GOAL VI

AIR, WATER AND LAND RESOURCES QUALITY

BAKER COUNTY

COMPREHENSIVE PLAN

GOAL VI
AIR, WATER AND LAND RESOURCES QUALITY

AIR, WATER and LAND RESOURCES QUALITY GOAL: To maintain and improve the quality of the air, water, and land resources of the county.

I. WATERSHED INVENTORY

A. Watersheds (Municipal)

1. Baker - The City of Baker's Municipal Watershed involves about 9,300 acres of land in Townships 8 and 9 South, Ranges 38 and 39 East. The bulk of the Watershed is in Township 9 South, Range 38 East. The landmarks include the Goodrich Creek Drainage on the North Boundary and the Elk Creek Drainage on the South Boundary.

2. Sumpter - The City of Sumpter is currently using Forest Service ground for its watershed under a special permit.

3. Tne other cities in the County use subsurface infiltration collector systems, springs or wells.

B. Sources of Information

1. City Administrators

II. WATER QUALITY and QUANTITY INVENTORY

A. Surface Water

Assessment of Stream Quality in Oregon Based on Evaluation of Data Collected in the 1976 Stream Sampling Program, DEQ, 1977, pages 53-57. DEQ established two monitoring stations in the Powder River Basin in 1976. The sampling point on the Powder River is at river mile 32.1 and the sampling point on the Burnt River is at river mile 2.9. After monthly samplings from November 1975 through October 1976, DEQ concluded that established standards for pH and dissolved oxygen were met. Higher flows with higher suspended solids during March-May were found characteristic of spring snow melt runoff in eastern Oregon. Instream temperatures were highest during June-October when air temperatures were highest and stream volumes were relatively low. A bacterial standard has not been established for the Basin by DEQ. Instream bacterial populations are most probably related to land wash runoff and irrigation return flows. Further studies by DEQ to distinguish the relationship between

total and fecal coliform concentrations in the Basin are necessary before a bacterial standard is established.

According to Surface Water Records and Precipitation Records of Oregon, 1978, State Water Resources Department pages 51-61, 190-191, the Powder River Basin has 6 storage gauges operated either by the State Water Resources Department or the U.S. Forest Service. The locations are mapped and described by township, range and section as well as elevation within Baker County. These gauges are used to measure by weight converted to inches, the precipitation during the observation period.

From the same reference there are 14 gauging stations recording discharge or elevation and content of streams, lakes, reservoirs and canals in the Powder River Basin.

Volume I, Statewide Water Quality Management Plan Beneficial Uses, Policies, Standards, and Treatment Criteria for Oregon, DEQ, 1976, pages 171-182.

Powder Basin

Beneficial Uses	Main Stem Snake River River Mile 260-335	All Other Basin Waters
Public Domestic*	X	X
Private Domestic*	X	X
Industrial	X	X
Irrigation	X	X
Livestock Watering	X	X
Salmonid Fish Rearing	X	X
Salmonid Fish Spawning	X	X

* With adequate pretreatment and natural water quality to meet drinking water standards.

USES	SNAKE	OTHER
Resident Fish & Aquatic Life	X	X
Wildlife & Hunting	X	X
Fishing	X	X
Boating	X	X
Water Contact Recreation	X	X
Aesthetic Quality	X	X
Hydro Power	X	

Water Quality Standards adopted pursuant to ORS 468.735 and enforceable by DEQ pursuant to ORS 468.720, 468.990 and 468.992. Notwithstanding the water quality standards contained

below, the highest and best practicable treatment and/or control of wastes, activities and flows shall in every case be provided so as to maintain dissolved oxygen and overall water quality at the highest possible levels and water temperatures, coliform bacteria concentrations, dissolved chemical substances, toxic materials, radioactivity, turbidities, color, odor, and other deleterious factors at the lowest possible levels.

No wastes shall be discharged and no activities shall be conducted which either alone or in combination with other wastes or activities will cause violation of the following standards in the waters of the Powder River Basin.

1. Dissolved Oxygen concentrations shall not be less than 75% of saturation at the seasonal low, or less than 95% of saturation in spawning areas during spawning, incubation, hatching, and fry stages of salmonid fishes.

2. Temperature Standards

   a. Snake River: No measurable increases shall be allowed when stream temperatures are 68° F. or greater; or more than 0.5° F. increase due to a single source discharge when receiving water temperatures are 67.5° F. or less or more than 2° F. increase due to all sources combined when stream temperatures are 66° F. or less, except for specifically limited duration activities which may be specifically authorized by DEQ under such conditions as it may prescribe and which are necessary to accommodate legitimate uses or activities where temperatures in excess of this standard are unavoidable.

   b. All other basin waters: No measurable increase in temperature when the receiving water temperatures are 64° F. or greater; or more than 0.5° F. increase due to a single source discharge where receiving water temperatures are 65° F. or less; or more than 2° F. increase due to all sources combined when receiving stream temperatures are 62° F. or less.

3. Turbidity No more than 10% cumulative increase in natural stream turbidities shall be allowed except for certain specifically limited duration activities which may be specifically authorized by DEQ under such conditions as it may prescribe and which are necessary to accommodate essential dredging, construction, or other legitimate uses or activities where turbidities in excess of this standard are unavoidable.

4. pH values shall not fall outside the following ranges:

   a. Main stem Snake River (RM 260-335): 7-9;
   b. All other basin streams: 6.5-8.5.

