR) ASPEN CAMPGROUND	High	Moderate	High
1040-A1		High	Moderate	High
1040-B1		High	Moderate	High
1041	(FDR) PORCUPINE CAMPGROUND	High	Moderate	High
1163	(FDR) NEVADA OGDEN	High	High	High
1163-A1	(FDR) TRAPPER MOUNTAIN #1	High	High	High
1163-B1	(FDR) TRAPPER MOUNTAIN #5	High	High	High
1163-B2	(FDR) TRAPPER MOUNTAIN #6	High	High	High

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
1163-B3	(FDR) TRAPPER MOUNTAIN #7	High	High	High
1163-D1	(FDR) WASSON CREEK #5	High	Moderate	High
1163-D2	(FDR) WASSON CREEK #6	High	Moderate	High
1163-D5	MARCUM SOUTH D5	High	Moderate	High
1163-F1	(FDR) WILSON CREEK	High	Moderate	High
1163-G1	(FDR) CHIMNEY CREEK	High	High	High
1163-H1	(FDR) ROSSIN GULCH	High	High	High
1163-H2	(FDR) ROSSIN CREEK SPUR	High	High	High
1163-J1	MARCUM SOUTH J1	High	High	High
136	OPHIR CAVE	High	Moderate	High
136-A1	(FDR) OPHIR CREEK SPUR	High	Moderate	High
136-A3	(FDR) OPHIR CR. STUB #2	High	Moderate	High
136-B2	(FDR) SOUTH OPHIR STUB	High	Moderate	High
136-F1	OPHIR	High	Moderate	High
137	(FDR) NORTH FORK TRAVIS	High	Moderate	High
137-A1	(FDR) BUFFALO STUB	High	Moderate	High
137-A2	(FDR) BUFFALO SPUR	High	Moderate	High
137-B1	(FDR) TRAVIS SPUR	High	Moderate	High
137-D1	(FDR) GRIZZLY GULCH STUB	High	Moderate	High
137-E1	(FDR) BUFFALO SPUR	High	Moderate	High
137-E2	(FDR) BUFFALO SPUR E2	High	Moderate	High
137-F1	BUFFALO SPUR F1	High	Moderate	High
138	(FDR) BEAVER CK.- INDIAN CK.	High	Moderate	High
138-J1	FDR	High	Moderate	High
138-K1	FDR	High	Moderate	High
139	(FDR) DUCK CREEK-BIRCH CREEK	High	High	High
139-G1	(FDR) MANGER MINE LOOP	High	High	High
139-G2	(FDR) LOOP ROAD	High	High	High
139-J1	(FDR) DUCK CREEK SPUR	High	High	High
147	(FDR) SULPHUR BAR	High	High	High
147-A1	(FDR) SULPHUR-BLACKTAIL #2	High	High	High
147-B1	(FDR) SULPHUR-BLACKTAIL #1	High	High	High
147-B2	SULPHUR BLACKTAIL SPUR B2	High	High	High
147-B3	SULPHUR BLACKTAIL SPUR B3	High	High	High
147-B4	SULPHUR BLACKTAIL SPUR B4	High	High	High
147-C1	(FDR) OLD SULPHUR BAR	High	High	High
147-C10	SULPHUR BAR SPUR C10	High	High	High

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
147-C2	(FDR) SULPHUR BAR	High	High	High
147-C3	SULPHUR BAR SPUR C3	High	High	High
147-C4	SULPHUR BAR SPUR C4	High	High	High
147-C5	SULPHUR BAR SPUR C5	High	High	High
147-C6	SULPHUR BAR SPUR C6	High	High	High
147-C7	SULPHUR BAR SPUR C7	High	High	High
147-C8	SULPHUR BAR SPUR C8	High	High	High
147-C9	SULPHUR BAR SPUR C9	High	High	High
147-I1	SULPHUR BAR SPUR I1	High	High	High
147-I2	SULPHUR BAR SPUR I2	High	High	High
1800	(FDR) SUCKER-KEEP COOL	High	Moderate	High
1800-A1	(FDR) LOWER KEEP COOL	High	Moderate	High
1800-A2	SILVER KING A2	High	Moderate	High
1800-A3	SILVER KING A3	High	Moderate	High
1802-B2	LITTLE PORCUPINE SPUR B2	High	High	High
1805	(FDR) MULLAN	High	High	High
1805-A1	(FDR) SKY LINE	High	High	High
1805-C1	MULLAN SPUR	High	High	High
1805-E1	SKYLINE E1	High	Moderate	High
1807	(FDR) ROGERS PASS MICROWAVE	High	Moderate	High
1812	(C) AMERICAN BAR	High	Moderate	High
1812-A1	(FDR) MISSOURI RIVER TRAILHEAD	High	Moderate	High
1812-B1	(FDR) AMERICAN BAR #1	High	Moderate	High
1812-C1	(FDR) AMERICAN BAR #2	High	Moderate	High
1812-D1	(FDR)	High	Moderate	High
1812-D2	(FDR)AMERICAN BAR SPUR D2	High	Moderate	High
1812-E1	(FDR)	High	Moderate	High
1812-G1	(FDR) BIG LOG GULCH TRAILHEAD	High	Moderate	High
1813	(FDR) LAZYMEN	High	Moderate	High
1813-A1	(FDR) LAZYMEN SPUR	High	Moderate	High
1813-B1	(FDR) LAZYMEN SPUR #2	High	Moderate	High
1813-C1	(FDR) LAZYMEN STUB	High	Moderate	High
1814	(FDR) SPRUCE HILLS	High	Moderate	High
1818	(FDR) ALICE CR BASIN	High	Moderate	High
1821	(FDR) KEEP COOL	High	Moderate	High
1821-B1	(FDR) SUCKER-KEEP COOL	High	Moderate	High
1822	(FDR) CLEAR-BUFFALO	High	High	High

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
1822-A1	(FDR) CLEAR BUFFALO	High	Moderate	High
1823	(FDR) SHORES GULCH	High	High	High
1824	(FDR) LONE POINT	High	Moderate	High
1824-A1	(FDR) LINCOLN GULCH CONNECTION	High	Moderate	High
1826	(FDR) HUMBUG CONTOUR	High	Moderate	High
1826-B1	(FDR) HUMBUG SPUR	High	Moderate	High
1826-B2		High	Moderate	High
1826-B3	LINCOLN-B3	High	Moderate	High
1826-G1	LINCOLN G1	High	Moderate	High
1826-H1	LINCOLN H1	High	Moderate	High
1826-I1	LINCOLN I1	High	Moderate	High
1826-J1	LINCOLN J1	High	Moderate	High
1826-K1	LINCOLN K1	High	Moderate	High
1828	(FDR) TROUT-TARHEAD	High	Moderate	High
1828-A1	(FDR) EAST FORK TROUT CR	High	Moderate	High
1828-A2	STEMPLE PASS A2	High	Moderate	High
1828-A3	STEMPLE PASS A3	High	Moderate	High
1828-A4	STEMPLE PASS A4	High	Moderate	High
1828-B1		High	Low	High
1829-B1	(FDR) MADISON GULCH	High	High	High
1829-B2	(FDR) CALIFORNIA RIDGE	High	High	High
1829-C1	(FDR) MADISON GULCH	High	Moderate	High
1829-C4	FINN C4	High	Moderate	High
1830	(FDR) DEER CREEK	High	High	High
1830-C1		High	High	High
1831	(FDR) CLEAR CREEK	High	High	High
1831-A1	(FDR) UPPER CLEAR CREEK	High	High	High
1831-A2	NEVADA LAKE A2	High	High	High
1833	(FDR) BUFFALO-WILLOW	High	High	High
1833-A1	(FDR) UPPER CLEAR CREEK	High	High	High
1833-B1	(FDR) CLEAR CREEK SPUR	High	High	High
1833-B2	NEVADA LAKE B2	High	High	High
1833-C1	NEVADA LAKE C1	High	High	High
1834	(FDR) JEFFERSON CR	High	Moderate	High
1835	(FDR) JOHNNY GULCH	High	Moderate	High
1835-A1	(FDR) DAHLMAN-JOHNNY	High	Moderate	High
1835-B1	(FDR) KIMPTON COW CAMP	High	Moderate	High

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
1835-C1	(FDR) JOHNNY GULCH #6	High	Moderate	High
1835-D1	(FDR) HUNTING GULCH	High	Moderate	High
1835-E1	(FDR) JOHNNY GULCH #5	High	Moderate	High
1835-F1	JEFFERSON SPUR F1	High	Moderate	High
1838	(FDR) LONG GULCH	High	Moderate	High
1838-C1	(FDR) LONG ETHEL	High	Moderate	High
1838-C3	LINCOLN C3	High	Moderate	High
1838-C4	LINCOLN C4	High	Moderate	High
1838-C6		High	Moderate	High
1838-D1	LINCOLN D1	High	Moderate	High
1838-D2	LINCOLN D2	High	Moderate	High
1838-D3	LINCOLN D3	High	Moderate	High
1838-E1	LINCOLN E1	High	Moderate	High
1838-E2	LINCOLN E2	High	Moderate	High
1838-F1	LINCOLN F1	High	Moderate	High
1839	(FDR) ETHEL GULCH	High	Moderate	High
1841	(FDR) HOGUM CREEK	High	Moderate	High
1841-A1	(FDR) LOWER HOGUM	High	Moderate	High
1841-B1	(FDR) UPPER HOGUM	High	Moderate	High
1841-C1	(FDR) HOGUM CREEK	High	Moderate	High
1841-G1	SWEDE GULCH G1	High	Moderate	High
1841-H2		High	Moderate	High
1841-H3		High	Moderate	High
1841-H4	SWEDE GULCH H4	High	Moderate	High
1842	(FDR) FIELDS GULCH	High	Moderate	High
1842-A1	(FDR) FIELDS GULCH SPUR	High	Moderate	High
1842-B1	(FDR) GUIDE GULCH	High	Moderate	High
1842-B2	(FDR) HORSE GULCH	High	Moderate	High
1842-B3	LINCOLN B3	High	Moderate	High
1842-D1	LINCOLN D1	High	Moderate	High
1843	(FDR) WEST MCCARTHY #1	High	Moderate	High
1843-A1		High	Moderate	High
1844	(FDR) WEST MCCARTHY #2	High	Moderate	High
1846	(FDR) PRIEST PASS-AUSTIN	High	High	High
1848	(FDR) FOOL HEN	High	High	High

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
1850	(FDR) GREENHORN RIDGE	High	Moderate	High
1853	(FDR) SKELLY GULCH	High	Moderate	High
1853-A1	(FDR) SKELLY GULCH SPUR	High	Moderate	High
1853-B1	(FDR) SOUTH FORK SAWMILL	High	Moderate	High
1853-B3	SOUTH FORK SAWMILL SPUR B3	High	Moderate	High
1853-B4	SOUTH FORK SAWMILL SPUR B4	High	Moderate	High
1853-C1	(FDR) STRAWBERRY MINE	High	Moderate	High
1853-C3	SOUTHFORK SAWMILL SPUR C3	High	Moderate	High
1853-D1	(FDR) MIDDLE FORK SKELLY GULCH	High	Moderate	High
1853-D2	(FDR) MIDDLE FORK SKELLY GULCH	High	Moderate	High
1853-E1	(FDR) SKELLY GULCH	High	Moderate	High
1853-E3	SOUTHFORK SAWMILL SPUR E3	High	Moderate	High
1855-C2	(FDR) GREENHORN CR.	High	Moderate	High
1855-C3	(FDR) NORTH FORK GREENHORN CR	High	Moderate	High
1855-C4		High	Moderate	High
1855-C5		High	Moderate	High
1856	(FDR) HAHN CREEK	High	High	High
1856-B1	(FDR) HAHN CREEK SPUR	High	High	High
1856-C1	(FDR) FLUME CREEK RIDGE	High	High	High
1856-D1	(FDR) LOWER FLUME GULCH	High	High	High
1856-E1	(FDR) HAHN CREEK	High	Moderate	High
1856-F1	(FDR) UPPER FLUME GULCH	High	Moderate	High
1856-H1	(FDR) NO. FK. MIKE RENIG GULCH	High	Moderate	High
1856-J1	MACDONALD PASS J1	High	High	High
1860	(FDR) SWEENEY CREEK	High	Moderate	High
1860-A1	(FDR) SWEENEY CREEK WEST	High	Moderate	High
1864	(FDR) BEAR GULCH	High	Moderate	High
1864-A1		High	Moderate	High
1866	(FDR) MOOSE CR. ADMIN SITE	High	Moderate	High

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1869	(FDR) IRISH MINE	High	Moderate	High
1869-A1	(FDR) IRISH MINE SPUR	High	Moderate	High
1869-B1	(FDR) IRISH HILL EXTRA	High	Moderate	High
1870	(FDR) BALDY RIDGE	High	High	High
1870-A1	(FDR) BALDY RIDGE DROPOFF	High	Moderate	High
1870-B1	BALDY RIDGE	High	Moderate	High
1870-C1	BALDY RIDGE	High	Moderate	High
1871-A1	(FDR) SLATE LAKE	High	Moderate	High
1871-A2	(FDR) EAST ELLISTON CREEK	High	Moderate	High
1871-A3	(FDR) TV TOWER	High	Moderate	High
1871-A4	SLATE CREEK SPUR A4	High	Moderate	High
1871-A6	SLATE CREEK SPUR A6	High	Moderate	High
1872	(FDR) WEINO CREEK	High	Low	High
1873	(FDR) BLACKFOOT CAMPGROUND	High	Moderate	High
1876	(FDR) BANNER CREEK	High	Moderate	High
1878	(FDR) FROHNER MEADOWS	High	Moderate	High
1878-B2	(FDR) QUARTZ-LUMP STUB #1	High	High	High
1878-B4	(FDR) QUARTZ-LUMP STUB 4	High	High	High
1878-E1	(FDR) QUARTZ-ROWE CONN.	High	Moderate	High
1878-F1	(FDR) NORTH FORK QUARTZ SPUR	High	High	High
1879	(FDR) MEAD-PRICKLY GULCH	High	Moderate	High
1880	(FDR) MOOSE CR-TENMILE	High	Moderate	High
1881	(FDR) UPPER COPPER CREEK	High	Moderate	High
1884	(FDR) GOULD CREEK	High	High	High
1884-A1	SWEDE GULCH A1	High	Moderate	High
1885	(FDR) GOULD CREEK SPUR	High	Moderate	High
1887	(FDR) ROOSTER BILL STUB	High	High	High
1891	(FDR) LINCOLN VIEW	High	High	High
1891-B1	NEVADA LAKE B1	High	High	High
1892	(FDR) SAUERKRAUT	High	High	High
1892-A1	(FDR) WEST FORK WILLOW SPUR	High	Moderate	High
1892-B1	(FDR) WEST FORK SAUERKRAUT	High	Moderate	High
1892-C1	(FDR) UPPER SAUERKRAUT	High	High	High
1892-C3	(FDR) WEST WILLOW EXTENSION	High	High	High
1892-D1	FINN D1	High	Moderate	High
1892-D4	FINN D4	High	Moderate	High
1892-H1	FINN H1	High	Moderate	High

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1893	(FDR) MOOSE CREEK	High	Moderate	High
1893-A1	(FDR) MOOSE CREEK SPUR	High	Moderate	High
1898	(FDR) GRAVEL PIT	High	Moderate	High
224	(FDR) SQUAW GULCH	High	High	High
225	(FDR) NORTH JOHNNY	High	High	High
225-A1	(FDR) JOHNNY GULCH	High	High	High
226	(FDR) WARM SPRINGS	High	Moderate	High
226-A1	(FDR) SHINGLE CREEK	High	Moderate	High
226-B1	(FDR) W. FK. MAUPIN CR. LOOP	High	Moderate	High
226-B3	W. FK. MAUPIN CR. LOOP SPUR B3	High	Moderate	High
226-B4	W. FK. MAUPIN CR. LOOP	High	Moderate	High
226-C1	(FDR) STRAWBERRY RIDGE	High	Moderate	High
226-D1	(FDR) WEST FORK MAUPIN SPUR	High	Moderate	High
226-D2	(FDR) MAUPIN LOOP	High	Moderate	High
226-E1	(FDR) MAUPIN LOOP	High	Moderate	High
226-E2	(FDR) SOUTH FORK LOOP SPUR	High	Moderate	High
226-E3	(FDR) MAUPIN CIRCLE	High	Moderate	High
226-E4	(FDR) ELEVATION PEAK	High	Moderate	High
226-E5	(FDR) SOUTH FORK LOOP CONN.	High	Moderate	High
226-F1	(FDR) NORTH FORK SPUR	High	Moderate	High
226-F2	(FDR) NORTH FORK STUB	High	Moderate	High
231	(C) JIM TOWN ROAD	High	Moderate	High
277	(FDR) SOUTH FORK CROW CREEK	High	Moderate	High
277-A1	(FDR) SWAMP CREEK	High	Moderate	High
277-B1	(FDR) OLD SO. CREEK LOOP	High	Moderate	High
277-C1		High	Moderate	High
277-D1	(FDR) JENKINS-SO. CROW CR.	High	Moderate	High
277-E1	(FDR) BOOMERS	High	Moderate	High
277-E2	(FDR) SO. FK. MUDDY LAKE LOOP	High	Moderate	High
277-E3	(FDR) JENKINS RIDGE	High	Moderate	High
280	(C) YORK ROAD	High	Moderate	High
287	(FDR) CONFEDERATE	High	Moderate	High
287-A1	(FDR) MONTANA GULCH	High	Moderate	High
287-C1	(FDR) READY CASH GULCH	High	Moderate	High
287-F1	(FDR) BELT DIVIDE	High	Moderate	High
287-F2	(FDR) BELT DIVIDE-KEEP COOL CR	High	Moderate	High
293	(FDR) ALICE CREEK	High	Moderate	High

