APPENDICES

APPENDIX A

SOIL EROSION HAZARD BY ALLOTMENT

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0001	Pearl Individual	40	0	0
0002	Pickle Butte	80	0	0
0003	Jerusalem	11,699	11,465	98
0004	Bissell Creek	6,004	4,575	76
0005	Big Willow Creek	28,093	20,227	72
0006	Sheep Creek Com.	12,493	6,650	53
0007	Tommy Carr	4,927	3,320	67
0008	Field	445	174	39
0009	Butte Ranch	2,609	1,487	57
0010	Chacartegui	2,120	185	9
0011	Round Valley	18	0	0
0012	Armacost Individual	530	406	77
0013	Wildhorse	4,679	4,575	98
0014	Lower Allotment	360	360	100
0015	Goodrich Individual	200	0	0
0016	Goodrich Com.	5,261	4,511	86
0017	County Line	80	0	0
0018	Ball Individual	80	80	100
0019	Sheep Gulch	969	548	56
0020	Barker Individual	500	380	76
0021	Basin Individual	1,248	259	21
0022	Beal Individual	80	0	0
0023	Bean Individual	131	0	0
0024	Beggs Individual	121	70	58
0025	Bettis FFR	786	786	100
0027	Bezates Individual	360	280	78
0028	Stillwell Individual	200	200	100
0029	Biggers Individual	320	0	0
0030	West Side	1,741	1,206	69
0031	Biggers	77	0	0
0032	Randall	2,140	2,140	100
0033	Camp Creek	203	203	100
0034	Bilbao Individual	60	60	100
0035	Black Canyon Individual	850	605	71
0036	Bivens Individual	471	290	61
0037	Brownlee	1,455	1,395	96
0038	Blessinger Individual	200	200	100
0039	Bott Individual	537	430	80
0040	Boyd Individual	320	320	100
0041	Granger Butte	2,910	438	15
0042	West Crane Individual	480	0	0
0043	Indian Valley	4,103	1,904	46

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0043	Indian Valley Com.	2,208	840	38
0044	Riley Butte	765	234	30
0045	Branch Individual	1,004	1,004	100
0046	T. Braun Individual	465	240	52
0047	Braun and Bacon Valley	520	0	0
0048	H & R Braun	120	0	0
0050	Rudger	280	0	0
0051	Brent Individual	110	110	100
0052	M. Brent Individual	240	240	100
0053	Burkhardt Individual	280	280	100
0054	Burt Individual	40	0	0
0055	Burton Individual	439	0	0
0056	Busch Individual	1,701	958	56
0057	Butler and Perkins	360	218	60
0058	Sweet	80	80	100
0059	Minnie	4,707	2,606	55
0060	West Crane	8,459	1,008	12
0061	R. Cada Individual	255	0	0
0062	Lower Crane	2,034	1,049	51
0062	Lower Crane Com.	1,931	247	13
0063	GT. Cada Individual	1,076	450	42
0064	Canaday Individual	237	237	100
0065	McMahan Ranch	40	40	100
0066	Carr Individual	190	176	93
0067	Mitchell Individual	40	0	0
0068	Chandler Individual	360	360	100
0069	Chestesen	810	675	83
0070	Clarkson Individual	120	120	100
0071	McFadden	620	0	0
0072	Clelland	200	200	100
0073	Coates FFR	80	80	100
0074	Cove Creek	2,455	775	31
0075	Coates A & R Individual	240	240	100
0076	Fruitvale	1,000	1,000	100
0077	Craig Individual	280	0	0
0078	Frisbee	40	0	0
0079	Fruitvale Glenn	40	40	100
0080	J. Craig Individual	690	0	0
0081	West Individual Allotment	837	405	48
0082	Cambridge	520	157	30
0083	Cruickshank Individual	815	360	44
0084	Dahnke	320	320	100
0085	Cove Springs	40	0	0
0086	Darnell Individual	80	80	100
0087	Webb Creek FFR	290	10	3
0088	Round Valley FFR	80	0	0
0089	Squaw Butte	2,686	1,563	58

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0090	Gambril Individual	120	120	100
0092	East Garden Valley	2,352	2,352	100
0093	Dickerson Individual	40	40	100
0094	Dishner Individual	40	0	0
0095	Horse Flat	4,147	3,242	78
0096	Dotson	120	40	33
0097	Dunham Individual	40	0	0
0098	Eakin Individual	118	0	0
0099	Emery Individual	1,742	1,742	100
0100	Brownlee	1,932	1,776	92
0101	Sage Creek	1,664	500	30
0102	New Bold	200	30	15
0103	Farrens	40	0	0
0104	Big Willow FFR	809	663	82
0105	Fisk Individual	160	160	100
0106	Indian Creek	501	449	89
0107	Indian Creek Com.	204	104	51
0108	Ford	80	80	100
0109	Long Gulch	2,210	1,548	67
0110	Frasier Individual	343	343	100
0111	Uhlam	160	108	67
0112	Gallant Individual	320	60	19
0113	Justus FFR	320	192	60
0114	Gatfield Individual	199	190	95
0115	Packer John	2,907	2,907	100
0116	Patterson & Goodwin	3,516	3,516	100
0120	Gossard Individual	423	423	100
0121	Gould Individual	160	0	0
0122	Leep Individual	656	656	100
0123	Greenwood Individual	160	92	57
0124	Gutherie Individual	40	0	0
0125	Dechambean Individual	461	461	100
0126	Hadley Individual	200	200	100
0127	Hagans Individual A	40	40	100
0128	Hagans Individual B	120	120	100
0129	Hale Individual	120	0	0
0130	Gross	221	221	100
0131	D. Harrington Individual	760	750	99
0132	Home Ranch	187	187	100
0133	Lake Ranch	980	545	55
0134	J. Harrington Individual	200	200	100
0135	Dad Harrington	200	113	56
0136	Kenny Ridge	40	40	100
0137	Hayshed	40	0	0
0138	L & J Harrington	240	240	100
0139	Lower Field	1,562	1,562	100
0140	Upper Field	474	326	69

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0141	Helmick Individual	237	100	42
0142	Wolf Creek	1,630	970	59
0143	Herrick FFR	40	0	0
0144	Higgins Individual	160	0	0
0145	Scott Creek	3,220	3,055	95
0146	Hoffman Individual	200	0	0
0147	Holbrook Individual	257	30	12
0148	Indian Mtn. Com.	732	234	32
0149	Holmes Individual	80	0	0
0150	Hopper Creek	382	0	0
0151	Deer Creek	80	0	0
0152	Hornet Creek	681	163	24
0153	Horning Individual	40	0	0
0154	North	642	55	8
0155	South	980	152	15
0156	Upper Ranch	240	240	100
0157	Hubbard Individual	40	0	0
0158	Jackson Creek	1,514	1,049	69
0159	Isom	1,000	440	44
0160	Jacobs Individual	40	0	0
0161	Goodrich Individual	240	240	100
0162	Johannsen Individual	360	173	48
0163	Kaufman Individual	68	0	0
0164	Keithley Individual	1,507	388	26
0165	J. Keithley	920	423	46
0166	Kennedy Individual	68	0	0
0167	Kilborn Individual	160	160	100
0168	Klingback Individual	80	50	62
0169	Langer Individual	200	0	0
0170	Little Jackson	2,650	2,650	100
0171	A. Legg Individual	40	0	0
0172	P. Legg Individual	40	40	100
0173	Line Individual	40	0	0
0175	Black Canyon Fenced	80	0	0
0176	Black Canyon	4,540	2,050	45
0177	Big Flat	722	300	41
0178	Paddy Flat	840	840	100
0179	Lyle Individual	683	525	77
0180	M. C. & M. Individual	105	46	44
0181	Black Canyon Ranch	1,333	1,140	85
0182	Soldier Creek Ranch	44	0	0
0183	Cabarton Ranch	85	0	0
0184	Siller Ranch	208	175	84
0185	Maddox Individual	50	18	36
0186	Mainvil Individual	95	55	58
0187	Marvin Individual	735	185	25
0188	West Side (South)	1,055	564	53

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0189	McCool Individual	1,320	627	47
0191	Linson Creek	5,629	4,756	84
0193	McGinnis Individual	23	0	0
0194	McMullen	7,121	7,120	100
0195	Syme-Moser River	422	422	100
0196	McPherson Individual	240	240	100
0197	Meinikheim Individual	195	195	100
0198	Meyer Individual	120	40	33
0199	Hays	80	0	0
0200	Advent Gulch	119	0	0
0201	Mitchell Individual	180	0	0
0202	Lund	370	370	100
0203	Sage Creek	2,246	1,662	74
0204	Dennet & Stover	859	448	52
0205	Crane Creek	1,312	655	50
0206	D. Moritz Individual	361	45	12
0207	Henley Basin	3,196	2,956	92
0208	Sage Creek	4,028	3,177	79
0209	Burroughs	2,457	351	14
0210	Montour Individual	217	57	26
0211	Nissula Individual	243	233	96
0212	Nissula Individual	240	240	100
0213	Osborn Individual	321	321	100
0214	Palmer Individual	430	0	0
0215	Parks Individual	558	478	86
0216	Patton	560	372	66
0217	Peebles	319	187	58
0218	Perkins Individual	120	0	0
0219	Peterson Individual	555	555	100
0220	Potter Individual	158	72	45
0221	Pound Individual	2,184	1,137	52
0222	Pratt Individual	152	130	85
0223	Putnam Individual	720	461	64
0224	Ranny Individual	523	170	32
0225	Indian Head Mtn.	1,468	1,468	100
0227	Ryals Individual	80	80	100
0228	Sagebrush Hill	880	880	100
0229	Stait	329	0	0
0230	Tarter	790	230	29
0231	Schlehuber Individual	563	146	26
0232	Schmeller Individual	1,240	100	8
0233	Hopper Creek	2,650	583	22
0234	Mrs. Seid Individual	775	29	4
0235	Pine	2,029	27	1
0236	Middle Fork	480	480	100
0237	Black Canyon (Shaw)	10,438	6,311	60
0238	Simplot Cattle Co.	320	0	0

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0239	Simplot Industries	40	40	100
0240	Clipper Flat	1,239	593	48
0241	Sister Individual	40	40	100
0242	Roy Slyter	160	160	100
0243	Rocky Ridge	725	725	100
0244	Smith Individual Allotment	100	100	100
0246	Smith Black Canyon	580	485	84
0247	Wilson Individual	159	159	100
0248	Hashagen Individual	560	520	93
0249	Sturgill Creek	6,421	6,421	100
0250	Squaw Creek	120	0	0
0252	Willow Creek	200	0	0
0253	Butte Field	708	642	91
0254	Sand Hollow	5,160	4,562	88
0255	Sutten Individual	40	0	0
0256	Sutten Ranches Individual	80	0	0
0257	Thomason Individual	40	0	0
0258	Thompson	280	83	29
0259	Towell	120	0	0
0260	Crane Creek Individual	643	0	0
0261	Twin Sisters	3,067	1,267	41
0262	Vogel & Ogle Individual	160	0	0
0263	Waite Individual	120	0	0
0264	Walker Individual	160	160	100
0265	Watson Individual	30	30	100
0266	Montour Individual	316	197	62
0267	Alder Creek Individual	991	991	100
0268	Weiser Sheep Company	1,439	744	52
0269	Wells Individual	120	0	0
0270	Whiteman Individual	200	200	100
0271	Williams-Fairchild	1,006	60	6
0272	Williamson	160	50	31
0273	Perkins Creek	340	340	100
0274	Winegar Individual	120	120	100
0275	Woodland Individual	770	770	100
0276	Lindsay Individual	200	200	100
0278	Spring Valley	7,687	6,995	91
0279	Black Canyon	3,380	2,364	70
0280	Lick Creek	10,097	8,986	89
0284	Spring Creek	7,811	2,600	33
0286	Deardorff Individual	120	0	0
0287	Stippich Pasture	319	0	0
0288	Double Diamond	80	80	100
0289	Porter Creek	80	0	0
0290	North Hornet	230	230	100
0291	Hornet Creek	120	40	33
0292	D. Moritz Individual	120	120	100

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0293	North Fork FFR	440	0	0
0294	U-Bar-M FFR	571	571	100
0295	Little Willow	3,193	2,960	93
0297	Wet Gulch	40	40	100
0298	X5	897	302	34
0299	Cox FFR	120	120	100
0300	WRR Individual	40	0	0
0301	Holland Gulch	4,114	1,643	40
0302	Weiser Cove	380	380	100
0303	Skow FFR	40	40	0
0304	Center Allotment	4,030	1,124	28
0306	Big Creek	560	320	57
0307	Dry Lake	1,360	400	29
0308	Sky Ranch Individual	111	0	0
0309	Boise Front	5,837	5,837	100
0310	Black Canyon	16,770	9,223	55
0311	No Unit	5,208	5,208	100
0312	Bannister Basin	2,073	2,013	97
0313	Fenwick Place	80	80	100
0314	Bingman	40	40	100
0315	Terteling	40	40	100
0350	Lucky Peak	164	164	100
0352	Stephens Individual	399	53	13
0355	Robert Royston Individual	475	475	100
0356	Roberts Individual	40	40	100
0361	Crane Creek Allotment	9,804	4,154	42
0362	Foothills	7,798	5,532	71
0363	Drake Individual	270	270	100
0364	Wiskey Rapids Allotment	316	316	100
0365	Old Craig Allotment	320	0	0
0366	Staley Allotment	201	60	30
0367	Minnie Snyder FFR	175	175	100
0368	Rock Creek FFR	3,677	3,603	98
0369	McChard Butte	6,693	6,653	99
0370	Upper	15,474	8,820	63
0371	Callender Individual	296	260	88
0372	Warm Springs	233	90	38
0373	Williams Individual	338	338	100
0374	1000 Acre Field	100	100	100
0375	Gibson Allotment	120	0	0
0376	Fry Individual	92	0	0
0377	Dennet Creek FFR	770	770	100
0378	Lower Raft Creek	2,120	2,120	100
0379	Upper Raft Creek FFR	245	245	100
0380	Mineral	951	951	100
0381	Cow Camp	243	243	100
0382	Beef Trap	985	985	100

Allotment #	Allotment Name	Public Land Acres	Acres with High or Very High Hazard	Percent of Allotment
0383	Forsgren Individual	40	0	0
0384	Jenkins Creek	2,109	2,029	96
0385	Putnam Custodial	40	40	100
0386	White Butte Allotment	466	0	0
0387	Individual	80	40	50
0388	Pedro & Upper Wolf	205	120	58
0389	Long Hollow Field	1,628	1,331	82
0390	Fenced Federal Range	726	540	74
0391	Little Emmett Allotment	24,323	6,809	28
0392	Fenced Federal Range	180	38	21
0393	Indian Jake	17,224	8,004	46
0396	Bivens Purchase	200	160	80
1278	Quartzburg	2,179	2,179	100
0388	Fenced Federal Range	120	60	50
	TOTAL	*464,920	295,972	64

* Note that these are totals for alloted acres only and therefore do not equal total acres for the RMP area.

APPENDIX B

ACTIONS AFFECTING SOILS*

Action	Alt. A	Alt. B	Alt. C	Alt. D	Alt. E
Rangeland Improvements:					
Livestock - Seed, burn, disc or spray over 20 yrs (acres)	0	23,400	13,000	31,000	24,279
Pipelines (miles)	6	12	6	36	15
Wildlife - Burn, disc and seed over 20 yrs (acres)	0	7,672	6,802	8,295	8,295
Livestock Use 20 yrs (AUMs)	66,014	71,076	53,543	76,613	70,538
Timber Harvest 20 yrs:					
Roads Built (miles)	40	68	20	116	68
Annual Cut (MMBF)	1.0	1.7	0.5	2.9	1.7
ORV Use (acres):					
Open	362,892	339,552	3,276	3,276	244,118
Limited	123,989	147,329	481,620	481,615	241,215
Closed	585	585	2,570	2,575	2,133
Mineral Exploration and Development:					
Leasable open (acres)	456,289	456,289	454,389	456,289	456,289
Locatable open (acres)	456,289	456,281	452,586	454,486	456,281
Agricultural Transfer (acres)	560	560	0	560	560

* The impacts caused by land use actions are discussed in the narratives of the alternatives. This table indicates the area affected by the action.

APPENDIX C

MAPPING RANGELAND VEGETATION USING LANDSAT MSS DIGITAL DATA FOR RESOURCE MANAGEMENT PLANNING

William R. Rush
Bureau of Land Management
3948 Development Avenue
Boise, Idaho 83705

Stephen M. Howard
Idaho Dept. of Water Resources, IIAF
450 West State Street
Boise, Idaho 83702

William D. Harrison
Soil Conservation Service
304 North 8th Street, Room 345
Boise, Idaho 83702

ABSTRACT

The objective of this project was to produce usable map products showing present rangeland vegetative communities based on Landsat MSS digital analysis and appropriate ancillary data. These products have provided the Bureau of Land Management, Cascade Resource Area (CRA) staff with a base inventory for the CRA Resource Management Plan and Environmental Impact Statement (RMP/EIS). They have also provided the Soil Conservation Service (SCS) with an inventory of private rangeland within BLM grazing allotments. Of particular interest was the ability of Landsat spectral data to distinguish non-native homogeneous stands of medusahead grass (*Elymus caputmedusae*) and cheatgrass brome (*Bromus tectorum*) from native plant communities. This project represents a cooperative interagency effort to generate uniform vegetation cover data at least possible cost.

INTRODUCTION

The Bureau of Land Management (BLM) resource inventory process is structured in a manner that meets legislative and policy requirements. It provides decisionmakers with the information necessary to make sound land-use and resource management decisions. Inventory data provides the factual basis for development of Resource Management Plans (RMP's). The Federal Land Policy and Management Act of 1976 states that inventories be maintained, on a continuing basis, of all public lands. These inventories are to be kept current to reflect changes in conditions and to identify new and emerging resource values (FLPMA 1976).

Traditional inventories in the Boise District BLM were conducted by a Resource Inventory Team (RIT). This team consisted of up to twelve resource specialists and was responsible for all inventory work associated with RMP's. The team concept was an effective but costly method of accomplishing

the task. Costs for vegetation inventories alone averaged $.15/acre.* Faced with decreasing budgets and personnel, the Resource Inventory Team disbanded in 1982. Alternative methods to accomplish resource inventories were needed.

A rangeland inventory need existed for the BLM's Cascade Resource Area (CRA) in preparation for their Resource Management Plan. Limited rangeland inventory data existed for the CRA in 1982. A very scattered land ownership pattern and limited access contributed to this lack of current inventory. Some lands in the resource area had never even been visited by BLM personnel.

The use of remote sensing techniques was chosen by the CRA manager as an alternative method for gathering vegetation inventory data. The use of Landsat MSS digital data was available as a tool to accomplish this task. Of particular concern to the CRA manager was the continued proliferation of non-native homogeneous stands of medusahead grass (Elymus caputmedusae) and cheatgrass brome (Bromus tectorum). These two annual grass species encompass the majority of poor condition rangeland in the CRA. The ability of Landsat MSS digital data to distinguish these non-native homogeneous stands from native plant communities was imperative in this inventory effort.

USER REQUIREMENTS

The production of present rangeland vegetation maps based on Landsat MSS digital data was the basic requirement to meet the vegetation inventory needs for the CRA Resource Management Plan. In addition, the USDA Soil Conservation Service (SCS) was interested in using data gathered on private rangelands within BLM allotments for developing conservation plans. The information was planned for use in future SCS-BLM coordinated rangeland planning efforts.

Specialized image processing equipment was needed to process Landsat MSS data. The BLM's Branch of Technology Applications Assistance, at the Denver Service Center, was capable of processing the necessary data. However, due to an existing work schedule and limited personnel, this facility was unable to provide these services in the required timeframe. An alternate remote sensing facility was needed. With the limited funding available for this project, it was necessary that an alternate facility meet the following criteria:

1. Low cost. The contracted facility should benefit from the results and be willing to absorb certain processing costs associated with the project, a true cost share effort.

2. Close proximity. Due to restricted travel funds available for this project, the contracted facility must be close to both the project area and the Boise District Office.

3. Personnel interaction. Past experience has shown that the close interaction of contracted remote sensing facilities and BLM resource personnel is essential for the most effective use of the data.

---

*Average costs from 1977-1981 as reported by Boise District Resource Inventory Team Leader.

4. Computer compatibility. The alternate facility must have a computer hardware/software package capable of interacting with the BLM's Interactive Digital Image Manipulation System (IDIMS) at Denver. This was required for hard copy output.

5. Interagency cooperation. The project was designed to be a cooperative effort and learning experience for all participants. The alternate facility must provide necessary training to BLM personnel to assist in data processing, therefore reducing costs.

IMAGE ANALYSIS FACILITY

The only facility meeting these requirements was the State of Idaho, Department of Water Resources, Idaho Image Analysis Facility (IIAF). It is a complete image processing facility, established by executive order, to service Landsat MSS user needs in the State of Idaho.

The IIAF is located in Boise, Idaho, close to the BLM Boise District Office and the project area. Travel costs were eliminated enabling BLM personnel to participate in data processing on a routine basis. This participation provided a better understanding of the complexity of the project and a more effective use of the output products.

The IIAF supports a suitable hardware/software computer package (VICAR/IBIS) which is compatible with BLM's IDIMS at the Denver Service Center. Computer compatible tapes were produced for hardcopy output. BLM personnel were able to work directly with IIAF personnel for data output. The IIAF was willing to provide all necessary training in the use of the (VICAR/IBIS) image analysis software and the interactive digital image display device. The primary emphasis of the IIAF is technology applications through development and application of operational remote sensing management and assessment programs.

The required data generation would normally cost about $.06/acre to process. The IIAF provided the required data to the BLM for about $.02/acre. The $.04/acre difference was absorbed by the IIAF to enhance its data processing capabilities for future project work. This facility is non-profit by directive.

DESCRIPTION OF THE PROJECT AREA

The CRA supports a diverse environment for a variety of vegetation types. A combination of man's actions, fire history, climate, elevation, aspect, and soil types account for this diversity.

The resource area stretches approximately 120 miles from north to south and 70 miles from east to west. The temperature/moisture regimes associated with this large area account for a variety of vegetation zones. The vegetation zones represented in the CRA include the following:

1. Sage/Grass Zone
2. Wheatgrass/Bluegrass Zone
3. Ponderosa Pine Zone
4. Douglas-Fir Zone
5. Spruce/Fir Zone

Because of the size and diversity of the CRA, it was decided that a sample area would be selected for processing in order to evaluate its usefulness over the entire area. This sample area, or Phase I, encompassed 508,000 acres. Native vegetation is primarily big sagebrush/perennial grass. Average annual precipitation is about 12 inches. About 75% of the soils are formed in residuum, alluvium, and colluvium from tertiary flow basalt and about 25% are formed in residuum, alluvium and colluvium from Pliocene stream and lake deposits. Elevations range from about 2400 feet to 6100 feet.

Of the 508,000 acres, about 350,000 acres are BLM administered public lands. The remaining 158,000 acres are private and state lands.

The limitations on fiscal year budgeting necessitated breaking the project into three distinct phases. Phase 2 and Phase 3, consisting of an additional 500,000 acres of public and private rangeland, were added to the project area after the successful completion of Phase I. The area of each phase was no larger than could easily be field checked in one field season. The Phase 3 classification was budgeted entirely by the SCS.

PROCEDURES

This project represents the operational use of Landsat MSS digital data. The classification techniques and inventory methodology developed as a result of the BLM-NASA Cooperative ASVT projects in Alaska, Arizona, and Idaho were used.

Environmental Stratification

Using geologic maps (1:250,000), the project area was stratified to separate soils derived from igneous and sedimentary parent materials. Agricultural lands were manually interpreted on National High Altitude Aerial Photography (NHAP) and transferred onto 1:100,000 scale maps using a Zoom Transfer Scope (ZTS). The strata were digitized and rasterized into image masks and were used to remove riparian confusion in the classification. Classification output for each geologic strata were treated separately, and the agricultural stratum was embedded into the final classification.

Administrative Stratification

BLM personnel compiled grazing allotment information onto the 1:100,000 scale Surface Management Map Series. Grazing allotment boundaries and BLM administered lands were digitized and converted to raster format. Image masks of grazing allotments by ownerships were created and used in an overlay process with the classified Landsat data. Tabular reports of landcover acreage for BLM and non-BLM lands by grazing allotment were then generated.

Classification of Landsat Data

A guided clustering methodology was employed to generate training statistics. BLM and SCS personnel familiar with the CRA selected training sites using NHAP and a 1:250,000 scale Landsat FCC (path:45 row:29 date:July 17 1980 Id #:82201317514XO). The Landsat MSS data for each training area (50x50 pixels) was clustered and classified into 10-12 spectral classes.

The spectral classes were color coded, displayed, and photographed on a cathode ray tube (CRT). Display photographs and NHAP photography were registered using the ZTS. The delineated photos were taken into the field and each spectral class was labeled and ground checked for:

1. Physiography
2. Elevation
3. Slope %
4. Parent Material
5. Stratum
6. Aspect
7. Species Composition %
8. Range Site
9. Range Condition
10. Surface Stones %
11. Bare Soil %
12. Rock Outcrop %

A master statistics file was compiled from the individual training area statistics files. Spectral plots (band 5 vs. 7) for each training area were overlaid on a light table and the measurement space filled with as many distinct (Swain-Fu distance) spectral classes as possible. In this way a master statistics file containing 57 spectral classes representing 15 vegetation cover types was assembled (number of spectral classes and cover types varied for each phase). The project area was classified using a maximum likelihood decision rule.

The classified data were then resampled and registered to a 57 meter UTM grid. The agricultural stratum was embedded into the classified data and the spectral classes combined into the final output classes.

Continuity Evaluation

Due to time and funding limitations, a statistically designed accuracy assessment of the spectral data could not be conducted. An alternative action to assess the accuracy of the data was developed in the form of a continuity evaluation. This proved most useful in determining the reliability of individual spectral classes within each stratum and for developing land cover descriptions.

Random 40 acre sites were selected for individual spectral classes in each stratum. Each spectral class was evaluated at least twice within each stratum. The sites were transferred to 1:24,000 USGS quads for field verification.

A special "field" form was developed to record information at each site. Land surface feature data recorded included present vegetation, surface soil conditions, rock outcrop or stoniness, slope, aspect, and the probable presence of shadow. Care was taken to ensure that each spectral class was precisely located on the ground prior to documentation.

This data was used to evaluate the composition of each spectral class. As was expected, some spectral classes were very uniform in terms of land cover composition while others showed a wide range in composition. This data was also used to develop land cover descriptions for each spectral class. The actual composition of each description was based on the field data. A range-in-characteristics was developed indicating what could be expected in terms of vegetation and land surface composition within each spectral class.

The documentation of the variability within each spectral class served as the accuracy assessment for the project. Those classes having a wide diversity in land cover feature data were judged to be less accurate than those having a narrower diversity. Those land cover units having a wide diversity in composition were isolated for further analysis.

Output Products

Computer compatible tapes (CCT's) produced through IIAF were sent to the BLM's Denver Service Center. Through the BLM's Interactive Digital Image Manipulation System (IDIMS), hardcopy color maps were produced for the entire project area. In this form, the interpreted data was conveniently input to a geo-based information system. The data was smoothed and output at 1:100,000 scale to correspond to BLM planning base maps. These computer generated maps were used to compile the final rangeland vegetation and condition maps for the CRA Resource Management Plan.

The output products generated in the project include the following:

1. Tabular reports listing authorized grazing allotments showing acreage of vegetation cover types within BLM and non-BLM lands. This simplicity in cover type area determination is an additional cost advantage over manual map interpretation.

2. Color-coded maps (Applicon) of the CRA at 1:100,000 scale showing vegetation cover types.

3. Symbol mylar map overlays (Versatec) for the 7.5 minute topographic maps of the project area at 1:24,000 scale depicting vegetation cover types.

SUMMARY

Map products showing present rangeland vegetation based on Landsat MSS digital analysis have provided the CRA with a base inventory for resource management planning. These computer generated maps were used to compile the final rangeland vegetation and condition maps for the CRA Resource Management Plan and Environmental Impact Statement.

Landsat MSS data was able to easily distinguish and quantify non-native homogeneous stands of medusahead grass (*Elymus caputmedusae*) and cheatgrass brome (*Bromus tectorum*) from other native plant communities. This study has established baseline information for monitoring the changes in the distribution of these two species.

Interagency cooperation reduced traditional inventory costs of about $.15/acre to about $.06/acre. Through the use of a local remote sensing facility, IIAF, uniform vegetation cover data was generated at least cost. This facility, non-profit by law, absorbed some processing costs associated with the project. With a close proximity to the Boise District Office and project area, travel costs were virtually eliminated. The facility provided training to BLM and SCS personnel to assist in data processing which allowed close interaction of remote sensing specialists and professional resource specialists. This interaction is essential for the most effective use of the output products. Computer compatibility between IIAF and the BLM's

Denver Service Center allowed the transfer of CCT's for the production of hardcopy color (Applicon) and mylar symbol (Versatec) maps.

A continuity evaluation was used to assess the accuracy of the image classification. This proved most useful in determining the reliability of the data and for developing land cover class descriptions.

The documentation of the variability within each spectral class served as the accuracy assessment for the project. The successful results of the continuity evaluation required close involvement between the remote sensing analyst, the image data, the field specialists, and the users of the data. The quality of the image classification can only be as good as the quality of the training data and accuracy evaluation used to perform the classification.

The entire project represents a cooperative effort by three agencies to generate uniform vegetation cover data at the least possible cost. The sharing of digital data bases and cooperative efforts are necessary cost saving mechanisms which should be addressed in future Bureau of Land Management remote sensing projects.

REFERENCES

Public Law 94-579, Federal Land Policy and Management Act of 1976, 43 USC 1711 Sec. 201a

Bureau of Land Management, United States Dept. of Interior 1982, Idaho Resource Management Plan Guidebook, pp. 2-13

Bureau of Land Management, United States Dept. of Interior 1983, #1734 Inventory and Monitoring Coordination: Reference Guide To The Inventory Coordination System

Pettinger, Lawrence R. 1982, Digital Classification of Landsat Data for Vegetation and Land-Cover Mapping in the Blackfoot River Watershed, Southeastern Idaho, Geological Survey Professional Paper 1219

APPENDIX D

RANGE CONDITION METHODOLOGY

The inventory of present vegetation in the Cascade Resource Area was begun in 1983. The inventory was based on Landsat Digital Analysis, remote sensing techniques and an intensive field verification effort.

The various vegetation cover types inventoried were combined into the following types:

1. mixed grass
2. sagebrush/mixed grass
3. mountain brush/perennial grass
4. perennial grass/deciduous brush/or riparian
5. conifer/forest brush/perennial grass
6. conifer closed canopy
7. mixed annual grass
8. dense medusahead grass
9. riparian grassland
10. sparse sagebrush/medusahead grass
11. sagebrush/perennial grass

These 11 types were used to produce a present vegetation map for the entire resource area.