5. Organisms of the Coliform Group where associated with fecal sources on the main stem

Snake River (RM 260-335): average concentrations shall not exceed 1,000 per 100 milliliters, with 20% of the samples not to exceed 2400 per 100 ml.

6. Bacterial pollution or other conditions deleterious to waters used for domestic purposes, livestock watering, irrigation, bathing, or otherwise injurious to public health shall not be allowed.

7. The liberation of dissolved gases, such as carbon dioxide, hydrogen sulfide or other gases, in sufficient quantities to cause objectionable odors or to be deleterious to fish or aquatic life, navigation, recreation, or other reasonable uses made of such waters shall not be allowed.

8. The development of fungi or other growths having a deleterious effect on stream bottoms, fish or other aquatic life, or which are injurious to health, recreation or industry shall not be allowed.

9. The creation of tastes, odors or toxic or other conditions that are deleterious to fish or other aquatic life or affect the potability of drinking water or the palatability of fish or shellfish shall not be allowed.

10. The formation of appreciable bottom or sludge deposits or the formation of any organic or inorganic deposits deleterious to fish or other aquatic life or injurious to public health, recreation or industry shall not be allowed.

11. Objectionable discoloration, scum, oily sleek or floating or coating of aquatic life with oil films shall not be allowed.

12. Aesthetic conditions offensive to the human senses of sight, taste, smell or touch shall not be allowed.

13. Radioisotope concentrations shall not exceed maximum permissable concentrations in drinking water, edible fishes or shellfishes, wildlife, irrigated crops, livestock and dairy products or pose an external radiation hazard.

14. The concentration of total dissolved gas relative to atmospheric pressure at the point of sample collection shall not exceed 105% of saturation except when stream flow exceeds the 10 year, 7 day average flood.

15. Dissolved chemical substances: Guide concentrations set by DEQ shall not be exceeded unless specifically authorized by DEQ upon such conditions as it may deem necessary to carry out the general intent of this plan and to protect the beneficial uses set forth above.

Where the natural quality parameters of waters in the basin are outside the numerical limits of the above assigned water quality standards, the natural water quality shall be the standard.

Mixing Zones DEQ may suspend the applicability of all or part of the water quality standards set forth in this section, except those standards relating to aesthetic conditions, within a defined immediate mixing zone of specified and appropriately limited size adjacent to or surrounding the point of waste water discharge. The sole method of establishing such mixing zone shall be by DEQ definition in a waste discharge permit.

In establishing a mixing zone in a waste discharge permit, DEQ:

1. May define the limits of the mixing zone in terms of distance from the point of the waste water discharge or the area or volume of the receiving water or any combination thereof;

2. May set other less restrictive water quality standards to be applicable in the mixing zone in lieu of the suspended standards; and

3. Shall limit the mixing zone to that which in all probability, will:

   a. Not interfere with any biological community population of any important species to a degree which is damaging to the ecosystem; and
   b. Not adversely affect any other beneficial use disproportionately.

Testing Methods The analytical testing methods for determining compliance with the water quality standards contained in this section shall be in accordance with the most recent, approved method in use by DEQ.

Minimum Design Criteria for Treatment and Control of Wastes Subject to the implementation program set forth in Section IV(C) of this document, prior to discharge of any wastes from any new or modified facility to any waters of the basin, such wastes shall be treated and controlled in facilities designed in accordance with regulations defined by DEQ which include treatment of sewage and industrial wastes.

Volume II, Statewide Quality Management Plan Presently Identified Needs and Proposed Action Program for Individual River Basins in Oregon, DEQ, 1976, pages 111-117.

Powder River Basin - Table A

Priority	Segment/River Miles	Limiting Parameters
Snake River	176-409	Temp; DO; Coliform; Gases
Powder River	all	Flow, temperature
Burnt River	all	Flow, temperature
Remaining streams		Protection existing quality

Table D

Industrial Waste Category and Source | Waste Type

Burnt River Irrigaticn District Return Flows: There is a need in the basin to specifically evaluate existing irrigation projects and to determine the extent of impact of irrigation return flows on water quality. This, together with identification and evaluation of the costs and benefits of generalized best management practices should provide the basis for development of specific management programs which insure continued viable agricultural economy while minimizing adverse effects on water quality.

Table E
Industrial Wastes
Potential Needs & Proposed Actions

None presently identified

Table F
Water Quality Monitoring Program
Base Network

Sampling Stations	River Mile
1. Powder River	32.1
2. Burnt River	3.5

DEQ is to monitor each sampling point once per month every 3rd year for evaluating seasonal water quality variation and the progress of control program efforts.

Table G
Special Studies and Projects
Identified Needs and Proposed Actions

Priority Category	Needs and Actions
B	Standards Compliance Determination; Analyze for additional dissolved chemical parameters to determine adequacy of and compliance with present standards.
D	Dissolved oxygen fluctuation; Evaluate diurnal fluctuation relative to impact on apparent standards compliance and potential for revision of standard.

B	Bacterial Standard Revision; Gather additional data on fecal coliform to serve as a basis for possible future revision.
C	Industrial Discharges; Evaluate localized impact of the following sources on receiving water quality: 1. H.L. Williams (different ownership May 1982) Placer Mine discharge into Elk Creek 2. Parkerville Mine, placer discharge into N. Fk. Burnt River 3. Brownlee and Oxbow Dams on Snake River
A	Existing Data Verification; verify and correct errors in existing data in STORET system.
A	Non-point Source Studies; specific needs to be identified after review of 208 planning efforts presently underway.