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293-A1	(FDR) WILD CAT MINE	High	Moderate	High
293-C1		High	Moderate	High
294	(FDR) MCCLELLAN CR	High	Moderate	High
294-A1	MCCLELLAN CREEK SPUR	High	Moderate	High
296	(FDR) NEVADA CREEK	High	High	High
296-A1	(FDR) NEVADA FACE	High	Moderate	High
296-A2	(FDR) HUCKLEBERRY CREEK	High	Moderate	High
296-A3	(FDR) HUCKLEBERRY RIDGE	High	Moderate	High
296-B1	NEVADA MTN B1	High	Moderate	High
298	(FDR) HOGBACK MOUNTAIN	High	Moderate	High
298-B1	(FDR) HOGBACK EXTENSION	High	Moderate	High
298-C1		High	Moderate	High
299	(FDR) CHESSMAN	High	Moderate	High
299-A1	(FDR) BEAVER-CHESSMAN PARALLEL	High	Moderate	High
299-B1	(FDR) BLACK HALL MEADOWS	High	Moderate	High
299-C1	(FDR) BEAVER SPUR	High	Moderate	High
299-D1	(FDR) RIMINI SPUR	High	Moderate	High
299-F1		High	Moderate	High
299-G1		High	Moderate	High
299-H1		High	Moderate	High
314	(FDR) ELLISTON-SPOTTED DOG	High	High	High
314-A1	(FDR) ELLISTON CREEK	High	Moderate	High
314-B1	(FDR) KINNEY GULCH	High	High	High
314-D1	(FDR) HURD CREEK	High	High	High
314-E1	(FDR) WEST ELLISTON CREEK	High	Moderate	High
314-J1	(FDR) SPOTTED DOG SPUR #1	High	Moderate	High
314-J3	(FDR) SPOTTED DOG SPUR #3	High	Moderate	High
314-L1	(FDR) SPOTTED DOG	High	Moderate	High
314-M1	SPOTTED DOG M1	High	Moderate	High
329	(FDR) DALTON	High	High	High
329-B1	(FDR) WILLOW CREEK STUB	High	Moderate	High
329-C1	(FDR) WEST FORK WILLOW STUB	High	Moderate	High
329-C2	FINN C2	High	Moderate	High
329-D1	(FDR) EAST FORK WILLOW CREEK	High	Moderate	High
329-K1	FINN K1	High	High	High
329-M1	FINN M1	High	Moderate	High
335	(FDR) PRIEST PASS	High	High	High

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335-A1	(FDR) LITTLE PORCUPINE #1	High	Moderate	High
335-A2	(FDR) LITTLE PORCUPINE #2	High	Moderate	High
335-B1	END OF 335 SPUR	High	Moderate	High
335-B2	LITTLE PORCUPINE SPUR	High	High	High
359	(FDR) AVALANCHE	High	Moderate	High
360	(FDR) INDIAN CREEK	High	Moderate	High
360-A1	(FDR) OLD INDIAN CREEK	High	Moderate	High
360-A2	INDIAN CREEK A2	High	Moderate	High
360-B1	(FDR) IRON MASK	High	Moderate	High
360-B2	(FDR) SHEPS RIDGE	High	Moderate	High
360-C1	(FDR) SHEPS GULCH	High	Moderate	High
383	(FDR) CAMAS	High	High	High
383-A1	(FDR) THOMPSON LOOP	High	High	High
383-A2	(FDR)	High	High	High
383-F1	(FDR)	High	High	High
4	(C) NELSON ROAD	High	Moderate	High
4000	(FDR) TRAVIS CREEK	High	Moderate	High
4000-A1	(FDR) WHITEMAN GULCH	High	Moderate	High
4000-A2	(FDR) WHITE GULCH SPUR	High	Moderate	High
4000-C2		High	Moderate	High
4002	(FDR) N FK LITTLE PRICKLY PEAR	High	Moderate	High
4002-A1	(FDR) CAYUSE	High	Moderate	High
4002-A2	GRANITE BUTTE A2	High	Moderate	High
4002-A3	CAYUSE SPUR A3	High	Moderate	High
4002-A4	CAYUSE SPUR A4	High	Moderate	High
4002-B1	(FDR) NORTH FORK FACE	High	Moderate	High
4002-B2	(FDR) UPPER NORTH FORK	High	Moderate	High
4002-B3	NORTH FORK B3	High	Moderate	High
4002-B4	NORTH FORK B4	High	Moderate	High
4002-B5	NORTH FORK B5	High	Moderate	High
4002-C1	PRICKLY PEAR SPUR C1	High	Moderate	High
4002-C2	PRICKLY PEAR SPUR C2	High	Moderate	High
4002-C3	PRICKLY PEAR SPUR C3	High	Moderate	High
4002-D1	PRICKLY PEAR SPUR D1	High	Moderate	High
4002-D2	PRICKLY PEAR SPUR D2	High	Moderate	High
4002-E1	PRICKLY PEAR SPUR E1	High	Moderate	High
4003	(FDR) MCQUITHY GULCH	High	Moderate	High

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4003-A1	(FDR) MCQUITHY RIDGE	High	Moderate	High
4003-A2	MCQUITHY RIDGE	High	Moderate	High
4003-B1	MCQUITHY RIDGE SPUR	High	Moderate	High
4003-B2	MCQUITHY RIDGE SPUR	High	Moderate	High
4003-C1	MCQUITHY RIDGE SPUR	High	Moderate	High
4003-D1	MCQUITHY RIDGE SPUR	High	Moderate	High
4003-E1	MCQUITHY RIDGE SPUR E1	High	Moderate	High
4003-E2		High	Moderate	High
4003-F1	MCQUITHY RIDGE SPUR F1	High	Moderate	High
4005-A1	(FDR) DRY FORK	High	High	High
4007	(FDR) CRYSTAL STUB	High	Moderate	High
4007-A1	(FDR) MONTGOMERY	High	Moderate	High
4008-A1		High	Low	High
4009	(FDR) PARK LAKE	High	High	High
4009-A1	(FDR) CHESSMAN CUTOFF	High	High	High
4010	(FDR) BROOKLYN BRIDGE	High	Moderate	High
4010-B1	(FDR) GO DEVIL CR.	High	Moderate	High
4010-C1	(FDR) BROOKLYN BRIDGE MINE	High	Moderate	High
4010-D1	BROOKLAND BRIDGE	High	Moderate	High
4010-E1	BROOKLAND BRIDGE	High	Moderate	High
4012	(FDR) BADGER CR.	High	Moderate	High
4013	(FDR) BROWN'S GULCH	High	Moderate	High
4014	(FDR) WILLARD CREEK	High	Moderate	High
4014-A1	WILLARD CREEK SPUR A1	High	Moderate	High
4014-B1	WILLARD CREEK SPUR B1	High	Moderate	High
4014-C1	WILLARD CREEK SPUR C1	High	Moderate	High
4014-D1	WILLARD CREEK SPUR D1	High	Moderate	High
4017	(FDR) CRYSTAL CREEK	High	Moderate	High
4018	(FDR) HALL CR VISTA	High	Moderate	High
4019	(FDR) EAGLE CR GUARD STA	High	Moderate	High
4019-A1	EAGLE CREEK GUARD STA. SPUR A1	High	Moderate	High
4019-A2	EAGLE CREEK GUARD STA. SPUR A2	High	Moderate	High
4019-A3	EAGLE CREEK GUARD STA. SPUR A3	High	Moderate	High
4020	(FDR) SOUTH RODNEY EXTENSION	High	Moderate	High
4022	(FDR) LITTLE BUFFALO	High	Moderate	High
4024	(FDR) RATTLESNAKE STRAWBEERY	High	Moderate	High
4024-A1	(FDR) UPPER STRAWBERRY CREEK	High	Moderate	High

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4025	(FDR) DUTCHMAN SPUR	High	Low	High
4026	(FDR) CARPENTER CR.	High	Low	High
4026-A1	CARPENTER CREEK	High	Low	High
4028	(HIR) KEATING GULCH	High	High	High
4031	(FDR) WESTON CREEK	High	Moderate	High
4031-A1	(FDR) SCHRINER	High	Moderate	High
4031-C1	(FDR) GIANT HILL LOOP	High	Moderate	High
4031-C2	(FDR) SECTION 2 MINE	High	Moderate	High
4031-D1	(FDR) COLD SPRINGS	High	Moderate	High
4031-D2	(FDR) SAGEBRUSH	High	Moderate	High
4031-D3	(FDR) POWER GULCH	High	Moderate	High
4031-E1	(FDR) ROBERTS	High	Moderate	High
4033	(FDR) SHEEP CREEK	High	Low	High
4033-A1	SHEEP CREEK SPUR A1	High	Low	High
4034	(FDR) CHICAGO MINE	High	Low	High
4037	(FDR) NORTH DEADMAN	High	Moderate	High
4037-A1	(FDR) NORTH DEADMAN SPUR	High	Moderate	High
4037-B1	BEAR TRAP SPUR B1	High	Moderate	High
4037-C1	BEAR TRAP SPUR C1	High	Moderate	High
4037-D1	BEAR TRAP SPUR D1	High	Moderate	High
4038	S FK LITTLE PRICKLY PEAR-COUN	High	Moderate	High
4038-B1	(FDR) UPPER DEADMAN	High	Moderate	High
4038-C1	(FDR) UPPER DEADMAN	High	Moderate	High
4038-J1	GRANITE BUTTE J1	High	Moderate	High
4039	(FDR) CELLAR GULCH	High	Moderate	High
4039-A1	(FDR) OGILVIE GULCH	High	Moderate	High
4039-A2	OGILVIE GULCH SPUR	High	Low	High
4039-A3	OGILVIE GULCH SPUR	High	Low	High
4039-A4	OGILVIE GULCH SPUR	High	Low	High
4039-A5	OGILVIE GULCH SPUR	High	Low	High
4039-A6	OGILVIE GULCH SPUR	High	Moderate	High
4039-B1	OGILVIE GULCH SPUR	High	Moderate	High
4039-C1	OGILVIE GULCH SPUR	High	Moderate	High
4043	(FDR) LINCOLN DITCH	High	High	High
4043-B1	(FDR) LINCOLN DITCH SPUR	High	High	High
4043-C1	(FDR) BEAVER DITCH	High	Moderate	High
4043-D1		High	High	High

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4043-E1	(FDR) LINCOLN DITCH SPUR	High	High	High
4043-G1		High	High	High
4043-G2	ARRASTRA-G2	High	High	High
4044-E1	(FDR) NORTH CAVE DIVIDE #5	High	Low	High
4047	(FDR) SHINGLE MILL	High	High	High
4047-A1	(FDR) MITCHELL CREEK CONN.	High	High	High
4047-B1	(FDR) SHINGLE MILL SPUR	High	Moderate	High
4047-C1	NEVADA MTN C1	High	Moderate	High
405	(FDR) WEASEL CREEK	High	Moderate	High
405-A1	(FDR) WEASEL-KIMBER RIDGE	High	Moderate	High
405-B1	(FDR) S FK BEAVER RIDGE	High	Moderate	High
405-B2	(FDR) WEST PACIFIC SPUR	High	Moderate	High
405-B3	(FDR) BEAVER-PACIFIC	High	Moderate	High
405-B4	PACIFIC	High	Moderate	High
405-C1	(FDR) ZIG ZAG MINE	High	Moderate	High
405-C2	(FDR) MINE LATERAL	High	Low	High
405-D1	(FDR) WEASEL CREEK MINE	High	Moderate	High
405-E1	(FDR) EAST PACIFIC	High	Moderate	High
405-F1	(FDR) VOSBERG MINE LOOP	High	Moderate	High
405-G1	(FDR) VOSBERG MINE SPUR	High	Moderate	High
405-G2	VOSBERG MINE SPUR G2	High	Moderate	High
405-H1	(FDR) UPPER BADGER	High	Moderate	High
405-H2	(FDR) UPPER BADGER LOOP	High	Moderate	High
405-H3	UPPER BADGER LOOP	High	Moderate	High
405-I1	(FDR) WHITE HORSE	High	Moderate	High
405-I2	(FDR) WHITEHORSE SPUR	High	Moderate	High
405-K1	(FDR) VULTURE MINE	High	Moderate	High
405-L1	(FDR) BADGER CR.	High	Moderate	High
405-L2	(HIR) LEWIS	High	Moderate	High
405-M1	(FDR) MERREL SPRINGS	High	Moderate	High
405-O1	(FDR) EUREKA OVERLOOK	High	Moderate	High
405-P1	(FDR) EAGLE HILL	High	Moderate	High
405-Q1	(FDR) EAGLE-EUREKA	High	Moderate	High
405-S1	(FDR) EAGLE CR. SPUR	High	Moderate	High
405-U1	(FDR) WEASEL CUT-ACROSS	High	Moderate	High
405-V1	WEASEL CREEK SPUR V1	High	Moderate	High
405-V2	WEASEL CREEK SPUR V2	High	Moderate	High

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405-W1	WEASEL CREEK SPUR W1	High	Moderate	High
405-X1	WEASEL CREEK SPUR X1	High	Moderate	High
4080	(FDR) CADOTTE PASS	High	Moderate	High
4081	(FDR) CADOTTE CREEK	High	Moderate	High
4081-A1	(FDR) CADOTTE CREEK	High	Moderate	High
4082	(FDR) PAY MASTER	High	High	High
4082-H2	ROGERS PASS H2	High	High	High
4090	(FDR) SANDBAR CREEK	High	Moderate	High
4090-A1	SANDBAR CREEK	High	Moderate	High
4090-B1	ROGERS PASS B1	High	Moderate	High
4106	(FDR) BEAVER CR-DRY CR	High	Moderate	High
4106-A1	(FDR) KLONDIKE CREEK	High	Moderate	High
4111	(FDR) THOMPSON GUARD STA	High	High	High
4112	(FDR) KEEP KOOL LAKES	High	Moderate	High
4113	(FDR) BLACK DIAMOND	High	Moderate	High
4113-A1	(FDR) BLACK DIAMOND SPUR	High	Moderate	High
4113-A3	SWEDE GULCH-A3	High	Moderate	High
4113-A4	SWEDE GULCH A4	High	Moderate	High
4113-B1	(FDR) BLACK DIAMOND EXTENSION	High	Moderate	High
4113-C1	SWEDE GULCH C1	High	Moderate	High
4123	(FDR) DRY CREEK FLATS	High	Moderate	High
4125	(FDR) FAVORITE GULCH	High	Moderate	High
4125-A1	(FDR) DEVILS TOWER #1	High	Moderate	High
4125-A2	(FDR) DEVILS TOWER #2	High	Moderate	High
4125-A3	(FDR) DEVILS TOWER #3	High	Moderate	High
4125-A4	(FDR) DEVILS TOWER #4	High	Moderate	High
4125-B1	(FDR) DEVILS TOWER SPUR	High	Moderate	High
4125-C1	(FDR) DEVILS TOWER SPUR	High	Moderate	High
4125-D1	(FDR) DEVILS TOWER SPUR	High	Moderate	High
4125-E1	(FDR) DEVILS TOWER SPUR	High	Moderate	High
4127	(FDR) OWL GULCH ROAD	High	Moderate	High
4127-A1	(FDR) PIPE LINE	High	Moderate	High
4127-A2	(FDR) PIPELINE LOOP	High	Moderate	High
4127-B1	(FDR) PIPELINE SPUR	High	Moderate	High
4127-B2	(FDR) PIPELINE SPUR	High	Moderate	High
4127-C1	(FDR) PIPELINE SPUR	High	Moderate	High
4133-A1	(FDR) GRANITE SPUR	High	Moderate	High