Resource specialists used soil types and species composition of the individual vegetation cover types to determine a condition class range within each type.

Range specialists familiar with the Cascade Resource Area used the best available information from range surveys, Landsat, ground checks, and riparian studies to derive a condition class percent by allotment.

Because time and funding restraints precluded the tabulation and assessment of slope and topography effects on total available forage an assumption has been made that the 5-year average demand is the same as the estimated current available forage production. Monitoring and utilization studies will be used to verify the current carrying capacity and/or to establish the need for a change in active demand.

APPENDIX E

RANGE CONDITION

Allotment Number	Allotment Name	Public Land Acres	Estimated Current Production (Pounds)	Pref. Active (AUM's)	Pref. Total (AUM's)	Average License Use (AUM's)	Condition Excel	Good	Fair	Poor	Burn	Seed	Season of Use	Class of Livestock C = Cattle S = Sheep H = Horse	Wild Horses	M Category M = Maintain	I Category I = Improve	C Category C = Custodial	Erosion Hazard Acres High or Very High
1	Pearl Ind.	40.00	42,139	10	10	10				40			4/1-4/30	C				1	0
2	Pickles Butte	1,360.00	1,286,560	142	142	58				1,360			3/1-3/10	S			1		400
3	Jerusalem	11,859.23	6,156,941	1,428	1,428	957		2,909	6,401	2,328			6/1-10/15	C			1		11,465
4	Bissell Creek	6,004.43	4,372,840	1,134	1,134	1,134			2	6,002			1/1-6/30	C			1		4,575
5	Big Willow Cr.	28,093.61	18,780,160	4,700	4,700	3,758		3,433	15,389	8,936			5/1-7/15	C	10		1		20,227
6	Sheep Cr. Comm.	12,492.89	11,072,464	2,103	2,103	1,016		1,550	9,760	1,182			4/15-10/31	C			1		6,650
7	Tommy Carr	4,927.46	4,404,190	781	781	567		196	4,465	266			7/16-10/31	C			1		3,220
8	Succor Hansen Field	445.00	394,416	65	65	65			6	439			4/1-8/31	C				1	174
9	Butte Ranch	2,608.75	1,664,280	20	20	20		33	1,437	1,104			9/1-12/31	C			1		1,487
10	Chacartegui	2,120.00	894,920	175	175	175		13	1,247	740			8/1-12/31	C			1		185
11	Round Valley	17.73	9,486	57	57	0			18				7/1-9/30	C				1	0
12	Araacost Ind.	529.96	475,304	50	50	50		125	340	35			4/1-4/30 11/1-11/30	C		1			406
13	Wildhorse	4,679.01	3,185,976	256	256	254			2,018	182			4/1-5/31	C			1		4,575
14	Lower Allot.	360.00	311,320	59	59	59		19	388	3			5/5-8/12	C				1	369
15	Goodrich Ind.	200.00	105,400	37	37	40	741	1,284	154	46			4/15-6/15	C		1			0
16	Goodrich Comm.	5,261.45	4,612,680	1,117	1,850	1,096	224	1,592	3,290	133			4/1-6/30 10/16-11/15	C			1		4,511
17	County Line	80.00	36,120	9	9	8			70	10			5/16-7/15	C				1	0
18	Ball Ind.	80.00	50,440	14	14	14				80			4/16-9/30	C				1	80
19	Sheep Gulch	969.16	787,720	238	238	224				969			2/1-12/31	C		1			548
20	Barker Ind.	500.00	407,320	96	96	58				500			4/1-11/30	C		1			380
21	Basin Ind.	1,248.02	801,640	245	245	205			295	953			4/1-7/10	C			1		259
22	Beal Ind.	80.00	44,400	12	12	12			80				4/16-5/15	C				1	0
23	Bean Ind.	131.41	123,926	25	25	25			102	29			3/16-12/15	C				1	0
24	Beggs Ind.	120.97	84,548	12	44	12		15	102	4			6/1-6/30	C				1	70
25	Bettis FFR	786.10	672,080	132	132	132				786			4/1-4/30	C				1	786
27	Bezates Ind.	360.00	267,300	70	70	70		56	292	12			4/16-11/15	C				1	280
28	Stillwell Ind.	200.00	151,360	36	36	36				160			4/1-4/30	C				1	200
29	Biggers Ind.	320.00	146,040	30	30	30			132	188			3/1-8/31	C		1			0
30	West Side North	1,741.31	1,837,360	737	921	481		525	863	353			5/1-5/31	C			1		1,206
31	Biggers	76.80	42,735	12	12	12			40	37			4/1-4/30	C				1	0
32	Randall	2,140.00	2,050,100	421	421	364		509	1,622	6			4/15-10/31	C			1		2,140
33	Camp Creek	203.32	146,872	36	36	36		75	120	2			5/1-10/31	C				1	203
34	Bilbao Ind.	60.00	43,410	8	8	8				60			5/1-8/31	C				1	60
35	Black Canyon Ind.	850.32	898,700	152	152	192				850			4/16-6/23	C			1		605
36	Bivens Ind.	470.86	533,320	89	176	141			34	465	26		3/1-3/30	C			1		290
37	Brownlee	1,455.45	1,454,646	330	330	327		100	1,301	54			4/16-8/9	C		1			1,395
38	Blessinger Ind.	200.00	105,400	24	24	25		100	100				7/1-10/15	C				1	200
39	Bott Ind.	536.85	494,952	50	50	51		178	294	8			4/15-6/30	C				1	430
40	Boyd Ind.	320.00	188,196	62	62	62			260	60			4/16-5/15	C				1	320
41	Granger Butte	2,910.38	2,241,560	432	432	427		72	2,626	212			4/2-6/30 10/15-12/10	C		1			438
42	West Crane Ind.	480.00	249,560	95	95	85			322	78			4/1-11/30	C		1			0
43	Indian Valley	4,102.71		793	793	1,562		763	4,789	637			4/10-6/30 10/16-11/15	C			1		1,904
43	Indian Valley Comm	2,208.12	4,382,092	719	719	707							4/15-11/15	C			1		840
44	Riley Butte	765.00	407,440	91	91	90			607	158			4/16-5/15	C		1			234
45	Branch Ind.	1,004.12	592,180	174	174	176		99	379	526			5/1-10/15	C		1			1,004
46	T. Braun Ind.	464.60	268,960	207	207	138		18	411	36			4/1-6/15 11/1-11/30	C		1			240
47	Braun/Bacon Valley	520.00	250,400	105	105	105		4	475	41			4/1-6/15 11/1-11/30	C		1			0
48	M&R Braun	120.00	66,880	30	30	30			87	33			4/1-6/30	C		1			0
50	Rudger	280.00	126,600	53	53	54			183	97			4/15-5/30	C				1	0
51	Brent Ind.	110.00	79,680	22	22	22				110			4/1-5/31	C				1	110
52	M. Brent Ind.	240.00	167,120	43	43	43			2	238			5/1-9/30	C				1	240
53	Burkhardt Ind.	280.00	220,200	32	32	30			90	180			4/16-9/15	C		1			280
54	Burt Ind.	40.00	37,840	4	4	4				40			4/1-5/31	C				1	0
55	Burton Ind.	439.29	204,440	47	47	47			264	165			4/10-6/15	C				1	0
56	Busch Ind.	1,700.81	1,249,400	225	225	219		96	956	649			4/10-6/30	C			1		958
57	Butler & Perkins	360.00	249,480	43	43	43			186	174			4/1-4/30	C		1			218
58	Sweet	80.00	44,400	24	24	24			80				4/1-6/30	C				1	80
59	Minnie	4,706.94	3,133,740	606	606	631		61	2,723	1,206			4/16-10/15	C/S			1		2,606
60	West Crane	8,459.08	4,702,240	1,260	1,659	1,200			5,178	3,281			4/26-9/25	C/S	15		1		1,008
61	R. Cada Ind.	255.18	130,440	35	35	35			136	119			8/12-9/11	C				1	0
62	Lower Crane	2,034.40	1,231,904	271	271	245				2,034			4/18-10/7 11/1-12/31	C			1		1,049
62	Lower Crane Comm.	1,930.56	1,500,520	253	253	174		9	1,802	120			3/1-8/14 10/15-12/12	C			1		247
63	T. Cada Ind.	1,076.40	648,360	83	83	83			793	283			6/16-8/15	C		1			450
64	Canaday Ind.	237.00	105,400	36	36	36			200				6/1-7/31	C		1			237
65	McMahan Ranch	40.00	32,320	9	9	9			35	5			4/1-10/31	C				1	40
66	Carr Ind.	190.00	105,640	34	34	34			82	108			4/16-5/31 11/1-12/15	C				1	176
67	Mitchell Ind.	40.00	14,520	8	8	8			40				4/16-6/15	C				1	0
68	Chandler Ind.	360.00	384,224	60	60	60		95	244	4			5/20-10/19	C				1	360
69	Chrestesen Ind.	810.00	621,320	285	285	285			84	726			4/1-9/30	C				1	675
70	Clarkson Ind.	120.00	113,520	26	26	26				120			4/1-5/31	C				1	120
71	McFadden Ind.	620.00	690,000	89	89	88			571	49			4/16-7/31	C		1			0
72	Clelland	200.00	336,744	41	41	41		60	89	1			4/15-8/15	C/H				1	200
73	Coates FFR	80.00	16,184	16	16	16				80			8/1-9/30	C				1	80
74	Cove Creek	2,455.00	1,323,245	192	192	176			516	1,939			4/1-4/10 6/1-8/31	C/S			1		775
75	Coates A&R Ind.	240.00	129,360	47	47	47				240			5/1-5/31 9/1-11/30	C				1	240
76	Fruitvale	1,000.00	933,032	158	158	130	41	446	391	12			4/10-6/30	C		1			1,000
77	Craig Ind.	280.00		6	6	6			35	5			4/1-10/31	C				1	0
78	Frisbee	40.00	217,280	39	39	39			206	74			6/16-8/15	C				1	0
79	Fruitvale Glenn	40.00	32,880	9	9	9			39	1			4/15-6/1	C				1	40
80	J. Craig Ind.	690.00	312,215	144	144	144			547	143			5/1-5/30	C		1			0
81	West Ind. Allot.	837.09	434,440	126	126	126			750	87			8/21-11/20	C				1	405
82	Cambridge	520.00	275,080	88	88	88		21	406	86			4/15-5/14	S				1	157
83	Cruickshank Ind.	815.00	770,990	113	113	113				815			4/1-5/31	C			1		360
84	Dahnke	320.00	246,220	59	59	59				319	1		4/1-5/15	C				1	320
85	Cove Springs	40.00	14,877	0	0	0				40			4/20-5/19 9/20-11/9	C				1	0
86	Darnell Ind	80.00	44,400	16	16	16				80			4/16-5/15	C				1	80
87	Webb Creek FFR	290.00	210,320	48	48	48			185	105			5/1-5/31	C				1	10
88	Round Valley FFR	80.00	42,160	17	17	0			80				7/1-7/21	C				1	0
89	Squaw Butte	2,686.24	2,589,440	670	670	389		350	1,741	560			5/15-10/10	C			1		1,563
90	Gambril Ind.	120.00	65,800	9	9	10			98	22			4/10-5/31	C				1	120
92	East Garden Valley	2,351.79	1,259,504	374	374	105			900	1,452			5/1-10/15	C			1		2,352
93	Dickerson Ind.	40.00	20,880	12	12	12				40			4/1-9/30	C				1	40
94	Dishner Ind.	40.00	15,720	8	8	10			2	38			5/1-9/30	C				1	0
95	Horse Flat	4,146.71	2,700,000	356	356	356	62	404	3,510	158			4/10-5/31 11/1-11/9	C			1		3,242
96	Dotson	120.00	51,800	7	7	7			100	20			4/1-5/31	C				1	40
97	Dunham Ind.	40.00	15,920	7	7	7				40			4/15-5/14	C				1	0
98	Eakin Ind.	118.34	46,200	18	18	18			76	42			4/20-5/31	C				1	0
99	Emery Ind.	1,742.44	1,592,760	60	60	60		749	658	25			4/1-7/31	C			1		1,742
100	Brownlee	1,931.72	1,626,274	286	286	286							4/1-4/30	C			1		1,776
101	Sage Creek	1,663.88	953,080	250	250	250	23	104	1,109	446			4/16-6/30	C			1		500
102	Newbold	200.00	87,200	27	27	25			145	55			4/16-7/15	C				1	30
103	Farrens	40.00	31,640	8	8	8			38	2			4/16-7/15	C				1	0
104	Big Willow FFR	808.64	640,080	187	187	187				809			4/1-4/30	C				1	663
105	Fisk Ind.	160.00	146,984	25	25	14		15	138	7			4/1-5/1	C		1			160

Allotment Number	Allotment Name	Public Land Acres	Estimated Current Production (Pounds)	Pref. Active (AUM's)	Pref. Total (AUM's)	Average License Use (AUM's)	Condition Excel	Good	Fair	Poor	Burn	Seed	Season of Use	Class of Livestock C = Cattle S = Sheep H = Horse	Wild Horses	M Category M = Maintain	I Category I = Improve	C Category C = Custodial	Erosion Hazard Acres High or Very High
106	Indian Creek	501.33	407,400	132	132	131				501			5/1-5/30 10/1-10/30	C		1			449
107	Indian Creek C.	204.16	152,040	40	40	40			4	100			?	C			1		104
108	Ford	80.00	32,344	15	15	15			78	1			4/16-5/15 11/1-11/30	C			1		80
109	Long Gulch	2,210.00	1,610,880	215	215	245		33	1,863	334			5/1-9/30	C		1			1,548
110	Fraisier Ind.	343.40	327,144	75	75	75		125	212	6			4/16-11/30	C			1		343
111	Uhlman	160.00	73,944	33	33	33			154	6			4/1-5/31	C/H			1		198
112	Gallant Ind.	320.00	228,240	64	64	64		17	187	116			4/1-5/31	C		1			60
113	Justus FFR	320.00	176,362	45	45	46			60	260			4/16-6/5	C			1		192
114	Gatfield Ind.	199.20	209,640	20	20	20				199			7/1-8/31	C			1		190
115	Packer John	2,906.62	1,591,989	450	820	364		100	1,907				5/15-6/14	C		1			2,907
116	Patterson & Goodwin	3,515.61	1,852,932	168	168	168			3,516				4/1-9/30	C		1			3,516
120	Bossard Ind.	422.88	172,216	78	78	76		70	349	4			5/1-6/15 10/16-11/30	C			1		423
121	Gould Ind.	160.00	142,760	34	34	34		20	135	5			4/1-5/31	C			1		0
122	Leep Ind.	656.24	431,200	170	170	31			212	444			4/1-7/1 9/1-10/30	C		1			656
123	Greenwood Ind.	160.00	126,180	33	33	33		33	127				4/1-5/10	C			1		92
124	Gutherie Ind.	40.00	27,200	8	8	5				40			5/1-9/30	C			1		0
125	Dechambeau Ind.	461.42	436,136	150	150	150			461				3/16-10/31	C			1		461
126	Hadley Ind.	200.00	70,600	26	26	26			24	176			4/12-6/11	C/H			1		200
127	Hagans Ind. A	40.00	49,360	15	15	15		2	38				4/1-5/31 9/1-11/30	C			1		40
128	Hagans Ind. B	120.00	11,000	24	24	24		2	118				4/1-9/30	C			1		120
129	Hale Ind.	120.00	66,600	24	24	24				120			3/16-9/30	C			1		0
130	Gross	221.26	338,767	12	12	12			20	300			3/1-2/28	C			1		221
131	D. Harrington Ind.	760.20	668,800	107	107	107			760				4/1-11/15	C		1			750
132	Home Ranch	187.38	131,136	263	263	263		40	97	3			4/1-4/30 11/1-11/15	C		1			187
133	Lake Ranch	980.00	1,369,000	54	54	54		188	774	18			4/1-10/15	C		1			545
134	J. Harrington Ind.	200.00	275,088	18	28	18		36	66	8			4/16-5/21	C			1		200
135	Dad Harrington	200.00	176,024	29	29	29		15	175	18			4/1-6/30 10/1-11/30	C/H			1		113
136	Kenny Ridge	40.00	26,760	8	8	8		6	32	2			4/1-5/15	C			1		40
137	Hayshed	40.00	22,280	8	8	8			37	3			4/1-4/30	C			1		0
138	L&J Harrington	240.00	109,840	42	48	42		69	169	1			4/1-5/31	C			1		240
139	Lower Field	1,561.53	1,314,824	181	181	181		425	992	108			3/1-3/30	C		1			1,562
140	Upper Field	474.00	405,256	100	100	100		79	350	18			5/16-6/15	C			1		326
141	Helwick Ind.	237.00	224,202	38	38	33				237			4/1-6/15	C				1	100
142	Wolf Creek Allot.	1,630.42	1,130,280	429	429	399		155	1,445	30			7/1-8/21 9/1-10/17	C			1		970
143	Herrick FFR	40.00	21,080	8	8	8			40				7/1-8/1	C				1	0
144	Higgins Ind.	160.00	68,800	27	27	27			119	41			4/15-6/14 10/16-11/15	C				1	0
145	Scott Creek	3,219.84	2,640,320	669	669	669		431	1,974	602		212	4/9-4/15 9/16-11/15	C			1		3,055
146	Hoffman Ind.	200.00	107,840	42	42	28			120	80			4/1-10/31	C				1	0
147	Holbrook Ind.	256.56	141,350	55	55	56			200	57			4/16-5/30	C/H				1	30
148	Indian Mtn. Com.	732.05	519,720	215	215	211		100	554	38			4/16-6/30 10/16-11/15	C		1			234
149	Holmes Ind.	80.00	41,640	7	7	7			78	2			4/16-5/31	C				1	0
150	Hopper Creek	382.12	259,888	60	60	60			200	182			4/11-5/25	C		1			0
151	Deer Creek	80.00	44,760	10	10	9			70	10			4/16-5/31	C				1	0
152	Hornet Creek	680.72	506,644	93	93	90		120	521	35			4/16-11/30	C		1			163
153	Horning Ind.	40.00	19,237	10	10	7			40				4/15-10/14	C				1	0
154	North	641.80	308,760	96	96	96		10	537	95			4/5-5/31	C		1			55
155	South	980.00	576,360	190	190	137			818	166			4/5-5/15	C		1			152
156	Upper Ranch	240.00	163,280	18	18	16		87	148	5			3/1-2/28	C				1	240
157	Hubbard Ind.	40.00	19,440	8	8	8			29	11			3/16-11/15	C				1	0
158	Jackson Creek	1,513.91	840,640	386	386	388	30	225	1,049	204			4/10-10/9	C		1			1,049
159	Isom	1,000.00	157,240	126	126	126	67	334	553	18			4/16-6/15 10/16-11/30	C				1	440
160	Jacobs Ind.	40.00	24,840	8	8	8			38	2			4/15-9/1	C				1	0
161	Goodrich Ind.	240.00	131,920	48	48	48		29	182	15			4/1-5/31 10/1-10/31	C				1	240
162	Johannsen Ind.	360.00	238,920	56	56	56				360			3/16-6/15	C			1		173
163	Kaufman Ind.	68.39	48,240	25	25	26				38	30		4/1-10/10	C				1	0
164	Keithley Ind.	1,507.03	1,091,256	173	173	173	29	188	1,115	269			4/20-6/4	C			1		388
165	J Keithley	720.00	789,000	101	101	100	69	230	607	15			5/1-5/31	C			1		423
166	Kennedy Ind.	67.55	35,836	11	11	10			68				6/1-10/31	C				1	0
167	Kilborn Ind.	160.00	149,280	33	33	33		32	122	6			4/15-10/15	C				1	160
168	Klingback Ind.	80.00	28,680	16	16	16			36	44			3/16-11/30	C				1	50
169	Langer Ind.	200.00	82,240	43	43	43			160	40			4/1-7/15	C				1	0
170	Little Jackson	2,649.79	1,906,560	473	473	473		772	1,444	151			3/1-2/28	C/H			1		2,650
171	A. Legg Ind.	40.00	35,080	6	6	3			32	8			4/1-5/31 10/1-10/31	C				1	0
172	P. Legg Ind	40.00	29,680	8	8	8			39	1			4/6-6/5	C				1	40
173	Line Ind.	40.00	42,692	8	8	8				40			4/16-10/15	C				1	0
175	Black Canyon Fenced	80.00	75,680	14	14	14				80			4/1-5/15	C				1	0
176	Black Canyon	4,540.47	4,294,840	640	640	640				4,540			3/16-4/15 12/1-12/18	S			1		2,050
177	Big Flat	721.57	606,240	63	63	63			130	592			4/1-6/30	C				1	300
178	Paddy Flat	840.00	442,680	53	53	53			840				6/16-7/15	C		1			840
179	Lyle Ind.	682.68	392,080	115	115	115			2	681			4/1-5/31 11/16-12/15	C		1			525
180	M.C.& M. Ind.	105.00	127,710	20	20	20				135			4/1-5/31 11/16-1/15	C				1	46
181	Black Canyon Ranch	1,333.33	1,261,018	180	180	180			265	1,068			4/1-6/30	C		1			1,140
182	Soldier Creek Ranch	44.23	24,420	8	8	8				44			6/1-10/30	C				1	0
183	Cabarton Ranch	84.75	44,795	8	8	8			85				7/1-9/30	C				1	0
184	Siller Ranch	207.91	107,670	28	28	28			194				4/1-6/30	C				1	175
185	Maddox Ind.	50.00	45,560	8	8	8				50			4/1-5/31	C				1	18
186	Mainvil Ind.	95.30	81,430	12	12	12			9	86			4/1-9/30	C				1	55
187	Marvin Ind.	735.00	571,680	24	24	13			26	709			9/15-12/30	C				1	185
188	West Side South	1,055.00	894,680	146	220	146			493	312			4/26-5/25	C			1		564
189	McCool Ind.	1,320.00	1,248,720	87	87	87				1,120		200	4/1-6/30	C			1		627
191	Linson Creek	5,629.08	4,247,080	892	892	713		250	1,114	4,510			4/1-5/31 12/1-12/31	C			1		4,756
193	McGinnis Ind.	23.40	12,121	3	3	3			23				5/15-10/15	C				1	0
194	McMullen	7,120.74	4,525,720	1,316	1,316	961		97	4,430	2,170			3/16-11/30	C			1		7,120
195	Syme-Moser River	422.40	299,240	92	92	92			150	90			3/16-11/30	C				1	422
196	McPherson Ind.	240.00	227,040	34	34	34				240			4/11-5/31	C			1		240
197	Meinikheim Ind.	195.02	194,959	35	35	0			195				5/1-10/31	C				1	195
198	Meyer Ind.	120.00	80,920	16	16	16			58	62			4/1-5/31 10/1-11/30	C				1	40
199	Hays	80.00	49,080	9	9	8			10	70			4/15-6/14	C				1	0
200	Advent Gulch	118.77	114,280	18	18	18			117	2			4/15-6/14	C				1	0
201	Mitchell Ind.	180.00	146,160	25	25	25			18	162			4/15-5/14	C				1	0
202	Lund	370.00	150,400	12	12	12				155			3/1-2/28	C				1	370
203	Sage Creek	2,245.90	1,650,488	300	300	300		258	1,575	457			4/16-9/15	C			1		1,662
204	Dennet & Stover	859.14	713,560	168	168	168		196	302	358			5/1-11/15	C				1	448
205	Crane Creek	1,312.21	959,640	241	241	184			5	1,299			4/21-8/15	C		1			655
206	D. Moritz Ind.	360.86	204,379	72	72	72		48	294	22			4/16-5/30	C		1			45
207	Henley Basin	3,196.23	2,309,240	684	684	684		150	2,400	571			3/26-7/31 10/1-11/30	C			1		2,956
208	Sage Creek	4,027.52	3,001,248	676	676	268	146	1,092	2,720	52			5/1-6/30	C			1		3,177
209	Burroughs	2,456.59	2,324,322	450	450	315				2,257		200	4/1-5/15 11/1-12/15	C			1		351
210	Montour Ind.	216.90	205,282	8	8	8				217			5/1-5/30	C				1	57
211	Missula Ind.	243.10	229,878	20	20	4				243			4/16-6/15	C				1	233
212	Missula Ind.	240.00	296,200	39	39	39			9	231			4/1-6/1 11/15-12/15	C/H				1	240
213	Osborn Ind.	320.60	169,167	65	65	65			321				5/1-5/31	C				1	321
214	Palmer Ind.	430.00	294,520	82	82	82		8	368	48			4/1-9/30	C		1			0
215	Parks Ind.	558.42	429,480	33	94	33				558			4/1-5/31	C				1	478
216	Patton	560.00	319,120	115	115	115				437	121		4/11-8/10	C				1	372
217	Peebles	318.61	213,320	77	77	0		17	296	6			4/1-10/15	C/H				1	187
218	Perkins Ind.	120.00	66,640	16	16	16			94	26			4/1-4/30	C				1	0
219	Peterson Ind.	554.51	253,480	113	113	113			398	157			4/1-7/31	C				1	555
220	Potter Ind.	157.80	88,500	21	21	21			144	14			5/1-7/15	C				1	72
221	Pound Ind.	2,184.42	1,250,917	219	219	219		133	1,770	284			4/16-9/15	C			1		1,137
222	Pratt Ind.	151.56	104,560	24	24	10			48	104			4/1-6/1	C				1	130
223	Putnam Ind.	720.00	568,360	130	130	129		18	437	185			4/16-7/15	C				1	461