Appendices and Text, Water Quality Management Plan, Powder River Basin, DEQ, 1976, pages C-10, C-13, and 12, 13, 15, and 16 respectively.

TABLE 10
INVENTORY OF WATER QUALITY MONITORING STATIONS
POWDER RIVER BASIN

Sampling Stations (River Mile)	Location			Approximate Water Elevation (Ft.)	STORE T #	Data Period[c] Analysis "A"	Nearest USGS Flow Gage Location (River Mile)
	Sec	T[a]	R[b]				
Powder River @:							
3 mi. S. of Baker (122.9)	17	9	39	3,500	402402	1966-74	near Baker (123.2)
4.5 mi. N. of Baker (112.0)	17	8	40	3,350	402079	1962-74	
Hwy. 86 Bridge (32.1)	32	8	43	2,650	402401	1967-74	near Richland (20.3)
Burnt River @:							
Huntington (3.4)	12	14	44	2,140	402403	1966-70	near Huntington (2.9)

[a] Township
[b] Range, East of Willamette Meridian
[c] Analysis "A" - Includes mineral constituents relative to basic water quality conditions and Temperature, pH, DO, BOD, and MPN Total

TABLE 13
SUMMARIZED WATER QUALITY STANDARDS VIOLATIONS
POWDER RIVER AND MAJOR TRIBUTARIES

	Dissolved Oxygen (DO)				pH			
	June-Oct		Nov-May		June-Oct		Nov-May	
Stations (River Mile)	#Obs[a]	# <6.0 mg/l	#Obs	# <6.0 mg/l	#Obs	# <6.5 >8.5	#Obs	# <6.5 >8.5
Powder River @:								
3 mi. S. of Baker (122.9)	6	0	7	0	4	0	7	0
4.5 mi. N. of Baker (112.0)	26	2	36	1	22	2	34	0
Hwy. 86 Bridge (32.1)	8	0	7	0	6	0	7	0
Total Observations	40	2	50	1	32	2	48	0
% of Total Observations		5%		2%		6%		0%
Burnt River @:								
Huntington (3.4)								
Total Observations	3	0	4	0	3	0	4	0
% of Total Observations		0%		0%		0%		0%

[a] Number of observations

A summary of Water Quality Standards violations as presented in Table 13 was based upon the data available from the sampling locations identified in Table 10. The recorded violations came largely from a single station on the Powder River, 4.5 miles north of Baker (River Mile 112). Most occurred in those years prior to the construction of Mason Dam when the river flow was sometimes reduced to intermittent pools. In recent years the flows have been augmented by water out of storage and overall river conditions have improved measurably. Even with the improved flows however, the stream loses some in water quality due to the way it must be managed to meet irrigation demands.

Water Temperature High water temperatures are common in Pine Creek and the main stem Powder and Burnt Rivers extending from June through September. The temperature rises are the result of solar heating on diminishing flows.

Dissolved Oxygen Saturations Two dissolved oxygen standards apply in the Powder River Basin. There is a special standard for the main stem Snake River that calls for a seasonal minimum of 75% of saturation and 95% of saturation in spawning areas during the spawning and egg development periods for salmonid fishes. The remainder of the basin comes under general standards that require a minimum of 6 mg/l.

The Snake River standard often is not met in the depths of reservoirs or in the waters released from reservoirs. The minimum dissolved oxygen standard in the Powder River has generally been met except in the flow deficient areas. Little dissolved oxygen data exist for the Burnt River and Pine Creek subbasins, but there are no apparent low dissolved oxygen problems.

Turbidity Only the Snake River currently comes under numerical turbidity limits in the standards, i.e., a cumulative allowance of 5 JTU above background. The remainder of the basin is subject to the general standards which state that there shall be no "objectionable" turbidity. Stream turbidity levels in the Powder River Basin are generally moderately low except during the spring snowmelting and runoff period.

pH The general standard for pH is 6.5 to 8.5 and it applies to all waters in the Basin. pH violations have been recorded only in areas of intense algal development where the photosynthetic process has driven pH levels up to over 9.0. This has happened in the flow deficient pools of the Powder River reservoirs. High pH levels can in some cases cause severe physiological stress or death to fish.

Other Parameters Oregon's special water quality standards for the Snake River contain a subsection on limits for dissolved chemical substances. The DEQ has not measured these substances in the Snake River zone bordering the Basin; therefore, no typical data are available for evaluation.

B. Stream Classification

The DEQ previously classified the Powder River Basin streams as water quality limiting in response to EPA requirements. This classification meant that application of EPA designated Minimum Effluent Standards for point sources would not be sufficient to insure that satisfactory water quality and water quality standards compliance would be achieved and maintained in the future.

Achievement of secondary treatment or equivalent control over municipal and industrial waste sources within the Powder River Basin has not resulted in a quality of water that will meet the established standards on a sustained basis. As previously noted, most of the Basin's streams fail to meet the established water quality standards due to seasonally high pH levels, high total coliform bacteria concentrations, and seasonally high turbidities.

The distribution of flow in the basin's waterways varies greatly through the seasons, being high in the spring and low most of the remainder of the year. Two undesirable water quality conditions result when these extremes in flow occur. Landwash runoff causes high turbidities during the spring flows and solar heating warms the diminished flows to a degree harmful to trout and other aquatic organisms who prefer cooler waters.