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4134	(FDR) SOUTH FORK POORMAN	High	Moderate	High
4135	(FDR) EAST FORK WILLOW CR	High	Moderate	High
4136	(FDR) YORK GULCH	High	Moderate	High
4136-A1	(FDR) KINGSBERRY LOOP	High	Moderate	High
4136-A2	(FDR) OREGON GULCH CONNECTION	High	Moderate	High
4136-A3	(FDR) KINGSBERRY-OREGON RIDGE	High	Moderate	High
4136-A4	(FDR) OREGON GULCH	High	Moderate	High
4136-A5	(FDR) OREGON GULCH	High	Moderate	High
4136-A6	(FDR) KINGSBERRY GULCH	High	Moderate	High
4136-A7	(FDR) KINGSBERRY GULCH	High	Moderate	High
4136-A8	(FDR) KINGSBERRY GULCH	High	Moderate	High
4136-A9	(FDR) KINGSBERRY GULCH	High	Moderate	High
4136-B1	(FDR) HEDGES MOUNTAIN	High	Moderate	High
4136-C1	JIMTOWN	High	Moderate	High
4136-C2	JIMTOWN	High	Moderate	High
4136-D1	JIMTOWN	High	Moderate	High
4136-D2	(FDR) HEDGES MOUNTAIN	High	Moderate	High
4136-E1	(FDR) HEDGES MOUNTAIN	High	Moderate	High
4138	(FDR) GIPSY LAKE DAY USE	High	High	High
4138-A1	(HIR) GIPSY LAKE	High	Moderate	High
4139	(FDR) SWEATS LOOP	High	Moderate	High
4139-A1	(FDR) SWEATS GULCH	High	Moderate	High
4139-B1	(FDR) SWEATS GULCH	High	Moderate	High
4141	(FDR) KELLEY GULCH	High	Moderate	High
4141-A1	KELLY GULCH SPUR	High	Moderate	High
4141-B1	KELLY GULCH SPUR	High	Moderate	High
4142	(FDR) BULL RUN GULCH	High	Moderate	High
4146-A1	(FDR) DEEP CREEK PLATEAU	High	Moderate	High
4147	(FDR) CEDAR BAR RIDGE	High	High	High
4150	(FDR) METROPOLITAN BAR	High	Moderate	High
4151	(FDR) POWERLINE-CLARKS GULCH	High	Moderate	High
4152	(FDR) TRAIL GULCH	High	Moderate	High
4153	(FDR) DRY GULCH LOOP	High	Moderate	High
4154	(FDR) SWEATS GULCH	High	Moderate	High
4154-A1	(FDR) SWEATS GULCH CONN	High	Moderate	High
4154-B1	(FDR) SWEATS GULCH SPUR	High	Moderate	High
4154-B2	(FDR) SWEATS GULCH SPUR	High	Moderate	High

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4155	(FDR) COTTONWOOD GULCH	High	Moderate	High
4156	(FDR) CAVE GULCH	High	Low	High
4156-A1	(FDR) CAVE GULCH SPUR	High	Low	High
4156-B1	(FDR) CAVE GULCH SPUR	High	Low	High
4156-B2	(FDR) CAVE GULCH SPUR	High	Low	High
4156-B3	(FDR) CAVE GULCH SPUR	High	Low	High
4158	FDR	High	Moderate	High
4159	FDR	High	Moderate	High
4159-A1	FDR	High	Moderate	High
4160	(FDR) CAYUSE CR.	High	Moderate	High
4161	(FDR) GREENHORN BELT DIVIDE	High	High	High
4161-A1	(FDR) GRUBB GULCH	High	Moderate	High
4161-A2	(FDR) SPRING CR. CONNECTION	High	Moderate	High
4161-A3		High	Low	High
4161-A4		High	Low	High
4161-B1	(FDR) JOHNNIE'S GULCH	High	Moderate	High
4161-B2	(FDR) JOHNNIE'S GULCH	High	Moderate	High
4161-L1	(FDR)	High	Moderate	High
4161-M1	(FDR)	High	Moderate	High
4171	(FDR) BLACKTAIL	High	Moderate	High
4172	(FDR) SPRUCE CREEK	High	Low	High
4172-A1	(FDR) SPRUCE CREEK #1	High	Low	High
4173	(FDR) SPRUCE CREEK #3	High	Moderate	High
4174	(FDR) BOULDER CR CONTOUR	High	Moderate	High
4177	(FDR) COLORADO MOUNTAIN	High	Moderate	High
4180	(FDR) MOOSE CREEK CAMPGROUND	High	Moderate	High
4181	(FDR) WEST FORK CABIN	High	Moderate	High
4181-A1	(FDR) BEAR GULCH	High	Moderate	High
4181-C1	WEST FORK CABIN SPUR C1	High	Moderate	High
4181-D1	WEST FORK CABIN SPUR D1	High	Moderate	High
4183	(FDR) MIDDLE FORK CABIN	High	Moderate	High
4185	(FDR) ATLANTA CREEK	High	High	High
4185-A1	(FDR) ATLANTA LOOP	High	Moderate	High
4185-B1	(FDR)	High	Moderate	High
4185-C1	(FDR)	High	Moderate	High
4186	(FDR) MIDDLE FORK DUCK CREEK	High	Low	High
4186-A1	(FDR) CONTOUR DETOUR	High	Low	High

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4187	(FDR) BLACK BUTTE	High	High	High
4188	(FDR) STRAWBERRY LOOKOUT	High	Moderate	High
4189	(FDR) KIMBER GULCH	High	Moderate	High
4189-A1	(FDR) WEASEL-KIMBER	High	Moderate	High
4189-B1	(FDR) UPPER WHITE HORSE	High	Moderate	High
4189-C1	KIMBER GULCH SPUR C1	High	Moderate	High
4194	(FDR) SHORT CUT	High	Moderate	High
4194-A1	SHORT CUT SPUR A1	High	Moderate	High
4194-A2	SHORT CUT SPUR A2	High	Moderate	High
4195	(FDR) MADISON LOOP	High	Moderate	High
4195-A1	(FDR) MADISON GULCH MINE	High	Moderate	High
4195-A3	FINN A3	High	Moderate	High
4196	(FDR) WASHINGTON GULCH	High	Moderate	High
423	(FDR) CABIN GULCH-NORTH FORK	High	High	High
423-C1	(FDR) MIDDLE FORK CABIN	High	Moderate	High
423-H1	(FDR) GRANGER-NORTH FORK	High	Moderate	High
423-Q1		High	Moderate	High
424	(FDR) CROW CREEK	High	Moderate	High
424-A1	(FDR) BIG MOUNTAIN	High	Moderate	High
424-C1	(FDR) OLD BEAR GULCH	High	Moderate	High
424-D1	(FDR) BOOMARANG	High	Moderate	High
424-E1	CROW CREEK SPUR E1	High	Moderate	High
424-F1	CROW CREEK SPUR F1	High	Moderate	High
424-G1	CROW CREEK SPUR G1	High	Moderate	High
424-H1	CROW CREEK SPUR H1	High	Moderate	High
425	(FDR) MAGPIE	High	Moderate	High
425-A1	(FDR) COXCY GULCH	High	Moderate	High
425-B1	(FDR) BAR GULCH	High	Moderate	High
425-Q1	(FDR) SUNSHINE CONNECTION	High	Moderate	High
454	(C) UNIONVILLE	High	Moderate	High
485	(FDR) MARSH CREEK	High	Moderate	High
485-D1	(FDR) NEVADA-POORMAN DIVIDE	High	Moderate	High
485-D2	(FDR) WOODS ACCESS	High	Moderate	High
485-G1	(FDR) MARSH CREEK SPUR	High	Moderate	High
485-H3		High	Moderate	High
491	(FDR) POLE CREEK	High	Moderate	High
491-A1	(FDR) SAWMILL	High	Moderate	High

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491-A2		High	Moderate	High
491-B1	POLE CREEK SPUR B1	High	Moderate	High
491-C1		High	Moderate	High
495	(FDR) TELEGRAPH	High	High	High
575	(FDR) ATLANTA MULE	High	High	High
575-B1	(FDR) ATLANTA MULE SPUR	High	Moderate	High
575-B2	(FDR) ATLANTA MULE SPUR	High	Moderate	High
575-C1	(FDR) ATLANTA MULE SPUR	High	High	High
575-D1	(FDR) PICKFOOT #1	High	High	High
575-D2	(FDR) PICKFOOT #1 SPUR	High	High	High
575-E1	(FDR) PICKFOOT #2	High	High	High
575-E2	(FDR) PICKFOOT #2 SPUR	High	High	High
575-E3	(FDR) PICKFOOT #2 SPUR	High	High	High
575-E4	(FDR) PICKFOOT #2 SPUR	High	High	High
578	(FDR) BLACK HALL MEADOW	High	Moderate	High
587	(FDR) WHITES GULCH	High	Moderate	High
587-A1	(FDR) UPPER #2 DIVIDE	High	Moderate	High
587-B1	(FDR) PARK GULCH	High	Moderate	High
601	STEMPLE PASS ROAD	High	High	High
601-A1		High	Moderate	High
601-A2	LINCOLN A2	High	Moderate	High
601-K2		High	Moderate	High
601-K3		High	Moderate	High
601-K4		High	Moderate	High
601-N1		High	High	High
607	(FDR) PARK CREEK	High	Moderate	High
607-A1	(FDR) BEAVER TRIANGLE	High	Moderate	High
607-C1	(FDR) THEODORE CREEK	High	Moderate	High
607-D1	(FDR) STONEWALL CREEK	High	Moderate	High
607-E1	(FDR) STONEWALL CONNECTION	High	Moderate	High
607-F1	(FDR) STONEWALL CREEK	High	Moderate	High
607-G1	(FDR) PARK CREEK	High	Moderate	High
607-H1	STONEWELL H1	High	Moderate	High
614	(FDR) HOG HOLLOW	High	Moderate	High
614-A1	(FDR) ROBERTS LOOP	High	Moderate	High
614-A2	(FDR) H & H SPUR #6	High	Moderate	High
614-A4	H&H SPUR A4	High	Moderate	High

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614-A5	H&H SPUR A5	High	Moderate	High
614-B1	(FDR) H & H SPUR #1	High	Moderate	High
614-C1	(FDR) H & H SPUR #4	High	Moderate	High
614-D1	(FDR) H & H SPUR #5	High	Moderate	High
614-D2	H&H SPUR D2	High	Moderate	High
614-E1	(FDR) H & H SPUR #3	High	Moderate	High
614-E2	H&H SPUR E2	High	Moderate	High
621	(FDR) NORRIS GULCH	High	High	High
621-A1	(FDR) CEDAR SPRINGS	High	Moderate	High
621-B1	(FDR) LOWER DAHLMAN	High	High	High
621-B2	LOWER DAHLAM SPUR B2	High	High	High
621-C1	(FDR) DAHLMAN	High	High	High
621-C2	(FDR) BONANZA MINE	High	Moderate	High
621-D1	(FDR) SADDLE GULCH	High	High	High
621-E1	(FDR) JOHNNY GULCH #2	High	Moderate	High
621-F1	(FDR) HOPE SPRING	High	Moderate	High
621-G1	(FDR) DOUGHTY RANCH	High	Moderate	High
621-G2	(FDR) DOUGHTY EXTENSION	High	Moderate	High
621-G3	DOUGHTY SPUR G3	High	Moderate	High
621-H2	SWAMP SPRING CREEK SPUR H2	High	High	High
621-I1	NORRIS GULCH SPUR I1	High	Moderate	High
621-J1	NORRIS GULCH SPUR J1	High	Moderate	High
647	(FDR) PARK CITY	High	Moderate	High
684	(FDR) WILLOW CREEK	High	Low	High
692	(FDR) QUARTZ CREEK	High	Moderate	High
692-A1	(FDR) QUARTZ-ROWE GULCH	High	High	High
693	(FDR) HELLGATE	High	Moderate	High
693-B1	(FDR) FISHER GULCH	High	Moderate	High
695	RIMINI ROAD	High	Moderate	High
708	(FDR) SNOWSHOE-DEADWOOD	High	High	High
708-A1	(FDR) PATS GULCH	High	High	High
723	(C) GRIZZLY GULCH	High	Moderate	High
8766	(FDR) KADY GULCH	High	Moderate	High
8766-B1	(FDR) KADY GULCH SPUR1	High	Moderate	High
8961	(FDR) GIPSY BASIN	High	Moderate	High
8961-A1	GIPSY LAKE CAMPGROUND	High	Moderate	High
8963	(FDR) CHICKEN CR.	High	Low	High

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8969	(FDR) THOMAS CREEK	High	Moderate	High
8969-A1	(FDR) BRIDGE GULCH	High	Moderate	High
8969-B1	(FDR) THOMAS CREEK CONNECTION	High	Moderate	High
1104	(FDR) LINCOLN R S	Low	High	High
1104-A1		Low	High	High
1104-B1		Low	High	High
1163-A3	(FDR) TRAPPER MOUNTAIN #3	Low	High	High
1163-A4	(FDR) TRAPPER MOUNTAIN #4	Low	High	High
1163-A5	MARCUM SOUTH A5	Low	High	High
1163-K1	NEVADA LAKE K1	Low	High	High
1163-K2	NEVADA LAKE K2	Low	High	High
1163-L1	NEVADA LAKE L1	Low	High	High
139-A1	(FDR) DUCK CREEK LOOP	Low	High	High
139-F1	(FDR) STOVE CAMP TRAILHEAD	Low	High	High
139-H1	(FDR) KISSING MEADOWS	Low	High	High
139-H2	(FDR) DUCK CREEK SPUR	Low	High	High
139-H3	(FDR) DUCK CREEK SPUR	Low	High	High
139-H4	(FDR) DUCK CREEK SPUR	Low	High	High
147-E1	(FDR) FLATHEAD IND TRAIL	Low	High	High
147-E2	(FDR) BLACK BUTTE	Low	High	High
147-E3	(FDR) BLACK BUTTE SPUR	Low	High	High
147-E4	(FDR) FLATHEAD INDIAN TR SPUR	Low	High	High
147-E5		Low	High	High
147-E6		Low	High	High
147-F1	(FDR) FLATHEAD-KLONDIKE	Low	High	High
147-G1	(FDR) GREYSON CREEK	Low	High	High
147-G2	GREYSON CREEK SPUR G2	Low	High	High
147-G3	GREYSON CREEK SPUR G3	Low	High	High
147-G4	GREYSON CREEK SPUR G4	Low	High	High
147-G5	GREYSON CREEK SPUR G5	Low	High	High
147-H1	SULPHUR BAR SPUR H1	Low	High	High
1803	(FDR) MASONS ROAD	Low	High	High
1805-B1	(FDR) SKY LINE	Low	High	High
1805-B2		Low	High	High
1805-B3	(FDR) SKYLINE	Low	High	High
1805-C2	MULLAN SPUR	Low	High	High
1805-C3	MULLAN SPUR	Low	High	High

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Road ID	Road Name			
1805-D1		Low	High	High
1805-D3		Low	High	High
1805-D4		Low	High	High
1808	(FDR) GILLILAND MICROWAVE	Low	High	High
1808-A1	(FDR) WILSON MOUNTAIN	Low	High	High
1810	(FDR) UPPER DUCK	Low	High	High
1815	(FDR) MEADOW CREEK	Low	High	High
1815-A1	(FDR) PORCUPINE GULCH	Low	High	High
1816	(FDR) LITTLE CORRAL GULCH	Low	High	High
1817	(FDR) LITTLE CORRAL GULCH	Low	High	High
1825-A1	(FDR) CRATER MOUNTAIN SPUR	Low	High	High
1827	(FDR) PAGE GULCH	Low	High	High
1827-C1	(FDR) PAGE GULCH LOOP	Low	High	High
1827-I1		Low	High	High
1827-J1	SWEDE GULCH J1	Low	High	High
1827-J2	SWEDE GULCH J2	Low	High	High
1827-K1	SWEDE GULCH K1	Low	High	High
1829	(FDR) MADISON GULCH	Low	High	High
1829-A1	(FDR) EAST FORK WILLOW CREEK	Low	High	High
1830-A1	(FDR) DEER CREEK SPUR	Low	High	High
		Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
Road ID	Road Name			
1830-B1	NEVADA LAKE B1	Low	High	High
1840	(FDR) UPPER HOGUM CREEK	Low	High	High
1840-A1	SWEDE GULCH A1/STEMPLE PASS A1	Low	High	High
1840-B1	(FDR) TRAIL CONNECTION	Low	High	High
1854	(FDR) HISTORICAL MARKER	Low	High	High
1854-A1	(FDR) MARKER LOOP	Low	High	High
1855	(FDR) DOG CREEK	Low	High	High
1855-A1	(FDR) UNCLE GEORGE CR.	Low	High	High
1855-A2	(FDR) W FK UNCLE GEORGE LOOP	Low	High	High

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1855-A3	(FDR) S FK UNCLE GEORGE CREEK	Low	High	High
1855-A4	GREENHORN A4	Low	High	High
1855-A5	GREENHORN A5	Low	High	High
1855-B1	(FDR) MARKER STUB	Low	High	High
1855-B2	(FDR) MARKER SPUR	Low	High	High
1855-E1	(FDR) DOG CREEK	Low	High	High
1857	(FDR) NEGRO MTN-TREASURE MTN	Low	High	High
1857-A1	(FDR) NEGRO MTN CONNECTION	Low	High	High
1884-C1	SWEDE GULCH	Low	High	High
1884-D1	SWEDE GULCH D1	Low	High	High
1888	(FDR) GOLD CREEK	Low	High	High
1888-A1	(FDR) GOLD CREEK SPUR	Low	High	High
1891-A1	NEVADA LAKE A1	Low	High	High
227	(FDR) LITTLE BLACKFOOT	Low	High	High
314-F1	WEST ELLISTON	Low	High	High
314-G1	(FDR) LOWER NORTH TROUT CREEK	Low	High	High
314-G2	LOWER NORTH TROUT CREEK SPUR G	Low	High	High
314-G3	LOWER NORTH TROUT CREEK SPUR G	Low	High	High
314-H1	(FDR) UPPER NORTH TROUT CREEK	Low	High	High
314-I1	(FDR) CONNECTION	Low	High	High
314-I2	(FDR) CONNECTION STUB	Low	High	High
314-K2	LOWER NORTH TROUT SP K2	Low	High	High
329-J1	FINN J1	Low	High	High
329-J3	FINN J3	Low	High	High
329-J4	FINN J4	Low	High	High
329-K2	FINN K2	Low	High	High
329-K3	FINN K3	Low	High	High
329-N1	FINN N1	Low	High	High
383-A3	(FDR)	Low	High	High
383-A4	(FDR)	Low	High	High
383-B1	(FDR) LITTLE CAMAS #2	Low	High	High
383-B5	(FDR)	Low	High	High
383-G1	(FDR)	Low	High	High
383-I1	(FDR)	Low	High	High
4005-A2	(FDR) WET FORK STUB	Low	High	High
4005-A3	(FDR) WET FORK	Low	High	High
4005-A4	(FDR) UPPER DRY FORK	Low	High	High