Allotment Number	Allotment Name	Public Land Acres	Estimated Current Production (Pounds)	Pref. Active (AUM's)	Pref. Total (AUM's)	Average License Use (AUM's)	Condition Excel	Good	Fair	Poor	Burn	Seed	Season of Use	Class of Livestock C = Cattle S = Sheep H = Horse	Wild Horses	M	I	C	Erosion Hazard Acres High or Very High
																Category M = Maintain I = Improve C = Custodial			
224	Ranny Ind.	522.84	281,560	96	96	96			3	520			4/1-7/31	C				1	170
225	Indian Head Mtn.	1,467.90	994,600	152	152	152			376	1,059			1/1-1/15 4/1-4/15	C			1		1,468
227	Ryals Ind.	80.00	42,280	16	16	16			77	3			4/21-6/20	C				1	80
228	Sagebrush Hill	880.00	634,560	175	175	175			210	660			4/1-5/30 11/1-12/15	C				1	880
229	Stout	328.83	168,604	18	18	18			12	317			4/1-5/30 11/1-11/30	C				1	0
230	Tarter	790.00	615,150	163	163	163			32	758			4/1-5/30 11/1-12/15	C	1				230
231	Schlehuber Ind.	563.48	292,304	109	109	108		52	442	46			4/1-5/24	C				1	146
232	Scheelzer Ind.	1,240.49	787,160	140	140	140		17	517	706			4/16-5/31	C			1		100
233	Hopper Creek	2,650.00	1,907,704	215	215	215		589	1,838	154			5/16-6/30	C			1		583
234	Mrs. Seid Ind.	775.00	355,440	71	71	74		20	632	122			4/15-6/1	C			1		29
235	Pine	2,029.36	829,920	226	226	227		49	1,786	194			4/16-5/31	C			1		27
236	Middle Fork	480.00	333,440	90	90	89		78	355	39			4/1-8/31 10/16-11/15	C				1	480
237	Black Canyon (Shaw)	10,437.75	9,874,348	1,972	1,972	1,973				4,718		5,720	3/20-5/20 6/21-1/31	C			1		6,311
238	Simplot Cattle Co.	320.23	177,600	67	67	68				320			4/1-11/30	C				1	0
239	Simplot Industries	40.00	37,840	12	12	12				40			7/1-9/30	C				1	40
240	Clipper Flat	1,238.98	902,390	219	219	219				1,239			4/16-5/31 11/16-2/28	C				1	593
241	Sisler Ind.	40.00	26,800	10	10	10			2	38			4/16-6/15	C				1	40
242	Roy Slyter	160.00	28,940	32	32	32			40	120			4/1-7/31 10/1-11/30	C				1	160
243	Rocky Ridge	725.00	478,120	110	110	109				725			4/1-5/31 11/16-12/15	C				1	725
244	Smith Ind. Allot	100.00	72,254	17	17	21			42	58			4/1-6/3	C				1	100
246	Smith-Black Canyon	580.00	548,680	86	86	86				580			4/1-5/31	C	1				485
247	Wilson Ind.	159.28	84,640	20	20	20			135	24			4/1-4/30	C				1	159
248	Hashagen Ind.	560.00	439,240	114	114	114				560			3/16-4/15	C				1	520
249	Sturgill Creek	6,421.01	5,223,824	1,285	1,285	1,333		1,038	3,559	1,163			4/1-9/30 11/1-1/31	C/S			1		6,421
250	Squaw Creek	120.00	126,642	25	25	25			120				8/1-10/5	C					0
252	Willow Creek	200.00	98,120	44	44	40			163	37			4/1-7/1	C					0
253	Butte Field	708.03	647,920	130	130	128			10	690			4/1-5/30 10/1-10/31	C	1				642
254	Sand Hollow	5,160.26	4,637,800	1,500	1,500	1,501			5	3,273	1,882		1/16-3/15 10/26-12/15	C	1				4,562
255	Sutton Ind.	40.00	25,920	10	10	10			24	16			4/15-6/15 9/15-10/15	C				1	0
256	Sutton Ranches Ind.	80.00	121,040	16	16	16			140	20			4/1-5/31	C				1	0
257	Thomason Ind.	40.00	15,920	5	5	5			36	4			4/1-9/30	C				1	0
258	Thompson	280.00	155,894	56	56	55		25	229	25			4/16-5/31 11/1-11/15	C				1	83
259	Towell	120.00	30,280	19	19	19			8	112			4/1-5/10	C				1	0
260	Crane Creek Ind.	643.25	99,345	143	143	143			568	45			4/11-6/26 11/1-11/15	C	1				0
261	Twin Sisters	3,066.80	2,559,360	314	314	309		145	2,691	231			4/16-12/15	C			1		1,267
262	Vogel & Ogle Ind.	160.00	28,680	32	32	32		22	142	18			5/1-5/31	C				1	0
263	Waite Ind.	120.00	81,640	26	26	8			120				4/16-5/15	C				1	0
264	Walker Ind.	160.00	108,800	10	10	8			160				4/1-11/30	C				1	160
265	Watson Ind.	29.90	15,810	4	4	2			30				6/1-10/31	C				1	30
266	Montour Ind.	315.58	298,936	16	16	16				316			4/1-11/30	C				1	197
267	Alder Creek Ind.	990.82	528,581	163	163	163			1,003				8/1-10/31	C				1	991
268	Weiser Sheep Co.	1,438.77	660,528	212	212	47		298	583	141			4/1-6/15	S				1	744
269	Wells Ind.	120.00	104,840	23	23	23		28	90				4/16-5/16	C				1	0
270	Whiteman Ind.	200.00	99,280	22	22	22			142	58			4/16-9/15	C				1	200
271	Williams - Fairchild	1,006.49	434,960	163	163	163			656	350			4/15-6/14	C	1				60
272	Williamson	160.00	93,440	41	41	41			18	142			4/1-10/31	C				1	50
273	Perkins Creek	340.00	211,520	93	93	93			267	73			6/1-9/15	C				1	340
274	Winegar Ind.	120.00	93,920	32	32	32				120			3/1-4/30 9/16-10/15	C				1	120
275	Woodland Ind.	770.13	601,080	128	128	128			34	736			4/1-8/31	C				1	770
276	Lindsay Ind.	200.00	125,888	40	40	40		60	95	3			4/16-6/30	C				1	200
278	Spring Valley	7,686.54	7,229,332	739	739	401			7,642				4/1-11/30	C/S				1	6,995
279	Black Canyon	3,379.50	3,197,480	496	496	344				3,380			3/16-12/13	S			1		2,364
280	Lick Creek	10,097.15	9,494,286	1,651	1,651	1,651	490	2,314	5,721	171			3/16-5/31 11/1-12/15	C			1		8,986
284	Spring Creek	7,810.95	5,963,920	1,122	1,122	1,355		615	6,598	615			4/16-10/15	C			1		2,600
286	Deardorff Ind.	120.00	55,200	28	28	28				120			10/16-12/15	C				1	0
287	Stippich Pasture	319.49	238,760	40	40	40			299				4/1-12/1	C				1	0
288	Double Diamond	79.66	75,680	16	16	13				80			3/1-3/30	C				1	80
289	Porter Creek	80.00	75,680	15	15	15				80			4/16-6/15 10/1-10/31	C				1	0
290	North Hornet	230.00	212,504	41	41	40		14	211	5			4/10-5/31	C				1	230
291	Hornet Creek	120.00	105,614	6	6	6			120				4/10-6/9	C				1	40
292	D. Moritz Ind.	120.00	108,320	24	24	24		40	80				4/1-5/31 10/16-11/15	C				1	120
293	North Fork FFR	440.00	249,104	90	90	36		42	380	19			4/1-5/31	C				1	0
294	U-Bar-M FFR	571.28	322,044	91	91	95			15	556			4/1-4/30	C				1	571
295	Little Willow	3,193.10	2,600,000	244	332	246				2,043			5/1-6/15 10/15-11/14	C			1		2,960
297	Wet Gulch	40.00	22,600	6	6	9				40			3/1-3/30	C				1	40
298	X5	897.13	368,200	143	143	134				820			5/1-6/30 10/1-12/6	C	1				302
299	Cox FFR	120.00	103,240	18	18	18				120			9/1-11/30	C				1	120
300	WRR Ind.	40.00	21,360	4	8	4			32	8			5/1-6/30	C				1	0
301	Holland Gulch	4,114.14	1,530,080	553	553	495				4,114			4/1-7/25 8/16-12/15	C			1		1,643
302	Weiser Cove	380.00	214,320	56	56	56			11	369			3/16-5/15 9/16-10/30	C	1				380
303	Skow FFR	40.00	22,560	6	6	11				40			3/1-2/28	C				1	40
304	Center Allot.	4,030.43	2,456,760	820	820	742			2,248	1,614			3/25-11/15	C/S	1				1,124
306	Big Creek	560.00	295,120	80	80	80			560				6/1-10/31	S				1	320
307	Dry Lake	80.00	75,680	0	0	210				80			4/1-10/31	C			1		0
308	Sky Ranch Ind.	110.85	58,497	20	50	20			111				6/15-10/14	C				1	0
309	Boise Front	5,836.55	4,399,072	438	438	361				4,027		1,950	4/1-1/4	C			1		5,837
310	Black Canyon	16,769.64	15,599,540	2,829	2,829	2,539				16,490			3/19-5/31 12/1-12/31	S			1		9,223
311	No Unit	5,207.99	4,983,528	1,478	1,478	949				5,268			4/16-6/30 10/25-12/4	S			1		5,208
312	Bannister Basin	2,073.08	1,961,058	266	266	264				2,073			4/1-4/30	C			1		2,013
313	Fenwick Place	80.00	58,880	13	13	13				80			4/1-4/30	C				1	80
314	Bingman	40.00	29,440	14	14	14				40			4/1-10/31	C				1	40
315	Terteling	40.00	29,440	5	5	5				40			4/1-10/31	C				1	40
350	Lucky Peak	163.84	92,000	26	39	0				125			4/1-12/15	C				1	164
352	Stephens Ind.	399.19	221,120	44	44	44			340	59			4/16-9/15	C/H				1	53
355	Robert Routson Ind.	475.00	329,620	26	26	26			379	96			4/15-11/15	C				1	475
356	Roberts Ind.	40.00	25,856	8	8	3			12	28			4/15-5/1 11/1-12/15	C				1	40
361	Crane Creek Allot.	9,804.49	5,248,092	568	568	974		102	6,027	3,525			3/1-10/20	C/S			1		4,154
362	Foothils	7,797.80	6,873,040	1,035	1,035	1,035		2,574	3,915	1,294			4/16-9/30 10/15-11/4	C/S			1		5,532
363	Drake Allot.	270.00	186,520	48	48	48			43	220			4/1-6/3	C				1	270
364	Whiskey Rapids Allot	316.17	214,880	53	53	54		2	262	52			6/4-8/13	C				1	316
365	Old Craig Allot.	320.00	210,320	49	49	42			170	150			4/16-5/31 11/1-12/15	C	1				0
366	Staley Allot.	201.25	124,920	36	36	36			141	60			4/16-6/30 9/1-10/31	C				1	60
367	Minnie Snyder FFR	175.00	122,400	97	97	83			38	295			4/1-4/30	C				1	175
368	Rock Creek FFR	3,676.94	2,260,320	576	576	576		82	2,839	327			3/1-2/28	C			1		3,403
369	McChord Butte	6,693.42	5,096,904	968	968	970		87	4,635	2,483			4/1-11/20	C			1		6,653
370	Upper	15,473.69	8,368,461	1,027	1,027	1,674		145	8,377	6,872			3/1-6/30	C/S			1		8,820
371	Callender Ind.	296.00	295,928	48	48	48			296				3/1-3/30	C			1		260
372	Warm Springs	233.00	220,418	305	305	4			233				4/21-2/28	C				1	90
373	Williams Ind.	338.43	241,160	37	37	37		83	129	21			4/15-5/14	C				1	338
374	1000 Acre Field	100.00	101,800	12	12	12			3	97			3/1-2/28	C				1	100
375	Gibson Allot.	120.00	73,720	12	12	12				120			4/15-5/30	C				1	0
376	Fry Ind.	92.00	87,032	22	22	22			110	10			5/1-6/30	C				1	0
377	Dennet Creek Ind.	770.00	772,520	96	96	96		130	527	112			3/1-3/30	C				1	770
378	Lower Raft Creek	2,119.98	1,976,720	266	266	256		242	719	1,118			3/1-2/28	C/H			1		2,120
379	Upper Raft Cr. FFR	245.00	153,060	51	51	51		27	157	61			3/1-3/30	C				1	245
380	Mineral	951.40	987,960	143	143	143		350	492	80			4/15-12/14	C				1	951
381	Cow Camp	242.56	221,040	27	27	27		15	150	50			4/1-11/30	C/H				1	243
382	Beef Trap	985.00	827,110	232	232	231		150	683	152			4/1-11/30	C/H	1				985
383	Forsgren Ind.	40.00		6	6	6							4/1-4/30	C				1	0
384	Jenkins Creek	2,108.57	1,783,240	196	196	192		175	1,664	270			5/1-10/31	C				1	2,029
385	Putnam Custodial	40.00	19,237	5	5	5				40			7/1-11/30	C				1	40
386	White Butte Allot.	466.00	440,836	66	66	67				466			3/1-4/15 11/15-2/28	C				1	0

Allotment Number	Allotment Name	Public Land Acres	Estimated Current Production (Pounds)	Pref. Active (AUM's)	Pref. Total (AUM's)	Average License Use (AUM's)	Condition Excel	Good	Fair	Poor	Burn	Seed	Season of Use	Class of Livestock C = Cattle S = Sheep H = Horse	Wild Horses	M	I	C	Erosion Hazard Acres High or Very High
																M = Maintain I = Improve C = Custodial			
387	Individual	80.00	75,689	12	12	12				80			3/1-2/28	C				1	40
388	Pedro & Upper Wolf	205.00	104,840	25	25	25			154	51			5/1-5/30	C				1	120
389	Long Hollow Field	1,627.82	897,240	190	190	143		344	651	611			9/1-9/30	C			1		1,331
390	Fenced Federal Range	726.40	556,796	114	114	114				726			3/1-3/30	C				1	540
391	Little Emmett Allot.	24,322.66	23,088,116	4,253	4,253	3,672				22,970		1,448	3/1-2/28	C			1		6,809
392	Fenced Federal Range	180.00	170,280	58	58	60				180			3/1-3/30	C				1	38
393	Indian Jake	17,223.81	12,126,768	3,303	3,303	3,262		929	5,437	10,787			3/1-2/28	C			1		8,004
396	Bivens Purchase	200.00	205,520	34	34	34				26	174		4/1-4/30	C				1	160
1,278	Quartzberg	2,179.24	unsuitable	200	200	0				2,179			7/1-10/31	C				1	2,179
388	Fenced Federal Range	120.00	108,120	124	124	124				120			3/1-3/30	C				1	60
		Public Land Acres	Estimated Current Production	Pref. Active	Pref. Total	Average License Use	E	G	F	P	B	S			Wild Horses	M	I	C	Erosion Hazard Acres High Very High
TOTALS		464,920.28	346,155,336	72,571	74,662	66,424	1,922	33,201	210,315	156,329	2,234	9,730			25	52	78	208	295,972

APPENDIX F

LIVESTOCK FORAGE LEVELS

Allotment Number	Allotment Name	Pref. Active AUM's	Pref. Total AUM's	Average License Use AUM's	ALTERNATIVE A 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE B 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease
1	Pearl Ind.	10	10	10	0	0	0	0	0	0	0	0
2	Pickles Butte	142	142	58	210	0	210	0	0	(100)	0	(100)
3	Jerusalem	1,428	1,428	957	957	0	957	0	947	(1)	988	3
4	Bissell Creek	1,134	1,134	1,134	1,134	0	1,134	0	1,021	(10)	1,065	(6)
5	Big Willow Cr.	4,700	4,700	3,758	3,758	0	3,758	0	3,851	2	4,309	15
6	Sheep Cr. Comm.	2,103	2,103	1,016	1,016	0	1,016	0	1,040	2	1,156	14
7	Tommy Carr	781	781	567	567	0	567	0	567	0	591	4
8	Succor Hansen Field	65	65	65	65	0	65	0	47	(28)	49	(25)
9	Butte Ranch	20	20	20	20	0	20	0	45	125	133	565
10	Chacartegui	175	175	175	175	0	175	0	146	(17)	214	22
11	Round Valley	57	57	0	0	0	0	0	0	0	0	0
12	Armacost Ind.	50	50	50	50	0	50	0	27	(46)	28	(44)
13	Wildhorse	256	256	254	243	0	243	0	243	(4)	253	(0)
14	Lower Allot.	59	59	59	59	0	59	0	59	0	62	5
15	Goodrich Ind.	37	37	40	40	0	40	0	0	(100)	0	(100)
16	Goodrich Comm.	1,117	1,850	1,096	1,013	0	1,013	0	1,013	(8)	1,057	(4)
17	County Line	9	9	8	8	0	8	0	0	(100)	0	(100)
18	Ball Ind.	14	14	14	14	0	14	0	0	(100)	0	(100)
19	Sheep Gulch	238	238	224	224	0	224	0	152	(32)	159	(29)
20	Barker Ind.	96	96	58	58	0	58	0	0	(100)	0	(100)
21	Basin Ind.	245	245	205	205	0	205	0	210	2	255	24
22	Beal Ind.	12	12	12	12	0	12	0	0	(100)	0	(100)
23	Bean Ind.	25	25	25	25	0	25	0	25	0	26	4
24	Beggs Ind.	12	44	12	12	0	12	0	11	(8)	12	0
25	Bettis FFR	132	132	132	132	0	132	0	132	0	138	5
27	Bezates Ind.	70	70	70	70	0	70	0	54	(23)	56	(20)
28	Stillwell Ind.	36	36	36	36	0	36	0	29	(19)	30	(17)
29	Biggers Ind.	30	30	30	30	0	30	0	15	(50)	17	(43)
30	West Side North	737	921	481	481	0	481	0	470	(2)	490	2
31	Biggers	12	12	12	12	0	12	0	0	(100)	0	(100)
32	Randall	421	421	364	364	0	364	0	364	0	380	4
33	Camp Creek	36	36	36	36	0	36	0	36	0	38	6
34	Bilbao Ind.	8	8	8	8	0	8	0	8	0	8	0
35	Black Canyon Ind.	152	152	192	192	0	192	0	212	10	280	46
36	Bivens Ind.	89	176	141	141	0	141	0	141	0	147	4
37	Brownlee	330	330	327	327	0	327	0	309	(6)	322	(2)
38	Blessinger Ind.	24	24	25	25	0	25	0	25	0	26	4
39	Bott Ind.	50	50	51	51	0	51	0	50	(2)	52	2
40	Boyd Ind.	62	62	62	62	0	62	0	0	(100)	0	(100)
41	Granger Butte	432	432	427	427	0	427	0	417	(2)	474	11
42	West Crane Ind.	95	95	85	85	0	85	0	24	(72)	67	(21)
43	Indian Valley	793	793	1,562	1,562	0	1,562	0	1,547	(1)	1,614	3
43	Indian Valley Comm	719	719	707	707	0	707	0	707	0	737	4
44	Riley Butte	91	91	90	90	0	90	0	100	11	136	51
45	Branch Ind.	174	174	176	176	0	176	0	176	0	184	5
46	T. Braun Ind.	207	207	138	138	0	138	0	24	(83)	25	(82)
47	Braun/Bacon Valley	105	105	105	105	0	105	0	21	(80)	61	(42)
48	H&R Braun	30	30	30	30	0	30	0	0	(100)	0	(100)
50	Rudger	53	53	54	54	0	54	0	0	(100)	0	(100)
51	Brent Ind.	22	22	22	22	0	22	0	22	0	23	5
52	M. Brent Ind.	43	43	43	43	0	43	0	43	0	45	5
53	Burkhardt Ind.	32	32	30	30	0	30	0	9	(70)	9	(70)
54	Burt Ind.	4	4	4	4	0	4	0	0	(100)	0	(100)
55	Burton Ind.	47	47	47	47	0	47	0	0	(100)	0	(100)
56	Busch Ind.	225	225	219	219	0	219	0	219	0	228	4
57	Butler & Perkins	43	43	43	43	0	43	0	0	(100)	0	(100)
58	Sweet	24	24	24	24	0	24	0	0	(100)	0	(100)
59	Minnie	606	606	631	631	0	631	0	639	1	690	9
60	West Crane	1,260	1,659	1,200	1,200	0	1,200	0	1,251	4	1,640	37
61	R. Cada Ind.	35	35	35	35	0	35	0	0	(100)	0	(100)
62	Lower Crane	271	271	245	245	0	245	0	245	0	256	4
62	Lower Crane Comm.	253	253	174	174	0	174	0	179	3	202	16
63	T. Cada Ind.	83	83	83	83	0	83	0	80	(4)	83	0
64	Canaday Ind.	36	36	36	36	0	36	0	36	0	38	6
65	McMahan Ranch	9	9	9	9	0	9	0	0	(100)	0	(100)
66	Carr Ind.	34	34	34	34	0	34	0	34	0	36	6
67	Mitchell Ind.	8	8	8	8	0	8	0	0	(100)	0	(100)
68	Chandler Ind.	60	60	60	60	0	60	0	60	0	63	5
69	Chrestesen Ind.	285	285	285	285	0	285	0	285	0	297	4
70	Clarkson Ind.	26	26	26	26	0	26	0	26	0	27	4
71	McFadden Ind.	89	89	88	88	0	88	0	98	11	135	53
72	Clelland	41	41	41	41	0	41	0	25	(39)	26	(37)
73	Coates FFR	16	16	16	16	0	16	0	0	(100)	0	(100)
74	Cove	80	80	65	65	0	65	0	89	37	165	154
74	Cove Creek	112	112	111	111	0	111	0	111	0	116	5
75	Coates A&R Ind.	47	47	47	47	0	47	0	47	0	49	4
76	Fruitvale	158	158	130	130	0	130	0	130	0	136	5
77	Craig Ind.	6	6	6	6	0	6	0	0	(100)	0	(100)
78	Frisbee	39	39	39	39	0	39	0	0	(100)	0	(100)
79	Fruitvale Glenn	9	9	9	9	0	9	0	9	0	9	0
80	J. Craig Ind.	144	144	144	144	0	144	0	165	15	235	63
81	West Ind. Allot.	126	126	126	126	0	126	0	108	(14)	113	(10)
82	Cambridge	88	88	88	88	0	88	0	81	(8)	84	(5)
83	Cruickshank Ind.	113	113	113	113	0	113	0	113	0	150	33
84	Dahnke	59	59	59	59	0	59	0	59	0	62	5
85	Cove Springs	0	0	0	0	0	0	0	0	0	0	0
86	Darnell Ind	16	16	16	16	0	16	0	0	(100)	0	(100)
87	Webb Creek FFR	48	48	48	48	0	48	0	48	0	50	4
88	Round Valley FFR	17	17	0	0	0	0	0	0	0	0	0
89	Squaw Butte	670	670	389	389	0	389	0	389	0	406	4
90	Gambril Ind.	9	9	10	10	0	10	0	10	0	10	0
92	East Garden Valley	374	374	105	105	0	105	0	118	12	163	55
93	Dickerson Ind.	12	12	12	12	0	12	0	0	(100)	0	(100)
94	Dishner Ind.	8	8	10	10	0	10	0	0	(100)	0	(100)
95	Horse Flat	356	356	356	356	0	356	0	356	0	371	4
96	Dotson	7	7	7	7	0	7	0	2	(71)	2	(71)
97	Dunham Ind.	7	7	7	7	0	7	0	0	(100)	0	(100)
98	Eakin Ind.	18	18	18	18	0	18	0	0	(100)	0	(100)
99	Emery Ind.	60	60	60	60	0	60	0	60	0	63	5
100	Brownlee	286	286	286	286	0	286	0	70	(76)	73	(74)
101	Sage Creek	250	250	250	250	0	250	0	250	0	261	4
102	Newbold	27	27	25	25	0	25	0	0	(100)	0	(100)
103	Farrens	8	8	8	8	0	8	0	8	0	9	13
104	Big Willow FFR	187	187	187	187	0	187	0	0	(100)	0	(100)
105	Fisk Ind.	25	25	14	14	0	14	0	0	(100)	0	(100)
106	Indian Creek	132	132	131	131	0	131	0	131	0	137	5
107	Indian Creek C.	40	40	40	40	0	40	0	24	(40)	25	(38)

Allotment Number	ALTERNATIVE C 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE D 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE E Initial Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease
1	7	100	7	100	0	0	0	0	10	0	0	0
2	154	166	168	190	109	88	126	117	210	0	0	(100)
3	693	(28)	728	(24)	947	(1)	1,003	5	957	0	984	3
4	828	(27)	869	(23)	1,021	(10)	1,081	(5)	1,134	0	1,156	2
5	2,804	(25)	3,126	(17)	3,892	4	4,528	20	3,758	0	4,056	8
6	757	(25)	839	(17)	1,059	3	1,211	19	1,016	0	1,050	3
7	414	(27)	435	(23)	567	0	600	6	567	0	571	1
8	47	(28)	49	(25)	47	(28)	50	(23)	65	0	62	(5)
9	33	65	86	330	60	200	179	795	20	0	98	390
10	141	(19)	187	7	188	7	237	35	175	0	221	26
11	0	0	0	0	0	0	0	0	57	0	57	100
12	36	(28)	38	(24)	27	(46)	29	(42)	50	0	53	6
13	175	(31)	184	(28)	243	(4)	257	1	243	0	204	(20)
14	43	(27)	45	(24)	59	0	62	5	59	0	55	(7)
15	29	(28)	31	(23)	0	(100)	0	(100)	40	0	42	5
16	717	(35)	753	(31)	1,013	(8)	1,072	(2)	1,013	0	1,074	(2)
17	6	(25)	6	(25)	4	(50)	4	(50)	8	0	0	(100)
18	10	(29)	11	(21)	0	(100)	0	(100)	14	0	0	(100)
19	164	(27)	172	(23)	152	(32)	161	(28)	224	0	161	(28)
20	42	(28)	44	(24)	0	(100)	0	(100)	58	0	57	(2)
21	158	(23)	188	(8)	215	5	278	36	205	0	243	19
22	9	(25)	10	(17)	0	(100)	0	(100)	12	0	0	(100)
23	18	(28)	19	(24)	25	0	27	8	25	0	25	0
24	8	(33)	8	(33)	11	(8)	12	0	12	0	7	(42)
25	96	(27)	101	(23)	132	0	140	6	132	0	127	(4)
27	51	(27)	54	(23)	54	(23)	57	(19)	70	0	66	(6)
28	19	(47)	20	(44)	29	(19)	31	(14)	36	0	29	(19)
29	22	(27)	23	(23)	15	(50)	16	(47)	30	0	30	0
30	351	(27)	369	(23)	470	(2)	498	4	481	0	495	3
31	9	(25)	10	(17)	0	(100)	0	(100)	12	0	12	0
32	266	(27)	279	(23)	364	0	385	6	364	0	363	(0)
33	11	(69)	12	(67)	36	0	38	6	36	0	36	0
34	0	(100)	0	(100)	8	0	9	13	8	0	8	0
35	118	(39)	153	(20)	197	3	316	65	192	0	258	34
36	103	(27)	106	(25)	141	0	149	6	141	0	149	6
37	230	(30)	242	(26)	309	(6)	327	0	327	0	347	6
38	0	(100)	0	(100)	25	0	27	8	25	0	25	0
39	37	(27)	39	(24)	50	(2)	53	4	51	0	47	(8)
40	45	(27)	47	(24)	0	(100)	0	(100)	62	0	62	0
41	320	(25)	361	(15)	422	(1)	503	19	427	0	475	11
42	70	(18)	98	15	97	14	158	86	85	0	127	49
43	1,141	(27)	1,198	(23)	1,547	(1)	1,638	5	1,562	0	1,641	5
43	504	(29)	529	(25)	707	0	749	6	707	0	749	6
44	73	(19)	96	7	105	17	155	72	90	0	125	39
45	66	(63)	69	(61)	176	0	186	6	176	0	186	6
46	101	(27)	106	(23)	114	(17)	121	(12)	138	0	146	6
47	85	(19)	114	9	124	18	186	77	105	0	148	41
48	22	(27)	23	(23)	30	0	32	7	30	0	32	7
50	39	(28)	41	(24)	0	(100)	0	(100)	54	0	0	(100)
51	16	(27)	17	(23)	22	0	23	5	22	0	22	0
52	32	(26)	34	(21)	43	0	46	7	43	0	43	0
53	22	(27)	23	(23)	9	(70)	10	(67)	30	0	29	(3)
54	3	(25)	3	(25)	0	(100)	0	(100)	4	0	0	(100)
55	34	(28)	36	(23)	13	(72)	14	(70)	47	0	47	0
56	160	(27)	168	(23)	219	0	232	6	219	0	213	(3)
57	41	(5)	70	63	0	(100)	0	(100)	43	0	83	93
58	18	(25)	19	(21)	0	(100)	0	(100)	24	0	0	(100)
59	466	(26)	504	(20)	641	2	713	13	631	0	661	5
60	944	(21)	1,200	0	1,354	13	1,902	59	1,200	0	1,524	27
61	26	(26)	27	(23)	0	(100)	0	(100)	35	0	35	0
62	179	(27)	188	(23)	245	0	259	6	245	0	277	13
62	130	(25)	146	(16)	182	5	214	23	174	0	270	55
63	61	(27)	64	(23)	83	0	88	6	83	0	70	(16)
64	26	(28)	27	(25)	36	0	38	6	36	0	38	6
65	7	(22)	7	(22)	0	(100)	0	(100)	9	0	0	(100)
66	25	(26)	26	(24)	34	0	36	6	34	0	34	0
67	6	(25)	6	(25)	0	(100)	0	(100)	8	0	0	(100)
68	44	(27)	46	(23)	60	0	64	7	60	0	56	(7)
69	208	(27)	218	(24)	285	0	302	6	285	0	280	(2)
70	19	(27)	20	(23)	26	0	28	8	26	0	26	0
71	60	(32)	63	(28)	103	17	153	74	88	0	119	35
72	5	(88)	5	(88)	25	(39)	27	(34)	41	0	41	0
73	12	(25)	13	(19)	0	(100)	0	(100)	16	0	0	(100)
74	62	(5)	109	68	99	52	204	214	65	0	136	109
74	81	(27)	85	(23)	111	0	118	6	111	0	103	(7)
75	34	(28)	36	(23)	47	0	50	6	47	0	47	0
76	0	(100)	0	(100)	130	0	138	6	130	0	138	6
77	5	(17)	5	(17)	0	(100)	0	(100)	6	0	0	(100)
78	29	(26)	30	(23)	0	(100)	0	(100)	39	0	0	(100)
79	0	(100)	0	(100)	9	0	10	11	9	0	9	0
80	118	(18)	163	13	174	21	272	89	144	0	208	44
81	92	(27)	97	(23)	108	(14)	114	(10)	126	0	126	0
82	64	(27)	67	(24)	86	(2)	86	(2)	88	0	81	(8)
83	77	(32)	96	(15)	123	9	165	46	113	0	143	27
84	43	(27)	45	(24)	59	0	62	5	59	0	59	0
85	0	0	0	0	0	0	0	0	0	0	0	0
86	12	(25)	13	(19)	0	(100)	0	(100)	16	0	0	(100)
87	35	(27)	37	(23)	48	0	51	6	48	0	46	(4)
88	0	0	0	0	0	0	0	0	17	100	17	100
89	284	(27)	298	(23)	389	0	412	6	389	0	398	2
90	7	(30)	7	(30)	10	0	11	10	10	0	10	0
92	25	(76)	114	9	124	18	186	77	105	0	148	41
93	9	(25)	10	(17)	0	(100)	0	(100)	12	0	12	0
94	7	(30)	7	(30)	0	(100)	0	(100)	10	0	0	(100)
95	260	(27)	273	(23)	356	0	377	6	356	0	377	6
96	6	(14)	6	(14)	2	(71)	3	(57)	7	0	2	(71)
97	6	(14)	6	(14)	0	(100)	0	(100)	7	0	0	(100)
98	13	(28)	14	(22)	0	(100)	0	(100)	18	0	0	(100)
99	44	(27)	46	(23)	60	0	64	7	60	0	63	5
100	0	(100)	0	(100)	70	(76)	74	(74)	286	0	53	(81)
101	183	(27)	192	(23)	250	0	265	6	250	0	247	(1)
102	18	(28)	19	(24)	0	(100)	0	(100)	25	0	25	0
103	7	(13)	7	(13)	8	0	9	13	8	0	8	0
104	137	(27)	144	(23)	0	(100)	0	(100)	197	0	0	(100)
105	11	(21)	17	21	0	(100)	0	(100)	14	0	15	7
106	96	(27)	101	(23)	131	0	139	6	131	0	139	6
107	29	(28)	30	(25)	24	(40)	25	(38)	40	0	24	(40)