In view of the above, the waterways of the Powder Basin should be classified for future management purposes as water quality limiting. This acknowledges the fact that in spite of achieving the best practicable treatment of point source waste loads in the basin, certain parameters will not meet the established water quality standards or be within desirable limits. Special studies on selected streams and stream segments are required to define the extent, magnitude and causes of the water quality problems and to evaluate potential solutions. Tables beginning on page 48 of this document identify, in part, those needs and proposed actions. Many proposed in 1976 have been remedied.

Stream corridor management has been identified as an area of concern by the Soil and Water Conservation Districts' Natural Resource Conservation Program, 1979 Revision, particularly the Lower Powder River area. Programs such as debris management, streambank vegetation improvement and management, flood control structures, fish and wildlife habitat improvement and livestock management enhance surface water quality. Such programs are administered by various local and state agencies with federal agencies and landowners cooperating.

Also identified by the SWCD as a way to conserve and improve the quality of surface water is the need to improve irrigation delivery systems (ditches and canals) in the county.

Additional development of water storage sites within Baker County is identified as a concern of SWCD. Those potential reservoir sites identified are inventoried by the County under Goal III of this document. They are protected from conflicting development according to policies listed under Goals 3, 5, 6, 7, 9, and 13 of the Comprehensive Plan.

Irrigation water management is judged by SWCD to need improvement with concomitant improvements in water loss, soil erosion, alkalinity and salinity problems, and excess sedimentation in streams and reservoirs. Conversion to sprinkler irrigation, land leveling and improved irrigation ditches and canals are all functions of economics but do have significance for surface water quality in the County.

According to DEQ's Statewide Assessment of Nonpoint Source Problems, August, 1978, no stream in the Powder River Basin was identified as having more than a score of 6 on a scale of 0-12 for composite scoring. Included in that composite are analyses of the following problems:

1. Streambank erosion
2. Sedimentation
3. Excessive debris
4. Water withdrawals causing stream quality problems
5. Elevated water temperatures
6. Nuisance algae or aquatic plant growths

Streambank erosion is identified as severe on the upper reaches of Camp Creek and Connor Creek while many other high mountain creeks are shown on the DEQ map as suffering moderate streambank erosion.

Camp Creek is also inventoried as having severe sedimentation as is Cracker Creek. Many creeks and river reaches are inventoried as having moderate sedimentation problems.

No streams in the Basin are inventoried as having severe problems with debris although a few are listed as moderate in this regard.

Water withdrawals create a low flow problem in moderate proportions for Burnt River, Powder River and Pine Creek (Halfway) with the South Fork of the Burnt River listed as severe.

No streams in the Basin are inventoried as having a severe problem with elevated water temperatures, i.e., interfering significantly with salmonid fish production. Burnt River and various tributaries thereof, Powder River and Pine Creek (Halfway) suffer a moderate problem in this regard.

The Powder River from Baker through Keating Valley, the Burnt River from Weatherby to the Snake, and the slack water of the Powder and Brownlee Reservoir all are severely affected by nuisance algae. Other streams affected but to a lesser degree are Pine Creek (Halfway), Powder River in the gorge west of Richland, and Burnt River west of Bridgeport and through the Durkee Valley.

The Powder Basin Report, State Water Resources Board, 1967, xii-xviii concludes, in part, that:

1. The basin yields enough water to meet the demand plus growth in demand but that seasonal and geographic shortages do exist.

2. Ground and surface water sources can supply supplemental water to the existing 135,000 irrigated acres plus allow an increase of 35%, plus meet growth demands from domestic, municipal, industrial and recreational users.

3. Natural flows cannot meet existing or future demand during low flow months.

4. Increased supply can come from spring storage and more efficient use of appropriated water.

5. Potential reservoir sites are identified in the Powder Basin Report. These are inventoried by the County and protected by County policies.

6. Summer flows recommended by OFWC are considerably higher than available yield of most of the Basin streams.

7. A conflict exists among flood control, irrigation, recreation, industrial, pollution abatement and fish life uses of water.

8. Pollution of ground and surface water is localized, intermittent, and not a critical problem except in a few urban and industrial areas.

9. Flood damage benefits are not great enough to justify large, single purpose structures. Multipurpose structures are needed and are more easily justified.

10. Small reservoirs on important tributaries could reduce local flooding and erosion and provide late season water for irrigation, livestock and fish life.

C. Ground Water

The rural area zoning designation that once existed for Baker County is no longer in use. The alternative systems approved by DEQ for subsurface sewage disposal are judged adequate to protect areas of high groundwater from contamination, according to the Regional Field Office of DEQ, located in Pendleton.

A map entitled Ground Water of Baker Valley, prepared in 1967 by Lystrom and Hampton of the USGS in cooperation with the Oregon State Engineer shows the geology of the valley, its water table contours, and the location of selected wells and springs for which information is available as to well depth, depth to water, and depth to bedrock. The major aquifer in Baker Valley lies within the upper 50 feet of alluvium. General chemical quality of the water as well as depth to water vary to the point that the map can only be used for general information, not individual, site

specific application. Used in conjunction with the referenced map is Records of Wells, Water Levels and Chemical Quality of Water in Baker Valley, Baker Oregon by Ducret and Anderson, 1965. Altogether 49 wells and 2 springs are analyzed over a period of time from 1936-1964.