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4005-A5	DRY FORK A5	Low	High	High
4005-A6	DRY FORK A6	Low	High	High
4005-A7	DRY FORK A7	Low	High	High
4006	(FDR) PAULY SPRINGS	Low	High	High
4006-A1	(FDR) ESMERALDA HILL	Low	High	High
4006-B1	ESMHILL-E2	Low	High	High
4009-B1	(FDR) FROHNER MINE	Low	High	High
4009-B2		Low	High	High
4026-B1	CARPENTER CREEK B1	Low	High	High
4082-A1	PAYMASTER SPUR	Low	High	High
4082-D1	ROGERS PASS D1	Low	High	High
4082-E1	ROGERS PASS E1	Low	High	High
4082-F1	ROGERS PASS F1	Low	High	High
4082-G1	ROGERS PASS G1	Low	High	High
4082-H1	ROGERS PASS H1	Low	High	High
4082-I1	ROGERS PASS I1	Low	High	High
4082-I2	ROGERS PASS I2	Low	High	High
4082-J1	ROGERS PASS J1	Low	High	High
4082-J2	ROGERS PASS J2	Low	High	High
4082-J3	ROGERS PASS J3	Low	High	High
4082-K1	ROGERS PASS K1	Low	High	High
4083	(FDR) PASS CREEK	Low	High	High
4083-A1	(FDR) CHAMBERS GULCH #1	Low	High	High
4083-A2	(FDR) CHAMBERS GULCH #2	Low	High	High
4083-A3	CHAMBERS GULCH A3	Low	High	High
4083-A4	CHAMBERS GULCH A4	Low	High	High
4083-A5	CHAMBERS GULCH A5	Low	High	High
4083-A6	CHAMBERS GULCH A6	Low	High	High
4083-A7	CHAMBERS GULCH A7	Low	High	High
4083-A8	CHAMBERS GULCH A8	Low	High	High
4083-A9	CHAMBERS GULCH A9	Low	High	High
4083-B1	(FDR) PASS CREEK SPUR	Low	High	High
4083-C1	PASS CREEK C1	Low	High	High
4083-D1	PASS CREEK D1	Low	High	High
4084	(FDR) SURVEYOR'S GULCH	Low	High	High
4084-A1	(FDR) SURVEYORS GULCH EAST	Low	High	High
4085	(FDR) SHAVE GULCH	Low	High	High

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4085-A1	ROGERS PASS A1	Low	High	High
4085-A2	ROGERS PASS A2	Low	High	High
4085-A3	ROGERS PASS A3	Low	High	High
4086	(FDR) MIKE HORSE MINE	Low	High	High
4086-A1	(FDR) MIKE HORSE MINE #1	Low	High	High
4086-B1	MIKEHORSE B1	Low	High	High
4086-B2	ROGERS PASS B2	Low	High	High
4086-B3		Low	High	High
4086-B4	ROGERS PASS B4	Low	High	High
4086-B5		Low	High	High
4087	(FDR) MIKE HORSE MINE EXT.	Low	High	High
4087-A1	(FDR) BEARTRAP CREEK MINE	Low	High	High
4087-A2	BEARTRAP CREEK MINE	Low	High	High
4087-B1	(FDR) ANACONDA CREEK	Low	High	High
4087-B2	(FDR) TEEPEE LODGE CREEK	Low	High	High
4087-C1	MIKEHORSE MINE C1	Low	High	High
4087-D1	MIKEHORSE MINE D1	Low	High	High
4087-E1	MIKEHORSE MINE E1	Low	High	High
4087-E2	MIKEHORSE MINE E2	Low	High	High
4087-F1	ROGERS PASS F1	Low	High	High
4087-G1	ROGERS PASS G1	Low	High	High
4087-J1	ROGERS PASS J1	Low	High	High
4087-K1	ROGERS PASS K1	Low	High	High
4087-L1	ROGERS PASS L1	Low	High	High
4088	(FDR) WILLOW CR. CONN.	Low	High	High
4088-A2	(FDR) TRAIL SPUR	Low	High	High
4108	(FDR) WEST FLESHER	Low	High	High
4108-B1	(FDR) WIZARD	Low	High	High
4128	(FDR) DALTON MT LOOKOUT	Low	High	High
4161-C1	(FDR) BEAVER CR.-GREENHORN DIV	Low	High	High
4161-C2	(FDR) CAMP ROAD	Low	High	High
4178	(FDR) SOUTH BALDY	Low	High	High
4178-A1	(FDR) HOLLOWAY-RAY #2	Low	High	High
4178-A3	(FDR) HOLLOWAY LOGGING #2	Low	High	High
4178-A4	(FDR) HOLLOWAY LOGGING #4	Low	High	High
4178-C1	(FDR) HOLLOWAY LOGGING #1	Low	High	High
4178-C2	HOLLOWAY LOGGING SPUR C2	Low	High	High

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4178-D1	(FDR) UPPER RAY CREEK	Low	High	High
4178-D2	UPPER RAY CREEK SPUR D2	Low	High	High
4178-J3	SOUTH BALDY	Low	High	High
4178-O1	SOUTH BALDY SPUR O1	Low	High	High
4178-O2	SOUTH BALDY SPUR O2	Low	High	High
4179	(FDR) NORTH BALDY	Low	High	High
4187-D1	(FDR) SULPHUR BAR	Low	High	High
4190	(FDR) BLACKTAIL-CEDAR BAR	Low	High	High
4190-A1	(FDR) EAST BLACKTAIL LOOP	Low	High	High
4190-B1	(FDR) WEST BLACKTAIL LOOP	Low	High	High
4190-B2	(FDR) WEST BLACKTAIL CONN.	Low	High	High
4190-B3	(FDR) SULPHUR-BLACKTAIL #3	Low	High	High
4190-C1	(FDR) CEDAR BAR	Low	High	High
4190-E1	CEDAR BAR SPUR E1	Low	High	High
4190-F1	CEDAR BAR SPUR F1	Low	High	High
4192	(FDR) KOENIG ROAD	Low	High	High
571	(FDR) HOPE CREEK	Low	High	High
575-D4	PICKFOOT SPUR	Low	High	High
583	(FDR) GRASSY MOUNTAIN	Low	High	High
583-A1	(FDR) MIKE DAY	Low	High	High
583-B1	(FDR) GRASSY MICROWAVE	Low	High	High
583-G1	(FDR) RIDGE SHAW #2	Low	High	High
583-H1	(FDR) RIDGE SHAW #5	Low	High	High
583-I1	(FDR) MCHENRY LOGGING LOOP	Low	High	High
587-C1	(FDR) VERMONT GULCH	Low	High	High
601-L1		Low	High	High
601-L2		Low	High	High
601-L3		Low	High	High
601-L4		Low	High	High
601-M1		Low	High	High
601-M2		Low	High	High
601-N2		Low	High	High
601-N3		Low	High	High
601-N4		Low	High	High
601-N5		Low	High	High
601-N6		Low	High	High
708-A2	(FDR) PATS GULCH STUB	Low	High	High

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708-A3	PATS GULCH #3	Low	High	High
708-A4	PATS GULCH #4	Low	High	High
708-B1	(FDR) DEADWOOD	Low	High	High
708-B2	(FDR) DEADWOOD STUB	Low	High	High
708-B3	DEADWOOD STUB B3	Low	High	High
708-B4	DEADWOOD STUB B4	Low	High	High
708-C1	(FDR) WARD GULCH	Low	High	High
708-C2	(FDR) WARD GULCH SPUR	Low	High	High
708-C3	(FDR) WARD GULCH SPUR #2	Low	High	High
708-C4	(FDR) WARD GULCH SPUR #3	Low	High	High
708-C5	WARD GULCH #5	Low	High	High
708-C6	WARD GULCH #6	Low	High	High
708-D1	(FDR) DEADWOOD SPUR	Low	High	High
708-E1	(FDR) DEADWOOD GULCH CONN.	Low	High	High
708-E2	DEADWOOD GULCH E2	Low	High	High
708-E3	DEADWOOD GULCH E3	Low	High	High
708-E4	DEADWOOD GULCH E4	Low	High	High
708-E5	DEADWOOD GULCH E5	Low	High	High
708-E6	DEADWOOD GULCH E6	Low	High	High
708-E7	DEADWOOD GULCH E7	Low	High	High
708-E8	DEADWOOD GULCH E8	Low	High	High
708-E9		Low	High	High
708-F1	(FDR) DEADWOOD GULCH	Low	High	High
708-G1	(FDR) ESMEALDA HILL	Low	High	High
708-H1	(FDR) MCGUIRE GULCH	Low	High	High
708-J1	ESMERALDA HILL J1	Low	High	High
708-J2	ESMERALDA HILL J2	Low	High	High
708-J3	ESMERALDA HILL J3	Low	High	High
774	(FDR) COTTONWOOD GULCH	Low	High	High
774-A1	(FDR) DEADMAN EXTENSION	Low	High	High
8964	(FDR) CHICKEN CREEK RIDGE	Low	High	High
8964-A1	(FDR) CHICKEN CREEK STUB	Low	High	High
8971	(FDR) LAMBING CAMP	Low	High	High
8971-A1	(FDR) LONG GULCH SPUR	Low	High	High
8971-A2	(FDR) LONG GULCH SPUR	Low	High	High
8971-A3	(FDR) LONG GULCH SPUR	Low	High	High
8971-B1	(FDR) LONG GULCH SPUR	Low	High	High

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8971-B2	(FDR) LONG GULCH SPUR	Low	High	High
1847-B1	SILVER KING-B1	Low	Low	Low
4008	(FDR) ANTELOPE CR.	Low	Low	Low
4179-A1	(FDR) TWIN SISTERS	Low	Low	Low
4179-B1	(FDR) TWIN SISTERS	Low	Low	Low
8963-A1	NEVADA LAKE A1	Low	Low	Low
1015-A1		Low	Moderate	Moderate
1016	(FDR) MCDONALD PASS CAMP	Low	Moderate	Moderate
1017	(FDR) CROMWELL DIXON CAMPGD	Low	Moderate	Moderate
1017-A1	(FDR) MACDONALD TOWER SOUTH	Low	Moderate	Moderate
1108	(FDR) VIGILANTE CAMPGROUND	Low	Moderate	Moderate
1163-E1	(FDR) WASSON CREEK #9	Low	Moderate	Moderate
123	(FDR) ONTARIO	Low	Moderate	Moderate
123-A1		Low	Moderate	Moderate
123-A2		Low	Moderate	Moderate
136-A2	(FDR) OPHIR CR. STUB #1	Low	Moderate	Moderate
136-B1	(FDR) SOUTH OPHIR	Low	Moderate	Moderate
136-B3	SOUTH OPHIR CRK STUB #2	Low	Moderate	Moderate
136-B4	OPHIR CAVE B4	Low	Moderate	Moderate
136-B5	OPHIR CAVE B5	Low	Moderate	Moderate
136-B7	OPHIR CAVE B7	Low	Moderate	Moderate
136-B8	OPHIR CAVE B8	Low	Moderate	Moderate
136-C1	(FDR) CAYUSE SPRING	Low	Moderate	Moderate
136-C2	CAYUSE SPRING C2	Low	Moderate	Moderate
136-C3	CAYUSE SPRING C3	Low	Moderate	Moderate
136-D1	(FDR) DANA SPRING-BLACK MTN	Low	Moderate	Moderate
136-D2	DANA SPRING #2	Low	Moderate	Moderate
136-E1	OPHIR CAVE E1	Low	Moderate	Moderate
136-G1	OPHIR CAVE G1	Low	Moderate	Moderate
138-A1	(FDR) WINTERBURN COW CAMP	Low	Moderate	Moderate
138-B1	(FDR) INDIAN FLATS	Low	Moderate	Moderate
138-B2	FDR	Low	Moderate	Moderate
138-C1	(FDR) GROUSE RIDGE DIVIDE	Low	Moderate	Moderate
138-D1	(FDR) ROCKY BOWMAN	Low	Moderate	Moderate
138-E1	(FDR) BOWMAN GULCH	Low	Moderate	Moderate
138-F1	(FDR) ROCKY BOWMAN	Low	Moderate	Moderate
138-G1	(FDR) BEAVER CREEK SPUR	Low	Moderate	Moderate

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138-H1	(FDR) BEAVER CREEK SPUR	Low	Moderate	Moderate
138-I1	FDR	Low	Moderate	Moderate
139-D1	(FDR) UPPER DUCK	Low	Moderate	Moderate
139-E1	(FDR) UPPER DUCK	Low	Moderate	Moderate
139-F2	(FDR) LITTLE CAMAS #1	Low	Moderate	Moderate
139-H5	(FDR) UPPER CAMAS	Low	Moderate	Moderate
164	(FDR) PRICKLY PEAR	Low	Moderate	Moderate
164-B1	(FDR) BALLARD MINE	Low	Moderate	Moderate
1800-B1	(FDR) COPPER FACE	Low	Moderate	Moderate
1800-B2	SILVER KING B2	Low	Moderate	Moderate
1800-B3	SILVER KING B3	Low	Moderate	Moderate
1800-B4	SILVER KING B4	Low	Moderate	Moderate
1800-C1	STONEWELL C1	Low	Moderate	Moderate
1801	(FDR) BISON MOUNTAIN	Low	Moderate	Moderate
1801-A1	(FDR) BISON MOUNTAIN	Low	Moderate	Moderate
1801-A2	(FDR) BISON MOUNTAIN	Low	Moderate	Moderate
1801-A3		Low	Moderate	Moderate
1801-A4		Low	Moderate	Moderate
1801-B1	(FDR) MONARCH BISON	Low	Moderate	Moderate
1802	(FDR) MICROWAVE ROAD	Low	Moderate	Moderate
1802-A1	(FDR) LITTLE PORCUPINE	Low	Moderate	Moderate
1802-B1	LITTLE PORCUPINE SPUR B1	Low	Moderate	Moderate
1802-C1	LITTLE PORCUPINE SPUR C1	Low	Moderate	Moderate
1804	(FDR) UPPER BEAVER	Low	Moderate	Moderate
1804-A1	(FDR) UPPER BEAVER SPUR	Low	Moderate	Moderate
1804-B1	ARRASTRA B1	Low	Moderate	Moderate
1806	(FDR) ARRASTRA CR	Low	Moderate	Moderate
1811	(FDR) JERUSHA GULCH	Low	Moderate	Moderate
1819	WIL BURN	Low	Moderate	Moderate
1819-A1	WILBURN-A1	Low	Moderate	Moderate
1819-A2	WILBURN-A2	Low	Moderate	Moderate
1819-B1	WILBURN-B1	Low	Moderate	Moderate
1819-B2	WILBURN-B2	Low	Moderate	Moderate
1819-B3	WILBURN-B3	Low	Moderate	Moderate
1819-C1	WILBURN-C1	Low	Moderate	Moderate
1819-C2	WILBURN-C2	Low	Moderate	Moderate
1819-D1	WILBURN-D1	Low	Moderate	Moderate

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1820	(PO) HORSE GULCH	Low	Moderate	Moderate
1821-A1	STONEWELL A1-SUCKER/KEEP COOL	Low	Moderate	Moderate
1821-C1	STONEWELL C1	Low	Moderate	Moderate
1823-A1	(FDR) WILSON CREEK	Low	Moderate	Moderate
1823-B1	(FDR) WILSON SPUR	Low	Moderate	Moderate
1823-E1	NEVADA LAKE E1	Low	Moderate	Moderate
1823-F1	NEVADA LAKE F1	Low	Moderate	Moderate
1823-G1	NEVADA LAKE G1	Low	Moderate	Moderate
1823-H1	NEVADA LAKE H1	Low	Moderate	Moderate
1824-B1	(FDR) LONE POINT CONNECTION	Low	Moderate	Moderate
1824-B2	MOOSE NORTH B2	Low	Moderate	Moderate
1824-C1	(FDR) LOWER LINCOLN GULCH	Low	Moderate	Moderate
1824-D1	(FDR) MIDDLE LINCOLN GULCH	Low	Moderate	Moderate
1824-E1	(FDR) LINCOLN SPIELING	Low	Moderate	Moderate
1824-F1	(FDR) UPPER LINCOLN GULCH	Low	Moderate	Moderate
1825	(FDR) CRATER MOUNTAIN	Low	Moderate	Moderate
1825-B1	(FDR) SOUTH FORK RIDGE	Low	Moderate	Moderate
1825-C1	(FDR) UPPER HOGUM CREEK	Low	Moderate	Moderate
1825-D1	SWEDE GULCH D1	Low	Moderate	Moderate
1825-E1	SWEDE GULCH E1	Low	Moderate	Moderate
1825-F1		Low	Moderate	Moderate
1827-F1	(FDR) TROUT CREEK RIDGE	Low	Moderate	Moderate
1827-G1	(FDR) UPPER TROUT CREEK #1	Low	Moderate	Moderate
1827-H1	(FDR) UPPER TROUT CREEK #2	Low	Moderate	Moderate
1827-H2	(FDR) UPPER TROUT CREEK #3	Low	Moderate	Moderate
1827-H3	STEMPLE PASS H3	Low	Moderate	Moderate
1829-C2	FINN C2	Low	Moderate	Moderate
1829-C3	FINN C3	Low	Moderate	Moderate
1832	(FDR) SNOWBANK CREEK	Low	Moderate	Moderate
1832-A1	(FDR) COPPER SNOWBANK	Low	Moderate	Moderate
1834-A1	FINN A1	Low	Moderate	Moderate
1834-B1	FINN B1	Low	Moderate	Moderate
1834-C1	FINN C1	Low	Moderate	Moderate
1834-D1	FINN D1	Low	Moderate	Moderate
1836	(FDR) JERICHO	Low	Moderate	Moderate
1836-A1		Low	Moderate	Moderate
1837	(FDR) SOUTH FORK BEAVER CREEK	Low	Moderate	Moderate