Allotment Number	Allotment Name	Pref. Active AUM's	Pref. Total AUM's	Average License Use AUM's	ALTERNATIVE A 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE B 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease
108	Ford	15	15	15	15	0	15	0	15	0	16	7
109	Long Gulch	215	215	245	245	0	245	0	245	0	256	4
110	Fraisier Ind.	75	75	75	75	0	75	0	66	(12)	69	(8)
111	Uhlman	33	33	33	33	0	33	0	0	(100)	0	(100)
112	Gallant Ind.	64	64	64	64	0	64	0	0	(100)	0	(100)
113	Justus FFR	45	45	46	46	0	46	0	46	0	48	4
114	Gatfield Ind.	20	20	20	20	0	20	0	20	0	21	5
115	Packer John	450	820	364	364	0	364	0	364	0	380	4
116	Patterson & Goodwin	168	168	168	168	0	168	0	168	0	175	4
120	Gossard Ind.	78	78	76	76	0	76	0	76	0	79	4
121	Gould Ind.	34	34	34	34	0	34	0	0	(100)	0	(100)
122	Leep Ind.	170	170	31	31	0	31	0	31	0	32	3
123	Greenwood Ind.	33	33	33	33	0	33	0	0	(100)	0	(100)
124	Gutherie Ind.	8	8	5	5	0	5	0	0	(100)	0	(100)
125	Dechambeau Ind.	150	150	150	150	0	150	0	150	0	156	4
126	Hadley Ind.	26	26	26	26	0	26	0	26	0	27	4
127	Hagans Ind. A	15	15	15	15	0	15	0	0	(100)	0	(100)
128	Hagans Ind. B	24	24	24	24	0	24	0	0	(100)	0	(100)
129	Hale Ind.	24	24	24	24	0	24	0	24	0	25	4
130	Gross	12	12	12	12	0	12	0	12	0	13	8
131	D. Harrington Ind.	107	107	107	107	0	107	0	107	0	112	5
132	Home Ranch	263	263	263	263	0	263	0	150	(43)	156	(41)
133	Lake Ranch	54	54	54	54	0	54	0	28	(48)	29	(46)
134	J. Harrington Ind.	18	28	18	18	0	18	0	11	(39)	11	(39)
135	Dad Harrington	29	29	29	29	0	29	0	23	(21)	24	(17)
136	Kenny Ridge	8	8	8	8	0	8	0	0	(100)	0	(100)
137	Hayshed	8	8	8	8	0	8	0	0	(100)	0	(100)
138	L&J Harrington	42	48	42	42	0	42	0	42	0	44	5
139	Lower Field	181	181	181	181	0	181	0	11	(94)	12	(93)
140	Upper Field	100	100	100	100	0	100	0	62	(38)	65	(35)
141	Helmick Ind.	38	38	33	33	0	33	0	33	0	34	3
142	Wolf Creek Allot.	429	429	399	399	0	399	0	399	0	416	4
143	Herrick FFR	8	8	8	8	0	8	0	8	0	8	0
144	Higgins Ind.	27	27	27	27	0	27	0	0	(100)	0	(100)
145	Scott Creek	669	669	669	669	0	669	0	544	(19)	567	(15)
146	Hoffman Ind.	42	42	28	28	0	28	0	0	(100)	0	(100)
147	Holbrook Ind.	55	55	56	56	0	56	0	21	(63)	22	(61)
148	Indian Mtn. Com.	215	215	211	211	0	211	0	202	(4)	211	0
149	Holmes Ind.	7	7	7	7	0	7	0	7	0	8	14
150	Hopper Creek	60	60	60	60	0	60	0	73	22	116	93
151	Deer Creek	10	10	9	9	0	9	0	9	0	9	0
152	Hornet Creek	93	93	90	90	0	90	0	85	(6)	89	(1)
153	Horning Ind.	10	10	7	7	0	7	0	0	(100)	0	(100)
154	North	96	96	96	96	0	96	0	96	0	100	4
155	South	190	190	137	137	0	137	0	137	0	143	4
156	Upper Ranch	18	18	18	18	0	18	0	0	(100)	0	(100)
157	Hubbard Ind.	8	8	8	8	0	8	0	0	(100)	0	(100)
158	Jackson Creek	386	386	388	388	0	388	0	401	3	458	18
159	Isom	126	126	126	126	0	126	0	126	0	131	4
160	Jacobs Ind.	8	8	8	8	0	8	0	0	(100)	0	(100)
161	Goodrich Ind.	48	48	48	48	0	48	0	48	0	50	4
162	Johannsen Ind.	56	56	56	56	0	56	0	52	(7)	78	39
163	Kaufman Ind.	25	25	26	26	0	26	0	0	(100)	0	(100)
164	Keithley Ind.	173	173	173	173	0	173	0	173	0	180	4
165	J Keithley	101	101	100	100	0	100	0	100	0	104	4
166	Kennedy Ind.	11	11	10	10	0	10	0	10	0	10	0
167	Kilborn Ind.	33	33	33	33	0	33	0	33	0	34	3
168	Klingback Ind.	16	16	16	16	0	16	0	16	0	17	6
169	Langer Ind.	43	43	43	43	0	43	0	34	(21)	35	(19)
170	Little Jackson	473	473	473	473	0	473	0	144	(70)	150	(68)
171	A. Legg Ind.	6	6	3	3	0	3	0	3	0	3	0
172	P. Legg Ind	8	8	8	8	0	8	0	0	(100)	0	(100)
173	Line Ind.	8	8	8	8	0	8	0	0	(100)	0	(100)
175	Black Canyon Fenced	14	14	14	14	0	14	0	14	0	15	7
176	Black Canyon	640	640	640	640	0	640	0	755	18	1,127	76
177	Big Flat	63	63	63	63	0	63	0	21	(67)	22	(65)
178	Paddy Flat	53	53	53	53	0	53	0	50	(6)	52	(2)
179	Lyle Ind.	115	115	115	55	0	55	0	59	(49)	73	(37)
180	M.C.& M. Ind.	20	20	20	20	0	20	0	20	0	21	5
181	Black Canyon Ranch	180	180	180	180	0	180	0	180	0	188	4
182	Soldier Creek Ranch	8	8	8	8	0	8	0	0	(100)	0	(100)
183	Cabarton Ranch	8	8	8	8	0	8	0	8	0	9	13
184	Siller Ranch	28	28	28	28	0	28	0	28	0	29	4
185	Maddox Ind.	8	8	8	8	0	8	0	8	0	9	13
186	Mainvil Ind.	12	12	12	12	0	12	0	0	(100)	0	(100)
187	Marvin Ind.	24	24	13	13	0	13	0	13	0	14	8
188	West Side South	146	220	146	146	0	146	0	159	9	205	40
189	McCool Ind.	87	87	87	87	0	87	0	100	15	144	66
191	Linson Creek	892	892	713	713	0	713	0	713	0	744	4
193	McGinnis Ind.	3	3	3	3	0	3	0	3	0	3	0
194	McMullen	1,316	1,316	961	961	0	961	0	931	(14)	867	(10)
195	Syme-Moser River	92	92	92	92	0	92	0	92	0	96	4
196	McPherson Ind.	34	34	34	34	0	34	0	47	38	88	159
197	Meinikheim Ind.	35	35	0	0	0	0	0	0	0	0	0
198	Meyer Ind.	16	16	16	16	0	16	0	5	(69)	5	(69)
199	Hays	9	9	8	8	0	8	0	0	(100)	0	(100)
200	Advent Gulch	18	18	18	18	0	18	0	6	(67)	6	(67)
201	Mitchell Ind.	25	25	25	25	0	25	0	25	0	26	4
202	Lund	12	12	12	10	0	10	0	10	(17)	10	(17)
203	Sage Creek	300	300	300	300	0	300	0	300	0	313	4
204	Bennet & Stover	168	168	168	168	0	168	0	133	(21)	139	(17)
205	Crane Creek	241	241	184	184	0	184	0	162	(12)	169	(8)
206	D. Moritz Ind.	72	72	72	72	0	72	0	0	(100)	0	(100)
207	Henley Basin	684	684	684	684	0	684	0	538	(21)	561	(18)
208	Sage Creek	676	676	268	268	0	268	0	268	0	280	4
209	Burroughs	450	450	315	264	0	264	0	183	(42)	262	(17)
210	Montour Ind.	8	8	8	8	0	8	0	8	0	9	13
211	Missula Ind.	20	20	4	4	0	4	0	4	0	4	0
212	Missula Ind.	39	39	39	39	0	39	0	0	(100)	0	(100)
213	Osborn Ind.	65	65	65	65	0	65	0	65	0	68	5
214	Palmer Ind.	82	82	82	82	0	82	0	82	0	86	5
215	Parks Ind.	33	94	33	33	0	33	0	24	(27)	25	(24)
216	Patton	115	115	115	115	0	115	0	82	(29)	86	(25)
217	Peebles	77	77	0	0	0	0	0	0	0	0	0
218	Perkins Ind.	16	16	16	16	0	16	0	0	(100)	0	(100)
219	Peterson Ind.	113	113	113	113	0	113	0	113	0	118	4
220	Potter Ind.	21	21	21	21	0	21	0	21	0	22	5
221	Pound Ind.	219	219	219	219	0	219	0	219	0	240	10
222	Pratt Ind.	24	24	10	10	0	10	0	0	(100)	0	(100)
223	Putnam Ind.	130	130	129	129	0	129	0	129	0	135	5
224	Ranny Ind.	96	96	96	96	0	96	0	0	(100)	0	(100)
225	Indian Head Mtn.	152	152	152	152	0	152	0	152	0	159	5

Allotment Number	ALTERNATIVE C 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE D 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE E Initial Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease
108	11	(27)	12	(20)	15	0	16	7	15	0	15	0
109	179	(27)	188	(23)	245	0	259	6	245	0	245	0
110	0	(100)	0	(100)	66	(12)	70	(7)	75	0	64	(15)
111	24	(27)	25	(24)	0	(100)	0	(100)	33	0	0	(100)
112	47	(27)	49	(23)	0	(100)	0	(100)	64	0	68	6
113	34	(26)	36	(22)	46	0	49	7	46	0	46	0
114	15	(25)	16	(20)	20	0	21	5	20	0	20	0
115	266	(27)	279	(23)	364	0	385	6	364	0	386	6
116	123	(27)	129	(23)	168	0	178	6	169	0	178	6
120	9	(88)	9	(88)	76	0	80	5	76	0	76	0
121	25	(26)	26	(24)	0	(100)	0	(100)	34	0	0	(100)
122	23	(26)	24	(23)	31	0	33	6	31	0	29	(6)
123	24	(27)	25	(24)	0	(100)	0	(100)	33	0	33	0
124	4	(20)	4	(20)	0	(100)	0	(100)	5	0	0	(100)
125	110	(27)	116	(23)	150	0	159	6	150	0	150	0
126	19	(27)	20	(23)	26	0	28	8	26	0	25	(4)
127	11	(27)	12	(20)	0	(100)	0	(100)	15	0	15	0
128	18	(25)	19	(21)	0	(100)	0	(100)	24	0	24	0
129	18	(25)	19	(21)	24	0	25	4	24	0	24	0
130	9	(25)	9	(25)	12	0	13	8	12	0	11	(8)
131	0	(100)	0	(100)	107	0	113	6	107	0	113	6
132	88	(67)	92	(65)	150	(43)	159	(40)	263	0	159	(40)
133	39	(28)	41	(24)	28	(48)	30	(44)	54	0	57	6
134	2	(89)	2	(89)	11	(39)	12	(33)	18	0	18	0
135	4	(86)	4	(86)	23	(21)	24	(17)	29	0	23	(21)
136	6	(25)	6	(25)	0	(100)	0	(100)	8	0	0	(100)
137	6	(25)	6	(25)	0	(100)	0	(100)	8	0	8	0
138	0	(100)	0	(100)	42	0	44	5	42	0	42	0
139	0	(100)	0	(100)	11	(94)	12	(93)	181	0		(100)
140	35	(65)	37	(63)	62	(38)	66	(34)	100	0	50	(50)
141	24	(27)	25	(24)	33	0	35	6	33	0	33	0
142	291	(27)	306	(23)	399	0	422	6	399	0	405	2
143	0	(100)	0	(100)	8	0	9	13	8	0	8	0
144	20	(26)	21	(22)	27	0	29	7	27	0	29	7
145	489	(27)	514	(23)	544	(19)	608	(9)	669	0	673	1
146	21	(25)	22	(21)	0	(100)	0	(100)	28	0	27	(4)
147	41	(27)	43	(23)	21	(63)	22	(61)	56	0	54	(4)
148	154	(27)	162	(23)	202	(4)	214	1	211	0	218	3
149	5	(29)	5	(29)	7	0	7	0	7	0	7	0
150	52	(13)	79	32	78	30	138	130	60	0	96	60
151	7	(22)	7	(22)	9	0	10	11	9	0	9	0
152	55	(39)	58	(36)	85	(6)	90	0	90	0	90	0
153	5	(29)	5	(29)	0	(100)	0	(100)	7	0	0	(100)
154	70	(27)	74	(23)	96	0	102	6	96	0	101	5
155	100	(27)	105	(23)	137	0	145	6	137	0	145	6
156	13	(28)	14	(22)	0	(100)	0	(100)	18	0	18	0
157	6	(25)	6	(25)	0	(100)	0	(100)	8	0	0	(100)
158	291	(25)	330	(15)	406	5	486	25	388	0	448	15
159	0	(100)	0	(100)	126	0	133	6	126	0	126	0
160	6	(25)	6	(25)	0	(100)	0	(100)	8	0	0	(100)
161	35	(27)	37	(23)	48	0	51	6	48	0	48	0
162	46	(18)	63	13	54	(4)	92	64	56	0	80	43
163	19	(27)	20	(23)	0	(100)	0	(100)	26	0	0	(100)
164	126	(27)	132	(24)	173	0	183	6	173	0	166	(4)
165	73	(27)	77	(23)	100	0	106	6	100	0	95	(5)
166	7	(30)	7	(30)	10	0	11	10	10	0	10	0
167	16	(52)	17	(48)	33	0	35	6	33	0	33	0
168	12	(25)	13	(19)	16	0	17	6	16	0	16	0
169	32	(26)	34	(21)	34	(21)	36	(16)	43	0	34	(21)
170	35	(93)	37	(92)	144	(70)	152	(68)	473	0	123	(74)
171	2	(33)	2	(33)	3	0	3	0	3	0	3	0
172	6	(25)	6	(25)	0	(100)	0	(100)	8	0	8	0
173	6	(25)	6	(25)	0	(100)	0	(100)	8	0	0	(100)
175	10	(29)	11	(21)	14	0	15	7	14	0	14	0
176	539	(16)	777	21	801	25	1,322	107	640	0	995	55
177	46	(27)	48	(24)	21	(67)	22	(65)	63	0	58	(8)
178	0	(100)	0	(100)	53	0	56	6	53	0	53	0
179	26	(77)	35	(70)	60	(48)	81	(30)	55	0	64	(44)
180	15	(25)	16	(20)	20	0	21	5	20	0	20	0
181	131	(27)	138	(23)	180	0	191	6	180	0	191	6
182	6	(25)	6	(25)	0	(100)	0	(100)	8	0	0	(100)
183	6	(25)	6	(25)	8	0	9	13	8	0	8	0
184	21	(25)	22	(21)	28	0	30	7	28	0	28	0
185	6	(25)	6	(25)	8	0	9	13	8	0	8	0
186	9	(25)	10	(17)	0	(100)	0	(100)	12	0	0	(100)
187	10	(23)	11	(15)	13	0	14	8	13	0	8	(38)
188	115	(21)	145	(1)	164	12	230	58	146	0	177	21
189	72	(17)	100	15	105	21	167	92	87	0	129	48
191	521	(27)	547	(23)	713	0	755	6	713	0	756	6
193	2	(33)	2	(33)	3	0	3	0	3	0	3	0
194	702	(27)	737	(23)	831	(14)	880	(8)	961	0	939	(2)
195	68	(26)	71	(23)	92	0	97	5	92	0	88	(4)
196	33	(3)	59	74	52	53	111	226	34	0	73	115
197	0	0	0	0	0	0	0	0	35	100	35	100
198	12	(25)	13	(19)	5	(69)	5	(69)	16	0	5	(69)
199	6	(25)	6	(25)	0	(100)	0	(100)	8	0	0	(100)
200	13	(28)	14	(22)	6	(67)	6	(67)	18	0	18	0
201	18	(28)	19	(24)	25	0	26	4	25	0	24	(4)
202	7	(42)	7	(42)	10	(17)	11	(8)	10	0	9	(25)
203	219	(27)	230	(23)	300	0	318	6	300	0	293	(2)
204	123	(27)	129	(23)	133	(21)	141	(16)	168	0	159	(5)
205	134	(27)	141	(23)	162	(12)	171	(7)	184	0	189	3
206	53	(26)	56	(22)	0	(100)	0	(100)	72	0	76	6
207	0	(100)	0	(100)	538	(21)	570	(17)	684	0	690	1
208	196	(27)	206	(23)	268	0	284	6	268	0	240	(10)
209	235	(25)	291	(8)	270	(14)	385	22	254	0	336	7
210	6	(25)	6	(25)	8	0	9	13	8	0	7	(13)
211	3	(25)	3	(25)	4	0	4	0	4	0	4	0
212	29	(26)	30	(23)	0	(100)	0	(100)	39	0	37	(5)
213	0	(100)	0	(100)	65	0	69	6	65	0	65	0
214	60	(27)	63	(23)	82	0	87	6	82	0	83	1
215	24	(27)	25	(24)	26	(21)	28	(15)	33	0	24	(27)
216	84	(27)	88	(23)	82	(29)	87	(24)	115	0	115	0
217	0	0	0	0	0	0	0	0	77	100	9	100
218	12	(25)	13	(19)	0	(100)	0	(100)	16	0	0	(100)
219	83	(27)	87	(23)	113	0	120	6	113	0	113	0
220	16	(24)	17	(19)	21	0	22	5	21	0	21	0
221	162	(26)	178	(19)	220	0	251	15	219	0	216	(1)
222	7	(30)	7	(30)	0	(100)	0	(100)	10	0	11	10
223	94	(27)	99	(23)	129	0	136	5	129	0	129	0
224	70	(27)	74	(23)	0	(100)	0	(100)	96	0	92	(4)
225	111	(27)	117	(23)	152	0	161	6	152	0	145	(5)

Allotment Number	Allotment Name	Pref. Active AUM's	Pref. Total AUM's	Average License Use AUM's	ALTERNATIVE A 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE B 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease
227	Ryals Ind.	16	16	16	16	0	16	0	16	0	17	6
228	Sagebrush Hill	175	175	175	175	0	175	0	175	0	183	5
229	Stout	18	18	18	18	0	18	0	16	(11)	17	(6)
230	Tarter	163	163	163	163	0	163	0	171	5	202	24
231	Schlehuber Ind.	109	109	108	108	0	108	0	70	(35)	73	(32)
232	Schmelzer Ind.	140	140	140	140	0	140	0	166	19	294	110
233	Hopper Creek	215	215	215	215	0	215	0	215	0	224	4
234	Mrs. Seid Ind.	71	71	74	74	0	74	0	74	0	77	4
235	Pine	226	226	227	227	0	227	0	227	0	237	4
236	Middle Fork	90	90	89	89	0	89	0	89	0	93	4
237	Black Canyon (Shaw)	1,972	1,972	1,973	1,973	0	1,973	0	2,102	7	2,587	31
238	Simplot Cattle Co.	67	67	68	68	0	68	0	0	(100)	0	(100)
239	Simplot Industries	12	12	12	12	0	12	0	12	0	13	8
240	Clipper Flat	219	219	219	219	0	219	0	28	(87)	29	(87)
241	Sisler Ind.	10	10	10	10	0	10	0	10	0	10	0
242	Roy Slyter	32	32	32	32	0	32	0	0	(100)	0	(100)
243	Rocky Ridge	110	110	109	109	0	109	0	109	0	114	5
244	Smith Ind. Allot	17	17	21	21	0	21	0	0	(100)	0	(100)
246	Smith-Black Canyon	86	86	86	86	0	86	0	75	(13)	118	37
247	Wilson Ind.	20	20	20	20	0	20	0	0	(100)	0	(100)
248	Hashagen Ind.	114	114	114	114	0	114	0	114	0	119	4
249	Sturgill Creek	1,285	1,285	1,233	1,233	0	1,233	0	1,108	(10)	1,156	(6)
250	Squaw Creek	25	25	25	25	0	25	0	0	(100)	0	(100)
252	Willow Creek	44	44	40	40	0	40	0	40	0	42	5
253	Butte Field	130	130	128	128	0	128	0	133	4	171	34
254	Sand Hollow	1,500	1,500	1,501	1,501	0	1,501	0	1,290	(14)	1,348	(10)
255	Sutton Ind.	10	10	10	10	0	10	0	0	(100)	0	(100)
256	Sutton Ranches Ind.	16	16	16	16	0	16	0	0	(100)	0	(100)
257	Thomason Ind.	5	5	5	5	0	5	0	0	(100)	0	(100)
258	Thompson	56	56	55	55	0	55	0	55	0	57	4
259	Towell	19	19	19	19	0	19	0	0	(100)	0	(100)
260	Crane Creek Ind.	143	143	143	143	0	143	0	143	0	149	4
261	Twin Sisters	314	314	309	309	0	309	0	309	0	322	4
262	Vogel & Ogle Ind.	32	32	32	32	0	32	0	0	(100)	0	(100)
263	Waite Ind.	26	26	8	8	0	8	0	0	(100)	0	(100)
264	Walker Ind.	10	10	8	8	0	8	0	8	0	8	0
265	Watson Ind.	4	4	2	2	0	2	0	2	0	2	0
266	Montour Ind.	16	16	16	16	0	16	0	16	0	17	6
267	Alder Creek Ind.	163	163	163	163	0	163	0	163	0	170	4
268	Weiser Sheep Co.	212	212	47	47	0	47	0	44	(6)	46	(2)
269	Wells Ind.	23	23	23	23	0	23	0	15	(35)	16	(30)
270	Whiteman Ind.	22	22	22	22	0	22	0	0	(100)	0	(100)
271	Williams - Fairchild	163	163	163	163	0	163	0	193	18	306	88
272	Williamson	41	41	41	41	0	41	0	41	0	43	5
273	Perkins Creek	93	93	93	93	0	93	0	71	(24)	74	(20)
274	Winegar Ind.	32	32	32	32	0	32	0	0	(100)	0	(100)
275	Woodland Ind.	128	128	128	128	0	128	0	128	0	134	5
276	Lindsay Ind.	40	40	40	40	0	40	0	40	0	42	5
278	Spring Valley	739	739	401	361	0	361	0	316	(21)	330	(18)
279	Black Canyon	496	496	344	344	0	344	0	417	21	652	90
280	Lick Creek	1,651	1,651	1,651	1,651	0	1,651	0	1,618	(2)	1,688	2
284	Spring Creek	1,122	1,122	1,355	1,355	0	1,355	0	1,359	0	1,429	5
286	Deardorff Ind.	28	28	28	28	0	28	0	0	(100)	0	(100)
287	Stippich Pasture	40	40	40	40	0	40	0	40	0	42	5
288	Double Diamond	16	16	13	13	0	13	0	0	(100)	0	(100)
289	Porter Creek	15	15	15	15	0	15	0	9	(40)	9	(40)
290	North Hornet	41	41	40	40	0	40	0	40	0	42	5
291	Hornet Creek	6	6	6	6	0	6	0	6	0	6	0
292	D. Moritz Ind.	24	24	24	24	0	24	0	0	(100)	0	(100)
293	North Fork FFR	90	90	36	36	0	36	0	26	(28)	27	(25)
294	U-Bar-M FFR	91	91	95	95	0	95	0	83	(13)	92	(3)
295	Little Willow	244	332	246	246	0	246	0	243	(1)	253	3
297	Wet Gulch	6	6	9	9	0	9	0	0	(100)	0	(100)
298	X5	143	143	134	134	0	134	0	134	0	140	4
299	Cox FFR	18	18	18	18	0	18	0	0	(100)	0	(100)
300	WRR Ind.	4	8	4	4	0	4	0	0	(100)	0	(100)
301	Holland Gulch	553	553	495	495	0	495	0	525	6	651	32
302	Weiser Cove	56	56	56	56	0	56	0	56	0	58	4
303	Skow FFR	6	6	11	11	0	11	0	0	(100)	0	(100)
304	Center Allot.	820	820	742	742	0	742	0	602	(19)	675	(9)
306	Big Creek	80	80	80	80	0	80	0	80	0	83	4
307	Dry Lake	0	0	210	38	0	38	0	17	(92)	20	(90)
308	Sky Ranch Ind.	20	50	20	20	0	20	0	20	0	21	5
309	Boise Front	438	438	361	361	0	361	0	361	0	377	4
310	Black Canyon	2,829	2,829	2,539	2,417	0	2,417	0	2,320	(9)	3,221	27
311	No Unit	1,478	1,478	949	944	0	944	0	944	(1)	985	4
312	Bannister Basin	266	266	264	264	0	264	0	264	0	275	4
313	Fenwick Place	13	13	13	13	0	13	0	13	0	13	0
314	Bingman	14	14	14	14	0	14	0	0	(100)	0	(100)
315	Terteling	5	5	5	5	0	5	0	0	(100)	0	(100)
350	Lucky Peak	26	39	0	0	0	0	0	0	0	0	0
352	Stephens Ind.	44	44	44	44	0	44	0	44	0	46	5
355	Robert Routson Ind.	26	26	26	26	0	26	0	13	(50)	14	(46)
356	Roberts Ind.	8	8	3	3	0	3	0	0	(100)	0	(100)
361	Crane Creek Allot.	568	568	974	974	0	974	0	1,105	13	1,636	68
362	Foothils	1,035	1,035	1,035	1,035	0	1,035	0	1,037	0	1,090	5
363	Drake Allot.	48	48	48	48	0	48	0	48	0	50	4
364	Whiskey Rapids Allot	53	53	54	54	0	54	0	54	0	56	4
365	Old Craig Allot.	49	49	42	42	0	42	0	0	(100)	0	(100)
366	Staley Allot.	36	36	36	36	0	36	0	36	0	38	6
367	Minnie Snyder FFR	97	97	83	83	0	83	0	64	(23)	67	(19)
368	Rock Creek FFR	576	576	576	576	0	576	0	531	(8)	554	(4)
369	McChord Butte	968	968	970	970	0	970	0	970	0	1,012	4
370	Upper	1,027	1,027	1,674	1,674	0	1,674	0	1,647	(2)	1,828	9
371	Callender Ind.	48	48	48	48	0	48	0	0	(100)	0	(100)
372	Warm Springs	305	305	4	4	0	4	0	0	(100)	0	(100)
373	Williams Ind.	37	37	37	37	0	37	0	37	0	39	5
374	1000 Acre Field	12	12	12	12	0	12	0	12	0	13	8
375	Gibson Allot.	12	12	12	12	0	12	0	0	(100)	0	(100)
376	Fry Ind.	22	22	22	22	0	22	0	22	0	23	5
377	Dennet Creek Ind.	96	96	96	96	0	96	0	96	0	100	4
378	Lower Raft Creek	266	266	256	256	0	256	0	250	(2)	261	2
379	Upper Raft Cr. FFR	51	51	51	51	0	51	0	0	(100)	0	(100)
380	Mineral	143	143	143	143	0	143	0	143	0	149	4
381	Cow Camp	27	27	27	27	0	27	0	27	0	28	4
382	Beef Trap	232	232	231	231	0	231	0	236	2	261	13
383	Forsgren Ind.	6	6	6	6	0	6	0	0	(100)	0	(100)
384	Jenkins Creek	196	196	192	192	0	192	0	145	(24)	151	(21)
385	Putnam Custodial	5	5	5	5	0	5	0	5	0	5	0
386	White Butte Allot.	66	66	67	67	0	67	0	67	0	70	4
387	Individual	12	12	10	10	0	10	0	5	(50)	5	(50)
388	Pedro & Upper Wolf	25	25	25	25	0	25	0	10	(60)	10	(60)

Allotment Number	ALTERNATIVE C 5-Year Forage Level AUM's	% Change (-)=decrease	20 Year Forage Level AUM's	% Change (-)=decrease	ALTERNATIVE D 5-Year Forage Level AUM's	% Change (-)=decrease	20 Year Forage Level AUM's	% Change (-)=decrease	ALTERNATIVE E Initial Forage Level AUM's	% Change (-)=decrease	20 Year Forage Level AUM's	% Change (-)=decrease
227	112	600	13	(19)	16	0	17	6	16	0	16	0
228	128	(27)	134	(23)	175	0	185	6	175	0	169	(3)
229	13	(28)	14	(22)	16	(11)	17	(6)	16	0	14	(22)
230	124	(24)	145	(11)	174	7	217	33	162	0	190	17
231	79	(27)	83	(23)	70	(35)	74	(31)	108	0	70	(35)
232	127	(9)	210	50	184	31	366	161	140	0	248	77
233	157	(27)	165	(23)	215	0	227	6	215	0	198	(8)
234	50	(32)	53	(28)	74	0	78	5	74	0	70	(5)
235	166	(27)	174	(23)	227	0	240	6	227	0	218	(4)
236	39	(56)	41	(54)	89	0	94	6	89	0	86	(3)
237	1,524	(23)	1,846	(6)	2,161	10	2,839	44	1,973	0	2,454	24
238	50	(26)	53	(22)	0	(100)	0	(100)	68	0	68	0
239	0	(100)	0	(100)	12	0	13	8	12	0	12	0
240	160	(27)	168	(23)	28	(87)	30	(86)	219	0	219	0
241	7	(30)	7	(30)	10	0	11	10	10	0	10	0
242	24	(25)	25	(22)	0	(100)	0	(100)	32	0	0	(100)
243	80	(27)	84	(23)	109	0	115	6	109	0	109	0
244	15	(29)	16	(24)	0	(100)	0	(100)	21	0	21	0
246	71	(17)	99	15	80	(7)	141	64	86	0	103	20
247	16	(20)	17	(15)	0	(100)	0	(100)	20	0	20	0
248	63	(45)	66	(42)	114	0	121	6	114	0	114	0
249	815	(34)	856	(31)	1,108	(10)	1,173	(5)	1,233	0	1,146	(7)
250	18	(28)	19	(24)	0	(100)	0	(100)	25	0	25	0
252	29	(28)	31	(23)	40	0	42	5	40	0	40	0
253	101	(21)	126	(2)	128	0	190	48	128	0	153	20
254	1,103	(27)	1,178	(22)	1,295	(14)	1,415	(6)	1,501	0	1,591	6
255	7	(30)	7	(30)	0	(100)	0	(100)	10	0	0	(100)
256	4	(75)	4	(75)	0	(100)	0	(100)	16	0	16	0
257	4	(20)	4	(20)	5	0	5	0	5	0	0	(100)
258	40	(27)	42	(24)	55	0	58	5	55	0	55	0
259	14	(26)	15	(21)	0	(100)	0	(100)	19	0	0	(100)
260	104	(27)	109	(24)	143	0	151	6	143	0	152	6
261	226	(27)	237	(23)	309	0	327	6	309	0	312	1
262	24	(25)	25	(22)	0	(100)	0	(100)	32	0	32	0
263	6	(25)	6	(25)	0	(100)	0	(100)	8	0	8	0
264	6	(25)	6	(25)	8	0	9	13	8	0	8	0
265	2	0	2	0	2	0	2	0	2	0	2	0
266	12	(25)	13	(19)	16	0	17	6	16	0	16	0
267	119	(27)	125	(23)	163	0	172	6	163	0	163	0
268	34	(28)	36	(23)	44	(6)	47	0	47	0	32	(32)
269	0	(100)	0	(100)	15	(35)	16	(30)	23	0	16	(30)
270	16	(27)	17	(23)	0	(100)	0	(100)	22	0	21	(5)
271	142	(13)	215	32	207	27	369	126	163	0	254	56
272	30	(27)	32	(22)	41	0	43	5	41	0	41	0
273	68	(27)	71	(24)	71	(24)	75	(19)	93	0	93	0
274	23	(28)	24	(25)	0	(100)	0	(100)	32	0	0	(100)
275	94	(27)	99	(23)	128	0	136	6	128	0	123	(4)
276	0	(100)	0	(100)	40	0	42	5	40	0	40	0
278	232	(42)	244	(39)	351	(12)	372	(7)	361	0	335	(16)
279	297	(14)	447	30	447	30	777	126	344	0	564	64
280	1,173	(29)	1,232	(25)	1,618	(2)	1,713	4	1,651	0	1,376	(17)
284	992	(27)	1,149	(15)	1,361	0	1,458	8	1,355	0	1,416	5
286	21	(25)	22	(21)	0	(100)	0	(100)	28	0	28	0
287	29	(28)	31	(23)	40	0	42	5	40	0	38	(5)
288	9	(31)	9	(31)	0	(100)	0	(100)	13	0	0	(100)
289	11	(27)	12	(20)	9	(40)	10	(33)	15	0	15	0
290	29	(28)	30	(25)	40	0	42	5	40	0	40	0
291	5	(17)	5	(17)	6	0	6	0	6	0	6	0
292	18	(25)	19	(21)	0	(100)	0	(100)	24	0	24	0
293	26	(28)	27	(25)	36	0	38	6	36	0	33	(8)
294	69	(27)	72	(24)	88	(7)	93	(2)	95	0	82	(14)
295	180	(27)	189	(23)	243	(1)	257	4	246	0	257	4
297	78	767	7	(22)	0	(100)	0	(100)	9	0	0	(100)
298	98	(27)	103	(23)	134	0	142	6	134	0	142	6
299	13	(28)	14	(22)	0	(100)	0	(100)	18	0	0	(100)
300	3	(25)	3	(25)	0	(100)	0	(100)	4	0	4	0
301	384	(22)	467	(6)	539	9	714	44	495	0	616	24
302	42	(25)	43	(23)	56	0	59	5	56	0	56	0
303	8	(27)	8	(27)	0	(100)	0	(100)	11	0	0	(100)
304	552	(26)	609	(18)	706	(5)	813	10	742	0	830	12
306	0	(100)	0	(100)	80	0	85	6	80	0	80	0
307	78	(63)	131	(38)	105	(50)	254	21	38	0	113	(46)
308	15	(25)	16	(20)	20	0	21	5	20	0	20	0
309	264	(27)	277	(23)	361	0	382	6	301	0	279	(23)
310	1,914	(25)	2,315	(9)	2,682	6	3,523	39	2,508	0	3,113	23
311	688	(28)	722	(24)	944	(1)	999	5	944	0	1,000	5
312	193	(27)	203	(23)	264	0	279	6	264	0	265	0
313	10	(23)	10	(23)	13	0	14	8	13	0	13	0
314	10	(29)	10	(29)	0	(100)	0	(100)	14	0	0	(100)
315	4	(20)	4	(20)	5	0	5	0	5	0	5	0
350	0	100	0	100	0	0	0	0	26	0	23	ERR
352	32	(27)	34	(23)	44	0	47	7	44	0	44	0
355	19	(27)	20	(23)	13	(50)	14	(46)	26	0	21	(19)
356	3	0	3	0	0	(100)	0	(100)	3	0	0	(100)
361	813	(17)	1,154	18	1,171	20	1,912	96	974	0	1,404	44
362	755	(27)	798	(23)	1,038	0	1,111	7	1,035	0	1,045	1
363	35	(27)	37	(23)	48	0	51	6	48	0	45	(6)
364	39	(28)	41	(24)	54	0	57	6	54	0	51	(6)
365	34	(19)	46	10	49	17	75	79	42	0	57	36
366	26	(28)	27	(25)	36	0	38	6	36	0	36	0
367	61	(27)	64	(23)	64	(23)	68	(18)	83	0	64	(23)
368	421	(27)	442	(23)	531	(8)	562	(2)	576	0	569	(1)
369	708	(27)	743	(23)	970	0	1,027	6	970	0	954	(2)
370	1,245	(26)	1,376	(18)	1,674	0	1,927	15	1,674	0	1,770	6
371	35	(27)	37	(23)	0	(100)	0	(100)	48	0	51	6
372	3	(25)	3	(25)	0	(100)	0	(100)	4	0	0	(100)
373	0	(100)	0	(100)	37	0	39	5	37	0	37	0
374	9	(25)	9	(25)	12	0	13	8	12	0	12	0
375	9	(25)	9	(25)	12	0	13	8	12	0	12	0
376	16	(27)	17	(23)	22	0	24	9	22	0	22	0
377	70	(27)	74	(23)	96	0	102	6	96	0	88	(8)
378	187	(27)	196	(23)	250	(2)	265	4	256	0	265	4
379	37	(27)	39	(24)	0	(100)	0	(100)	51	0	25	(51)
380	104	(27)	109	(24)	143	0	151	6	143	0	133	(7)
381	20	(26)	21	(22)	27	0	29	7	27	0	27	0
382	172	(26)	190	(18)	238	3	275	19	231	0	249	8
383	5	(17)	5	(17)	0	(100)	0	(100)	6	0	0	(100)
384	140	(27)	147	(23)	145	(24)	154	(20)	192	0	170	(11)
385	4	(20)	4	(20)	5	0	5	0	5	0	5	0
386	49	(27)	51	(24)	67	0	71	6	67	0	67	0
387	7	(30)	7	(30)	5	(50)	5	(50)	10	0	5	(50)
388	18	(28)	19	(24)	10	(60)	11	(56)	25	0	24	(4)