There is considerable overlap between the above investigation and another entitled Ground Water Data in the Baker County-Northern Malheur County Area, Oregon, Collins in cooperation with U.S. Bureau of Land Management, 1979. Information for wells and springs in Baker County not included in the previous report is charted on pages 10-14. Hydrographs for selected observation wells are listed on page 7 and are summarized as showing neither rising nor declining trends in ground water levels indicating a general balance between ground water discharge and recharge.

Ground Water Reconnaissance in the Burnt River Valley Area, Oregon, Don Price in cooperation with U.S. Bureau of Reclamation with the Oregon State Engineer, 1967, pages 17-18. According to this reference, most of the study area is underlain by rocks of low permeability that yield water slowly to wells and springs. Irrigated valley segments are underlain by clay and silt/sand/gravel deposits to depths of 1000 feet having the greatest potential for additional irrigation wells, properly constructed. Wells near Huntington and Ironside produce up to 1000 gpm of water because they tap hgihly permeable basaltic rock underlays that appear to be limited in their extent.

The chemical quality of the water in the study area seems generally good but should be checked for excess boron and SAR values before application to crops.

LAKES, PONDS, RESERVOIRS

Anthony Lake	7S	37E	18	1	24	09	086	195
Baldock Slough	9S	40E	10	1		09	098	30
Balm Creek Reservoir	7S	43E	7	1	24	09	715	1120
Black Lake	7S	37E	18	1	24	09	053	50
Brownlee Reservoir	8S	47E	25	1		09	717	40000
Bucket Lake	8S	37E	36	1	24	09	720	30
Clear Creek Reservoir	6S	45E	12	1		09	722	200
Cottonwood Reservoir	12S	41E	35	1		09	714	10
Crater Lake	6S	44E	12	1	24	09	059	
Downie Lake	8S	36E	34	1	24	09	057	50
Duck Lake	5S	47E	29	1		09	062	190
Dutch Flat Lake	7S	37E	30	1	24	09	058	49
East Lake	6S	45E	10	1		09	104	120
Fish Lake	6S	46E	16	1	24	09	052	860
Goose Lake	8S	43E	3	1	24	09	063	30
Gover Reservoir (Private)	8S	43E	13	1		09	707	30
Haines Pond	7S	39E	21	1		09	091	10
Haines Pond No. 2	7S	38E	35	1		09	101	20
Hardy Murray Reservoir	14S	38E	18	1		09	704	200
Higgins Reservoir	13S	38E	5	1		09	703	800
Highway 203 Pond	8S	40E	24	1		09	094	10
Hoefer Lake Lower	7S	37E	18	1	24	09	067	50
Hoefer Lake Upper	7S	37E	18	1	24	09	066	50
Killamacue Lake	8S	37E	14	1	24	09	068	150
Little Summit Lake	8S	37E	8	1		09	088	150
Long Creek Reservoir	14S	37E	15	1	24	09	718	40
LookingGlass Lake	6S	44E	5	1	24	09	069	308
Lost Lake	8S	37E	6	1	24	09	070	76
Meadow Lake	8S	37E	5	1	24	09	071	50

LAKES, PONDS, RESERVOIRS

Melhorn Reservoir	6S	46E	7	1		09	723	140
Mud Lake	7S	37E	7	1	24	09	073	70
North Powder Pond No. 1	6S	39E	27	1		09	096	30
North Powder Pond No. 2	6S	38E	36			09	102	30
Oxbow Reservoir	7S	48E	9	1		09	721	11000
Phillips Lake Mason Dam	10S	38E	30	1	24	09	719	23500
Pine Creek Reservoir	8S	38E	32	1		09	712	150
Pine Lake Lower	6S	45E	18	1	24	09	075	30
Pine Lake Upper	6S	45E	18	1	24	09	076	140
Pondosa Pond	6S	41E	30	1	22	09	099	30
Powell Reservoir (Private)	11S	40E	10	1		09	709	
Ranes Ponds	10S	36E	15	1		09	095	10
Red Mt. Lake	8S	37E	3	1	24	09	078	79
Rock Creek Lake	8S	38E	31	1	24	09	079	350
Rouse Reservoir	12S	37E	28	1		09	713	50
Sugarloaf Reservoir	6S	46E	5	1		09	725	100
Summit Lake	8S	37E	8	1	24	09	080	224
Sumpter Dredge Ponds				1		09	092	500
Sumpter Reservoir	9S	37E	29	1		09	710	20
Thief Valley Reservoir	8S	40E	27	31		09	716	8900
Trout Creek Pond	10S	36E	35	1	24	09	100	20
Twin Lake	9S	38E	5	1	24	09	082	74
Two Color Lake	6S	44E	7	1	26	09	083	30
Unity Reservoir	12S	37E	21	1		09	702	9300
Van Patten Lake	7S	37E	16	1	24	09	084	230
Whited Reservoir	13S	36E	13	1		09	711	200
Whitney Dredge Ponds	10S	36E		1		09	093	120
Willow Creek Lake	8S	38E	17	1	24	09	085	30
Wyatt Lake	8S	44E	24	1		09	097	30