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1837-A1	(FDR) LINCOLN DITCH SPUR	Low	Moderate	Moderate
1837-B1	(FDR) SOUTH BEAVER SPUR	Low	Moderate	Moderate
1837-B2	(FDR) UPPER ARRASTRA	Low	Moderate	Moderate
1841-D1		Low	Moderate	Moderate
1842-E1	LINCOLN E1	Low	Moderate	Moderate
1847	(FDR) SOUTH MEADOWS	Low	Moderate	Moderate
1849	(FDR) BLACK MOUNTAIN	Low	Moderate	Moderate
1849-A1	(FDR) MITCHELL CREEK CONTOUR	Low	Moderate	Moderate
1851	(FDR) AMERICAN GULCH	Low	Moderate	Moderate
1852	(FDR) UPPER HOPE CREEK	Low	Moderate	Moderate
1852-A1	(FDR) SPRING GULCH	Low	Moderate	Moderate
1852-B1	(FDR) POLLY SPRINGS	Low	Moderate	Moderate
1852-C1	(FDR) FAITH GULCH	Low	Moderate	Moderate
1852-C2	(FDR) CHARITY GULCH	Low	Moderate	Moderate
1852-D1	UPPER HOPE CREEK SPUR D1	Low	Moderate	Moderate
1852-D2	UPPER HOPE CREEK SPUR D2	Low	Moderate	Moderate
1855-B3	(FDR) MARKER SPUR	Low	Moderate	Moderate
1855-B4	(FDR) MARKER SPUR	Low	Moderate	Moderate
1855-B5	(FDR) MARKER SPUR	Low	Moderate	Moderate
1855-B6	(FDR) MARKER SPUR	Low	Moderate	Moderate
1855-B7	(FDR) MARKER SPUR	Low	Moderate	Moderate
1855-C1	(FDR) POWERLINE	Low	Moderate	Moderate
1855-D1	(FDR) THOMPSON FLAT	Low	Moderate	Moderate
1855-F1	(FDR) UNCLE GEORGE CREEK SPUR	Low	Moderate	Moderate
1856-G1	(FDR) MIKE RENIG GULCH	Low	Moderate	Moderate
1856-I1		Low	Moderate	Moderate
1857-A2	(FDR) NEGRO MOUNTAIN #2	Low	Moderate	Moderate
1857-A3	(FDR) NEGRO MOUNTAIN #3	Low	Moderate	Moderate
1857-A4	(FDR) NEGRO MOUNTAIN #4	Low	Moderate	Moderate
1857-A5	NEGRO MTN SPUR #5	Low	Moderate	Moderate
1857-B1	(FDR) MOOSE CREEK CONN.	Low	Moderate	Moderate
1857-B2	(FDR) LOWER MOOSE CREEK	Low	Moderate	Moderate
1857-B3	NEGRO MTN SPUR B3	Low	Moderate	Moderate
1857-B4	NEGRO MTN SPUR B4	Low	Moderate	Moderate
1857-B5		Low	Moderate	Moderate
1857-C1	(FDR) TREASURE MOUNTAIN SPUR	Low	Moderate	Moderate
1857-D1	(FDR) JULIA MINE CONNECTION	Low	Moderate	Moderate

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1857-D2	(FDR) JULIA MINE EXTENSION	Low	Moderate	Moderate
1857-D3		Low	Moderate	Moderate
1857-D4		Low	Moderate	Moderate
1857-E1	(FDR) VIKING MINE	Low	Moderate	Moderate
1857-F1	(FDR) MARY ANN CREEK CLIMB	Low	Moderate	Moderate
1857-G1		Low	Moderate	Moderate
1857-G2		Low	Moderate	Moderate
1857-G3		Low	Moderate	Moderate
1859	(FDR) TREASURE MOUNTAIN	Low	Moderate	Moderate
1859-B1	(FDR) TREASURE MTN CONN.	Low	Moderate	Moderate
1859-B2	(FDR) TREASURE MOUNTAIN RIDGE	Low	Moderate	Moderate
1859-D1	(FDR) ONTARIO CREEK	Low	Moderate	Moderate
1859-D2	TREASURE MOUNTAIN SPUR D2	Low	Moderate	Moderate
1859-D3	TREASURE MOUNTAIN SPUR D3	Low	Moderate	Moderate
1859-D4	TREASURE MOUNTAIN SPUR D4	Low	Moderate	Moderate
1859-E1	(FDR) TREASURE MOUNTAIN RIDGE	Low	Moderate	Moderate
1859-E2		Low	Moderate	Moderate
1859-F1	(FDR) ONTARIO CREEK	Low	Moderate	Moderate
1863	(FDR) BULLION PARKS	Low	Moderate	Moderate
1863-A1	(FDR) JOSEPHINE-ONTARIO	Low	Moderate	Moderate
1863-B1	JOSEPHINE-ONTARIO SPUR B1	Low	Moderate	Moderate
1863-C1	JOSEPHINE-ONTARIO SPUR C1	Low	Moderate	Moderate
1863-E1		Low	Moderate	Moderate
1863-F1		Low	Moderate	Moderate
1863-G1		Low	Moderate	Moderate
1863-H1		Low	Moderate	Moderate
1868	(FDR) BURR CREEK	Low	Moderate	Moderate
1871	(FDR) SLATE CREEK-HAT CREEK	Low	Moderate	Moderate
1871-A5	SLATE CREEK SPUR A5	Low	Moderate	Moderate
1871-B1	SLATE CREEK SPUR B1	Low	Moderate	Moderate
1871-B2	SLATE CREEK SPUR B2	Low	Moderate	Moderate
1871-C1	SLATE CREEK SPUR C1	Low	Moderate	Moderate
1876-A1	(FDR) BANNER CREEK SPUR	Low	Moderate	Moderate
1876-B1	(FDR) GOULD DIGGINS	Low	Moderate	Moderate
1876-B2	(FDR) IDA MAE MINE	Low	Moderate	Moderate
1876-B3	(FDR) PEERLESS STUB	Low	Moderate	Moderate
1876-B4	(FDR) BANNER SPUR4	Low	Moderate	Moderate

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1876-B5	(FDR) BANNER3	Low	Moderate	Moderate
1876-C1	(FDR) GOULD RESERVOIR SPUR	Low	Moderate	Moderate
1876-D1	(FDR) 1876-A1 SPUR	Low	Moderate	Moderate
1876-E1	BANNER CREEK SPUR E1	Low	Moderate	Moderate
1877	(FDR) TELEPHONE	Low	Moderate	Moderate
1878-A1	(FDR) FROHNER STUB	Low	Moderate	Moderate
1878-B1	(FDR) STRAWBERRY-LUMP CONN.	Low	Moderate	Moderate
1878-B3	(FDR) QUARTZ-LUMP STUB #2	Low	Moderate	Moderate
1878-B5		Low	Moderate	Moderate
1878-B6	(FDR) QUARTZ-LUMP STUB 6	Low	Moderate	Moderate
1878-C1	(FDR) FROHNER MEADOW	Low	Moderate	Moderate
1878-C2	(FDR) FROHNER MEADOWS SPUR 1	Low	Moderate	Moderate
1878-C3	(FDR) FROHNER MEADOW SPUR 3	Low	Moderate	Moderate
1878-C4	(FDR) FROHNER MEADOWS	Low	Moderate	Moderate
1878-C5	(FDR) FROHNER MEADOW SPUR 5	Low	Moderate	Moderate
1878-D1	(FDR) FROHNER STUB	Low	Moderate	Moderate
1878-D2	(FDR) FROHNER STUB 2	Low	Moderate	Moderate
1878-D3	(FDR) FROHNER STUB 3	Low	Moderate	Moderate
1881-A1	(FDR) LAKE CREEK STUB	Low	Moderate	Moderate
1881-A2	STONEWELL A2	Low	Moderate	Moderate
1881-B1	(FDR) UPPER COPPER CREEK SPUR	Low	Moderate	Moderate
1881-B2	COPPER CREEK-B2	Low	Moderate	Moderate
1881-B3		Low	Moderate	Moderate
1881-C1	(FDR) COPPER SNOWBANK	Low	Moderate	Moderate
1881-C3	SILVER KING-C3	Low	Moderate	Moderate
1881-E1	(FDR) UPPER COPPER FACE	Low	Moderate	Moderate
1881-F1	(FDR) COPPER SNOWBANK	Low	Moderate	Moderate
1881-H1	SILVER KING H1	Low	Moderate	Moderate
1882	(FDR) INDIAN MEADOWS	Low	Moderate	Moderate
1882-B1	SILVER KING B1	Low	Moderate	Moderate
1882-C1	SILVER KING C1	Low	Moderate	Moderate
1883	(FDR) COPPER SNOWBANK	Low	Moderate	Moderate
1883-D1	STONEWELL D1	Low	Moderate	Moderate
1883-E1	STONEWELL E1	Low	Moderate	Moderate
1883-F1	STONEWELL F1	Low	Moderate	Moderate
1884-B1	SWEDE GULCH B1	Low	Moderate	Moderate
1886	(FDR) DAVIS GULCH	Low	Moderate	Moderate

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1892-D3	FINN D3	Low	Moderate	Moderate
1892-F1	(FDR) OLD SAUERKRAUT	Low	Moderate	Moderate
1892-G1	(FDR) MIDDLE SAUERKRAUT	Low	Moderate	Moderate
1893-B1	(FDR) MOOSE CREEK RIDGE	Low	Moderate	Moderate
1893-C1	(FDR) BOULDER PATCH	Low	Moderate	Moderate
1896	(FDR) FRONTIER TOWN	Low	Moderate	Moderate
1897	(FDR) FOREST HEIGHTS	Low	Moderate	Moderate
218	(FDR) TEN MILE	Low	Moderate	Moderate
218-A1	(FDR) RUBY CR.	Low	Moderate	Moderate
218-A2	(FDR) MONTE CRISTO MINE	Low	Moderate	Moderate
218-B1	(FDR) MONITOR CREEK SPUR	Low	Moderate	Moderate
227-A1	(FDR) LIONS SUNSHINE CAMP	Low	Moderate	Moderate
227-A2	LITTLE SUNSHINE CAMP #2	Low	Moderate	Moderate
227-B1	(FDR) CHARTER OAK	Low	Moderate	Moderate
227-C1	(FDR) HAT CREEK	Low	Moderate	Moderate
227-E1	BISON MTN E1	Low	Moderate	Moderate
256	(FDR) DOG-HOPE CONN	Low	Moderate	Moderate
259	(FDR) WAGNER GULCH	Low	Moderate	Moderate
259-A1	(FDR) AVALANCHE BUTTE	Low	Moderate	Moderate
259-A2	(FDR) AVALANCHE BUTTE	Low	Moderate	Moderate
259-A3	(FDR) AVALANCHE BUTTE	Low	Moderate	Moderate
259-B1	(FDR) WAGNER GULCH SPUR	Low	Moderate	Moderate
259-B2	(FDR) WAGNER GULCH SPUR	Low	Moderate	Moderate
259-B3	(FDR) WAGNER GULCH SPUR	Low	Moderate	Moderate
259-B4	(FDR) WAGNER GULCH SPUR	Low	Moderate	Moderate
259-B5	(FDR) WAGNER GULCH SPUR	Low	Moderate	Moderate
259-B6	(FDR) WAGNER GULCH SPUR	Low	Moderate	Moderate
259-B7	(FDR) WAGNER GULCH SPUR	Low	Moderate	Moderate
259-B8	(FDR) LIND CREEK	Low	Moderate	Moderate
259-C1	(FDR) LIND CREEK	Low	Moderate	Moderate
259-D1	(FDR) LIND CREEK	Low	Moderate	Moderate
259-E1	(FDR) LIND CREEK	Low	Moderate	Moderate
259-F1	(FDR) LIND CREEK	Low	Moderate	Moderate
259-F2	(FDR) LIND CREEK	Low	Moderate	Moderate
259-F3	(FDR) LIND CREEK	Low	Moderate	Moderate
259-F4	(FDR) LIND CREEK	Low	Moderate	Moderate
259-F5	(FDR) LIND CREEK	Low	Moderate	Moderate

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
259-F6	(FDR) LIND CREEK	Low	Moderate	Moderate
259-F7	(FDR) LIND CREEK	Low	Moderate	Moderate
259-F8	(FDR) LIND CREEK	Low	Moderate	Moderate
287-D1	(FDR)	Low	Moderate	Moderate
287-E1	(FDR) CEMENT RIDGE	Low	Moderate	Moderate
287-E10	(FDR) CEMENT RIDGE	Low	Moderate	Moderate
287-E11	(FDR) CEMENT RIDGE	Low	Moderate	Moderate
287-E2	(FDR) CEMENT RIDGE-BELT DIVIDE	Low	Moderate	Moderate
287-E3	(FDR) UPPER IRISH GULCH	Low	Moderate	Moderate
287-E4	(FDR) UPPER IRISH GULCH	Low	Moderate	Moderate
287-E5	(FDR) UPPER IRISH GULCH	Low	Moderate	Moderate
287-E6	(FDR) UPPER IRISH GULCH	Low	Moderate	Moderate
287-E7	(FDR) UPPER IRISH GULCH	Low	Moderate	Moderate
287-E8	(FDR) UPPER IRISH GULCH	Low	Moderate	Moderate
287-E9	(FDR) UPPER IRISH GULCH	Low	Moderate	Moderate
287-F3	(FDR) BELT DIVIDE	Low	Moderate	Moderate
287-F4	(FDR) BELT DIVIDE	Low	Moderate	Moderate
287-G1	(FDR) O NEIL	Low	Moderate	Moderate
287-G2	(FDR) O NEIL	Low	Moderate	Moderate
287-H1	(FDR) O NEIL	Low	Moderate	Moderate
287-I1	(FDR) O NEIL	Low	Moderate	Moderate
293-B1	(FDR) ALLICE CREEK MINE	Low	Moderate	Moderate
293-D1		Low	Moderate	Moderate
293-E1		Low	Moderate	Moderate
298-A1	(FDR) HOGBACK MOUNTAIN	Low	Moderate	Moderate
298-A2	(FDR) HOGBACK MOUNTAIN	Low	Moderate	Moderate
299-E1		Low	Moderate	Moderate
299-F2		Low	Moderate	Moderate
299-F3		Low	Moderate	Moderate
314-E2	(FDR) WEST ELLISTON CREEK SPUR	Low	Moderate	Moderate
314-J5	LOWER NORTH TROUT CRK SP J5	Low	Moderate	Moderate
329-E1	(FDR) DALTON-LAST CHANCE	Low	Moderate	Moderate
329-G1	(FDR) EAST FORK WILLOW CREEK	Low	Moderate	Moderate
329-H1	FINN H1	Low	Moderate	Moderate
329-I1	FINN I1	Low	Moderate	Moderate
329-J2	FINN J2	Low	Moderate	Moderate
330	(FDR) COPPER CREEK	Low	Moderate	Moderate