Allotment Number	Allotment Name	Pref. Active AUM's	Pref. Total AUM's	Average License Use AUM's	ALTERNATIVE A 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE B 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease
389	Long Hollow Field	190	190	143	143	0	143	0	143	0	149	4
390	Fenced Federal Range	114	114	114	114	0	114	0	108	(5)	113	(1)
391	Little Emmett Allot.	4,253	4,253	3,570	3,964	0	3,964	0	4,247	9	5,684	43
392	Fenced Federal Range	58	58	60	60	0	60	0	60	0	63	5
393	Indian Lake	3,303	3,303	3,262	3,262	0	3,262	0	3,543	9	4,527	39
396	Bivens Purchase	34	34	34	34	0	34	0	27	(21)	28	(18)
1,278	Quartzberg	200	200	0	0	0	0	0	0	0	0	0
388	Fenced Federal Range	124	124	124	124	0	124	0	124	0	129	4
		Pref. Active	Pref. Total	Average License Use								
	TOTALS	72,571	74,662	66,424	66,014	0	66,014	0	61,872	(7)	71,076	7

Allotment Number	ALTERNATIVE C 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE D 5-Year Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease	ALTERNATIVE E Initial Forage Level AUM's	% Change ( )=decrease	20 Year Forage Level AUM's	% Change ( )=decrease
389	104	(27)	109	(24)	143	0	151	6	143	0	137	(4)
390	83	(27)	87	(24)	108	(5)	114	0	114	0	109	(4)
391	3,135	(21)	4,010	1	4,506	14	6,360	61	3,964	0	5,090	28
392	44	(27)	46	(23)	60	0	64	7	60	0	59	(2)
393	2,557	(22)	3,204	(2)	3,658	12	5,035	54	3,262	0	4,110	26
396	25	(26)	26	(24)	27	(21)	29	(15)	34	0	34	0
1,278	0	0	0	0	0	0	0	0	0	0	0	0
388	91	(27)	96	(23)	124	0	131	6	124	0	124	0
TOTALS	47,345	(29)	53,643	(19)	63,942	(4)	76,613	15	66,257	0	70,536	6

APPENDIX G

LIVESTOCK USE LEVELS METHODOLOGY

Alternative A

The 5-year livestock forage use levels are based on the present 5-year average license use minus forage lost to land transfers, exchanges, desert land entries, special designation, historic and cultural areas.

The 20-year livestock forage use levels are identical to the 5-year forage use levels.

Alternative B

The 5-year livestock forage use levels were determined by:

1. Subtracting forage lost to land transfers, exchanges, DLEs, special designation, historic, and cultural areas from the 5-year average license use;

2. Adding one-quarter (1/4) of the 20-year projected forage levels gained from seedings.

Twenty-year livestock forage use levels were determined by:

1. Subtracting forage lost to land transfers, exchanges, DLEs, special designation, historic, and cultural areas from the 5-year average license use;

2. Adding forage gained on 18% of the remaining native range, ie., total acres minus custodial range, excellent condition range, good condition range, and seedings (in other words projecting an improvement of range condition due to increased management, fencing, and water development on 18% of the remaining native range).

3. Adding all of the 20-year projected forage gained from seedings.

Alternative C

The 5-year livestock forage use levels were determined by:

1. Subtracting forage lost to land transfers, exchanges, DLEs, special designation, historic, and cultural areas from the 5-year average license use;

2. Subtracting forage lost to wildlife, watershed, and range condition improvement (27% reduction) from the 5-year average license use;

3. Adding one-quarter (1/4) of the 20-year projected forage levels gained from seedings.

Twenty-year livestock forage use levels were determined by:

1. Subtracting forage lost to land transfers, exchanges, DLEs, special designation, historic, and cultural areas from the 5-year average license use;

2. Subtracting forage lost to wildlife, watershed, and range condition improvement (27% reduction) from the 5-year average license use;

3. Adding forage gained on 20% of the remaining native range, ie., total acres minus acres of custodial range, excellent condition range, good condition range, and seedings (in other words projecting an improvement of range condition due to increased management, fencing, and water development on 20% of the remaining native range; 10% due to management, 10% due to wildlife reductions).

4. Adding all of the 20-year projected forage gained from seedings.

Alternative D

The 5-year livestock forage use levels were determined by:

1. Subtracting forage lost to land transfers, exchanges, DLEs, special designation, historic, and cultural areas from the 5-year average license use;

2. Adding one-quarter (1/4) of the 20-year projected forage levels gained from seedings.

Twenty-year livestock forage use levels were determined by:

1. Subtracting forage lost to land transfers, exchanges, DLEs, special designation, historic, and cultural areas from the 5-year average license use;

2. Adding forage gained on 25% of the remaining native range, ie., total acres minus acres of custodial range, excellent condition range, good condition range, and seedings (in other words projecting an improvement of range condition due to increased management, fencing, and water development on 25% of the remaining native range).

3. Adding all of the 20-year projected forage gained from seedings.

Alternative E

The initial livestock forage use levels were determined by subtracting forage lost to existing land transfer applications currently being processed from the 5-year average license use.

The 5-year livestock forage use levels were determined by starting with the 5-year average license use subtracting forage lost to existing land transfer applications currently being processed, and adding approximately one quarter (1/4) of the 20-year projected forage levels gained from seedings.

Twenty-year livestock forage use levels were determined by:

1. Subtracting forage lost to land transfers, exchanges, DLEs, special designation, historic, and cultural areas from the 5-year average license use;

2. Subtracting forage lost to wildlife big game winter and summer range from the 5-year average license use;

3. Adding forage gained on 25% of the remaining native range, ie., total acres minus acres of custodial range, excellent condition range, good condition range, and seedings (in other words projecting an improvement of range condition due to increased management, fencing, and water development on 25% of the remaining native range).

4. Adding all of the 20-year projected forage gained from seedings.

APPENDIX H

AQUATIC HABITAT IMPROVEMENT PROJECTS

Stream	Location: Township	Location: Range	Location: Allotment	Proposed Alternatives	Existing Habitat Condition (miles)	Habitat Condition End of 20 Years	Project Treatment 1/
Harris Creek	6 N.	2 E.	278	A,B,C,D,E	0.4 mi Fair	Good	Rip-rap road erosion, streambank planting
Shafer Creek	6 N.	2 E.	278,045,070	A,B,C,D,E	1.5 mi Fair	Good	Rip-rap road erosion, streambank planting, fence
Big Willow Creek	9 N.	1 W.	005,393,009	A,B,C,D,E	3.1 mi Fair	Good	Fence, rip-rap, streambank plantings, instream structure
Little Weiser R.	14 N.	1 E.	041	C,E	0.7 mi Fair	Good	Rip-rap road erosion, streambank plantings
Manns Creek	13 N.	5 W.	208	A,C,D,E	1.6 mi Good	Good	Rip-rap eroding areas, streambank plantings
Dennett Creek	14 N.	6 W.	377,378,380	A,B,C,D,E	3.4 mi Poor	Good	Fence, rip-rap eroding areas, streambank plantings, instream structures
Rock Creek	13 N.	6 W.	368,207,214 032	A,B,C,D,E	3.1 mi Poor	Good	Fence, streambank planting
N. Fk. Payette R.	17 N.	3 E.		A,B,C,D	3.0 mi Fair	Fair	Streambank planting
Deer Creek	9 N.	4 E.	003	C	1.1 mi Fair	Fair	Fence small meadows
Lt. Pine Creek	16 N.	4 W.	156	A,C	0.7 mi Fair	Good	Fence/streambank plantings
Grouse Creek	12 N.	7 W.	194	A,D	0.9 mi Fair	Good	Fence
Lt. Willow Creek	10 N.	2 W.	191	A,D	3.0 mi Fair	Good	Fence

1/ These projects were designed primarily to improve aquatic habitat but will also improve riparian habitat.

APPENDIX I

RIPARIAN HABITAT CONDITION

Creek		Length	Existing Habitat Condition	Location: Allotment	Location: Town-ship	Location: Range	Alternatives A	B	C	D	E	Comments
Cold Springs Cr.		0.3 mi	Excellent	276	18 N.	1 W.	Ex	Ex	Ex	Ex	Ex	Maintain in all alternatives
Lt. Johnson Cr.	*	1.1 mi	Good	016	16 N.	2 W.	G	G	G	G	G	Maintain in all alternatives
		0.3 mi	Good	161			G	G	G	G	G	Maintain in all alternatives
Goodrich Cr.	*	0.8 mi	Excellent	016	16 N.	2 W.	Ex	Ex	Ex	Ex	Ex	Maintain in all alternatives
Sring Cr. (West)	*	1.6 mi	Fair	095	15 N.	3 W.	F	F	G	F	F	To good in C due to livestock reduction
	*	1.1 mi	Good	095			G	G	G	G	G	Maintain in all alternatives
Camp Cr.		0.3 mi	Good	033	15 N.	3 W.	G	G	G	G	G	Maintain in all alternatives
	*	0.9 mi	Good	095			G	F	G	F	F	To fair in B,D,E due to livestock increases
Deep Cr. (North)	*	1.6 mi	Poor	056	14 N.	4 W.	P	P	P	P	P	Maintain in all alternatives
Hopper Cr.	*	1.4 mi	Good	233	14 N.	4 W.	G	F	G	F	G	To fair in B,D due to livestock increases
Keithly Cr.	*	1.6 mi	Good	233	14 N.	4 W.	G	G	G	G	G	Maintain in all alternatives
Keithly Cr. Trib.	*	1.1 mi	Good	233	14 N.	4 W.	G	G	G	G	G	Maintain in all alternatives
Sage Cr.	*	0.3 mi	Fair	208	14 N.	5 W.	F	P	G	P	F	To poor in B,D stock increases, to good in C stock reductions
	*	1.1 mi	Good	208	14 N.	5 W.	G	G	G	G	G	Maintain in all alternatives
	*	1.5 mi	Excellent	208	14 N.	5 W.	Ex	Ex	Ex	Ex	Ex	Maintain in all alternatives
Fir Cr.		1.2 mi	Good	SD	13 N.	5 W.	G	G	G	G	G	Maintain in all alternatives
		1.0 mi	Good	068			G	G	G	G	G	Maintain in all alternatives
		0.2 mi	Good	027			G	G	G	G	G	Maintain in all alternatives
Manns Cr.	*	1.6 mi	Fair	208	13 N.	5 W.	F	F	F	F	F	Maintain in all alternatives
Trib. to "Canal Cr."	*	1.8 mi	Fair	208	14 N.	5 W.	F	F	F	F	F	Maintain in all alternatives
Indian Cr. (North)		0.7 mi	Good	280	19 N.	4 W.	G	G	G	F	G	To fair in D due to livestock increases
		0.4 mi	Excellent	280			Ex	Ex	Ex	G	Ex	To good in D due to livestock increases
Summer Cr.		1.2 mi	Good	280	18 N.	4 W.	G	G	G	F	G	To fair in D due to livestock increases
Trib. to Summer Cr.		0.6 mi	Good	280	18 N.	6 W.	G	G	G	F	G	To fair in D due to livestock increases
Jackson Gulch	*	0.2 mi	Fair	170	16 N.	6 W.	F	G	G	G	G	To good in B,C,D,E due to livestock reductions
	*	0.7 mi	Good	170			F	Ex	Ex	Ex	Ex	To fair in A due to downward trend; to excellent in B,C,D,E due to livestock reductions
Lone Pine Gulch	*	0.6 mi	Fair	249	16 N.	6 W.	F	F	F	F	F	Maintain in all alternatives
	*	0.8 mi	Good	249			F	F	F	F	F	To fair in A,B,C,D,E due to livestock levels/downward trend
Lick Cr.	*	1.5 mi	Good	249	15 N.	6 W.	F	F	F	F	F	To fair in A,B,C,D,E due to livestock levels/downward trend
Trib. to Lick Cr.	*	0.6 mi	Good	249	15 N.	6 W.	F	F	F	F	F	To fair in A,B,C,D,E due to livestock levels/downward trend
Sheep Cr.	*	0.6 mi	Fair	249	15-16 N.	6 W.	F	F	F	F	F	Maintain in all alternative
	*	0.6 mi	Good	249			F	G	G	G	G	Good to fair in A due to stocking rate/ downward trend
Dennett Cr.		0.2 mi	Good	377	15 N.	6 W.	G	G	G	G	G	Maintain due to fencing proposal
	*	0.5 mi	Fair	380			G	G	G	G	G	To good in all due to fencing proposal
	*	1.6 mi	Good	380			G	G	G	G	G	Maintain in all due to fencing proposal
Golden Goose Canyon	*	0.2 mi	Fair	369	14 N.	6 W.	F	F	F	F	F	Maintain in all alternatives
	*	0.8 mi	Good	369			F	F	G	F	G	To fair in A,B,D due to livestock levels/ downward trend
Sumac Cr.	*	1.3 mi	Fair	369	14 N.	6 W.	F	F	F	F	F	Maintain in all alternatives
Thorn Spring Cr.	*	0.4 mi	Fair	369	14 N.	6 W.	F	F	F	F	F	Maintain in all alternatives
Trib. of Wolf Cr.	*	1.0 mi	Good	142	13 N.	6 W.	G	G	G	G	G	Maintain in all alternatives
Rock Cr.	*	0.4 mi	Fair	207	13 N.	6 W.	G	G	G	G	G	To good in all due to fencing proposal
		1.0 mi	Good	214			G	G	G	G	G	Maintain due to fencing proposal
		0.3 mi	Fair	214			G	G	G	G	G	To good in all due to fencing proposal
Trib. to Rock Cr.		1.1 mi	Good	032	13 N.	6 W.	G	G	G	G	G	Maintain in all alternatives
Indian Cr. (South)	*	0.5 mi	Fair	005	9 N.	2 W.	F	F	F	F	F	Maintain in all alternatives
	*	1.7 mi	Good	370,005			G	G	G	G	G	Maintain in all alternatives
	*	0.7 mi	Excellent	370			Ex	Ex	Ex	Ex	Ex	Maintain in all alternatives
Rattlensake Cr.	*	0.8 mi	Fair	191	9 N.	2 W.	F	F	F	F	F	Maintain in all alternatives
	*	0.5 mi	Good	191			G	G	G	G	G	Maintain in all alternatives
Weiser River	*	0.5 mi	Poor	066,361,202	11-12 N.	4 W.	P	P	P	P	P	Maintain in all alternatives
	*	1.9 mi	Fair	230,202,361 243, 187			F	F	F	F	F	Maintain in all alternatives
	*	2.4 mi	Good	230,361,243 187			G	G	G	G	G	Maintain in all alternatives
Crane Cr.	*	1.3 mi	Fair	361,304,062	11-12 N.	2-3 W	F	F	F	F	F	Maintain in all alternatives
	*	2.8 mi	Good	361,304,062			G	G	G	G	G	Maintain in all alternatives
Trib. to Crane Cr.	*	0.7 mi	Fair	361	11 N.	3 W.	F	F	F	F	F	Maintain in all alternatives
	*	0.4 mi	Good	361			G	G	G	G	G	Maintain in all alternatives

Creek	Length	Existing Habitat Condition	Location: Allotment	Location: Township	Location: Range	Alternatives A	B	C	D	E	Comments
S. Fk. Payette River	0.8 mi	Fair	N/A	9 N.	3-4 E	F	F	F	F	F	Maintain in all alternatives
	2.0 mi	Good	N/A			G	G	G	G	G	Maintain in all alternatives
Deer Cr. *	1.0 mi	Good	003	9 N.	4 E.	G	G	G	G	G	Maintain in all alternatives
Trib. to Deer Cr. *	1.9 mi	Good	003	9 N.	4 E.	G	G	G	G	G	Maintain in all alternatives
Cove Cr.	0.8 mi	Fair	301,021	10 N.	3 W.	F	F	F	F	F	Maintain in all alternatives
	0.7 mi	Good	301,021			G	G	G	G	G	Maintain in all alternatives
Little Willow Cr. *	2.3 mi	Fair	191	10 N.	2 W.	G	F	F	G	F	To good in A,D due to fencing proposal
	1.2 mi	Good	191			G	G	G	G	G	Maintain in all alternatives
Big Willow Cr. *	0.1 mi	Fair	393	9 N.	1 W.	G	G	G	G	G	To good in A,B,C,D,E due to fencing proposal
	* 1.1 mi	Good	393			G	G	G	G	G	Maintain in all alternatives
Trib. to Big Willow *	0.6 mi	Fair	005	9 N.	1 W.	F	F	F	F	F	Maintain in all alternatives
Four Mile Cr. *	1.6 mi	Fair	005	9 N.	1 W.	F	F	F	F	F	Maintain in all alternatives
Dry Cr. *	1.8 mi	Good	005	9 N.	1-2 W	G	G	G	F	G	To fair in D due to livestock increases
Coonrod Gulch *	0.6 mi	Fair	005	9 N.	1 W.	F	F	F	F	F	Maintain in all alternatives
	* 0.1 mi	Good	005			G	G	G	G	G	Maintain in all alternatives
Sucker Cr. *	1.1 mi	Good	393	8 N.	1 W.	G	F	G	F	G	To fair in B,D due to livestock increases
Squaw Cr. *	0.6 mi	Good	391	8 N.	1 E.	G	F	G	F	G	To fair in B,D due to livestock increases
Box Cr.	0.9 mi	Excellent	N/A	20 N.	3 E.	Ex	Ex	Ex	Ex	Ex	Maintain in all alternatives
Kennally Cr.	0.2 mi	Poor	178	17 N.	4 E.	P	P	P	P	P	Maintain in all alternatives
	0.4 mi	Good	178			G	G	G	G	G	Maintain in all alternatives
	0.2 mi	Excellent	178			Ex	Ex	Ex	Ex	Ex	Maintain in all alternatives
Rapid Cr.	0.1 mi	Poor	178	17 N.	4 E.	P	P	P	P	P	Maintain in all alternatives
	0.1 mi	Fair	178			F	F	F	F	F	Maintain in all alternatives
	0.3 mi	Good	178			G	G	G	G	G	Maintain in all alternatives
Sloans Cr.	1.0 mi	Good	038	16 N.	4 E.	G	G	G	G	G	Maintain in all alternatives
Shafer Cr.	1.0 mi	Good	070,045,278	6 N.	2 E.	G	G	G	G	G	Maintain in all alternatives
Harris Cr.	0.3 mi	Good	278	6 N.	2 E.	G	G	G	G	G	Maintain in all alternatives
Grizzly Cr.	1.0 mi	Good	041	13 N.	1 E.	G	G	G	F	G	To fair in D due to livestock increases
Mill Cr.	1.0 mi	Fair	041	13 N.	1 E.	F	F	F	F	F	Maintain in all alternatives
	* 1.3 mi	Good	261			G	G	G	G	G	Maintain in all alternatives
Road Gulch *	1.7 mi	Good	006	12 N.	1 E.	G	F	G	F	G	To fair in B,D due to livestock increases
Sheep Cr. *	0.4 mi	Fair	006	11 N.	1 E.	F	F	F	F	F	Maintain in all alternatives
	* 1.0 mi	Good	006			G	F	G	F	G	To fair in B,D due to livestock increases
Spring Cr. 1 *	1.0 mi	Unsuit.	284	12 N.	1 E.	Uns	Uns	Uns	Uns	Uns	Maintain in all alternatives
Spring Cr. 2 *	0.6 mi	Unsuit.	284	12 N.	1 W.	Uns	Uns	Uns	Uns	Uns	Maintain in all alternatives
Grays Cr. *	1.8 mi	Good	043	14 N.	1 E.	G	G	G	G	G	Maintain in all alternatives
N. Fk. Grays Cr.	0.3 mi	Good	293	15 N.	1 E.	G	G	G	G	G	Maintain in all alternatives
Middle Fk. Weiser R.	0.1 mi	Good	236	15 N.	1 E.	G	G	G	G	G	Maintain in all alternatives
Cottonwood Cr.	2.2 mi	Good	311	3-4 N	3 E.	G	G	G	G	G	Maintain in all alternatives
Trib to Cottonwood Cr	0.7 mi	Fair	311	4 N.	3 E.	F	F	F	F	F	Maintain in all alternatives
Orchard Gulch	1.2 mi	Good	311	4 N.	3 E.	G	G	G	G	G	Maintain in all alternatives
Hulls Gulch	2.8 mi	Good	311	4 N.	3 E.	G	G	G	G	G	Maintain in all alternatives
Picket Pin Cr.	0.5 mi	Fair	311	3 N.	3 E.	F	F	F	F	F	Maintain in all alternatives
Deer Cr. *	0.9 mi	Fair	043	14 N.	1 E.	F	F	F	F	F	Maintain in all alternatives
	* 1.3 mi	Good	043			G	G	G	G	G	Maintain in all alternatives
Crumley Gulch	2.3 mi	Good	278	6 N.	3 E.	G	G	G	G	G	Maintain in all alternatives
King Hill Cr.	0.4 mi	Good	041	14 N.	1 E.	G	G	G	G	G	Maintain in all alternatives
Grouse Cr. *	0.8 mi	Good	194	12 N.	7 W.	G	G	G	G	G	Maintain in all alternatives
Adams Cr.	0.2 mi	Fair	SD	13 N.	5 W.	F	F	F	F	F	Maintain in all alternatives
Picket Pin Cr. *	1.6 mi	Fair	309	3 N.	3 E.	G	G	G	G	G	To good in A,B,C,D,E due to revised AMP
Wildhorse River	1.9 mi	Good	280,013	18 N.	4 W.	G	G	G	G	G	Maintain in all alternatives
Unnamed Drainages of *	4.5 mi	Fair	225,194,195	11-16	6-7 W	F	F	F	F	F	Maintain in all alternatives
Brownlee Reservoir			364,368	N.							
	8.5 mi	Good				G	G	G	G	G	Maintain in all alternatives
Unnamed Drainages *	3.5 mi	Fair	016	15-16	2 W.	F	F	F	F	F	Maintain in all alternatives
				N.							
Unnamed Trib. of *	1.0 mi	Fair	233	14 N.	4 W.	F	F	F	F	F	Maintain in all alternatives
Hopper Cr. *	2.3 mi	Good	233			G	G	G	G	G	Maintain in all alternatives
Polk Cr. *	1.0 mi	Good	393	8 N.	1 W.	G	F	G	F	G	To fair in B,D due to livestock increases

* Portions of these streams are in allotments with proposed new or revised AMPs. Improvement will occur though it may not be to the next higher condition class.
Unsuit. - Unsuitable Rating
SD - Stock Driveway

APPENDIX J

AQUATIC/FISHERIES HABITAT CONDITION

Watershed and Creek	Location: Allotment	Location: Township	Location: Range	Miles of Potential Fishery Habitat Not Surveyed	Habitat Condition - Existing Situation: Excellent	Good	Fair	Poor	Total of Surveyed Miles	Alternative A Habitat Condition: Excellent	Good	Fair	Poor	Alternative B: Excellent	Good	Fair	Poor	Alternative C: Excellent	Good	Fair	Poor	Alternative D: Excellent	Good	Fair	Poor	Alternative E: Excellent	Good	Fair	Poor
Boise River Watershed																													
Granite Creek	1278	7 N.	4 E.	1.8																									
Grimes Creek	1278	7 N.	5 E.	1.4																									
Elk Creek	1278	6 N.	5 E.	0.8																									
Payette River Watershed																													
Box Creek	N/A	20 N.	3 E.		0.8				0.8	0.8				0.8				0.8				0.8				0.8			
Poorman Creek	N/A	18 N.	4 E.	0.6																									
Paddy Creek	N/A	17 N.	4 E.		0.9				0.9	0.9				0.9				0.9				0.9				0.9			
Rapid Creek	178	17 N.	4 E.		0.7				0.7	0.7				0.7				0.7				0.7				0.7			
Kennally Creek	178	17 N.	4 E.		0.7				0.7	0.7				0.7				0.7				0.7				0.7			
Sloans Creek	038	16 N.	4 E.	0.5																									
N. Fk. Payette River	N/A	17 N.	3 E.				3.0		3.0			3.0				3.0				3.0				3.0				3.0	
	308,166,183	13 N.	4 E.				3.7		3.7			3.7				3.7				3.7				3.7				3.7	
	N/A	12 N.	4 E.			0.6			0.6		0.6				0.6				0.6				0.6				0.6		
	115,037,003, 256,289	8 N.	3 E.			5.6			5.6		5.6				5.6				5.6				5.6				5.6		
S. Fk. Payette River	115,003	9 N.	3-4 E			7.3			7.3		7.3				7.3				7.3				7.3				7.3		
Deer Creek	003	9 N.	4 E.				1.1		1.1			1.1				1.1			1.1						1.1			1.1	
Smith Creek	092	9 N.	4 E.			0.8			0.8		0.8					0.8			0.8				0.8				0.8	
Lt. Gooseberry Creek	092	9 N.	4 E.			1.5			1.5		1.5					1.5			1.5				1.5				1.5	
Gooseberry Creek	092	9 N.	4 E.			1.4			1.4		1.4					1.4			1.4				1.4				1.4	
Anderson Creek	092	9 N.	4 E.			0.6			0.6		0.6					0.6			0.6				0.6				0.6	
Charters Creek	064	9 N.	4 E.				0.9		0.9			0.9				0.9				0.9				0.9				0.9	
Coski Creek	267	8 N.	4 E.				0.5		0.5			0.5				0.5				0.5				0.5				0.5	
Shilling Creek	267	8 N.	4 E.				0.3		0.3			0.3				0.3				0.3				0.3				0.3	
McKenzie Creek	267	8 N.	4 E.				0.3		0.3			0.3				0.3				0.3				0.3				0.3	
Longs Creek	267	8 N.	4 E.				0.3		0.3			0.3				0.3				0.3				0.3				0.3	
Alder Creek	267	8 N.	4 E.			1.3			1.3		1.3				1.3				1.3				1.3				1.3		
Shafer Creek	278,045,070	6 N.	2 E.				1.5		1.5			1.5				1.5			1.5					1.5			1.5		
Harris Creek	278	6 N.	2 E.				0.4		0.4			0.4				0.4				0.4				0.4				0.4	
Custer Creek	278	5 N.	2 E.			0.5			0.5		0.5				0.5				0.5				0.5				0.5		
Lt. Willow Creek	191	10 N.	2 W.				3.0		3.0		3.0					3.0				3.0			3.0					3.0	
Indian Creek	370,074	9 N.	2 W.			3.0			3.0		3.0				3.0				3.0				3.0				3.0		
Big Willow Creek	005,393	9 N.	1 W.				3.1		3.1		3.1				3.1				3.1				3.1				3.1		
Weiser River Watershed																													
Weiser River	303,187,230,361	11-18 N	1-4 W				1.0	5.5	6.5			1.0	5.5			1.0	5.5			1.0	5.5			1.0	5.5			1.0	5.5
	258,267,076																												
Lt. Weiser River	041	14 N.	1 E.				0.7		0.7			0.7				0.7			0.7					0.7			0.7		
Goodrich Creek	016	15-16 N	2 W.			1.0			1.0		1.0				1.0			1.0					1.0				1.0		
Keithly Creek	233	14 N.	4 W.			1.8			1.8		1.8				1.8			1.8					1.8				1.8		
East Keithly Creek	233	14 N.	4 W.			1.3			1.3		1.3				1.3			1.3					1.3				1.3		
Sage Creek	208	14 N.	5 W.			1.6			1.6		1.6				1.6			1.6					1.6				1.6		
Manns Creek	208	13 N.	5 W.			1.6			1.6		1.6				1.6			1.6					1.6				1.6		
Adams Creek	N/A	13 N.	5 W.			0.3			0.3		0.3				0.3				0.3				0.3				0.3		
Fir Creek	068,027	13 N.	5 W.			2.4			2.4		2.4				2.4				2.4				2.4				2.4		
Lt. Pine Creek	156	16 N.	4 W.				0.7		0.7		0.7				Transfer			0.7					Transfer					0.7	
Crane Creek	361,304,062	11-12 N	2-3 W				7.8		7.8			7.8				0.2	7.6			7.8				0.2	7.6			7.8	
King Hill Creek	041	14 N.	1 E.			0.3			0.3		0.3				0.3				0.3				0.3				0.3		
Snake River Watershed																													
Indian Creek	280	19 N.	4 W.		1.1				1.1	1.1				1.1				1.1					1.1			1.1			
Wildhorse River	280,013	18 N.	4 W.		2.0				2.0	2.0				2.0				2.0				2.0				2.0			
No Business Creek	013	18 N.	4 W.	0.6																									
Dukes Creek	139	17 N.	4 W.				1.0		1.0		1.0				Transfer				Transfer				Transfer				Transfer		
Sturgill Creek	249	15-16 N	6 W.	0.8																									
Dennett Creek	377	14 N.	6 W.					0.3	0.3		0.3				0.3				0.3				0.3				0.3		
North Dennett Creek	378,380,204	14 N.	6 W.					0.8	0.8		0.8				0.8				0.8				0.8				0.8		
South Dennett Creek	380	14 N.	6 W.					2.3	2.3		2.3				2.3				2.3				2.3				2.3		
Rock Creek	368,207,214,032	13 N.	6-7 W					3.1	3.1		3.1				3.1				3.1				3.1				3.1		
Grouse Creek	194	12 N.	7 W.				0.9		0.9		0.9					0.9			0.9				0.9					0.9	
Wolf Creek	369	14 N.	6-7 W	0.7																									
TOTALS				7.2	6.2	32.9	30.2	12.0	81.3	6.2	48.1	21.5	5.5	6.2	38.2	22.1	13.1	14.2	39.4	21.2	5.5	5.1	43.2	17.1	14.2	6.2	45.1	23.5	5.5

APPENDIX K

VISUAL RESOURCE MANAGEMENT

The Visual Resource Management (or VRM) system provides Bureau managers with a means for determining visual resource values so that visual resources can be considered in the planning and design of management activities. The inventory consists of a scenic quality evaluation, sensitivity level analysis, and a determination of distance zones. Based upon these three factors, each area of land is then classified into one of four visual resource classes. Each class has an objective for maintaining visual resources, with allowances for visual change in the existing landscape. The various classes are then submitted, as inventoried, for consideration in developing Resource Management Plans (RMP). Following management review, adjustments to the visual classes are made if necessary and the approved class objectives become part of the Resource Management Plan.