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Ashby Creek		6S	48E	1	01	09	001	0	0	020	7
Copper Creek		6S	48E	1	01	09	001	0	0	040	17
Hale Creek	66	6S	48E	1	01	09	001	0	0	040	
Cooper Creek	66	6S	48E	2	01	09	001	0	0	940	
Ballard Creek		6S	48E	11	01	09	001	0	0	060	26
Herman Creek		6S	48E	15	01	09	001	0	0	080	33
Tartar Creek	99	6S	48E	22	01	09	001	0	0	100	10
Homestead Creek		6S	48E	21	01	09	001	0	0	120	30
N. Iron Dyke Creek	66	6S	48E	21	01	09	001	0	0	120	
Iron Dyke Creek		6S	48E	21	01	09	001	0	0	140	25
Holbrook Creek		6S	48E	28	01	09	001	0	0	160	17
Bob Creek		6S	48E	33	01	09	001	0	0	180	20
Hunter Creek		7S	48E	4	01	09	001	0	0	200	20
Black Canyon		8S	48E	19	01	09	001	0	0	220	35
Robinette Creek		9S	46E	25	01	09	001	0	1	000	30
Quicksand Creek		11S	46E	5	01	09	001	0	0	240	35
Canyon Creek		11S	46E	8	01	09	001	0	0	260	33
Soda Creek		11S	46E	17	01	09	001	0	0	280	35
Connor Creek		12S	45E	14	01	09	001	0	2	000	67
Dry Gulch		11S	45E	34	01	09	001	0	0	300	20
Fox Creek		12S	45E	22	01	09	001	0	0	320	53
Hibbard Creek		12S	45E	28	01	09	001	0	3	000	70
Bear Gulch		12S	45E	28	01	09	001	0	3	020	27
Morgan Creek		12S	45E	38	01	09	001	0	0	340	55
Billy Gulch		13S	45E	4	01	09	001	0	0	360	20

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Ryan Gulch		13S	45E	16	01	09	001	0	0	380	
Benson Creek		14S	45E	31	01	09	001	0	4	000	60
Smith Gulch		14S	45E	31	01	09	001	0	4	020	20
Dry Creek		14S	44E	36	01	09	001	0	4	040	15
Pine Creek		7S	48E	9	01	09	002	0	0	000	300
Hunsaker Creek		7S	48E	9	01	09	002	0	0	020	25
Hunsacker Creek		7S	48E	9	01	09	002	0	0	020	
Benham Creek	99	7S	48E	19	01	09	002	0	0	040	
McCarty Creek		7S	48E	19	01	09	002	0	0	060	20
Sheep Creek	99	7S	48E	30	01	09	002	0	0	080	
McLain Gulch		7S	47E	35	01	09	002	0	1	000	40
McLain Creek	66	7S	47E	35	01	09	002	0	1	000	
Holt Creek	99	7S	47E	25	01	09	002	0	1	020	
Mitchell Creek		7S	47E	35	01	09	002	0	0	100	10
D Creek		7S	47E	35	01	09	002	9	0	120	10
North Pine Creek		7S	47E	34	01	09	002	1	0	000	150
Little Elk Creek		7S	47E	16	01	09	002	1	0	020	60
Elk Creek	66	7S	47E	16	01	09	002	1	0	020	
Plummer Gulch	99	7S	47E	37	01	09	002	1	0	040	
Fox Creek		7S	47E	10	01	09	002	1	0	060	20
Fall Creek		7S	47E	10	01	09	002	1	1	000	40
Jim Fiske Creek		6S	45E	34	01	09	002	1	1	020	26
Big Elk Creek		6S	47E	25	01	09	002	1	2	000	80
Lake Fork		6S	47E	23	01	09	002	1	2	020	70
Lake Creek	66	6S	47E		1	09	002	1	2	020	

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Corral Creek		6S	47E	20	01	09	002	1	2	022	13
Pole Creek		6S	47E		1	09	002	1	2	040	30
Fish Creek	99	6S	47E	30	01	09	002	1	2	026	
Sheep Creek		6S	47E		1	09	002	1	2	040	15
Aspen Creek		6S	47E	8	01	09	002	1	2	060	30
Cabin Creek		6S	47E		1	09	002	1	0	080	30
Jolly Creek		6S	47E		1	09	002	1	0	080	30
Trap Creek		6S	47E	13	01	09	002	1	0	100	10
Track Creek	66	6S	47E	13	01	09	002	1	0	100	
Steep Creek		6S	47E		1	09	002	1	0	230	10
Line Creek		6S	47E		2	09	002	1	0	140	17
N. Pine Creek E. Fork	66	6S	48E	6	01	09	002	1	0	160	30
Duck Creek		6S	47E		1	09	002	1	4	000	90
Deer Creek		6S	47E		1	09	002	1	4	020	20
Dutchman Creek		6S	47E		1	09	002	1	4	040	23
North Creek		6S	47E	3	01	09	002	1	4	060	10
Grave Creek		6S	47E		1	09	002	1	4	080	20
Fish Creek		7S	47E	34	01	09	002	0	0	140	150
Fourmile Creek		8S	47E	9	01	09	002	0	0	160	40
Long Branch		8S	47E	7	01	09	002	0	0	180	50
Deer Gulch		8S	47E	18	01	09	002	0	0	200	90
Deer Creek	66	8S	47E	19	01	09	002	0	0	200	
Dry Creek		8S	46E	13	01	09	002	0	2	000	80
Applegate Creek	66	8S	46E	13	01	09	002	0	2	000	
Dry Creek W. Fork		8S	46E	2	01	09	002	0	2	020	40