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
330-A1	(FDR) COPPER SNOWBANK SPUR	Low	Moderate	Moderate
330-B1	(FDR) COTTER CREEK	Low	Moderate	Moderate
330-C1	(FDR) COPPER BOTTOM	Low	Moderate	Moderate
330-C2	SILVER KING	Low	Moderate	Moderate
330-D1	COPPER D1	Low	Moderate	Moderate
330-E1	SILVER KING E1	Low	Moderate	Moderate
330-F1	SILVER KING-F1	Low	Moderate	Moderate
330-G1	COPPER G1	Low	Moderate	Moderate
359-A1	FDR	Low	Moderate	Moderate
383-B2	(FDR) LITTLE CAMAS #3	Low	Moderate	Moderate
383-B3	(FDR)	Low	Moderate	Moderate
383-B4	(FDR)	Low	Moderate	Moderate
383-C1	(FDR) CAMAS RIDGE	Low	Moderate	Moderate
383-C2	(FDR)	Low	Moderate	Moderate
383-C3	(FDR)	Low	Moderate	Moderate
383-C4	(FDR)	Low	Moderate	Moderate
383-C5	(FDR)	Low	Moderate	Moderate
383-C6	(FDR)	Low	Moderate	Moderate
383-C7	(FDR)	Low	Moderate	Moderate
383-C8	(FDR)	Low	Moderate	Moderate
383-D1	(FDR) BIG CAMAS EXTENSION	Low	Moderate	Moderate
383-D2	(FDR) LITTLE CAMAS RIDGE	Low	Moderate	Moderate
383-D3	(FDR)	Low	Moderate	Moderate
383-E1	(FDR) CAMAS GIPSY	Low	Moderate	Moderate
383-H1	(FDR)	Low	Moderate	Moderate
397	(FDR) DRY RANGE	Low	Moderate	Moderate
397-A1	(FDR) ASHFORD SPRING	Low	Moderate	Moderate
397-B1	(FDR) NORTH FORK DRY BEAVER CR	Low	Moderate	Moderate
397-B2	DRY RANGE B2	Low	Moderate	Moderate
397-C1	(FDR) WEANING CORRAL SPRING	Low	Moderate	Moderate
397-D1	(FDR) SINKHOLE	Low	Moderate	Moderate
397-E1	(FDR) MIDDLE FK ELLIS CANYON	Low	Moderate	Moderate
397-F1	(FDR) DRY RANGE RIDGE	Low	Moderate	Moderate
397-F2	(FDR) DEN GULCH SPRING	Low	Moderate	Moderate
397-F3	(FDR) WESTON SPRING	Low	Moderate	Moderate
397-F4	DRY RANGE SPUR F4	Low	Moderate	Moderate
397-F5		Low	Moderate	Moderate

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397-F6	DRY RANGE F6	Low	Moderate	Moderate
397-F8	DRY RANGE F8	Low	Moderate	Moderate
397-G1	DRY RANGE SPUR G1	Low	Moderate	Moderate
397-H1	DRY RANGE SPUR H1	Low	Moderate	Moderate
397-H2	DRY RANGE SPUR H2	Low	Moderate	Moderate
397-I1	DRY RANGE SPUR I1	Low	Moderate	Moderate
397-J1	DRY RANGE SPUR J1	Low	Moderate	Moderate
4001	(FDR) BEAR TRAP	Low	Moderate	Moderate
4001-A1		Low	Moderate	Moderate
4001-A2		Low	Moderate	Moderate
4004	(FDR) PIKE GULCH CAMPGROUND	Low	Moderate	Moderate
4005-C1	(FDR) LOGAN GULCH	Low	Moderate	Moderate
4005-D1	(FDR) PAULY	Low	Moderate	Moderate
4005-E1	(FDR) SAWMILL GULCH	Low	Moderate	Moderate
4005-E2		Low	Moderate	Moderate
4009-B3	(FDR) FROHNER MINE SPUR1	Low	Moderate	Moderate
4009-C1	(FDR) STRAWBERRY	Low	Moderate	Moderate
4009-E1	(FDR) LITTLE CORRAL 1	Low	Moderate	Moderate
4009-F1	(FDR) FROHNER MINE SPUR F1	Low	Moderate	Moderate
4009-G1	(FDR) FROHNER MEADOW G1	Low	Moderate	Moderate
4011	(FDR) TIZER LAKES	Low	Moderate	Moderate
4015	(FDR) PARK LAKE CPGD	Low	Moderate	Moderate
4016	(FDR) MIDDLE FORK WARM SPRINGS	Low	Moderate	Moderate
4023	(FDR) MICRO-WAVE	Low	Moderate	Moderate
4032	(FDR) BULLOCK HILL LOOP	Low	Moderate	Moderate
4032-E1	(FDR) CALAHAN MINE	Low	Moderate	Moderate
4032-F1	BULLOCK HILL LOOP SPUR F1	Low	Moderate	Moderate
4032-G1	BULLOCK HILL LOOP SPUR G1	Low	Moderate	Moderate
4032-H1	BULLOCK HILL LOOP SPUR H1	Low	Moderate	Moderate
4032-I1	BULLOCK HILL LOOP SPUR I1	Low	Moderate	Moderate
4036	(FDR) LEFT FORK DRY GULCH	Low	Moderate	Moderate
4036-A1	(FDR) RIGHT HAND FK DRY GULCH	Low	Moderate	Moderate
4037-E1	BEAR TRAP SPUR E1	Low	Moderate	Moderate
4038-A1	(FDR) DEADMAN	Low	Moderate	Moderate
4038-A4	(FDR) DEADMAN SPUR #4	Low	Moderate	Moderate
4038-C2	UPPER DEADMAN C2	Low	Moderate	Moderate
4038-D1	(FDR) UPPER DEADMAN	Low	Moderate	Moderate

		Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
Road ID	Road Name			
4038-E1	(FDR) UPPER DEADMAN	Low	Moderate	Moderate
4038-F2	UPPER DEADMAN F2	Low	Moderate	Moderate
4038-G1	UPPER DEADMAN G1	Low	Moderate	Moderate
		Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
Road ID	Road Name			
4038-H1	UPPER DEADMAN H1	Low	Moderate	Moderate
4041	(FDR) CARL CREEK	Low	Moderate	Moderate
4042	(FDR) SKIDWAY CAMPGROUND	Low	Moderate	Moderate
4042-A1	(FDR) SKIDWAY EXTENSION	Low	Moderate	Moderate
4044	(FDR) NORTH CAVE DIVIDE	Low	Moderate	Moderate
4044-B1	(FDR) NORTH CAVE DIVIDE #2	Low	Moderate	Moderate
4045	(FDR) OPHIR CAVE	Low	Moderate	Moderate
4045-A1	(FDR) OPHIR SPRINGS	Low	Moderate	Moderate
4045-B1	(FDR) OPHIR CAVE #1	Low	Moderate	Moderate
4045-C1	(FDR) OPHIR CREEK #2	Low	Moderate	Moderate
4045-D1	OPHIR D1	Low	Moderate	Moderate
4045-D2	OPHIR D2	Low	Moderate	Moderate
4046	(FDR) KADING CPGD	Low	Moderate	Moderate
4050	(FDR) NORTH POORMAN CREEK #1	Low	Moderate	Moderate
4080-A1	CADOTTE PASS SPUR A1	Low	Moderate	Moderate
4080-B1	CADOTTE B1	Low	Moderate	Moderate
4088-A1	(FDR) TRAIL CONNECTION	Low	Moderate	Moderate
4089	(FDR) SOUTH FORK DEARBORN	Low	Moderate	Moderate
4090-C1	ROGERS PASS C1	Low	Moderate	Moderate
4100	(FDR) GOLDEN ANCHOR MINE	Low	Moderate	Moderate
4100-B1	(FDR) MILL-ANCHOR	Low	Moderate	Moderate
4104	(FDR) MONARCH	Low	Moderate	Moderate
4104-A1	(FDR) BISON MOUNTAIN	Low	Moderate	Moderate
4104-A2	(FDR) BISON MOUNTAIN	Low	Moderate	Moderate
4106-B1	(FDR) BEAVER CREEK	Low	Moderate	Moderate
4106-C1	(FDR) YUKON CREEK	Low	Moderate	Moderate

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4106-D1	(FDR) UPPER ARRASTRA	Low	Moderate	Moderate
4106-E1	(FDR) UPPER ARRASTRA	Low	Moderate	Moderate
4106-H1	(FDR) UPPER ARRASTRA	Low	Moderate	Moderate
4106-H2	ARRASTRA H2	Low	Moderate	Moderate
4106-H3		Low	Moderate	Moderate
4106-J1	ARRASTRA J1	Low	Moderate	Moderate
4106-J2	ARRASTRA J2	Low	Moderate	Moderate
4106-J3	ARRASTRA J3	Low	Moderate	Moderate
4106-K1	ARRASTRA K1	Low	Moderate	Moderate
4106-L1	ARRASTRA L1	Low	Moderate	Moderate
4106-M1	ARRASTRA M1	Low	Moderate	Moderate
4106-N1		Low	Moderate	Moderate
4106-O1	MEADOW CREEK TRAILHEAD	Low	Moderate	Moderate
4108-D1	(FDR) WEST FLESHER SPUR	Low	Moderate	Moderate
4110	(FDR) TIZER GUARD STA	Low	Moderate	Moderate
4118	(FDR) GROUSE RIDGE	Low	Moderate	Moderate
4118-A1	(FDR) UPPER GROUSE RIDGE	Low	Moderate	Moderate
4118-A2	(FDR) UPPER GROUSE RIDGE SPUR	Low	Moderate	Moderate
4118-A3	(FDR) UPPER GROUSE RIDGE SPUR	Low	Moderate	Moderate
4118-A4	(FDR) UPPER GROUSE RIDGE SPUR	Low	Moderate	Moderate
4118-A5	(FDR) UPPER GROUSE RIDGE SPUR	Low	Moderate	Moderate
4118-B1	(FDR) ROCKY BOWMAN	Low	Moderate	Moderate
4118-C1	(FDR) GROUSE RIDGE EXTENSION	Low	Moderate	Moderate
4119	(FDR) HIDDEN VALLEY	Low	Moderate	Moderate
4119-A1	(FDR) HIDDEN VALLEY SPUR #1	Low	Moderate	Moderate
4119-B1	(FDR) HIDDEN VALLEY SPUR #2	Low	Moderate	Moderate
4119-B2	(FDR) HIDDEN VALLEY SPUR #3	Low	Moderate	Moderate
4119-C1	(FDR) HIDDEN VALLEY SPUR #4	Low	Moderate	Moderate
4119-D1	(FDR) HIDDEN VALLEY SPUR #5	Low	Moderate	Moderate
4119-D2	(FDR) HIDDEN VALLEY SPUR #6	Low	Moderate	Moderate
4119-D3		Low	Moderate	Moderate
4119-E1	(FDR) HIDDEN VALLEY SPUR #7	Low	Moderate	Moderate
4119-F1	(FDR) HIDDEN VALLEY SPUR #8	Low	Moderate	Moderate
4119-G1	(FDR) HIDDEN VALLEY SPUR #9	Low	Moderate	Moderate
4119-G2	(FDR) HIDDEN VALLEY SPUR #10	Low	Moderate	Moderate
4123-A1	(FDR) MCHENNY	Low	Moderate	Moderate
4124	(FDR) SHAW ROAD	Low	Moderate	Moderate

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4129	(FDR) HAY CR	Low	Moderate	Moderate
4129-A1		Low	Moderate	Moderate
4129-B1		Low	Moderate	Moderate
4131	(FDR) COPPER CR CPGD	Low	Moderate	Moderate
4133	(FDR) GRANITE BUTTE	Low	Moderate	Moderate
4134-A1	NEVADA MTN A1	Low	Moderate	Moderate
4134-B1	GRANITE BUTTE	Low	Moderate	Moderate
4135-B1	FINN B1	Low	Moderate	Moderate
4137	(FDR) BEAR TRAP	Low	Moderate	Moderate
4141-B2	KELLY GULCH SPUR	Low	Moderate	Moderate
4143	(FDR) JIM BALL BASIN	Low	Moderate	Moderate
4143-A1	(FDR) JIM BALL SPUR	Low	Moderate	Moderate
4143-A2	(FDR) JIM BALL SPUR	Low	Moderate	Moderate
4145	(FDR) DEEP-RUSSELL	Low	Moderate	Moderate
4146	(FDR) OLD DEEP CREEK	Low	Moderate	Moderate
4149	(FDR) INDIAN FLATS CABIN	Low	Moderate	Moderate
4161-C3	(FDR) CAMP ROAD	Low	Moderate	Moderate
4161-C4	(FDR) CAMP ROAD	Low	Moderate	Moderate
4161-D1	(FDR) CAMP ROAD SPUR	Low	Moderate	Moderate
4161-F1	(FDR) ROCKER CR.	Low	Moderate	Moderate
4161-G1	(FDR) NO. FK. CAMPBELL CR.	Low	Moderate	Moderate
4161-G2	(FDR)	Low	Moderate	Moderate
4161-G3	(FDR)	Low	Moderate	Moderate
4161-H1	(FDR) HEREFORD GULCH	Low	Moderate	Moderate
4161-I1	(FDR)	Low	Moderate	Moderate
4161-J1	(FDR)	Low	Moderate	Moderate
4161-K1	(FDR)	Low	Moderate	Moderate
4164	(FDR) JOSEPHINE SPUR	Low	Moderate	Moderate
4170	(FDR) DIAMOND	Low	Moderate	Moderate
4171-A1	(FDR) DIAMOND #1	Low	Moderate	Moderate
4171-B1	(FDR) BLACKTAIL #1	Low	Moderate	Moderate
4171-C1	(FDR) BLACKTAIL #2	Low	Moderate	Moderate
4171-C2	(FDR) BLACKTAIL	Low	Moderate	Moderate
4171-C3		Low	Moderate	Moderate
4171-D1	(FDR) BLACKTAIL-SLOUGH	Low	Moderate	Moderate
4171-D2	(FDR) BLACKTAIL	Low	Moderate	Moderate
4171-E1	(FDR) BLACKTAIL-SLOUGH	Low	Moderate	Moderate

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4171-G1	BLACKTAIL SPUR G1	Low	Moderate	Moderate
4171-G2	BLACKTAIL SPUR G2	Low	Moderate	Moderate
4171-G3		Low	Moderate	Moderate
4178-A2	(FDR) RAY CR.-HOLLOWAY	Low	Moderate	Moderate
4178-B1	(FDR) HOLLOWAY LOGGING #3	Low	Moderate	Moderate
4178-E2	RAY CREEK SPUR E2	Low	Moderate	Moderate
4178-F1	(FDR) SLUMP	Low	Moderate	Moderate
4178-G1	(FDR) SO. BALDY EXTENSION	Low	Moderate	Moderate
4178-J2		Low	Moderate	Moderate
4179-A2	(FDR) PERKINS	Low	Moderate	Moderate
4181-B1	(FDR) WEST CABIN	Low	Moderate	Moderate
4190-D1	(FDR) CEDAR BAR TRAILHEAD	Low	Moderate	Moderate
4190-D2		Low	Moderate	Moderate
4193	(FDR) TIMBER CREEK	Low	Moderate	Moderate
4193-A1	(C) TIMBER CREEK SPUR #1	Low	Moderate	Moderate
4193-B1	(C) TIMBER CREEK SPUR #2	Low	Moderate	Moderate
4197	(FDR) MACDONALD PASS VISTA	Low	Moderate	Moderate
423-A1	(FDR) EAST FORK CONNECTION	Low	Moderate	Moderate
423-B1	(FDR) SOUTH CABIN	Low	Moderate	Moderate
423-B2		Low	Moderate	Moderate
423-B3	SOUTH CABIN SPUR B3	Low	Moderate	Moderate
423-D1	(FDR) RUSSELL FORK	Low	Moderate	Moderate
423-E1	(FDR) UPPER CABIN	Low	Moderate	Moderate
423-F1	(FDR) GRANGER-NORTH FORK	Low	Moderate	Moderate
423-F2	(FDR) EDITH LAKE TRAILHEAD	Low	Moderate	Moderate
423-F3	COY SPUR F3	Low	Moderate	Moderate
423-F4	COY SPUR F4	Low	Moderate	Moderate
423-I1	(FDR) NO. FK. DEEP CR. SPUR	Low	Moderate	Moderate
423-J1	(FDR) NORTH FORK	Low	Moderate	Moderate
423-J2	(FDR) UPPER CABIN	Low	Moderate	Moderate
423-J3		Low	Moderate	Moderate
423-K1	(FDR) NO. FK. DEEP CR. STUB	Low	Moderate	Moderate
423-K2	COY SPUR K2	Low	Moderate	Moderate
423-L1	(FDR) CABIN LOGGING	Low	Moderate	Moderate
423-L2	COY SPUR L2	Low	Moderate	Moderate
423-L3	COY SPUR L3	Low	Moderate	Moderate
423-M1	(FDR) NORTH FORK DEEP CREEK	Low	Moderate	Moderate