The objective of Class I is to preserve the existing character of the landscape. Only congressionally authorized wilderness areas, wild rivers, and designated natural areas will be recommended for Class I. The level of change to existing visual resources conditions will probably be extremely low because only very limited development (e.g., hiking trails) will occur in these areas. This class is primarily intended to accommodate the needs of programs such as wilderness management and botanical or scientific studies.

The objective of Class II is to retain the existing character of the landscape. The change to existing visual resource conditions can be low. Management activities can be seen but should not be noticeable to the casual observer. Changes must repeat the basic elements of form, line, color and texture found in the predominant features of the characteristics landscape.

The objective of Class III is to partially retain the existing character of the landscape. The change to existing visual resource conditions can be moderate. Management activities can attract attention but should not dominate the view of the casual observer. Changes should repeat the basic elements found in the predominant features of the characteristic landscape.

The objective of Class IV is to plan for major modification of the existing character of the landscape. The change to existing visual resource conditions can be high. Management activities can dominate the view and be the major focus of viewer attention. Repetition of the basic elements is not necessary, but should be done if feasible. (See Bureau Manuals 8400, 8410, 8431 for more detail on the VRM system.)

APPENDIX L

RECREATION OPPORTUNITY SPECTRUM

Recreation Opportunity Spectrum (or ROS) is a conceptual framework designed for inventory, planning and management of public lands from a recreation perspective. Six ROS classes describe settings for recreation from the very developed urban setting at one end of the spectrum to the undeveloped, natural setting of a wilderness at the other.

ROS classifications are determined on the basis of physical, social and managerial setting criteria. Physical setting criteria include remoteness, size of area, and evidence of human use. Social setting criteria reflect the level and types of contacts between individuals or groups which can be expected in an area. Managerial setting criteria reflect the kind and extent of management services and facilities provided to support recreation use, and the restrictions placed on people's actions by the administering agency.

ROS can be used to describe the existing situation or a situation to develop for the future. It recognizes the diversity of needs and desired experiences of recreationists as a whole. (Please see Bureau Manual 8320, titled Planning for Recreation Resources, for a detailed description of ROS.)

APPENDIX M

ECONOMIC SAMPLE CALCULATION

Crop	Yield/Acre[1/]	Price[2/]	Sales/ Acre	% of Total	Total Sales
Alfalfa Estab.	1.0 ton	$71.15	71.15	1	$ 0.71
Alfalfa	7.0 ton	71.15	498.05	5	24.90
Winter Wheat	105.0 Bu	3.99	418.95	17	71.22
Barley	113.0 Bu	2.94	332.22	17	56.48
Potatoes	425.0 CWT	5.12	2,176.00	22	478.72
Sugar Beets	32.0 ton	42.86	1,371.52	17	233.16
Dry Edible Beans	28.0 CWT	17.69	495.32	21	104.02
					$969.21

1/ As estimated for Soil Class 2, Canyon County.
2/ FY-1985 Normalized Crop Price.

Sales Per Acre	= $ 969	
Total Acres	= 560	
TOTAL Sales	= $542,600	
Earnings/Gross Output Ration	= .383	(U.S.D.C., B.E.A. 1977)
Direct Earnings	= $207,800	
Gross Output Multiplier	= 2.549	(U.S.D.C., B.E.A. 1977)
TOTAL Earnings	= $529,700	

Total Farm Earnings	= $96,317,000
% Direct of Total Farm	= 0.2%

Total RMP Area Earnings	= $2,336,753,000
% Total of Total RMP Earnings	= 0.02%

Employment Calculations

Direct Earnings	= $207,800	- $28,000	=	7 jobs
Secondary Earnings	= 321,900	- $19,000	=	17 jobs
TOTAL Earnings	= $529,700			24 jobs

APPENDIX N

GROSS OUTPUT MULTIPLIERS
BEA ECONOMIC AREA 159 1/

Industry	WRC Sector 2/	Multiplier
Agriculture	(03) Meat Animals, Misc. Livestock	2.662
	(08) Vegetables, Sugar, Crops	2.549
Manufacturing	(19) Meat Products	2.774
	(27) Frozen Meats and Vegetables	2.191
	(29) Prepared Feed for Animals	2.138
	(34) Other Food Products	2.060
	(38) Lumber and Wood Products	2.395
	(46) Stone, Clay, and Glass Products	2.122
Retail Trade	(54) Wholesale and Retail Trade	2.262
Wholesale Trade	(54) Wholesale and Retail Trade	2.262
Services	(56) Services	2.296
Construction	(18) General Contractors	2.022
Finance, Insurance, Real Estate	(55) Finance, Insurance, Real Estate	1.803
Transportation and Public Utility	(53) Transportation, Communication, Public Utility	1.978

Source: U.S. Water Resources Council, 1977.

1/ Bureau of Economic Analysis Area that includes the Cascade Resource Area.
2/ May include several Standard Industrial Classifications.

APPENDIX O

EARNINGS/GROSS OUTPUT RATIOS
REGION 159

Industry	Calculation 1/	Ratio
03	$\frac{1}{2.662}(.158) + (1 - \frac{1}{2.662})(.3008)$	0.247
08	$\frac{1}{2.549}(.511) + (-\frac{1}{2.549})(.3008)$	0.383
18	$\frac{1}{2.022}(.289) + (-\frac{1}{2.022})(.3008)$	0.295
19	$\frac{1}{2.774}(.095) + (-\frac{1}{2.774})(.3008)$	0.227
27	$\frac{1}{2.191}(.138) + (-\frac{1}{2.191})(.3008)$	0.227
29	$\frac{1}{2.183}(.040) + (-\frac{1}{2.183})(.3008)$	0.179
34	$\frac{1}{2.060}(.220) + (-\frac{1}{2.060})(.3008)$	0.261
38	$\frac{1}{2.395}(.239) + (-\frac{1}{2.395})(.3008)$	0.275
46	$\frac{1}{2.122}(.317) + (-\frac{1}{2.122})(.3008)$	0.308
53	$\frac{1}{1.978}(.311) + (-\frac{1}{1.978})(.3008)$	0.306
54	$\frac{1}{2.262}(.513) + (-\frac{1}{2.262})(.3008)$	0.395
55	$\frac{1}{1.803}(.160) + (-\frac{1}{1.803})(.3008)$	0.223
56	$\frac{1}{2.296}(.487) + (-\frac{1}{2.296})(.3008)$	0.382

1/ Calculation Routine Described in U.S. Water Resources Council - pg. 18

APPENDIX P

MONITORING AND EVALUATION

The decisions outlined in the Cascade RMP will be implemented over a period of ten to twenty years or more, depending on the availability of funding and manpower. The effects of implementation will be monitored and evaluated on a periodic basis over the life of the plan. The general purposes of this monitoring and evaluation will be:

(1) To determine if an action is fulfilling the purpose and need for which it was designed, or if there is a need for modification or termination of an action.

(2) To discover unanticipated and/or unpredictable effects.

(3) To determine if mitigation measures are working as prescribed.

(4) To ensure that decisions are being implemented as scheduled.

(5) To provide continuing evaluation of consistency with state and local plans and programs.

(6) To provide for continuing comparison of plan benefits versus costs, including social, economic, and environmental.

A specific monitoring plan will be written for the wildlife, watershed, and range programs. This plan will provide a framework for choosing the study methods that will provide the information needed to issue and implement specific management decisions which effect watershed, wildlife, and range. Monitoring efforts will focus on allotments in the Improve category. For the range program, methodologies are available for monitoring vegetative trend, forage utilization, actual use (livestock numbers and periods of grazing), and climate. The data collected from these studies will be used to evaluate current stocking rates, to schedule pasture moves by livestock, to determine levels of forage competition, to detect changes in plant communities, and to identify patterns of forage use. If monitoring studies indicate that allotment or area objectives are not being met then management actions will be adjusted accordingly. For the grazing program, this may include adjusting livestock seasons of use, livestock stocking levels or the grazing system being used or exclusion of livestock via fencing.

Minimum monitoring standards have been adopted by the State of Idaho, Bureau of Land Management. They are included in the Minimum Monitoring Standards for BLM-Administered Rangelands in Idaho. See the attached table for minimum data elements to be monitored for various resource values as described in the Handbook. New studies will be consistant with the minimum standards recommendations. More intensive or specialized studies may be utilized if a management need exists and funding is available.

Priorities for monitoring grazing allotments will be established in the Plan Decision Document. The methodology and intensity of study that is chosen for a particular allotment will be determined by the nature and severity of the resource conflicts that are present in that allotment.

For the wildlife program, monitoring will be directed at the biotic resource components using both temporary and permanent studies. The findings from these studies can be used to monitor responses in habitat condition and trend; monitor forage availability, composition, and vigor; monitor changes in cover and habitat effectiveness; and monitor habitat management objectives.

For timber management, monitoring will be on a stand basis for determining the need and timing of silvicultural practices or adjustment in harvesting techniques. The program will be monitored to ensure compliance with both timber harvest and aquatic management objectives.

Monitoring for the watershed program will mainly involve monitoring soil erosion, although trend in stream bank stability and water quality will be monitored for mining, forestry activities, and grazing activities.

Specific monitoring plans for other programs will be developed if the need arises.

The data collected from the monitoring and evaluation process will be analyzed and fed back into the decision making process. This will provide information regarding the effects of the land use decisions, the adequacy of mitigation methods, etc. If monitoring indicates that significant unexpected adverse impacts are occurring or the mitigating measures are not working as predicted, it may be necessary to amend or revise the RMP. Conversely, if implementation and mitigating efforts are highly successful, monitoring and evaluation efforts may be reduced.

The discussion and outline below describes the approach and criteria for monitoring water quality, wetlands and riparian areas.

Monitoring will be conducted to resolve problems with management activities and evaluate management objectives as to whether or not they are being achieved, and if not, why not, and to recommend future actions. Where the management activity is ineffective, the manager will be notified so that other options can be initiated. In addition, effective management will be documented to make available a data base containing management activities and their associated effectiveness.

Monitoring will be conducted at a level commensurate with the level of site instability and sensitivity of the beneficial uses. Monitoring intensity as described by Meyers (1986) will be used as a guide. Level I (low level) monitoring will normally be conducted in areas that are producing few resource benefits that are generally not deteriorated and are not sensitive to change. Level II (high level) monitoring will normally be conducted where resource values are high and sensitive to change, or where there is a high potential for improvement from a low value condition, or where resource values are suspected of being impacted.

Monitoring plans will be formulated by providing clear descriptions of the prescribed management activity, the affected resource, the variables which the management activity will influence, the indicator variables which will test the attainment of management objectives, and the standards by which these indicator variables will be measured. Indicator variables will need to relate to the affected resource (i.e., beneficial use) in order to answer the monitoring question of whether or not there is a change and what the change is.

Monitoring plans developed for water quality/wetlands/riparian areas will generally include the elements of the following outline:

Water Quality/Wetlands/Riparian Area Monitoring Plan.

I. Planning

A. Description of management activity to be monitored.
B. Description of affected resource (beneficial uses and standards).
C. Description of processes connecting the management activity and affected resource.
D. Description of possible and anticipated impacts.
E. List of potential variables to monitor that relate to A-D above.
F. Evaluation of the variables with respect to:
   1. Effectiveness and usefulness to detect change.
   2. Implementation (costs, difficulty, etc.).
   3. Methodologies (temporal/spacial frequencies should be discussed).
G. Final monitoring variable list.

II. Implementation

A. Schedule
B. Data Collection
C. Data Analysis/Interpretation
D. Feedback
   1. Modification to activity
   2. Update of monitoring
   3. Effectiveness of monitoring
   4. Prepare monitoring report

Meyers, L. 1986. "Riverine Riparian Inventory and Monitoring," Draft. BLM Handbook, August 1986.

Minimum Data Elements
to be Monitored for
Various Resource Values
on Rangelands*

Resource Value	Trend	Herbage Utilization	Actual Annual Use	Condition	Climate
Livestock	2,3 (intensive mgmt areas)	a	yes	2/	3/
	3 (less intensive areas)	1/			
Wildlife (Upland Birds & big game)	1,2,3	a,b	yes		
Watershed	2,3	N/A	N/A		
Fisheries	3	N/A	N/A		
Timber	"Specialized" Studies Required				
Recreation	"Specialized" Studies Required				
Paleontologic Resource	"Specialized" Studies Required				
Cultural Resources	"Specialized" Studies Required				
Water Quality	"Specialized" Studies Required				

1/ Intensive: Conflicts and possible significant adjustment needed.
Less Intensive: No real conflicts.
2/ Required by law.
3/ Necessary to analyze all monitoring elements.

Key to Data Elements Chart

Trend Data Information

1. Cover
2. Frequency
3. Photo Plot

Utilization

a. Utilization pattern mapping.
b. Extensive Browse Transect Method (used when browse utilization date is needed. i.e. big game winter ranges.)
c. Only utilization portion will typically be used.

* Source - Minimum Monitoring Standards for BLM - Administered Rangelands in Idaho (1984).

APPENDIX Q

WILDLIFE HABITAT ANALYSIS AND IMPACT PREDICTION METHODOLOGY

The condition and abundance of wildlife populations is highly dependent on the quality of their habitat (Dasmann 1964). Optimum food, water, and cover factors will produce healthy herds, capable of surviving periods of stress.

Major vegetation classes in the RMP area were identified using LANDSAT. Each class was analyzed as to its vegetative quality and given a range condition rating of poor, fair or good. The amount of quality forage plants and vegetative species characteristics (nutritional values, annual or perennial) were used to determine the rating of an individual vegetation class. In all cases, the good rating class provided the best wildlife habitat condition.

In Chapter 2 analysis, the term wildlife unit months was used for elk, deer and antelope. This term stands for EUMs (elk unit months), DUMs (deer unit months), AtUMs (antelope unit months).

An EUM is defined as the amount of forage needed to sustain one elk for 30 days. The same definition applies to deer and antelope respectively.

Winter use is defined as use during the months of December, January, February, and March. Yearlong use is defined as habitat use for all 12 months of the calender year.

The effects of each alternative were analyzed for each major wildlife species. Grazing systems, stocking rates, AMPs, season-of-use, timber harvest, and lands actions were major variables included in the final estimate of the impacts on wildlife. The final impacts were then compared to the population goals set for the areas by the Idaho Department of Fish and Game.

APPENDIX R

VEGETATION CONDITION CHANGE BY ALTERNATIVE

Range Condition Class	Present Status (acres)	Vegetation Condition Change by Alternative (Approximations) 1/				
		A	B	C	D	E
Excellent	1/2% (1,922)	NC	NC	NC	NC	NC
Good	7% (33,301)	-2%	+8%	+38%	+3%	+11%
Fair	47% (210,315)	-3%	+28%	+35%	+25%	+32%
Poor	43 1/2% (198,563)	-3%	+11%	+7%	+6%	+12%
Seeded (acres) 2/	2% (9,730)	NC	6% (26,400)	3% (19,000)	7% (37,000)	5% (24,279)
Total of RMP area change		3-5%	18-23%	20-25%	14-19%	22-27%

1/ This reflects change within the specific range condition class and may or may not result in a change in condition class (i.e., fair going to good).

2/ This reflects nonnative seedings dominantly on poor condition rangeland. Percentage is that of total RMP area.

APPENDIX S

WITHDRAWALS

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
ADA	I01166B	BLM	SD WITHDRAWAL	0005N	0001W	21	E1/2SW1/4,N1/2SE1/4	160.00
						22	N1/2SW1/4,W1/2SE1/4,SE1/4SE1/4	200.00
						26	S1/2N1/2	160.00
						29	N1/2N1/2	160.00
	I016372	COE	LUCKY PEAK RESERVOIR	0002N	0004E	6	NE1/4SE1/4NE1/4,LOT 7	51.04
	I04381	COE	LUCKY PEAK RESERVOIR	0002N	0004E	5	LOTS 4,5,6,7	129.80
						6	LOTS 6,8,9,10,S1/2S1/2NE1/4,S1/2NE1/4SW1/4,NW1/4SE1/4	247.73
						7	NE1/4NE1/4	40.00
				0003N	0004E	17	NW1/4SE1/4	40.00
						21	SE1/4NW1/4	40.00
						31	E1/2SE1/4NE1/4,E1/2NE1/4SE1/4,NE1/4SE1/4SE1/4	50.00
						32	LOTS 6,8,9	73.20
	I14893	BR	RECLAMATION PROJECT (NO NAME)	0002N	0003E	3	LOTS 5,6,7,8	124.70
	I14981	BR	BOISE VALLEY RECL PROJ	0002N	0001W	3	LOT2	40.20
	I15352	BLM	PW RES 107	0005N	0001W	26	NW1/4SW1/4	40.00
	I15587	COE	ARMY RESERVE TRAINING CENTER	0003N	0002E	2	METES & BOUNDS	7.16
						3	METES & BOUNDS	----
	I15588	VA	BOISE BARRACKS	0003N	0002E	---	(SEE METES & BOUNDS DESCRIPTION IN EXECUTIVE ORDER)	110.00
	I15631	FERC	PWR S RES 132	0002N	0004E	5	LOTS 4,5,6,7	129.80
						6	LOTS 6,8,9,10,SE1/4 NE1/4,NW1/4 SE1/4,S1/2 NE1/4 SW1/4	247.73
				0003N	0004E	32	LOTS 6,8,9	73.20
	I2508	FS	ADM-BOISE INTRAGNCY FIRE CNTR	0003N	0002E	27	SE 1/4 NW 1/4 NE 1/4 SW 1/4	2.50
	I2587	BLM	BIFC ADM SITE	0003N	0002E	27	W1/2NW1/4NE1/4SW1/4,NW1/4SW1/4,SE1/2NE1/4SW1/4	----
						28	METES&BOUNDS	70.80
	I2788	BLM	C&MU CLASSIFICATION	0005N	0001W	30	LOT1	37.31
	I9530	BLM	R&PP CLASSIFICATION	0004N	0001W	17	LOT7	24.55
ADAMS	I015280	FERC	PWR S CL 455	0014N	0001E	27	W1/2NW1/4	80.00
						28	SE1/4SW1/4,N1/2SE1/4	120.00
						32	NE1/4SE1/4	40.00
						33	SW1/4NE1/4,NE1/4NW1/4,SW1/4NW1/4,NW1/4SW1/4	160.00
				0015N	0001W	5	LOTS 3,4	79.97
						6	LOTS 1,2	79.35
					0002W	2	SE1/4NE1/4,SW1/4SW1/4,N1/2SE1/4	160.00
						3	N1/2SE1/4	80.00
						9	SE1/4SE1/4	40.00
				0016N	0001W	21	NW1/4NE1/4	40.00
						29	NE1/4SE1/4	40.00
						31	SW1/4NE1/4,W1/2SE1/4	120.00
						32	SE1/4SW1/4	40.00
	I14652	FERC	PWR PROJ 1971	0018N	0004W	17	LOTS 1,2,3,4,NE1/4 SE1/4	181.37
						19	LOT 1	0.39
						20	LOTS 1,2,3,4	134.82
						30	LOTS 1,2,3,4	152.78
						31	LOT 1	39.03
						4	LOT 2	44.92
						8	LOT 1	30.87
						9	LOTS 1,2,3	97.69
				0019N	0004W	17	LOTS 1,2,4,5	188.50
						20	LOT 2	34.40
							LOTS 3,4	42.00
						21	LOT 4	21.70
							LOTS 1,2	72.40
						29	LOTS 1,4	63.70
						5	LOTS 1,2,3,4	134.00
						8	LOTS 1,2,3,4	130.52
				0020N	0004W	32	LOTS 1,2	83.80
						33	LOTS 1,2	76.73
	I15639	FERC	PWR S RES 227	0017N	0004W	5	LOT 3,SW1/4 NW1/4	81.43
						6	LOTS 2,3,4,SE1/4 NW1/4,S1/2 NE1/4	229.36
				0018N	0004W	27	NE1/4NE1/4,SW1/4NE1/4,NW1/4SE1/4NE1/4,SE1/4NW1/4,W1/2SW1/4,N1/2NW1/4	270.00
						32	N1/2 SW1/4,SW1/4 SW1/4,NE1/4 NE1/4 SE1/4,NW1/4 NE1/4 SE1/4,E1/2 SE1/4	185.00
						33	E1/2 NE1/4 NE1/4,NW1/4 NE1/4 NE1/4,N1/2 SE1/4 NE1/4 NE1/4,NE1/4 NW1/4	290.00
							(CONT) SE1/4 NE1/4 SW1/4,NW1/4 NW1/4 SW1/4,SW1/4 NW1/4 SW1/4,SE1/4 NW1	----
							(CONT) S1/2 NW1/4 SE1/4 NE1/4,SW1/4 SE1/4 NE1/4,SE1/4 SE1/4 NE1/4,NE1/	----
						34	W1/2 NE1/4 NW1/4,W1/2 NW1/4	100.00
	I15640	FERC	PWR S RES 226	0018N	0004W	17	LOTS 1,2,3,4	141.37
						19	LOT 1	0.39
						20	LOTS 1,2,3,4	134.82
						30	LOTS 1,2,3,4	152.78
						31	LOT 1	39.03
						8	LOT 1	30.87
						9	LOTS 1,2,3	97.69
				0019N	0004W	17	LOTS 1,2,4,5	188.50
						20	LOT 2,3,4	76.40
						21	LOT 4	21.70
						29	LOTS 1,4	63.70
						5	LOTS 1,2,3,4	134.00
						8	LOTS 1,2,3,4	130.52
				0020N	0004W	32	LOTS 1,2	83.80
						33	LOTS 1,2,SE1/4 NW1/4	76.73
	I15693	FERC	PWR S CL 420	0018N	0004W	30	LOT 1 NE1/4NE1/4,SW1/4NE1/4 PART OF LOT 2	24.60
				0019N	0004W	4	LOT 4,SW1/4NW1/4	78.61
	I15702	FERC	PWR S CL 78	0020N	0004W	11	LOTS 1,2,3,4	118.79
						14	LOT 1,2,NW1/4SE1/4	77.52
						22	LOT 1 AND PORTIONS OF SW1/4SE1/4,SE1/4SE1/4	23.53
						23	SW1/4NW1/4,LESS HES 296	11.50
						28	LOT 1,2,3	64.80
	I15722	FERC	PWR PROJ 419	0013N	0001E	5	LOT 8,NW1/4 SW1/4	80.00
						6	SE1/4 SE1/4	40.00
						7	N1/2 NE1/4,NE1/4 NW1/4	120.00
				0014N	0001E	32	NE1/4 SE1/4	40.00
						33	SW1/4 NW1/4,NW1/4 SW1/4	80.00

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
BOISE	I017335	BLM	PONDEROSA PINE SEED ORCHARD	0006N	0005E	27	NE1/4NE1/4SE1/4,W1/2NE1/4SE1/4,NW1/4SE1/4	70.00
	I04381	COE	LUCKY PEAK RESERVOIR	0003N	0004E	15	LOTS 1,2,3,7,8,9	179.63
	I14925	BR	OWYHEE RECL PROJ	0009N	0003E	23	LOTS1,2,3,SW1/4NW1/4,NE1/4SW1/4,SW1/4SE1/4	233.67
						24	SW1/4SE1/4	40.00
						25	LOTS1-8INCL	304.29
						26	LOTS 1-5INCL,W1/2NW1/4,SE1/4NW1/4	345.17
					0004E	20	LOTS1,2,6,7,8,E1/2SE1/4	234.66
						21	LOTS 5,6	91.99
						29	LOTS2,3,SE1/4NW1/4	78.65
						30	LOTS6,7,9-12INCL,SE1/4	383.11
	I15071	BR	BOISE RECL PROJ	0008N	0004E	1	LOTS-1,2,3,4,5,6,S 1/2 NW 1/4,S 1/2	593.28
						11	SW 1/4	160.00
	I15072	BR	BOISE RECL	0008N	0004E	10	W 1/2 W 1/2	160.00
						11	LOTS-3,4,S 1/2 NW 1/4	105.98
						2	LOT 1,SE 1/4 NE 1/4, S 1/2 SW 1/4, NE 1/4 SE 1/4	199.76
						3	LOTS-3,4,5,6,S 1/2 NW 1/4, W 1/2 SW 1/4	285.08
			BOISE RECL PROJ	0009N	0003E	24	SW 1/4 SE 1/4	40.00
						25	LOTS 9,10,W 1/2 SE 1/4, SW 1/4	319.40
						26	S1/2	360.00
					0004E	13	LOTS 1,2,3	121.80
						14	LOTS 6,7	83.58
						17	LOTS 3,4,SW1/4SE1/4	111.48
						2	LOT 6	33.12
						26	SW1/4NE1/4,N1/2SE1/4	120.00
						28	4 SW 1/4, W 1/2 SE 1/4	200.00
						29	NW 1/4 NE 1/4	40.00
						33	LOTS 1,2,S 1/2 NE 1/4	159.32
						34	SW 1/4 NW 1/4, SW 1/4	200.00
						35	LOT 8	23.40
				0010N	0004E	13	N 1/2 NE 1/4, SE 1/4 NE 1/4, SW 1/4 NW 1/4, E 1/2 SE 1/4	240.00
						22	SE 1/4 NW 1/4	40.00
						26	NW 1/4 NE 1/4	40.00
			BOISE RECL PROJECT	0007N	0002E	11	LOT 5	2.55
	I15304	BLM	SD 29	0006N	0002E	11	NE1/4NE1/4	40.00
						12	S1/2NE1/4,N1/2NW1/4,SE1/4NW1/4,NE1/4SE1/4	320.00
						2	SE1/4SE1/4	40.00
					0003E	4	LOT4	36.45
						5	LOTS1,2,3,SW1/4NE1/4,S1/2NW1/4,N1/2SW1/4,SW1/4SW1/4	347.58
						6	SE1/4SW1/4,NE1/4SE1/4,S1/2SE1/4	160.00
						7	LOTS2,3,NE1/4NW1/4,E1/2SW1/4	159.80
				0007N	0003E	33	LOTS3,4,N1/2NE1/4,SW1/4NE1/4,SE1/4NW1/4,NE1/4SW1/4	256.85
	I15337	FHWA	MATERIAL SITE	0008N	0002E	35	LOT 5	24.15
	I15636	FERC	PWR S RES 21	0007N	0002E	11	LOT 4	30.50
						14	LOT 4	3.88
							LOTS 1,2,5	71.63
						15	LOTS 2,3,4	88.65
				0008N	0002E	24	LOTS 1,2,3	88.25
						25	LOT 2	7.25
						26	LOTS 1,2,3	87.60
					0003E	17	LOTS 1,2	23.75
						18	LOTS 5,6,7	86.95
						19	LOTS 1,2	36.65
						5	LOTS 7,8,9,10	120.20
						8	LOTS 3,4	61.70
							LOTS 5,6,7,8	121.00
	I15637	FERC	PWR S RES 247	0009N	0003E	22	LOTS 1,2,3,4,8,9,10,NE1/4 NW1/4,SE1/4 NW1/4,NE1/4 SW1/4	297.66
	I15644	FERC	PWR S RES 207	0009N	0003E	22	LOTS 5,6,7,10,12,SW1/4 NE1/4,SE1/4 SE1/4	251.20
						23	LOTS 1,2,3,SW1/4 NW1/4,SW1/4 SE1/4	193.67
						24	SE1/4 SW1/4	40.00
						25	LOTS 1-8 INCL,N1/2 SW1/4	384.29
						26	LOTS 1-5 INCL,NW1/4 NW1/4,SE1/4 NW1/4,NW1/4 SW1/4,NE1/4 SE1/4	384.87
						27	LOTS 2,4,SE1/4 NW1/4,NE1/4 SW1/4,SW1/4 SW1/4	201.22
					0004E	19	LOT 4,SE1/4 SW1/4	84.67
						20	LOTS 1,2	71.65
							LOTS 6,7,8,E1/2 SE1/4	163.01
						21	LOTS 5,6	91.99
						29	LOTS 2,3,NW1/4 NE1/4,SE1/4 NW1/4	158.65
						30	LOTS 3,6,7,9,10,N1/2 SE1/4	227.33
	I15645	FERC	PWR S RES 206	0007N	0002E	27	LOT 6	38.30
						28	LOTS 1,6,7,8	112.30
						32	LOT 8,N1/2 SE1/4	124.46
	I15700	FERC	PWR S CL 146	0008N	0004E	1	LOTS 1,2,3,5,6,SE1/4NW1/4	193.73
	I15710	FERC	PWR S CL 175	0008N	0004E	1	LOT 4	39.55
				0009N	0004E	35	LOT 8	23.40
				0010N	0004E	13	NW1/4NE1/4	40.00
						26	NW1/4NE1/4	40.00
	I15718	FERC	PWR PROJ 159	0009N	0003E	22	LOTS 1-9,INCL SW1/4 NE1/4,SE1/4 NW1/4,NE1/4 SW1/4,SE1/4 SE1/4	409.86
						23	LOTS 1,2,3	113.67
						25	LOTS 3,4,5,6	152.89
						26	LOTS 1-5 INCL,NW1/4 NW1/4,SE1/4 NW1/4,NE1/4 SE1/4	225.17
	I15780	FERC	PWR PROJ 47	0003N	0004E	15	LINEAR W/D	4.82