Name		Township	Range	Sec.	County	W/S	B	MC	F		Length to tenths of mile
East Pine Creek		8S	46E	13	01	09	002	2	0	000	120
Clear Creek		8S	46E	14	01	09	002	2	1	000	140
Spring Branch		8S	46E	14	01	09	002	2	1	020	20
Meadow Creek		6S	45E	35	01	09	002	2	1	040	
Trail Creek		7S	46E	6	01	09	002	2	1	060	40
Clear Creek W. Fork		6S	45E	12	01	09	002	2	0	080	20
Beecher Creek		7S	46E	16	01	09	002	2	0	020	20
Beconer Creek	66	7S	46E	16	01	09	002	2	0	020	
Okanagon Creek		7S	46E	3	01	09	002	2	0	040	25
Trinity Creek		7S	46E	3	01	09	002	2	2	000	40
Aspirin Creek	99	6S	46E	13	01	09	002	2	2	020	
McMullen Slough		8S	46E	22	01	09	002	0	3	000	15
Sag Creek		6S	46E	21	01	09	002	0	3	020	50
Road Gulch		8S	46E	21	01	09	002	0	3	040	20
McGinnis Creek		8S	46E	21	01	09	002	0	3	060	50
Lamott Slough	99	8S	46E	8	01	09	002	0	3	080	
Lee Creek		7S	45E	35	01	09	002	0	0	220	20
Holbrook Creek		7S	45E	25	01	09	002	0	0	240	40
Carson Creek		7S	45E	35	01	09	002	0	0	260	30
Dixie Creek		7S	45E	10	01	09	002	0	0	200	13
Fuller Creek		7S	48E	22	01	09	002	0	0	300	
Tunnel Creek		7S	45E	15	01	09	002	0	0	230	90
McKinnon Creek		7S	45E	15	01	09	002	0	0	340	
Turner Creek		7S	45E	10	01	09	002	0	0	360	30
Turner Gulch	66	7S	45E	10	01	09	002	0	0	360	

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Fall Creek	99	7S	45E	10	01	09	002	0	0	380	
Boulder Creek		7S	45E	10	01	09	002	0	0	400	40
Deep Creek		7S	45E	3	01	09	002	0	0	420	15
Lost Horse Creek		6S	45E	34	01	09	002	0	0	440	20
Panter Creek		6S	45E	34	01	09	002	0	0	460	15
Panther Creek	66	6S	45E	34	01	09	002	0	0	460	
Elk Creek		6S	45E	34	01	09	002	0	0	480	10
Pine Canyon		6S	45E	27	01	09	003	0	4	000	50
Simmons Creek		6S	45E	22	01	09	002	0	4	020	15
Pine Creek W. Fork		6S	45E	16	01	09	002	0	5	000	20
Pine Creek M. Fork		6S	45E	16	01	09	002	0	5	020	20
Norway Creek		6S	45E	16	01	09	002	0	5	022	23
Powder River Sec 1		9S	46E	36	01	09	003	0	0	000	680
Little Timber Canyon		9S	46E	22	01	09	003	0	0	020	20
Timber Canyon		9S	46E	22	01	09	003	0	0	040	13
Foster Gulch		9S	46E	21	01	09	003	0	0	060	65
Immigrant Gulch		9S	46E	30	01	09	003	0	0	080	100
Emigrant Gulch	66	9S	46E	30	01	09	003	0	0	080	
Emigrant Creek	66	9S	46E	30	01	09	003	0	0	080	
Squaw Gulch		9S	45E	2	01	09	003	0	0	052	40
Long Hollow		9S	46E	31	01	09	003	0	0	100	70
Daly Creek		9S	45E	25	01	09	003	0	1	000	60
Daily Creek	66	9S	45E	25	01	09	003	0	1	000	
Juniper Creek		10S	46E	1	01	09	003	0	1	000	
Daly Creek N. Fork		10S	45E	25	01	09	003	0	1	020	80

Name		Township	Range	Sec.	County	W/S	B	MC	F		Length to tenths of mile
North Daly Creek	66	10S	45E	26	01	09	003	0	1	020	
Chalk Creek		9S	45E	23	01	09	003	0	0	232	40
Squaw Creek		9S	45E	27	01	09	003	0	0	240	63
Dry Gulch		9S	45E	28	01	09	003	0	0	160	40
Dry Gulch E. Fork		9S	45E	28	01	09	003	0	0	162	
Waterbury Gulch		9S	45E	21	01	09	003	0	0	250	40
Lower Timber Canyon		9S	45E	29	01	09	003	0	0	200	50
Upper Timber Canyon		9S	45E	39?	01	09	003	0	0	220	70
Timber Canyon	66	9S	45E	30	01	09	003	0	0	220	
Guyer Gulch		9S	45E	19	01	09	003	0	0	240	
Cougar Creek		7S	43E	23	01	09	003	1	0	140	30
Goose Creek W. Fork		7S	43E	23	01	09	003	1	2	000	80
Larkspur Creek		7S	43E	14	01	09	003	1	3	030	20
Lost Gulch		7S	43E	10	01	09	003	1	2	040	
Ranger Gulch		7S	43E	10	01	09	003	1	2	060	
Ritter Creek		8S	42E	36	01	09	003	0	5	000	80
West Love Creek		8S	42E	25	01	09	003	0	5	020	
East Love Creek		9S	42E	25	01	09	003	0	5	040	
Balm Creek		8S	42E	25	01	09	003	0	6	000	110
Slide Creek		7S	43E	32	01	09	003	0	6	020	20
Dry Creek	99	6S	43E	31	01	09	003	0	6	040	
Bull Doser Creek		8S	42E	26	01	09	003	0	0	560	45
Clover Creek		8S	42E	26	01	09	003	0	7	000	100
Chicken Creek		8S	42E	2	01	09	003	0	7	020	30
East Clover Creek		7S	43E	30	01	09	003	0	7	040	