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423-N1	(FDR) COY	Low	Moderate	Moderate
423-N2	(FDR) HOLLOWAY STUB	Low	Moderate	Moderate
423-O1	COY SPUR O1	Low	Moderate	Moderate
423-O2	COY SPUR O2	Low	Moderate	Moderate
423-O3	COY SPUR O3	Low	Moderate	Moderate
423-O4	COY SPUR O4	Low	Moderate	Moderate
423-P1		Low	Moderate	Moderate
425-A2	(FDR) COXCY GULCH	Low	Moderate	Moderate
425-C1	(FDR) NEVER SWEAT GULCH	Low	Moderate	Moderate
425-C2	(FDR) NEVER SWEAT GULCH	Low	Moderate	Moderate
425-D1	(FDR) GROUSE CREEK	Low	Moderate	Moderate
425-D2	(FDR) GROUSE CREEK SPUR 2	Low	Moderate	Moderate
425-D3	(FDR) GROUSE CREEK SPUR 3	Low	Moderate	Moderate
425-E1	(FDR) MAGPIE RIDGE	Low	Moderate	Moderate
425-E10	(FDR) MAGPIE RIDGE	Low	Moderate	Moderate
425-E2	(FDR) MAGPIE RIDGE	Low	Moderate	Moderate
425-E3	(FDR) MAGPIE RIDGE	Low	Moderate	Moderate
425-E4	(FDR) MAGPIE RIDGE SPUR	Low	Moderate	Moderate
425-E5	(FDR) MAGPIE RIDGE SPUR	Low	Moderate	Moderate
425-E6	(FDR) MAGPIE RIDGE SPUR	Low	Moderate	Moderate
425-E7	(FDR) MAGPIE RIDGE SPUR	Low	Moderate	Moderate
425-E8	(FDR) MAGPIE RIDGE SPUR	Low	Moderate	Moderate
425-E9	(FDR) MAGPIE RIDGE SPUR	Low	Moderate	Moderate
425-F1	(FDR) OLD MAGPIE SLUMP	Low	Moderate	Moderate
425-G1	(FDR) GROUSE CREEK	Low	Moderate	Moderate
425-G10	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G2	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G3	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G4	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G5	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G6	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G7	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G8	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-G9	(FDR) GROUSE CREEK SPUR	Low	Moderate	Moderate
425-H1	(FDR) MAGPIE-HELLGATE	Low	Moderate	Moderate
425-H2	(FDR) MAGPIE-HELLGATE	Low	Moderate	Moderate
425-H3	(FDR) MAGPIE-HELLGATE	Low	Moderate	Moderate

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
425-H4	(FDR) MAGPIE-HELLGATE	Low	Moderate	Moderate
425-I1	(FDR) MAGPIE-HELLGATE	Low	Moderate	Moderate
425-I2	(FDR) MAGPIE-HELLGATE	Low	Moderate	Moderate
425-J1	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J10	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J11	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J12	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J13	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J14	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J15	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J2	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J3	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J4	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J5	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J6	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J7	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J8	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-J9	(FDR) SUNSHINE RIDGE	Low	Moderate	Moderate
425-K1	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-K2	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-L1	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-L2	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-M1	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-N1	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-N2	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-P1	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-P2	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-R1	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-R2	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-R3	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-R4	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-S1	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
425-S2	(FDR) SUNSHINE CONNECTION	Low	Moderate	Moderate
483-A1	(FDR) CAMAS GIPSY	Low	Moderate	Moderate
483-B1		Low	Moderate	Moderate
483-B2	GIPSY LAKE	Low	Moderate	Moderate
483-B3	GIPSY CAMAS SPUR B3	Low	Moderate	Moderate

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
483-B4	GIPSY CAMAS SPUR B4	Low	Moderate	Moderate
483-C1		Low	Moderate	Moderate
485-A1	(FDR) MIDDLE DAVIS GULCH	Low	Moderate	Moderate
485-B1	(FDR) UPPER DAVIS GULCH	Low	Moderate	Moderate
485-C1	(FDR) CAN-O-GOLD	Low	Moderate	Moderate
485-C2	(FDR) CAN-O-GOLD	Low	Moderate	Moderate
485-H1	SWEDE GULCH H1	Low	Moderate	Moderate
485-H4	SWEDE GULCH H4	Low	Moderate	Moderate
485-H5	SWEDE GULCH H5	Low	Moderate	Moderate
485-I1	GRANITE BUTTE	Low	Moderate	Moderate
495-A1	(FDR) TELEGRAPH CREEK SPUR	Low	Moderate	Moderate
495-A3		Low	Moderate	Moderate
495-B1	(FDR) JERICHO CREEK	Low	Moderate	Moderate
495-C1	(FDR) NEWMANS CAMP	Low	Moderate	Moderate
495-C2	(FDR) NEWMANS MINE	Low	Moderate	Moderate
495-C3		Low	Moderate	Moderate
495-C4		Low	Moderate	Moderate
495-D1	(FDR) HARD LUCK MINE	Low	Moderate	Moderate
495-F1		Low	Moderate	Moderate
495-F2		Low	Moderate	Moderate
495-F3		Low	Moderate	Moderate
495-G1		Low	Moderate	Moderate
525-A1		Low	Moderate	Moderate
527	(FDR) MINNEHAHA	Low	Moderate	Moderate
527-A1	(FDR) LILY ORPHAN BOY MINE	Low	Moderate	Moderate
527-A2	(FDR) SURE THING MINE	Low	Moderate	Moderate
527-B1	(FDR) BEATRICE MINE	Low	Moderate	Moderate
527-C1	(FDR) MINNEHAHA SPUR	Low	Moderate	Moderate
571-A1	(FDR) POWELL SPUR	Low	Moderate	Moderate
571-A2	POWELL SPUR A2	Low	Moderate	Moderate
571-A3	POWELL SPUR A3	Low	Moderate	Moderate
571-A4	POWELL SPUR A4	Low	Moderate	Moderate
571-B1	(FDR) REIERSON STUB	Low	Moderate	Moderate
571-C1	(FDR) UNCLE BEN	Low	Moderate	Moderate
571-D1		Low	Moderate	Moderate
571-E1	GREENHORN E1	Low	Moderate	Moderate
571-F1	GREENHORN F1	Low	Moderate	Moderate

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
583-C1	(FDR) GRASSY FACE	Low	Moderate	Moderate
583-D1	(FDR) FAULKNER CREEK	Low	Moderate	Moderate
583-E1	(FDR) HAY CREEK	Low	Moderate	Moderate
583-E2		Low	Moderate	Moderate
583-E3		Low	Moderate	Moderate
583-F1	(FDR) RIDGE-FLYNN	Low	Moderate	Moderate
583-I3	MCHENRY LOGGING SPUR I3	Low	Moderate	Moderate
583-J1	GRASSY MTN SPUR J1	Low	Moderate	Moderate
583-K1	GRASSY MTN SPUR K1	Low	Moderate	Moderate
583-L1		Low	Moderate	Moderate
587-C2	(FDR) BEAVER DAM GULCH	Low	Moderate	Moderate
587-C3	(FDR) BEAVER DAM GULCH	Low	Moderate	Moderate
587-D1	(FDR) BEAVER DAM GULCH	Low	Moderate	Moderate
587-E1	(FDR) HOUR GULCH	Low	Moderate	Moderate
601-B1		Low	Moderate	Moderate
601-D1		Low	Moderate	Moderate
601-E1		Low	Moderate	Moderate
601-F1		Low	Moderate	Moderate
601-G1		Low	Moderate	Moderate
601-H2		Low	Moderate	Moderate
601-J1		Low	Moderate	Moderate
601-K1		Low	Moderate	Moderate
607-F2	(FDR) STONEWALL CREEK SPUR	Low	Moderate	Moderate
620	(FDR)	Low	Moderate	Moderate
621-H1	(FDR) SWAMP CREEK-SPRING CREEK	Low	Moderate	Moderate
622	(FDR) GREENHORN MOUNTAIN	Low	Moderate	Moderate
622-A1	(FDR) GREENHORN	Low	Moderate	Moderate
622-C1	(FDR) GREENHORN	Low	Moderate	Moderate
622-D1	(FDR) GREENHORN	Low	Moderate	Moderate
622-E1	GREENHORN E1	Low	Moderate	Moderate
622-E2	GREENHORN E2	Low	Moderate	Moderate
622-E3	(FDR) GREENHORN	Low	Moderate	Moderate
622-G1	GREENHORN G1	Low	Moderate	Moderate
626	(FDR) LINCOLN GULCH	Low	Moderate	Moderate
626-A1	(FDR) OLD LINCOLN CEMETARY	Low	Moderate	Moderate
626-B1	(FDR) OLD LINCOLN GULCH	Low	Moderate	Moderate
626-C1	MOOSE NORTH C1	Low	Moderate	Moderate

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
626-C2	MOOSE NORTH C2	Low	Moderate	Moderate
626-D1	MOOSE NORTH D1	Low	Moderate	Moderate
690	(FDR) BLUEBIRD MINE	Low	Moderate	Moderate
690-A1	(FDR) BETWEEN GULCH	Low	Moderate	Moderate
690-B1	(FDR) MINA GULCH	Low	Moderate	Moderate
690-C1	(FDR) BLUEBIRD	Low	Moderate	Moderate
692-B1		Low	Moderate	Moderate
693-A1	(FDR) FISHER GULCH	Low	Moderate	Moderate
708-I1	(FDR) ESMERALDA HILL	Low	Moderate	Moderate
771	(FDR) RED CREEK	Low	Moderate	Moderate
771-A1	(FDR) COPPER CAMP	Low	Moderate	Moderate
771-A2	(FDR) COPPER CAMP SPUR	Low	Moderate	Moderate
771-B1	(FDR) COPPER CREEK CLIMB	Low	Moderate	Moderate
774-A2	DEADMAN EXT A2	Low	Moderate	Moderate
774-B1	COTTONWOOD GULCH SPUR B1	Low	Moderate	Moderate
8968	(FDR) OHIO GULCH	Low	Moderate	Moderate
8968-A1	(FDR) OHIO GULCH SPUR	Low	Moderate	Moderate
8968-A2	(FDR) OHIO GULCH SPUR	Low	Moderate	Moderate
8968-A3	(FDR) OHIO GULCH SPUR	Low	Moderate	Moderate
8968-A4	(FDR) OHIO GULCH SPUR	Low	Moderate	Moderate
8968-A5	(FDR) OHIO GULCH SPUR	Low	Moderate	Moderate
8968-A6	(FDR) OHIO GULCH SPUR	Low	Moderate	Moderate
8968-A7	(FDR) OHIO GULCH SPUR	Low	Moderate	Moderate
8968-B1	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B10	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B11	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B2	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B3	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B4	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B5	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B6	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B7	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B8	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-B9	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-C1	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-C2	(FDR) OHIO DIVIDE	Low	Moderate	Moderate
8968-C3	(FDR) OHIO DIVIDE	Low	Moderate	Moderate

Road ID	Road Name	Elk Winter Range Concerns (Portion of Road thru winter range & portion of road not fully closed during winter period)	Elk Road Density Concerns (Probability of exceeding Forest Plan road density standard)	Elk Composite Score (Equal to the higher of the two previous columns)
8969-C1	(FDR)	Low	Moderate	Moderate
8976	(FDR) ELLIS CANYON	Low	Moderate	Moderate
8976-A1	(FDR) ELLIS CANYON SPUR	Low	Moderate	Moderate
8976-B1	(FDR) WEST FORK ELLIS CANYON	Low	Moderate	Moderate
8976-C1	(FDR) HAY STACK SPRINGS	Low	Moderate	Moderate

Lynx

Lynx were chosen as parameter primarily because winter use of roads (e.g. snowmobiles) has been identified in the Lynx Conservation and Assessment Strategy (LCAS) as an area of potential concern. Plowed and groomed over-the-snow routes may allow competing predators access into areas traditionally used only by lynx. Furthermore the LCAS provides guidelines for maintaining low overall open road densities in lynx habitat. While preliminary information suggests that lynx may not avoid roads, few data actually exist to verify this determination.

The standards and guidelines relative to lynx and open roads is found in the LCAS and currently is not a part of our Forest Plan. Forest Plans across Region 1 are being amended to incorporate components of the LCAS. The LCAS represents the best available information on lynx management. The standard relative to lynx and winter use of roads is as follows:

On federal lands in lynx habitat, allow no net increase in groomed or designated over-the-snow routes and snowmobile play areas by LAU (lynx analysis unit).

The guideline relative to overall road densities states the following:

Determine where high total road densities (>2 miles per square mile) coincide with lynx habitat, and prioritize roads for seasonal restrictions or reclamation in those areas.

Definitions

The definitions for open and closed roads are the same as for elk as pertains to winter use of roads in lynx habitat. A road is considered **open** if it receives any form of motorized traffic (e.g. snowmobile) on any portion of the road segment between December 1 and May 14. Snowmobile use of open roads in winter in lynx habitat is not quantified. Rather it is assumed that if a road is open during the winter it may receive some snowmobile use. So for the purposes of this analysis the open roads during winter are considered a snow compacting activity. This includes all road levels.

Overall road densities outside of the winter season are identified as any road that is open at any time during the year. This includes only road levels 2-5 because level 1 are assumed closed to motorized traffic. However, Level 1 roads may receive winter use and as such are included in the winter analysis. This portion of the analysis focuses on maximum road densities outside of the winter season.

The Process

Open and closed roads were mapped within lynx habitat within each lynx analysis unit (LAU) relative to winter use. A summary of the number of open and closed road miles by LAU was calculated in order to develop a basic understanding of the extent to which each individual LAU is populated by open roads and to develop priorities for closures or replacements relative to the no net increase standard.

Overall road densities by LAU were calculated to provide a framework from which the LCAS guideline identified above might be measured. As mentioned in the definitions only road maintenance levels 2-5 (described elsewhere) were used for this calculation. This reflects potential maximum open road densities outside of the winter season.

Risk Parameters and Rating

The risk parameter relative to snowmobile use and compaction in lynx habitat during the winter is whether there are open roads during winter in lynx habitat or not. It is recognized that snow compacting activities may increase the access of competitors into lynx winter habitat. However, there are no scientific data to corroborate conclusions to this effect. Therefore if there are any open roads during wintertime in lynx habitat, a risk rating of moderate is assigned to the respective LAU. If there are no open roads a risk rating of low is assigned (same rationale as for elk). Snowmobile play areas are not included in the analysis.

The risk parameter relative to overall open road densities outside of the winter season is based on the guideline identified above and has a similar rationale as the snowmobile rating. Because this measurement is a guideline and because there is no conclusive evidence that roads displace lynx there is no compelling reason to identify a high-risk rating. Therefore the risk rating is as follows:

Road densities less than or equal to 2 mi/mi^2 = low risk rating
Road densities greater than 2 mi/mi^2 = moderate risk rating

Results

Table 3 summarizes the number of open and closed roads during wintertime in lynx habitat (*See column labeled 'Number of Miles Open Road During Winter'*). These roads may receive some level of snowmobile use.

Appendix E, Table 3 Summary Of Open/Closed Road Miles By LAU Between December 1 And May 14

Lynx Analysis Unit	Number of Miles Open Road During Winter	Risk Rating	Road Density During Non-Winter Season	Risk Rating	Composite Lynx Risk Rating
BB-02	19.0	Moderate	0.77	Low	Moderate
BB-03	50.0	Moderate	1.34	Low	Moderate
BB-04	22.2	Moderate	0.64	Low	Moderate
BB-05	13.9	Moderate	0.62	Low	Moderate
BL-01*	No Data	Low	No Data	Low	Low
BL-02*	No Data	Low	No Data	Low	Low
BL-03*	No Data	Low	No Data	Low	Low
BL-04	5.0	Moderate	0.24	Low	Moderate
BL-05	5.1	Moderate	0.15	Low	Moderate
BL-06	22.2	Moderate	1.13	Low	Moderate
BL-07	30.1	Moderate	0.99	Low	Moderate
BL-08	41.5	Moderate	0.53	Low	Moderate
BL-09	21.0	Moderate	0.80	Low	Moderate
BL-10	54.4	Moderate	1.88	Low	Moderate
BL-11	25.0	Moderate	1.07	Low	Moderate
BL-12	13.0	Moderate	0.67	Low	Moderate
BL-13	15.1	Moderate	1.89	Low	Moderate
BL-14	29.0	Moderate	1.49	Low	Moderate
BL-15	5.3	Moderate	0.26	Low	Moderate
DI-01	13.3	Moderate	0.34	Low	Moderate
DI-02	28.6	Moderate	1.37	Low	Moderate
DI-03	24.6	Moderate	0.47	Low	Moderate
DI-04	55.6	Moderate	1.36	Low	Moderate
DI-05	29.3	Moderate	0.96	Low	Moderate
DI-06	29.1	Moderate	1.02	Low	Moderate
DR-01	0.2	Moderate	2.0	Low	Moderate
EL-01	6.5	Moderate	0.33	Low	Moderate
EL-02	1.9	Moderate	0.25	Low	Moderate
EL-03	10.5	Moderate	0.39	Low	Moderate

**No road information because these LAUs are in the Scapegoat Wilderness*

Most of the LAUs received a moderate risk rating. The spatial arrangement of the above data is not reflected. In some LAUs open roads are concentrated in one section while in others the open roads are consistently distributed across the LAU. This spatial arrangement will influence the ability of other animals in lynx habitat to compete with lynx. The information generated above will also be useful in monitoring the no net increase standard for snowmobiles. All of the LAUs received a low risk rating relative to the road density during the non-winter season. The composite lynx risk rating was derived as it was for the composite elk risk rating. The higher of the two risk ratings from 'Number of Miles Open Road During Winter' and 'Road Density During Non-Winter Season' was used for the composite rating.

Grizzly Bear

The grizzly bear was chosen as a parameter because roads, particularly open roads, can be very impactful to grizzlies. The standards and guidelines relative to the risk rating for grizzly bears are a combination of Forest Plan standards and guidelines/recommendations developed by the Interagency Grizzly Bear Committee (IGBC) as refined by the Northern Continental Divide Ecosystem (NCDE) subcommittee. The Forest Plan standard relative to grizzly bears and road densities is as follows:

In occupied³ grizzly habitat, to minimize man-caused mortality the open road density will not exceed the 1980 density of 0.55 miles per square mile, which has determined to have little effect on habitat capability.