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
CANYON	I011668	BLM	SD	0005N	0003W	12	NE1/4SW1/4,N1/2SE1/4	120.00
				0006N	0005W	27	LOTS-1,2,N1/2NE1/4,E1/2NW1/4	243.42
	I013743	BSFW	DEER FLAT NWR	0005N	0006W	23	LOT-5	4.69
	I08499	BSFW	DEER FLAT N W R	0006N	0005W	18	SECS 18-LOTS 5,6 (PATENTED)	----
						6	SECS 6-LOT 4	25.71
						7	SECS 7 (NONE ON QUAD)	----
			DEER FLAT NWR	0004N	0005W	29	ISLAND	10.00
				0005N	0006W	23	ISLANDS IN SNAKE RIVER EXCEPT UNSURVEYED ISLAND KNOWN LOCALLY AS GOOSE	4.96
	I08955	BR	SNAKE RIVER RECL PROJ	0001S	0002W	25	LOT1,SE1/4SW1/4,SW1/4SE1/4	119.14
						26	LOTS1,2,N1/2SW1/4,NW1/4SE1/4	169.40
						27	LOTS3,4,SW1/4NE1/4,S1/2NW1/4,N1/2SE1/4	271.38
	I14537	FERC	PWR PROJ 2024	0001S	0002W	25	LOT 1	39.14
						26	LOTS 1,2	49.40
						27	LOTS 3,4	71.38
	I14539	FERC	PWR S RES 117	0001S	0002W	25	LOT 1,SE1/4 SW1/4	77.14
						26	LOTS 1,2	49.40
	I14542	FERC	PWR S CL 435	0001S	0002W	25	SW1/4SE1/4	40.00
	I14655	BR	BOISE RECL PROJ	0002N	0002W	26	N 1/2 SW 1/4 NW 1/4	20.00
			BOISE RECL PROJ FIRST FORM WDL	0002N	0004W	1	SE 1/4 NW 1/4 SE 1/4	10.00
	I14980	BR	BOISE VALLEY RECL PROJ	0004N	0005W	23	N1/2NW1/4NW1/4NW1/4	5.00
	I14981	BR	BOISE VALLEY RECL PROJ	0002N	0002W	17	LOTS1,3	2.93
						26	SW1/4NW1/4	40.00
						35	NW1/4NW1/4NW1/4	10.00
						5	LOTS13,16,19	29.95
						6	LOTS9,10,11	58.44
			BOISE VALLEY RECL PROJ TEMP	0002N	0003W	2	LOTS-5,7	21.09
						3	SW1/4NW1/4,SE1/4NW1/4LESS2.13ACRES	77.87
						7	SW1/4SE1/4	40.00
				0005N	0006W	14	LOT-5	12.21
						23	LOT-5,6,7,8	9.65
			BOISE VALLEY RECL PROJ 2ND	0003N	0004W	17	LOTS8,9,NW1/4NW1/4	82.36
				0004N	0005W	28	SE1/4SE1/4	40.00
	I14983	BR	PAYETTE BOISE RECL PROJ TEMP	0002N	0003W	2	LOTS-5,7	21.09
						3	SW1/4NW1/4,SE1/4NW1/4LESS2.13ACRES	77.87
			PAYETTE-BOISE RECL PROJ	0002N	0002W	17	LOTS1,3	2.93
						5	LOTS16,19	29.20
						6	LOTS9,10,11	58.44
	I15067	BR	BOISE RECL PROJECT	0001S	0002W	2	LOTS 7,8,SE 1/4 NE 1/4 NE 1/4	19.40
	I15068	BR	BOISE RECL PROJ	0002N	0003W	24	NE 1/4 NW 1/4	40.00
	I15069	BR	BOISE RECL PROJ	0003N	0004W	17	LOTS 8,9,NW 1/4 NW 1/4	82.36
	I15070	BR	BOISE RECL PROJ	0005N	0003W	12	NW 1/4 SE 1/4, NW 1/4	10.00
						2	W 1/2 NE 1/4 SW 1/4, SW 1/4 SW 1/4	60.00
						8	SE 1/4 SE 1/4 SW 1/4	10.00
				0006N	0005W	35	SE 1/4 SE 1/4 SE 1/4	10.00
	I15079	BR	BOISE RECL PROJ	0005N	0003W	27	NE 1/4 NE 1/4	40.00
	I15317	COE	RIFLE RANGE	0002N	0002W	26	S1/2SW1/4NW1/4,W1/2SW1/4	100.00
	I15319	BR	MELBA PUBLIC RESERVE	0001S	0002W	2	LOT 8	3.14
	I15341	BSFW	DEER FLAT NWR	0001N	0002W	31	ALL ISLANDS IN SNAKE RIVER (ACREAGE UNKNOWN)	----
					0003W	35	LOT 7	4.25
						36	LOT 9	46.07
				0001S	0002W	17	ISLANDS IN SNAKE RIVER	12.78
						20	ISLANDS IN SNAKE RIVER	1.42
						21	ISLANDS IN SNAKE RIVER	2.84
						25	ISLANDS IN SNAKE RIVER	----
						26	ISLANDS IN SNAKE RIVER	2.84
						27	ISLANDS IN SNAKE RIVER	----
						28	ISLANDS IN SNAKE RIVER	48.28
						34	ISLANDS IN SNAKE RIVER	----
						35	ISLANDS IN SNAKE RIVER	4.26
						36	ISLANDS IN SNAKE RIVER	7.10
						7	ISLANDS IN SNAKE RIVER	1.42
						8	ISLANDS IN SNAKE RIVER	2.84
				0002N	0002W	17	LOT 3	2.72
						5	LOTS 13,16,19	29.95
						6	LOTS 9,10,11	58.44
					0003W	11	LOT 2	1.62
						2	LOTS-5,7 PORTIONS OF	15.62
						3	SW1/4NW1/4,SE1/4NW1/4 LESS 2.13 ACRES	21.09
						31	ALL ISLANDS IN SNAKE RIVER (ACREAGE UNKNOWN)	----
					0004W	26	----	7.10
						35	----	2.84
						36	----	4.26
				0003N	0004W	18	ISLANDS IN SNAKE RIVER	2.84
						20	ISLANDS IN SNAKE RIVER	----
					0005W	10	PAT ISL	4.68
						11	PAT ISL	0.84
						13	LOTS 9,10	15.35
						14	----	0.42
						15	NONE	----
						3	NONE	----
						4	PAT ISL	----
	I3823	BLM	SNAKE RIVER BIRDS OF PREY NATU	0001S	0002W	25	SW1/4SE1/4	40.00
	I3886	BLM	R&PP CLASSIFICATION	0006N	0005W	27	SE1/4NE1/4	40.00
	I9380	BLM	R&PP CLASSIFICATION	0006N	0005W	28	S1/2NE1/4	80.00

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
GEM	I011668	BLM	SD	0006N	0001W	22	S1/2	320.00
						30	LOT3,E1/2SW1/4,SW1/4SW1/4,N1/2SE1/4	240.21
					0003W	17	E1/2E1/2	160.00
						20	E1/2NE1/4,W1/2SW1/4,SE1/4SW1/4,SE1/4	360.00
						21	W1/2E1/2,W1/2	480.00
						25	S1/2S1/2,	160.00
						26	NW1/4,NE1/4SW1/4,SE1/4	360.00
						27	N1/2NE1/4,N1/2NE1/4NW1/4	100.00
						8	SE1/4SE1/4	40.00
						9	LOTS-3,6,7,SW1/4NE1/4,SE1/4NW1/4,NE1/4SW1/4,S1/2SW1/4,W1/2SE1/4	411.27
				0007N	0003W	4	LOTS-1,2,3,4,S1/2NE1/4,S1/2NW1/4,E1/2SE1/4	398.90
						5	LOTS-1,SE1/4NE1/4	80.08
			STOCK DRIVEWAY	0006N	0002W	26	SE1/4SE1/4	40.00
						31	LOT1,N1/2NE1/4,NE1/4NW1/4	159.65
						33	N1/2N1/2	160.00
						35	N1/2N1/2	160.00
	I08362	FAA	AIR NAVIGATION SITE	0008N	0001W	24	S1/2S1/2NE1/4SW1/4,E1/2E1/2SW1/4SW1/4,SE1/4SW1/4,W1/2W1/2SW1/4SE1/4	70.00
						25	NW1/4NW1/4NW1/4NE1/4,N1/2NE1/4NW1/4,NE1/4NE1/4NW1/4NW1/4	25.00
	I08956	BR	BOISE RECLAMATION PROJ	0006N	0003W	10	E 1/2 SE 1/4 SW 1/4, W 1/2 SW 1/4 SE 1/4	40.00
	I14993	BR	PAYETTE-BOISE RECL PROJ	0007N	0001W	26	LOTS2,3	52.70
	I14994	BR	PAYETTE-BOISE RECL PROJ TEMP	0007N	0001E	17	LOT-4	1.56
							LOTS-2,3	66.90
						18	LOT-8	14.35
							LOTS-5,6,7	84.60
						19	LOTS-1,2,3,5	130.70
							LOTS-6,8,9	68.40
						21	LOT-3	35.30
						28	LOTS-3	23.80
							LOTS-5,6	45.20
						29	LOT-2	2.17
	I15058	BR	BOISE RECL PROJ	0007N	0001W	23	LOT 2,SW1/4NW1/4	47.90
							LOTS 3,4	62.30
						24	LOTS 1,2,3,8,SE 1/4 NW 1/4	169.35
						25	LOT 2	16.40
							LOTS 4,5	74.50
	I15062	BR	BOISE RECL PROJ	0007N	0001W	26	SE1/4NE1/4	40.00
	I15065	BR	BOISE RECL PROJ	0007N	0001E	19	LOT-7	38.00
						20	LOT 4	40.50
						28	LOT-4	42.00
	I15070	BR	BOISE RECL PROJ	0006N	0003W	22	W 1/2 SE 1/4 SW 1/4	20.00
						26	E 1/2 SW 1/4	80.00
						5	N 1/2 SW 1/4 NE 1/4	20.00
	I15079	BR	BOISE RECL PROJ	0006N	0003W	15	SW 1/4 NW 1/4,NW 1/4 SW 1/4	80.00
						26	SW 1/4 SW 1/J	40.00
	I15305	BLM	SD 20	0008N	0001W	17	W1/2NE1/4,NW1/4	240.00
						5	LOTS3,4,SW1/4NE1/4,S1/2NW1/4,N1/2SW1/4,SE1/4SW1/4,W1/2SE1/4	381.68
						6	LOT1,SE1/4NE1/4	71.19
						8	W1/2E1/2,E1/2W1/2,SW1/4SW1/4	360.00
				0009N	0001E	18	E1/2NE1/4,S1/2	400.00
						19	N1/2	320.00
						5	LOTS-2,3,4,SW1/4NE1/4,S1/2NW1/4,SW1/4,W1/2SE1/4	432.84
						6	LOT-1,SE1/4NE1/4,E1/2SE1/4	144.35
						7	SE1/4NE1/4,E1/2SE1/4	120.00
						8	NW1/4,W1/2SW1/4	240.00
					0001W	22	W1/2NW1/4,SE1/4NW1/4,NW1/4SW1/4	160.00
						23	NE1/4NE1/4,S1/2NE1/4,SE1/4NW1/4,NE1/4SW1/4,N1/2SE1/4	280.00
						24	N1/2,N1/2,SW1/4	400.00
				0012N	0001E	15	W1/2	320.00
						22	NW1/4,N1/2SW1/4	240.00
	I15603	FERC	PWR S RES 461	0007N	0001E	18	LOT 8	14.35
							LOTS 5,6,7	84.60
						19	LOTS 1,2,3,5,NE1/4 NE1/4	170.70
							LOTS 6,7,8,9	106.40
					0001W	23	LOT 2,SW1/4 NW1/4	47.90
							LOTS 3,4	62.30
						24	LOTS 1,2,3,8,SE1/4 NE1/4	169.35
						25	LOT 2	16.40
							LOTS 4,5	74.50
						26	LOTS 2,3,SE1/4 NE1/4	92.70
PAYETTE	I011668	BLM	SD	0006N	0004W	19	LOT-1,SE1/4SW1/4,S1/2SE1/4	168.56
						26	S1/2NE1/4,NW1/4NE1/4,NW1/4	280.00
						28	N1/2N1/2	160.00
						29	N1/2N1/2	160.00
						30	N1/2NE1/4	80.00
					0005W	23	SW1/4SW1/4,S1/2SE1/4SW1/4,S1/2SW1/4SE1/4,SE1/4SE1/4	120.00
						26	N1/2N1/2	160.00
				0008N	0003W	32	NW1/4SW1/4,E1/2SW1/4,SE1/4	280.00
						33	S1/2S1/2	160.00
	I08499	BSFW	DEER FLAT NWR	0006N	0006W	13	ISLANDS IN SNAKE RIVER (BRIDGE IS PATENTED)	----
						24	PATENTED ISLAND	----
						26	PATENTED ISLAND	46.86
						35	PATENTED ISLAND	1.42
				0007N	0005W	20	ISLANDS IN SNAKE RIVER	7.10
						29	LOTS 5,6,7,8 (PATENTED)	----
				0009N	0005W	15	(PATENTED ISLAND)-POOL ISLAND	----
							4 ISLANDS W OF POOL ISLAND	38.34
						2	ISLANDS IN SNAKE RIVER	22.72
	I15070	BR	BOISE RECL PROJ	0006N	0004W	12	E 1/2 NE 1/4	80.00
						2	LOT-1	44.69
					0005W	22	LOT-2	41.66

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
PAYETTE	I15252	BR	BOISE RECL PROJ	0007N	0005W	25	NW 1/4 SW 1/4 SW 1/4	10.00
	I15305	BLM	SD 20	0008N	0003W	10	W1/2NW1/4	80.00
						2	LOTS-3,4,S1/2NW1/4,	129.00
						3	LOTS-1,2,3,S1/2NE1/4,SE1/4NW1/4,E1/2SW1/4,N1/2SE1/4	393.30
						9	S1/2NE1/4,S1/2NW1/4,W1/2SW1/4,NE1/4SW1/4,N1/2SE1/4	360.00
				0009N	0001W	19	SE1/4SE1/4	40.00
						20	NE1/4NE1/4,S1/2N1/2,S1/2	520.00
						21	NE1/4,W1/2,N1/2SE1/4	560.00
						29	NW1/4NE1/4,W1/2	360.00
						30	E1/2E1/2	160.00
						31	E1/2E1/2	160.00
						32	NE1/4NW1/4,W1/2W1/2	200.00
						6	LOTS1-7INCLS1/2NE1/4,SF1/4NW1/4,E1/2SW1/4,SE1/4	603.34
						7	LOT1	39.63
					0002W	1	LOTS5,6,7,W1/2SE1/4	190.89
						10	SE1/4SE1/4	40.00
						11	S1/2NE1/4,S1/2	400.00
						12	LOTS1-4INCL,W1/2E1/2,E1/2W1/2,SW1/4NW1/4,W1/2SW1/4	592.15
						13	NW1/4NE1/4,N1/2NW1/4	120.00
						14	N1/2NE1/4,W1/2	400.00
						15	E1/2	320.00
						22	E1/2,E1/2NW1/4,NE1/4SW1/4	440.00
						23	N1/2NW1/4,SW1/4NW1/48NW1/4SW1/4	160.00
						27	NE1/4,E1/2NW1/4,SW1/4NW1/4,W1/2SW1/4	360.00
						28	S1/2S1/2	160.00
						29	S1/2	320.00
						30	LOTS3,4,E1/2SW1/4,SE1/4	304.55
						32	N1/2NE1/4,	80.00
						33	N1/2N1/2	160.00
						34	NW1/4NW1/4	40.00
					0003W	25	SW1/4,N1/2SE1/4,SW1/4SE1/4	280.00
						26	SE1/4SE1/4	40.00
						34	SE1/4SE1/4	40.00
						35	E1/2NE1/4,S1/2SW1/4,SW1/4	320.00
	I4373	BR	BOISE RECL PROJ	0007N	0005W	34	NW 1/4 NW 1/4 NW 1/4 NW 1/4, NW 1/4 SW 1/4 NW 1/4 NW 1/4 NW 1/4	3.13
TETON	I14652	FERC	PWR PROJ 1971	0015N	0007W	36	LOT 1	6.80
VALLEY	I15072	BR	BOISE RECL PROJ	0011N	0003E	2	LOTS 1,2	31.70
						3	LOT 7	2.60
				0014N	0003E	10	LOTS 3,5,7	25.96
						15	LOTS 2,3,4,5,8	75.42
						22	LOTS L8MB.BU/	76.71
						23	LOTS 2	0.97
						25	LOT 3	3.94
						27	LOT 1	0.31
						4	LOTS 2,6	67.86
				0015N	0003E	21	LOT 5	14.15
						27	LOT 2	1.35
						28	LOTS 1,2,3,W1/2NE1/4	138.31
						4	LOTS 4,5,7,8,9,13,SW 1/4 SE 1/4	158.03
						9	LOTS 1,5,8	37.15
				0016N	0003E	18	LOT 2	30.37
						28	LOT 3	1.00
						33	LOTS 1,4,10,11,13	76.19
						7	LOTS 6,7,9,10,14,15	108.64
	I15076	BR	BOISE RECL PROJ	0016N	0003E	31	LOTS 7,8,11,12	67.41
						6	LOTS 2,7,8,11,16	83.75
				0017N	0003E	31	LOTS 7,8,11,12	67.41
	I15606	FERC	PWR S RES 414	0014N	0003E	25	LOT 3	3.94
	I15644	FERC	PWR S RES 207	0011N	0003E	2	LOTS 1,2,12	65.30
						3	LOT 7	2.60
				0012N	0003E	12	LOT 4	23.90
						23	LOT 3	31.30
						26	LOT 2	16.20
	I15689	FERC	PWR S CL 462	0011N	0003E	---	ALL UNSURVEYED ISLANDS WITHIN SECS 10,14,15,22,23	6.00
WASHINGTON	I015280	FERC	PWR S CL 455	0011N	0003W	19	LOT 4,SE1/4SW1/4	73.77
						30	LOT 1,2,3,E1/2NW1/4,NE1/4SW1/4	221.89
						31	S1/2NE1/4	80.00
						6	SE1/4SW1/4,S1/2SE1/4	120.00
						7	LOTS 1,N1/2NE1/4,SW1/4NE1/4,NE1/4NW1/4,NW1/4SE1/4	233.27
						8	LOTS 1,N1/2NE1/4,NE1/4NW1/4,	153.18
						9	SW1/4NE1/4,NW1/4NW1/4,S1/2NW1/4	160.00
					0004W	1	SW1/4NW1/4,SW1/4,SW1/4SE1/4	240.00
						11	N1/2NE1/4,SE1/4NE1/4,SW1/4SE1/4	160.00
						12	N1/2N1/2	160.00
						13	N1/2SW1/4,SW1/4SW1/4,W1/2SC1/4,	200.00
						14	SW1/4NW1/4,NW1/4SW1/4,SE1/4	240.00
						15	SE1/4NE1/4	40.00
						2	LOTS 1,2,S1/2NE1/4,SE1/4	316.65
						23	NU/2NE1/4,SE1/4NE1/4,E1/2NW1/4,SW1/4SE1/4	240.00
						24	NW1/4NW1/4,NE1/4SW1/4,NW1/4SE1/4,SE1/4SE1/4	160.00
						25	SW1/4NE1/4,SE1/4NW1/4,SW1/4,SE1/4	400.00
						26	SE1/4NE1/4,E1/2SE1/4	120.00
						3	LOTS 4,SW1/4NE1/4,SE1/4NW1/4,E1/2SE1/4	198.83
				0012N	0004W	10	N1/2NE1/4,SW1/4NE1/4,NE1/4SW1/4	160.00
						11	W1/2NE1/4,NW1/4NW1/4	120.00
						15	NE1/4SW1/4,S1/2SW1/4	120.00
						22	NE1/4,NW1/4,SW1/4,NE1/4SE1/4,S1/2SE1/4	600.00
						23	E1/2NW1/4,NE1/4SW1/4,SW1/4SW1/4	160.00
						26	NW1/4NW1/4	40.00
						27	N1/2N1/2,S1/2NW1/4	240.00
						28	S1/2NE1/4,W1/2SE1/4	160.00
						33	NW1/4NE1/4	40.00
						35	SE1/4NW1/4,NE1/4SW1/4	80.00

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
WASHINGTON	I015745	BR	MANN CREEK RECL PROJ	0012N	0005W	13	E1/2NW1/4	80.00
	I0B499	BSFW	DEER FLAT NWR	0010N	0005W	17	----	28.40
						18	NONE	----
						19	NONE	----
						21	NOT LISTED ON ORDER	14.20
						22	----	9.94
						25	RIV NOT THRU SEC	----
						5	ISLANDS IN SNAKE RIVER - NONE	----
						8	----	157.62
				0011N	0006W	19	ISLANDS IN SNAKE RIVER	22.72
						20	NONE	----
						34	----	2.12
						35	(PATENTED ISLAND-LOT 8) LOTS 5,6,7	15.02
					0007W	17	----	2.84
						27	----	2.12
	I14652	FERC	PWR PROJ 1971	0011N	0006W	18	SE1/4 SE1/4 LOT 4,S1/2 SW1/4 SE1/4 SW1/4,SW1/4 SE1/4 SE1/4 SW1/4	10.00
						19	LOTS 3,4	13.50
					0007W	17	W1/2 NW1/4 NW1/4	20.00
						21	SW1/4 LOT 3	9.85
						24	NE1/4 NE1/4 LOT 1,S1/2 NE1/4 LOT 1,S1/2 NW1/4 LOT 1,S1/2 LOT 1,SE1/4 L	44.27
						25	LOT 1	3.90
						28	NW1/4 NE1/4 LOT 2,W1/2 LOT 2,S1/2 NE1/4 LOT 2,N1/2 SE1/4 LOT 2	9.60
						4	NW1/4 LOT 4,N1/2 SW1/4 LOT 4,SW1/4 SW1/4 LOT 4	17.33
						8	NW1/4 LOT 2,N1/2 SW1/4 LOT 2,LOT 3,N1/2 LOT 5,W1/2 LOT 6	110.93
				0012N	0007W	18	PORTIONS LOTS 1,4,SW1/4 SW1/4 SW1/4 SE1/4	34.90
						28	PORTIONS LOT 1	14.45
						32	LOT 1	0.48
						33	PORTIONS LOTS 3,4	40.09
						6	LOTS 2,3, PORTIONS OF 4,5,6	113.00
				0013N	0007W	17	LOTS 1,2,SW1/4 NE1/4,S1/2 NE1/4	191.67
							PORTIONS OF GRANT LODE	9.00
						18	PORTIONS OF GRANT LODE	3.50
						20	LOTS 1,2	45.50
						29	PORTIONS OF LOTS 3,4	34.00
						32	NW1/4 NW1/4 NW1/4 SW1/4	2.50
						4	PORTIONS OF LOT 4,E1/2 NW1/4 SW1/4 NW1/4,NW1/4 SE1/4 SW1/4 NW1/4	23.50
						5	PORTIONS OF LOTS 1,2,3	70.80
						6	LOT 1	0.19
						7	LOT 1,7,GRANT LODE & PORTIONS LEE LODE	88.56
						8	PORTIONS OF LOT 1,2	35.30
				0014N	0006W	6	NE1/4NW1/4 LOT 4,W1/2NE1/4 LOT 4,E1/2NW1/4 LOT 4,W1/2W1/2 LOT 4,W1	31.11
					0007W	13	W1/2SW1/4SW1/4SW1/4,W1/2NW1/4SW1/4SW1/4,NE1/4NW1/4SW1/4SW1/4	12.50
						14	LOT 1	0.25
							LOT 3	15.27
						23	LOTS 1,2	64.78
							SW1/4 SW1/4 SE1/4 SE1/4	2.50
						24	SW1/4 NW1/4 NW1/4 NW1/4	2.50
						26	NW1/4 NW1/4 NE1/4 NE1/4,PORTION OF LOT 2	22.34
						27	PORTION OF LOT 1,NE1/4 SW1/4 SW1/4,E1/2 SW1/4 NE1/4 SE1/4,SE1/4 SW1/4	39.81
						28	PORTIONS OF LOT 2	26.09
						33	LOTS 1,2,3,4	107.98
				0015N	0006W	17	LOT 1,2, W1/2 NE1/4 LOT 3,E1/2 NW1/4 LOT 3,W1/2 W1/2 LOT 3,NE1/4 SW1/4	81.30
						18	LOT 1, E1/2 NE1/4 LOT 2,W1/2 E1/2 LOT 2,W1/2 LOT 2,NE1/4 SE1/4 LOT 2	52.80
						19	E1/2 NW1/4 LOT 1,W1/2 W1/2 LOT 1,NE1/4 SW1/4 LOT 1,NE1/4 NE1/4 LOT 2,W	94.70
							(CONT) N1/2 NE1/4 LOT 4,W1/2 LOT 4	94.70
						30	LOT 1,N1/2 LOT 2,N1/2 S1/2 LOT 2,S1/2 SW1/4 LOT 2,SW1/4 SE1/4 LOT 2,W1	110.90
						31	W1/2 W1/2 LOT 1,SE1/4 SW1/4 LOT 1,NW1/4 LOT 2,S1/2 SW1/4 LOT 4,SE1/4 L	37.50
						4	NW1/4 NE1/4 LOT 4,NW1/4 LOT 4,W1/2 SW1/4 LOT 4	18.96
						5	LOT 1,NW1/2 LOT 2,N1/2 S1/2 LOT 2,S1/2 SW1/4 LOT 2,N1/2 LOT 3,NW1/4 SE	143.10
							(CONT) N1/2 N1/2 SE1/4 NE1/4,SW1/4 NW1/4 SE1/4 NE1/4,SW1/4 SE1/4 LOT 2	143.10
						8	W1/2 LOT 1,W1/2 E1/2 LOT 1,LOT 2,W1/2 LOT 3,LOT 4,SW1/4 NW1/4 SW1/4 NE	114.90
							(CONT) N1/2 NW1/4 NW1/4 SE1/4	114.90
				0016N	0005W	6	LOT 2	36.30
				0017N	0005W	11	LOT 4	49.40
						14	LOT 1,2	63.91
			WDL PWR PROJ 1971	0017N	0005W	1	W1/2SW1/4SW1/4	20.00
						11	LOT 4, N1/2 NW1/4 SE1/4,SW1/4 NW1/4 SE1/4,NW1/4 SW1/4 SE1/4,NW1/4 NE1/	99.40
						14	LOT 1,2, W1/2 NE1/4 NW1/4,SW1/4 NE1/4 NE1/4 NW1/4,NW1/4 SE1/4 NE1/4 NW	83.91
						23	W1/2 SW1/4 SE1/4 SW1/4	5.00
						27	LOTS 1,2,3,W1/2 W1/2 NW1/4 NE1/4	109.93
						28	LOTS 2,3,4, W1/2 NE1/4 SE1/4 SE1/4,NW1/4 SE1/4 SE1/4	90.49
						29	LOT 1	6.16
						31	LOT 1	49.07
						32	LOTS 1,2,5,N1/2 NE1/4 SW1/4	133.13
						33	NW1/4 NE1/4 NE1/4 NW1/4,NW1/4 NE1/4 NW1/4,N1/2 SW1/4 NE1/4 NW1/4,N1/2	42.50
	I14891	BR	WEISER INVESTIGATIONS RED PROJ	0015N	0003W	29	NE1/4SW1/4,SW1/4SW1/4,NW1/4SE1/4,S1/2SE1/4	200.00
						32	NW1/4,NE1/4SW1/4,NW1/4SE1/4,S1/2SE1/4	320.00
						33	SW1/4SW1/4	40.00