The NCDE recommendation for road management in the grizzly bear recovery zone is based on research conducted by Montana Fish, Wildlife, and Parks (FWP). Their conclusions indicated that grizzly bears avoided areas where open road densities exceeded 1 mi/mi² and total road densities exceeded 2 mi/mi². For the purposes of this analysis, only the open road density is used as a parameter against which to measure risk. Anything greater than the open road density is considered a high risk that automatically captures the 2-mile recommendation.

Definitions

The definition for an open road for the purposes of this analysis is based on that described by the IGBC since this reflects the most current available information on grizzly bears. According to the IGBC, an open road is ‘a road without restriction on motorized vehicle use’.

The Process

Open roads were mapped within grizzly bear subunits. All road levels (1-5) were used for this analysis since some level 1 roads still receive motorized use. Those level 1 roads that had yearlong restrictions on all motorized use were not included in the overall calculation of open road density.

Risk Parameters and Rating

The risk parameter and rating for grizzly bears relative to road densities is a combination of the Forest Plan standard and the NCDE recommendations. Because the Forest Plan identified a road density lower than NCDE recommendations it was used as a threshold to describe moderate risks to grizzlies. The open road density of 1 mi/mi² as identified through FWP research was used as an upper threshold against which to measure high risk to grizzly bears. As such, the ratings are as follows:

Less than 0.55 mi/mi² = low risk rating
 0.55 to 1 mi/mi² = moderate risk rating
 Greater than 1 mi/mi² = high risk rating

³ Occupied grizzly habitat coincides with recovery zone boundaries.

Results

Table 4 summarizes road densities and overall risk rating to grizzly bears by grizzly bear subunits. As indicated, there are no high-risk grizzly bear subunits.

Appendix E, Table 4 Summary Of Road Densities And Risk Ratings By Grizzly Bear Subunit

Grizzly Bear Subunit	Road Density	Risk Rating
Arrastra Mountain	0.69 mi/mi ²	Moderate
Red Mountain	0.81 mi/mi ²	Moderate
Alice Creek	0.25mi/mi ²	Low

ACCESS RATING CRITERIA

Private Access:

The road system provides access to many different types of landowners and a wide variety of special use permits such as municipal water facilities, power lines, rock sources, communications sites, grazing allotments, mining operations, cabin lease sites, etc. Some roads are included in cost share agreements. When a road provides the only access to private property, the Forest Service is obligated to provide reasonable access to that property so this need must be considered in the roads analysis process. Listed below are qualitative ratings that can be assigned for each road.

Low = Road does not contribute in any way for access to non-Forest Service land or special use permit sites and is not included in a cost share agreement.

Medium = Road serves as an alternative access to non-Forest Service managed land or special use permit site and is not included in a cost share agreement.

High = Road serves as the primary access to non-Forest Service managed land, special use permit site or is part of a cost share agreement.

Public Access:

This factor is based upon the extent of public use by passenger cars, motor homes, pickups, and etc. on higher standard roads during the snow-free months. Roads are rated on the type and amount of human uses that the road serves such as developed or dispersed recreation. Listed below are qualitative ratings that can be assigned to each road.

Very Low = 0 – 5 vehicles per day. Road receives only incidental use, may be closed all or part of the year or a permit may be required to use the road.

Low = 6 – 20 vehicles per day. Road is a low use road and not the primary route for accessing a general Forest area. The road may be a single purpose road or may be used only during one or two months of the year.

Medium = 21 – 40 vehicles per day. Road serves as an alternate route to smaller, less used developed sites or provides access to less popular dispersed sites. The road is used most of the year.

High = > 40 vehicles per day. Road provides the primary access for more than one developed site or popular dispersed recreation area or the road is a loop road that receives heavy use by recreationists driving for pleasure. The road is used during the snow-free period of the year and may be used by snowmobiles during the winter season.

Administrative Site Access:

This factor is based on the extent of Forest Service use for access to administrative sites, rock sources, heritage sites, fire lookouts, repeater sites, weather stations, snotel sites, water sources, etc. and roads that are classified as arterial roads. Listed below is a qualitative rating that can be evaluated for each road.

Low = Road does not contribute in any way to access to Forest Service administrative sites and is not classified as an arterial road.

Medium = Road provides an alternate access route to Forest Service administrative sites and is not classified as an arterial road.

High = Road is an arterial route or is not classified as an arterial route but provides the primary access to Forest Service administrative sites.

Access Composite Rating:

A composite rating of low, moderate or high is assigned to each road for access factors based upon the following criteria:

Low = A qualitative rating comprised of at least two low ratings and no high rating.

Medium = A qualitative rating composed of no more than one high rating.

High = A qualitative rating composed of at least two high ratings.

FISHERIES RATING CRITERIA

In the early stages of the Roads Analysis there were discussions among the fishery personnel over the means used to assess risk various road segments posed to fish. An early approach to rate risk was developed by the Forest Fish Biologist (March 25, 2002 Draft). The March 25th approach was discussed in depth with the district fish biologists and at that time it was thought that it might be adequate to assess risk to fish only at the 6th code hydrologic unit level. A 2nd Draft (April 20, 2003) on approaches to be used was developed for review and discussion among the fishery personnel. Additional discussion with the Roads Analysis Team Leader indicated that there was a need to assign risk to fisheries by road segment. Consequently an e-mail from the Forest Fish biologist to the district biologists dated 5/7/02 documents the need to assess risk to fish by road segment rather than just by watershed. The May 7, 2002 e-mail also included the following means of assessing the risk the various road segments pose to fisheries. These criteria were **suggested guidance** to the district biologists and were adjusted somewhat as is detailed later in this memo.

1. In a 6th code HU assigned a high risk to fish, any road segment that gets flagged with either high or moderate risk from the hydrology review also receives a high risk for fish. Road segments flagged as low risk to watershed also receive a low risk for fish
2. In a 6th code HU assigned a moderate risk for fish any road segments receiving a high watershed risk rating receive a high fish risk. Road segments with moderate watershed risk ratings also receive moderate fish risk ratings. Road segments with a low risk rating for watershed also receive low risk rating for fish.
3. In a 6th code hydrologic unit with a low risk assessment for fish, road segments receiving a high risk from watershed perspective are assigned a moderate rating for fish. Road segments with a moderate or low rating for watershed receive a low rating for fish

After further review and discussion among the fisheries personnel the criteria used to make the fishery risk calls by road segment are detailed below and are taken from a June 20th e-mail. These final adjustments were used forest wide. However, a critical step in completing the assessment entailed the assignment of a fish/watershed risk for each of the watersheds delineated by the hydrologist since the watersheds used by hydrology did not match up with the 6th code hydrologic units. The forest fish biologist went through the watersheds as depicted by the forest hydrologist and assigned a fish/watershed rating using the April 20th draft criteria along with ratings for the various watersheds developed by hydrology personnel. The integrated fish/watershed risk ratings were modified by on the ground knowledge when appropriate. Once the fish watershed ratings had been completed the assessment by road segment could begin and was accomplished using the criteria below.

For road segments in watersheds having a fish/watershed call of high

1. If there is 0.5 mile of road within the RHCA or greater and one or more road crossings then the fish risk rating for the road segment is high.

2. If there is less than 0.5 mile of total road in the RHCA and one or less road crossings then the fish risk rating is moderate.
3. With less than 0.5 mile of road with in the RHCA and 2 or more crossings then the fish risk rating is high.

The fish rating for a road segment only drops to low in a watershed with a fish/watershed call of high when the district bio had on the ground information that indicates the road is not a problem.

For road segments in watersheds having a fish/watershed call of moderate

For watersheds with a moderate fish/watershed call and a watershed road segment call of moderate the overall fish risk rating remains moderate and will only go to high if there is site specific knowledge indicating the road has serious problems.

With a NA (not applicable) for total road in RHCAs and no stream crossings then the fish rating will drop down one measure from the fish/watershed call. (From High to moderate or from moderate to low)

If the calls are close for any combination of reasons the biologist considered both the fish/watershed rating and the road rating from the hydrologist to make a call.

(Documented: Len Walch, Forest Fish Biologist. February 27, 2003)

WATERSHED AND ROADS RISK RATING PROCESS

General Discussion

There are 2,199 miles of forest road on the Helena National Forest comprised of 1,622 different road segments. Of these roads 579 miles are maintenance level 1; 983 miles maintenance level 2; 383 miles maintenance level 3; 226 miles maintenance level 4; 11 miles maintenance level 5; and 18 miles decommissioned.

Of these roads there are 197 (101 miles) that are in slide prone soils; 588 (517 miles) in erosive soils; 940 (545 miles) in Riparian Habitat Conservation areas; 396 (247 miles) in wet soil types; and there are 1,954 road water intersects or interactions (some of these are stream crossing and some are merely where the road and stream are next to each other so as to cause an intersection on the GIS layers). There are 565 roads (650 miles) in watersheds that have a TMDL and there are 73 roads (93 miles) in municipal watersheds. The basic parametrics of sum, average, median, maximum, minimum and count are presented in the ratings spreadsheet under each of these categories.

Rationale for Road Risk Ratings for Water

I relied heavily on the road-stream intersections (stream crossings or roads adjacent to streams) in combination with other factors such as erosive soils or miles of stream in the Riparian Habitat Conservation Area. For example, I gave high-risk ratings where there were at least 0.33 miles in landslide prone soils and at least 3 stream-road intersections; I gave the same rating if there were 0.5 miles in erosive soils, 0.58 miles in RHCA's, and at least 3 stream-road intersections. I also gave high ratings if there were at least 0.36 miles in wet soil areas and areas highlighted in two other categories, and I also gave a high if there were at least 0.33 miles in landslide prone areas and 0.58 miles in the RHCA or 0.36 miles in wet soil types. These cutoff numbers either represent the median or the average for a category, whichever I felt was more appropriate. There were of course exceptions to the rule. If any one particular area had a high rating (such as 1.5 miles in landslide prone soils) but nothing else rated high I still gave it a high-risk rating. This of course is a GIS exercise and discrepancies on the ground are expected. I have gone over the ratings several times and each time I tend to change a few, but overall, forest wide, the total picture did not change much.

As it turned out there were 206 (12.7%) road segments that received a high rating, which accounted for 912 (41.5%) miles of road. This is a low percentage of the number of roads but a high percentage of the total miles. Maintenance level 3, 4 and 5 roads amounted to 469 miles of the 912 total. This is a very high percentage of these roads (70%, 84%, and 82% respectively) which is to be expected since these are major roads that tend to go up the bottom of drainages.

Moderate ratings were those that had at least one high rating in one of the categories but not necessarily in any others. There were 359 (22.1%) road segments that received this rating which accounted for 525 (23.9%) road miles. Some of these could easily have been rated high and some could have been rated low. If you were to use different criteria they would fall out differently. For example, if the soil scientist were to do the ratings, she may place more emphasis on the

landslide prone soils and the erosive soils and tend to give some of the segments that I called moderate a high rating, and there will no doubt be some that were rated low that receive a moderate or high rating. Fisheries, on the other hand may place a greater emphasis on roads within RHCA's especially if there are bull trout or west slope cutthroat present.

All other roads received a low rating. They may present a problem for other resources however, such as wildlife or non-motorized recreation, but do not present a problem in terms of the water resource. There is the tendency when reviewing these ratings to point to a favorite road segment and note that the rating should be different. This may be true and that is why this all needs to be reviewed by someone that really knows the roads on the ground. This was a GIS exercise in which I tried to sort through 462,854 fields of data and give a rating to 1,622 road segments. I am positive after going through this at least 4 times that certain road segments would receive different rating if done again. As the saying goes, "get three hydrologists together and you will get at least four opinions". I am also certain that the overall forest wide picture will probably not change all that much. It is important to keep scale in mind when doing this. If there is disagreement on a particular road segment it is important to keep in mind that there 1,621 other road segments.

Rationale for Watershed Ratings

The rationale for rating watersheds was similar to that of individual roads except the emphasis was on road densities within the watersheds, miles of road in RHCA's, and the number of road/stream interactions per watershed. Road densities above 2.45 miles per square mile were considered high. Densities between 1.01 and 2.44 were considered moderate. Road miles in RHCA's above 3.4 were considered high. Those between 1.4 and 3.3 were considered moderate. Road stream interactions 10 and above were considered high and those between 4 and 9 were considered moderate.

Those watersheds with high ratings in two or more categories received a high rating overall for the watershed. Those watersheds with just one high rating and one or two moderate ratings received a moderate rating overall. Those with moderate ratings in all categories also received a moderate rating. Different criteria could be used to place in the various risk ratings, but this was an attempt to separate out and distinguish the watersheds that were most at risk. There may indeed, and in fact are, problems in watersheds that received a moderate and low rating.

This has resulted in 44 watersheds that were rated high risk, 36 that were rated moderate and 108 that were rated low.

WEEDS RATING PROCESS

Roads provide suitable seedbeds on which many weed species become established and from which they spread onto adjacent lands but they also provide access for treating weed infestations. All of the classified roads were evaluated as to whether they have weed species established on them and a “Yes” or “No” was entered into the “Weeds Present” column in Appendix B, Table 4. Each road was also evaluated as to whether it was needed for weed treating activities. In determining the need for a road for access to treat weeds, basically two situations were considered: 1) If the road prism and/or its right of way have weeds established on them and, 2) If the road provides access to areas where weed infestations are established or becoming established. If the infested roads or areas could not be efficiently and effectively treated without utilizing the road, the “Weed Treatment Access Need” column was marked with a Yes.

SAFETY CONCERNS RATING PROCESS

Inventory information and local knowledge of the roads was utilized in rating safety concerns for the Forest road system. Each road was given a rating of low, moderate or high based on a judgment call by an engineer utilizing the best information available at the time. Roads that were believed to have more serious safety problems (undercut running surface, severely weakened bridges, undermined culverts, etc.) were rated as having a high safety concern.

FINANCIAL RATING PROCESS

The cost of annual maintenance and deferred maintenance was estimated for each road (cost per mile). These costs were then used to rate the road as high, medium or low according to the following criteria:

Appendix E, Table 5 Maintenance Costs

Maintenance Level	Annual Maintenance				Deferred Maintenance		
	Low	Medium	High		Low	Medium	High
ML 1&2	\$250<	\$250-\$500	>\$500		\$750<	\$750-\$1,500	>\$1,500
ML 3,4&5	\$3,000	\$3,000-\$15,000	>\$15,000		\$20,000	\$20,000-\$100,000	>\$100,000

FIRE AND FUELS NEEDS RATING PROCESS

Criteria for determining the Low, Moderate and High use for the Roads Analysis purpose of the Fire/Fuel Needs are as follows;

High Rating

- **Fire Frequency-**
Roads in fire regimes with high fire frequency-i.e. every 5-25 years are rated as high need.
Is this road needed for future fuels management? i.e. dry types vs. those in 100+ yr. return intervals.
Roads in a ponderosa pine or dry Douglas fir types would receive a higher value than a road in lodge pole for example.
- **Values at Risk-**
Firefighter safety, is the road part of an escape route?
Are there Cultural/Historical sites present?
Roads in Municipal watersheds.
Roads leading to high recreation use areas.
Areas where a large fire will cause detrimental damage to threatened and endangered species.
- **Public Safety (Urban Interface)-**
Are there structures along the road or does road end at a structure?
Roads in urban interface areas were rated higher than those that don't access urban areas.
- **Geographical Location of road-**
Roads that lie on ridgelines would receive higher values-based on access and contingency planning.
A route that has many spurs but the main route has the best access, would receive the higher rating than the spurs that leave the main route.
Need to think of the defensibility of the road system as far as large fire suppression strategy and tactics.
Roads that are the only access within a mile or more.
Access to fire camp or heli-base locations.

Moderate Rating

- **Fire Frequency-**
Roads in fire regimes with moderate fire frequency-i.e. every 25-100 years are rated as moderate need.
Is this road needed for future fuels management? i.e. dry types vs. those in 100+ yr. return intervals.
Roads in a ponderosa pine or dry Douglas fir types would receive a higher value than a road in lodge pole for example.
- **Values at Risk-**
Firefighter safety, the area has adequate safety zones.
Roads leading to moderate recreation use areas.

- **Geographical Location of road-**

Roads that lie on mid-slope would receive moderate values-based on access and contingency planning.

Need to think of the defensibility of the road system as far as large fire suppression strategy and tactics.

Roads that are the only access up to a mile.

Low Rating

- **Fire Frequency-**

Roads in fire regimes with low fire frequency-i.e. every 100+ years are rated as low need.

- **Values at Risk-**

Firefighter safety, the area has adequate safety zones.

Roads leading to low recreation use areas.

- **Geographical Location of road-**

Roads that lie on the mid-slope would receive low values-based on access and contingency planning.

Need to think of the defensibility of the road system as far as large fire suppression strategy and tactics.

Roads that have other access within a mile.

TIMBER ACCESS NEEDS RATING

The initial road analysis for timber access was completed. The existing roads, which access timber emphasis management areas, were evaluated for future access needs. At this level of analysis, all roads accessing timber emphasis management areas were identified as a need for future access of these areas.

It was recognized, in some instances (less than 10%), more than one road segment exists to access the same area. Actual determination of which roads would not be needed is dependent on site visits to the ground. Hence, these road segments will be evaluated with a site-specific analysis and access roads will be evaluated as the project level analysis is completed.