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
WASHINGTON	I15305	BLM	SD 20	0010N	0001E	17	ALL	640.00
						20	ALL	640.00
						28	LOTS-3,4,W1/2SE1/4,SW1/4	311.74
						29	ALL	640.00
						32	ALL	640.00
						33	LOTS-1,2,W1/2NE1/4,NW1/4	313.26
						4	LOT-4	39.00
						5	LOTS-1,2,3,4,S1/2N1/2,S1/2	638.00
						8	ALL	640.00
					0001W	18	ALL	629.04
						19	ALL	626.00
						30	ALL	623.52
						31	ALL	620.54
						5	SW1/4NW1/4,SW1/4	200.00
						6	LOTS1-3INCL,S1/2NE1/4,SE1/4NW1/4,SE1/4	387.00
						7	LOT4,E1/2,E1/2SW1/4	437.69
						8	NW1/4,W1/2SW1/4	240.00
				0011N	0001E	17	ALL	640.00
						20	E1/2NE1/4,NW1/4NE1/4,NW1/4,SW1/4,SE1/4	600.00
						21	SW1/4	160.00
						28	W1/2	320.00
						29	ALL	640.00
						32	ALL	640.00
						33	W1/2	320.00
						4	LOTS-2,3,4,SE1/4NE1/4,S1/2NW1/4,SW1/4,NW1/4SE1/4	433.40
						5	LOTS-1,2,3,4,SE1/4NE1/4,SW1/4NW1/4,SW1/4,SE1/4	548.92
						6	LOTS-1,2,3,S1/2N1/2,S1/2	590.03
						8	NE1/4,SE1/4SW1/4,SE1/4	360.00
						9	W1/2	320.00
					0001W	1	LOTS2,3,S1/2NE1/4,SE1/4NW1/4,E1/2SW1/4,SE1/4	461.10
						10	N1/2NE1/4,W1/2W1/2	240.00
						15	NW1/4NW1/4,S1/2NW1/4,SW1/4	280.00
						2	S1/2SW1/4	80.00
						21	ALL	640.00
						22	NW1/4	160.00
						28	N1/2,SW1/4,N1/2SE1/4,SW1/4SE1/4	600.00
						29	SE1/4	160.00
						3	S1/2S1/2	160.00
						31	SE1/4	160.00
						32	LOTS2,3,4,E1/2,SE1/4NW1/4,E1/2SW1/4	551.52
						33	N1/2NW1/4,SW1/4NW1/4,NW1/4SW1/4	160.00
						4	S1/2SE1/4	80.00
						9	E1/2,E1/2W1/2	480.00
				0012N	0001E	10	SW1/4NW1/4,SW1/4	200.00
						17	E1/2,E1/2W1/2	480.00
						20	E1/2,E1/2W1/2	480.00
						21	ALL	640.00
						28	W1/2E1/2,W1/2	480.00
						29	E1/2,E1/2W1/2	480.00
						32	E1/2,E1/2W1/2	480.00
						33	N1/2NW1/4,S1/2SW1/4,W1/2SE1/4	240.00
						4	ALL	580.92
						5	ALL	579.96
						6	ALL	545.40
						8	NE1/4,E1/2NW1/4,E1/2SW1/4,N1/2SE1/4,SW1/4SE1/4	440.00
						9	ALL	640.00
				0013N	0001E	22	W1/2SW1/4,SE1/4SW1/4,S1/2SE1/4	200.00
						27	ALL	640.00
						33	E1/2,E1/2W1/2	480.00
						34	NW1/4,N1/2SW1/4	80.00
					0005W	10	W1/2	320.00
						17	NE1/4,W1/2SE1/4	240.00
						19	LOTS-2,3,4,E1/2W1/2,SW1/4SE1/4	300.01
						20	NW1/4NE1/4,N1/2NW1/4	120.00
						3	LOTS-2,3,4,SW1/4NE1/4,S1/2NW1/4,SW1/4,W1/2SE1/4	453.45
						30	LOT-2,W1/2NE1/4,E1/2NW1/4,	193.34
						4	LOT-1SE1/4NE1/4,E1/2SE1/4	151.05
						8	SE1/4NE1/4,E1/2SE1/4	120.00
						9	NE1/4NE1/4,S1/2NE1/4,SW1/4,SE1/4	520.00
					0006W	25	S1/2NE1/4,S1/2NW1/4,SW1/4,W1/2SE1/4	400.00
						26	S1/2NE1/4,S1/2SW1/4,SE1/4	320.00
						35	NE1/4,N1/2NW1/4,SE1/4NW1/4,NE1/4SW1/4	320.00
				0014N	0003W	5	W1/2SW1/4	80.00
						6	LOTS,6,7,E1/2SW1/4,SE1/4	315.36
						7	LOTS,1,2,3,NE1/4,E1/2NW1/4,NW1/4SW1/4,NW1/4SE1/4	436.59
						8	NW1/4NW1/4	40.00
					0004W	1	LOT-7,SE1/4SW1/4,SW1/4SE1/4	116.09
						10	SE1/4SE1/4	40.00
						11	E1/2,SE1/4NW1/4,SW1/4,SE1/4	520.00
						12	LOTS-1,2,3,E1/2NE1/4,NW1/4,N1/2SW1/4,SW1/4SW1/4,NW1/4SE1/4	508.04
						14	N1/2NW1/4,SW1/4NW1/4,NW1/4SW1/4	160.00
						15	E1/2	480.00
						19	ALL	640.00
						20	ALL	640.00
						21	ALL	640.00
						22	LOTS-1,W1/2NE1/4,NW1/4,N1/2SW1/4	356.66
					0005W	24	NE1/4NE1/4,S1/2NE1/4,SW1/4,SE1/4	440.00
						25	N1/2NE1/4,NW1/4	240.00
						26	ALL	640.00
						34	SE1/4NE1/4,E1/2SW1/4,SE1/4	280.00
						35	N1/2NE1/4,SW1/4NE1/4,W1/2	440.00
				0015N	0003W	17	ALL	640.00
						19	SE1/4	160.00
						20	NE1/4,E1/2NW1/4,SW1/4NW1/4,SW1/4,W1/2SE1/4,NE1/4SE1/4	560.00
						29	N1/2NW1/4,SW1/4SW1/4	120.00
						30	E1/2	320.00
						5	LOT-4,SW1/4NW1/4,SW1/4,NW1/4SE1/4	281.71
						8	S1/2NE1/4,NW1/4,SW1/4,SE1/4	560.00
				0016N	0003W	32	W1/2SW1/4	80.00

COUNTY	SERIAL #	AGNCY	POPULAR NAME	TOWN	RANG	SEC	LAND DESCRIPTION	ACRES
WASHINGTON	I15321	BLM	PW RES 93	0013N	0005W	3	LOT-1	31.35
	I15332	ARMY	RIFLE RANGE	0011N	0005W	17	N1/2NW1/4,SE1/4NW1/4	120.00
						8	SW1/4SW1/4	40.00
	I15361	BLM	PW RES 107	0013N	0006W	29	NW1/4NW1/4	40.00
	I15649	FERC	PWR S RES 168	0012N	0002W	19	S1/2 SE1/4	80.00
	I15651	FERC	PWR S RES 77	0011N	0007W	4	EVERY SMALLEST LEGAL SUBDIV LYING WITHIN 1/4 MILE OF SNAKE RIVER	133.32
						9	EVERY SMALLEST LEGAL SUBDIV LYING WITHIN 1/4 MILE OF SNAKE RIVER	133.32
				0012N	0007W	18	LOT 4,SW1/4 SE1/4	62.40
				0014N	0007W	23	NE1/4 SE1/4	40.00
				0015N	0007W	36	LOT 1	6.80
				0017N	0005W	11	LOT 4	49.40
						14	LOT 1,2	63.91
						27	LOTS 1,2,3	99.93
						28	LOTS 2,3,4	75.49
						29	LOT 1	6.16
						31	LOT 1	49.07
						32	LOTS 1,2,5	113.13
						33	LOTS 2,3,4	75.49
	I15693	FERC	PWR S CL 420	0011N	0006W	18	LOTS 4	39.88
						19	LOTS 3,4	13.50
					0007W	21	LOT 3	39.40
						24	LOTS 1,2,3,4,5	138.80
						25	LOT 1	3.90
						28	LOT 2	9.60
						4	LOT 4	39.61
						8	LOTS 2,3,5	140.68
				0012N	0007W	28	LOT 1	39.45
						33	LOTS 3,4	65.12
						6	LOTS 2,3,4,5,6,SE1/4SW1/4	165.30
						7	LOT 1	38.25
				0013N	0007W	17	LOTS 1,2,SW1/4NE1/4,S1/2NW1/4	151.67
						20	LOTS 1,2	45.50
						29	LOTS 3,4	54.00
						32	NW1/4SW1/4	40.00
						4	LOT 4,SW1/4NW1/4	66.00
						5	LOTS 1,2,3,4	96.90
						6	LOT 1	0.19
						7	LOT 1	44.30
						8	LOT 1,2	77.80
				0014N	0007W	13	SW1/4SW1/4	40.00
						14	LOT 1	0.25
							LOT 3	15.27
						23	LOTS 1,2,E1/2SE1/4,	144.78
						24	NW1/4NW1/4	40.00
						26	LOT 2,NE1/4NE1/4	89.84
						27	LOT 1,SW1/4SW1/4	77.31
						28	LOT 2	38.59
						33	LOTS 1,2,3,4,	107.98
				0015N	0006W	17	LOTS 1,2,3,NE1/4NW1/4	126.30
						13	LOTS 1,2	32.50
						19	LOTS 1,2,3,4	170.00
						30	LOTS 1,2,3,4	131.54
						31	LOTS 1,2	76.30
						4	LOT 4	42.65
						5	LOTS 1,2,3,4,SE1/4NE1/4,NW1/4SE1/4	225.60
						8	LOTS 1,2,3,4,SW1/4NE1/4,NW1/4SE1/4,SE1/4SW1/4	239.90
				0016N	0005W	6	LOT 2	36.30
					0006W	1	LOTS 2,4,S1/2SW1/4	133.60
						10	LOTS 3,4	54.10
						15	LOT 5,NW1/4NE1/4	76.50
						2	LOT 1,SE1/4SE1/4	49.20
						21	LOTS 1,2	29.70
						22	LOT 1,SW1/4NW1/4,W1/2SW1/4	159.80
						28	LOTS 1,2,3,4,5,6	173.41
						33	LOTS 1,2,3,4,SW1/4NE1/4,NE1/4NW1/4,SE1/4NW1/4,NE1/4SW1/4	231.45
				0017N	0005W	11	NW1/4SE1/4	40.00
						14	NE1/4NW1/4	40.00
						27	NW1/4NE1/4	40.00
						32	NE1/4SW1/4	40.00
						33	N1/2NW1/4	80.00
	I15722	FERC	PWR PROJ 419	0011N	0003W	3	SE1/4 SW1/4	40.00
				0012N	0002W	19	LOTS 2,3,NE1/4 SW1/4,NW1/4 SE1/4,S1/2 SE1/4	225.98
					0003W	25	SW1/4 NE1/4,E1/2 W1/2	40.00
	I15728	FERC	PWR PROJ 314	0011N	0003W	2	LOTS 1,2,3,4,S1/2 N1/2,SW1/4	478.84
						3	LOTS 1,2,S1/2 NE1/4,SE1/4	317.77
				0012N	0003W	35	NE1/4,E1/2 SW1/4,SE1/4	240.00
	I15757	FERC	PWR PROJ 940	0016N	0003W	33	LINEAR	1.51
	I3639	BLM	CRANE CREEK ADM SITE	0011N	0001W	7	N1/2SW1/4SE1/4	20.00

APPENDIX T

WOODY RIPARIAN HABITAT CLASSIFICATION

Form Class	NORM	>78%	3
		64-78%	2
		50-63%	1
		<50%	0
	HEDGED	<14%	3
		14-28%	2
		29-50%	1
		>50%	0
	DEADDED & NT	<2%	3
		2-16%	2
		17-24%	1
		25-30%	0
		>30%	U
Coverage Class	CANOPY	>76%	9
		59-76%	6
		30-58%	3
		20-29%	1
		<20%	0

		1-10MM	11-15MM	>15MM	
Size Class	REPROD.	>21%	>21%	<58%	3
		4-21%	9-21%	58-87%	2
		1-4%	4-9%	87-96%	1
		<1%	<4%	>96%	0

Streambank Erosion	EROSION	<4%	3
		4-15%	2
		16-30%	1
		31-39%	0
		≥40%	U

Instructions:
Rate each parameter as shown and add the cumulative score. In a few cases age classes will fall into different score brackets; score reproduction in the bracket in which two of the three categories fall. Any reach with more than 30% dead and decadent or 40% or more bank erosion routinely rates unsatisfactory (u) irrespective of total score. The total score is a good indicator to determine if the "problem" is on-site or off-site in origin.

Excellent =	19-24 points
Good =	10-18 points
Fair =	7-9 points
Poor =	<7 points

APPENDIX U

STREAM HABITAT CLASSIFICATION

Stream Survey Form

Stream:
Gradient:
Location:
Time:
Date:

Riffle & Runs:
Stream depth: 1/4: 1/2: 3/4:
Average stream width:

Pools: Width: Depth: Amt: & Type of Pool Cover:

Pool - riffle ratio:

Streambanks: Left: Right:
Bank cover type:
Hgt. of vegetation:
% Bank Cover:
% Ungulate use:
Bank stability:

Classification of Stream bottom & % of each type:
Fine gravel .1-1 in.
Coarse gravel 1-3 in.
Small rubble 3-6 in.
Large rubble 6-12 in.

Aquatic vegetation:
Percent of bottom with algae & diatoms:
Percent of bottom with rooted vegetation:

Amt. of Fish Cover:
% of Streambanks with overhanging vegetation:
% of Banks with undercut areas:
% of Stream shaded:

Sedimentation:
Percent of channel with silt cover:
depth of silt cover:

Chemical & Physical Measurements:
Time:
D. O.:
Current Velocity: 1/4: 1/2: 3/4:
Water Temp.:
Air Temp.:
PH:

Other Apparent Limiting Factors to Fisheries in Area:

STREAM HABITAT INVENTORY

	EXCELLENT	GOOD	FAIR	POOR
1) High Stream bank cover % shading	4 more than 80% shading	3 60% to 80% shading	2 40% to 60% shading	1 less than 40% shading
2) Low Stream bank cover	4 veg. well rooted & over 8", sod intact - no erosion from sodded areas.	3 veg. mostly over 4", sod mostly intact with less than 10% bare soil with broken sod, some surface erosion.	2 veg. mostly less than 3" high, less than 20% bare soil, sod broken & surface erosion apparent.	1 broken sod, over 20% bare soil showing, surface erosion a serious problem.
3) Stream bank stability	4 less than 5% of banks with active erosion.	3 5% to 10% of banks with active erosion.	2 10% to 20% of banks with active erosion.	1 more than 20% of banks with active erosion.
4) Stream channel stability	4 no or negligible lateral channel movement & bank erosion, channel scour or changing channels.	3 up to 5% lateral movement & bank erosion, minor channel scouring & changing channels within stream bed.	2 up to 10% lateral movement, scouring & redeposition obvious, channel changes occuring.	1 more than 10% lateral channel movement & bank cutting, channel changes & scouring evident & source of extreme sedimentation.
5) Sedimentation % fine sediments- sand & smaller covering stream bottom.	4 less than 10% fine sediments.	3 10% to 15% fine sediments.	2 15% to 25% fine sediments.	1 more than 25% fine sediments.
6) In-stream cover- pools, cutbanks, boulders, debris, overhanging veg., velocity breaks or turbulence	4 over 50% of stream channel containing instream cover.	3 25% to 50% instream cover, 50% to 75% exposed.	2 10% to 25% instream cover, 75% to 90% exposed.	1 less than 10% instream cover, over 90% exposed.
	Column Total _____	Column Total _____	Column Total _____	Column Total _____

Total Numerical Score _____

Overall Rating _____

Excellent = 22 to 24 Good = 16 to 21
Fair = 10 to 15 Poor = 6 to 9

APPENDIX V

LAND TRANSFERS - PROPOSED PLAN (ALTERNATIVE E)

Legal Description	Sale T1	Sale or Exchange T2	Exchange Only T3	DLE T4
T.1S., R.2W.				
Sec. 4, Lot 4, SW¼NW¼, E½SW¼, W½SE¼		232.94		
T.1N., R.2W.				
Sec. 13, SE¼SE¼		40.00		
13, NE¼SW¼, N½SE¼				120.00
T.1N., R.3W.				
Sec. 25, SW¼NW¼		40.00		
26, W½NE¼, SE¼NE¼, NE¼NW¼		160.00		
T.2N., R.3W.				
Sec. 21, W½SW¼NE¼, NW¼NW¼, S½NW¼, N½SW¼, SW¼SW¼, N½SE¼SW¼, W½W½SE¼	320.00			
28, NE¼SW¼, SW¼SE¼		80.00		
29, NE¼NW¼		40.00		
T.4N., R.2E.				
Sec. 7, NW¼NE¼, NE¼NW¼	80.00			
T.4N., R.1E.				
Sec. 11, SW¼NE¼		40.00		
T.5N., R.1E.				
Sec. 3, SW¼NW¼		40.00		
27, SW¼SW¼			40.00	
28, SE¼NW¼			40.00	
33, NW¼NE¼			40.00	
T.5N., R.1W.				
Sec. 14, NW¼SW¼, SE¼SE¼		80.00		
T.5N., R.2W.				
Sec. 21, NE¼NE¼, NE¼NW¼		80.00		
T.6N., R.5E.				
Sec. 23, Lot 7	0.12			
26, Lot 8	5.05			
T.6N., R.3E.				
Sec. 18, E½SW¼		80.00		

Legal Description	Sale T1	Sale or Exchange T2	Exchange Only T3	DLE T4
T.6N., R.2E.				
Sec. 2, Lot 2		39.66		
17, SE¼NE¼		40.00		
21, NE¼NW¼		40.00		
31, Lot 1		38.61		
T.6N., R.1E.				
Sec. 18, SW¼NE¼		40.00		
21, SE¼SW¼, S½SE¼		120.00		
22, SW¼SW¼		40.00		
27, W½NW¼		80.00		
28, N½NE¼		80.00		
32, NW¼NE¼, N½NW¼		120.00		
T.6N., R.5W.				
Sec. 1, SE¼NE¼				40.00
2, SW¼NE¼, SE¼NW¼, W½SE¼				160.00
10, S½NE¼, NE¼SE¼, S½SE¼				200.00
10, NW¼SE¼		40.00		
12, SE¼NW¼				40.00
23, NW¼NW¼SW¼		10.00		
25, NW¼	160.00			
T.7N., R.2E.				
Sec. 22, SW¼NW¼		40.00		
35, SE¼NW¼, NE¼SE¼		80.00		
T.7N., R.1E.				
Sec. 1, Lot 3, SE¼NW¼, NW¼SW¼		120.00		
2, SE¼SE¼		40.00		
T.7N., R.1W.				
Sec. 12, SW¼NW¼		40.00		
T.7N., R.2W.				
Sec. 7, Lot 1		38.42		
8, NE¼NW¼		40.00		
17, NE¼NE¼		40.00		
T.7N., R.3W.				
Sec. 2, SW¼NE¼		40.00		
4, Lots 1, 2, 3, 4, S½N½, E½SE¼		398.90		
5, Lot 1, SE¼NE¼		80.08		
8, NE¼NE¼		40.00		
12, NW¼SE¼		40.00		
32, NW¼SE¼		40.00		

Legal Description	Sale T1	Sale or Exchange T2	Exchange Only T3	DLE T4
T.7N., R.5W.				
Sec. 20, Lot 2a			2.80	
T.8N., R.1E.				
Sec. 23, NW¼NW¼		40.00		
28, NE¼NW¼		40.00		
T.8N., R.2W.				
Sec. 18, Lots 5, 6, E½SW¼		158.64		
19, NE¼, E½NW¼, NE¼SW¼, N½SE¼		360.00		
20, NW¼		160.00		
31, Lot 2, S½SE¼		119.13		
32, SW¼NE¼, N½SW¼		120.00		
T.8N., R.3W.				
Sec. 13, SW¼NE¼, SE¼SW¼		80.00		
23, W½NE¼, SE¼NE¼		120.00		
24, NE¼NW¼, S½NW¼, NE¼SW¼		160.00		
25, SW¼NW¼, NE¼SW¼		80.00		
28, NE¼NE¼		40.00		
31, NE¼SE¼		40.00		
32, N½SW¼, SE¼SW¼, SE¼		280.00		
33, NE¼NE¼, S½S½		200.00		
T.9N., R.2E.				
Sec. 18, Lot 2		21.98		
19, Lot 3		22.25		
T.9N., R.1E.				
Sec. 11, S½NW¼		80.00		
26, W½NE¼, SE¼NE¼		120.00		
T.9N., R.2W.				
Sec. 7, Lot 1, NE¼NW¼		74.16		
T.9N., R.3W.				
Sec. 18, SE¼SE¼		40.00		
23, NW¼SE¼		40.00		
28, N½NW¼		80.00		
T.10N., R.3W.				
Sec. 26, NW¼NW¼		40.00		
27, SW¼SE¼		40.00		
34, SE¼NE¼		40.00		
35, S½NW¼, NE¼SW¼		120.00		

Legal Description	Sale T1	Sale or Exchange T2	Exchange Only T3	DLE T4
T.10N., R.4W.				
Sec. 10, SE¼SW¼		40.00		
12, SW¼SW¼		40.00		
T.12N., R.3W.				
Sec. 12, Lot 3, SE¼NW¼, NW¼SE¼		118.34		
13, NW¼NE¼		40.00		
T.12N., R.4W.				
Sec. 20, NW¼SE¼		40.00		
27, SE¼SE¼		40.00		
T.12N., R.5W.				
Sec. 31, E½SW¼		80.00		
35, NE¼NE¼, NE¼NW¼		80.00		
T.11N., R.2E.				
Sec. 19, Lot 7		40.23		
T.11N., R.1E.				
Sec. 23, NW¼NE¼		40.00		
24, SW¼NW¼		40.00		
26, SE¼SW¼		40.00		
T.11N., R.2W.				
Sec. 1, Lot 1, SE¼NE¼		80.18		
4, Lot 4		43.25		
15, SE¼NE¼, S½NW¼, N½SW¼		200.00		
23, W½NE¼		80.00		
25, SW¼NW¼		40.00		
T.11N., R.5W.				
Sec. 1, W½SE¼		80.00		
5, SE¼SE¼		40.00		
6, Lot 6		40.30		
8, NE¼NE¼		40.00		
9, N½NW¼		80.00		
T.11N., R.6W.				
Sec. 5, NW¼SW¼, SE¼SE¼		80.00		
8, NE¼NE¼, SE¼SE¼		80.00		
T.11N., R.7W.				
Sec. 11, NW¼SE¼		40.00		
12, SW¼SW¼		40.00		

Legal Description	Sale T1	Sale or Exchange T2	Exchange Only T3	DLE T4
T.13N., R.1W.				
Sec. 17, SE¼SE¼		40.00		
20, NE¼NW¼		40.00		
T.13N., R.2W.				
Sec. 6, SE¼NW¼		40.00		
18, Lots 1, 2		66.87		
T.13N., R.3W.				
Sec. 13, SE¼NE¼		40.00		
22, SE¼NE¼		40.00		
T.13N., R.4W.				
Sec. 11, N½NE¼, SE¼NE¼		120.00		
12, NE¼NE¼, SW¼NW¼		80.00		
23, NE¼NE¼		40.00		
T.13N., R.7W.				
Sec. 25, SE¼NE¼		40.00		
T.14N., R.1W.				
Sec. 8, NW¼SE¼		40.00		
T.14N., R.2W.				
Sec. 1, SE¼SW¼, NW¼SE¼		80.00		
3, SW¼NW¼, NW¼SW¼		80.00		
4, Lots 1, 2, SE¼NE¼		119.29		
T.14N., R.3W.				
Sec. 1, Lot 1		40.00		
23, SW¼NE¼, N½NW¼, SE¼NW¼, E½SW¼, NW¼SE¼		280.00		
T.15N., R.4E.				
Sec. 3, NW¼SW¼		40.00		
T.15N., R.1W.				
Sec. 3, Lot 4		39.11		
4, Lot 4, SW¼NW¼		79.50		
9, S½NW¼		80.00		
17, NW¼NE¼		40.00		
18, NW¼SE¼		40.00		
23, NE¼NW¼, NE¼SW¼		80.00		

Legal Description	Sale T1	Sale or Exchange T2	Exchange Only T3	DLE T4
T.15N., R.2W.				
Sec. 3, SW¼SW¼		40.00		
13, N½N½		160.00		
14, NW¼NE¼, N½NW¼		120.00		
15, NE¼NE¼		40.00		
27, W½NW¼		80.00		
30, Lots 3, 4, E½SW¼		162.30		
31, Lot 1		41.12		
33, SE¼SE¼		40.00		
35, NW¼SE¼		40.00		
T.15N., R.3W.				
Sec. 25, SE¼SE¼		40.00		
27, SW¼SE¼		40.00		
28, SE¼SE¼		40.00		
33, NE¼NE¼		40.00		
34, NE¼NE¼		40.00		
T.16N., R.1W.				
Sec. 4, NE¼SW¼		40.00		
25, NE¼SE¼		40.00		
33, S½S½		160.00		
T.16N., R.2W.				
Sec. 30, Lot 6		7.84		
T.16N., R.4W.				
Sec. 8, NE¼NW¼			40.00	
17, NW¼NW¼			40.00	
18, E½NE¼			80.00	
T.16N., R.5W.				
Sec. 2, Lot 3			40.14	
4, NE¼SW¼			40.00	
5, N½SW¼, SE¼SW¼			120.00	
6, Lots 1, 5, 6			101.24	
8, SE¼NE¼, E½NW¼			120.00	
9, NW¼NW¼, SE¼NW¼, SE¼SW¼, W½SE¼			200.00	
10, SW¼			160.00	
11, NE¼			160.00	
15, NW¼NE¼, NW¼NW¼, N½SW¼, SW¼SW¼			200.00	
19, Lots 3, 4, E½SW¼			142.15	
21, NW¼NE¼, N½NW¼			120.00	
23, SE¼NW¼, E½SW¼			120.00	
24, E½NW¼			80.00	

Legal Description	Sale T1	Sale or Exchange T2	Exchange Only T3	DLE T4
T.16N., R.6W.				
Sec,. 1, Lot 2, NW¼SE¼			64.20	
10, E½SE¼			80.00	
14, S½NE¼			80.00	
23, SE¼SW¼, SE¼			200.00	
24, SW¼, S½SE¼			240.00	
25, W½			320.00	
26, N½, N½S½			480.00	
27, NW¼NW¼, S½			360.00	
28, SE¼NE¼, NE¼SE¼			80.00	
T.17N., R.1W.				
Sec. 5, Lot 4, SW¼NW¼		73.45		
15, SE¼SW¼		40.00		
19, S½SE¼		80.00		
21, NW¼NE¼, NW¼NW¼		80.00		
22, SW¼NE¼		40.00		
T.17N., R.4W.				
Sec. 6, Lots 6, 7, E½SW¼			133.60	
7, Lots 1, 2, E½NW¼, NE¼SW¼			173.10	
18, Lots 1, 3, 4, SE¼NW¼, E½SW¼			200.50	
19, Lots 1, 5, E½NW¼, E½SW¼NW¼, NE¼SW¼, E½NW¼SW¼, N½SE¼SW¼			210.97	
T.17N., R.5W.				
Sec. 1, E½SW¼, E½SW¼SW¼, SE¼			260.00	
11, NE¼NE¼SE¼, S½NE¼SE¼, NE¼SW¼SE¼, S½SW¼SE¼, SE¼SE¼			100.00	
12, SW¼NE¼, S½NW¼, N½SW¼, W½SE¼			280.00	
13, SW¼NE¼, S½NW¼, N½SW¼, N½SE¼			280.00	
14, N½NE¼, SE¼NE¼, NE¼SE¼			160.00	
23, SE¼SW¼			40.00	
24, E½NE¼			80.00	
25, NW¼NE¼, SE¼NE¼, E½SE¼			160.00	
27, SW¼NE¼, NE¼SW¼			80.00	
28, E½NE¼SE¼SE¼, S½SE¼SE¼			25.00	
32, SW¼SW¼			40.00	
34, S½			320.00	
35, SE¼SE¼			40.00	
T.18N., R.2W.				
Sec. 33, SW¼NE¼		40.00		
TOTALS	563.00	10,106.55	6,374.00	560.00

APPENDIX W

PETROLEUM AND GEOTHERMAL POTENTIAL

PETROLEUM POTENTIAL

Subsurface data is very limited as described in the report, "Oil and gas potential in the Cascade RMP" (Moore 1984). However, parts of the Cascade Resource Area (RA) are considered to have some potential for petroleum resources. However, with respect to the more promising areas in the Overthrust belt of eastern Idaho, the petroleum potential of the Cascade RA is relatively low.

Map 3-11 displays the petroleum potential of areas within the Cascade RA with respect to their geologic setting in Idaho.

Western Snake River Plain - Generally low potential for petroleum (natural gas) resources. A low to medium potential has been assigned to the area of numerous gas shows in exploratory wells in the Payette area.

The best potential for petroleum resources in the RA is within the western Snake River Plain. The petroleum potential of the western Snake River Plain is difficult to assess because of the persistent volcanic cover, low density of exploratory drillings, and a paucity of subsurface geophysical data. However, non-marine, carbonaceous sedimentary rocks that are intercalated with volcanic sequences beneath the Snake River Plain may have some potential as organic-rich source rocks. Numerous gas shows from exploratory wells on the Snake River Plain, particularly near the Payette area, indicate the presence of at least some minor accumulations of methane and related gases. Methane associated with ground water systems has also been reported from many water wells throughout the western Snake River Plain. The presence of larger commercial accumulations of gas is presently unknown. The western Snake River Plain is considered as "prospectively valuable" for petroleum resources (natural gas).

Idaho Batholith - Zero potential.

The widespread presence of plutonic rocks of the batholith precludes the presence of oil and gas in this area.

Columbia River Basalt Plateau - Zero to low potential.

This region is associated with the thick cover of the Miocene Columbia River Basalt. The Columbia Plateau is largely unexplored and the subsurface largely unknown because of the vast volcanic cover. Conventional geophysical techniques have been unable to penetrate the basalts. In the western part of the area along the Snake River, a variety of Pre-Tertiary rocks crop out discontinuously through the basalt. These Pre-Tertiary rocks consists mostly of a wide-range of late Paleozoic through Triassic volcaniclastic sedimentary, metasedimentary, and metavolcanic rocks. Although some of the marine sedimentary rocks may have some minor potential, the high degree of metamorphism of many of these rocks indicates a poor chance for accumulation of petroleum resources.

Carbonaceous Tertiary sedimentary rocks underlying Columbia River basalt in Washington have yielded some gas shows and have attracted industry interest in the past few years. Although the Columbia River basalts probably overlap batholith rocks to the east and Pre-Tertiary metamorphic rocks to the west, accumulations of non-marine carbonaceous sedimentary rocks may underlie central parts of this area within the RA. Therefore some minor potential cannot be ruled out.

Outlook for Petroleum Exploration in the Cascade RA

Extensive industry exploration in the Cascade RA in the immediate future is very unlikely, considering the recent downturn in the petroleum industry and the extremely speculative potential of the area. However, as in the past, when petroleum industry conditions improve, sporadic exploration activity can be anticipated on the western Snake River Plain.

Improved magnetotelluric geophysical methods on the Snake River Plain and the Columbia Plateau hold promise that knowledge of the subsurface and the petroleum potential can be improved.

Petroleum Potential Categories for the Cascade RA

Zero Potential = No potential for petroleum resources. No geologic evidence to indicate the presence of potential source rocks, reservoir rocks, trapping mechanisms, or favorable thermal history required for petroleum accumulation.

Zero to Low Potential = Little evidence of characteristics necessary for petroleum accumulations. Although the subsurface is poorly known, the presence of rocks favorable for petroleum resources could conceivably be masked by surface volcanic cover.

Low Potential = Some geologic indication of petroleum potential, particularly natural gas. Although knowledge of the subsurface is poor, the presence of thick carbonaceous sedimentary sequences which could serve as possible petroleum source rocks are present at depth.

Low to Medium Potential = Concentration of gas shows in exploratory wells indicate an increased favorability for at least minor gas accumulations.

Refer to Map 3-11 for a display of these categories within the Cascade Resource Area.

GEOTHERMAL POTENTIAL

Refer to Map 3-12 for a display of the geothermal potential in the Cascade Resource Area.

Geothermal Regions

Snake River Plain - Characterized by warm to moderate temperature (40°-150°) regional thermal aquifer systems.

Idaho Batholith - Characterized by warm to moderate isolated and localized fault or fracture controlled systems.

Columbia Basalt Plateau - The existence of thermal resources in this area is largely unknown. The area is probably partially underlain by the Idaho Batholith in the eastern one third of the area and therefore contains localized fracture controlled systems. The remainder of the area may contain isolated small low to moderate temperature systems.

Potentials

Potentials are for low to moderate temperature (40°-150°) geothermal resources. Potential for high temperature (>150°C) geothermal resources is zero to low and largely unknown for the entire Cascade Resource Area.

Zero to Low - Areas that are largely unknown but may have some potential based on higher than normal heat flow.

Low - Area contains scattered warm wells and springs and favorable geologic structures.

Moderate - Area contains numerous thermal wells and springs that appear to be related hydrologically.

High - Area contains developed systems or systems that are well defined based on geologic and hydrologic data.

*U.S. GOVERNMENT PRINTING OFFICE: 1987-0-791-057/61002