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Waterspout Creek		8S	42E	22	01	09	003	0	0	580	
Ruckles Creek		8S	42E	16	01	09	003	0	0	080	120
Second Creek		9S	42E	7	01	09	003	0	0	080	40
Boulder Creek	99	9S	42E	18	01	09	003	0	8	040	
Dry Creek	99	9S	42E	18	01	09	003	0	8	060	
Stephens Gulch	99	9S	42E	18	01	09	003	0	8	080	
First Creek		9S	41E	13	01	09	003	0	8	100	60
Quartz Creek		9S	41E	14	01	09	003	0	8	120	50
Ruckles Creek N. Fork		9S	41E	9	01	09	003	0	8	140	20
Tucker Creek		8S	42E	17	01	09	003	0	0	600	
Houghton Creek		8S	42E	7	01	09	003	0	0	620	60
Table Creek		7S	42E	31	01	09	003	0	0	622	30
Pleasant Valley Creek		8S	41E	12	01	09	003	0	0	640	40
Salt Creek		8S	41E	2	01	09	003	0	0	660	57
Big Creek		7S	41E	20	01	09	003	2	0	000	160
Beagle Creek		7S	41E	11	01	09	003	2	1	000	100
Conundrum Creek		6S	42E	22	01	09	003	2	0	100	30
Velvet Creek		6S	42E	22	01	09	003	2	0	120	32
Magpie Creek		7S	40E	13	01	09	003	0	0	680	35
Goodwin Gulch	99	9S	45E	7	01	09	003	0	0	260	
Hyall Gulch		9S	45E	18	01	09	003	0	0	230	20
Long Gulch		9S	44E	13	01	09	003	0	0	300	40
Hyatts Gulch		9S	44E	13	01	09	003	0	0	320	
Canyon Creek		9S	44E	11	01	09	003	0	3	000	60
Canyon Creek S. Fork		9S	44E	34	01	09	003	0	2	020	10

Name		Township	Range	Sec.	County	W/S	B	MC	F		Length to tenths of mile
Maiden Gulch		9S	44E	10	01	09	003	0	3	000	80
Blue Gulch	99	8S	44E	35	01	09	003	0	3	000	
Thorn Gulch		8S	44E	27	01	09	003	0	3	040	
Hole-in-the-Wall Creek		9S	44E	3	01	09	003	0	0	340	10
Murray Gulch		9S	44E	4	01	09	003	0	0	360	30
Lost Creek		9S	44E	10	01	09	003	0	0	380	20
Pittsburgh Gulch		9S	44E	5	01	09	003	0	0	400	40
Table Rock Creek		9S	44E	6	01	09	003	0	0	420	
Fivemile Creek		9S	44E	6	01	09	003	0	0	440	50
Spring Branch	99	9S	44E	17	01	09	003	0	0	442	
Crystal Palace Gulch		9S	44E	6	01	09	003	0	4	000	37
Corral Gulch		8S	44E	31	01	09	003	0	4	020	30
Crenshaw Gulch	99	9S	43E	12	01	09	003	0	0	440	
Bacher Creek		9S	43E	34	01	09	003	0	0	480	32
Backer Creek	66	8S	43E	35	01	09	003	0	0	480	
Bocker Creek	99	8S	43E	26	01	09	003	0	0	482	
Spring Gulch		8S	43E	34	01	09	003	0	0	500	40
Spring Gulch E. Fork		8S	43E	11	01	09	003	0	0	502	10
Love Creek		8S	43E	34	01	09	003	0	0	520	50
Love Creek E. Fork		9S	43E	9	01	09	003	0	0	422	60
Miller Creek		9S	43E	17	01	09	003	0	0	540	20
Goose Creek		8S	43E	32	01	09	003	1	0	000	160
Sheep Creek		8S	43E	4	01	09	003	1	0	020	40
Sawmill Creek		8S	43E	3	01	09	003	1	0	040	50
Sawmill Gulch	66	8S	43E	3	01	09	003	1	0	040	

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Sucker Creek		7S	43E	35	01	09	003	1	0	060	15
Forshey Creek		7S	43E	26	01	09	003	1	0	000	20
Ledge Creek		7S	43E	23	01	09	003	1	0	100	25
Red Gulch		7S	43E	23	01	09	003	1	1	000	30
Rattlesnake Creek	99	8S	44E	7	01	09	003	1	1	020	
Dark Canyon		8S	43E	23	01	09	003	1	0	120	35
Powder River Sec. 2		6S	39E	14	01	09	004	0	0	000	510
North Powder River		6S	39E	14	01	09	004	1	0	000	240
Middle Powder River	66	6S	39E	14	01	09	004	1	0	000	
Anthony Fork		6S	38E	28	01	09	004	1	1	000	110
Anthony Creek	66	6S	38E	28	01	09	004	1	1	000	
Baker Creek		6S	38E	18	01	09	004	1	1	040	20
Roger Creek		6S	38E	17	01	09	004	1	1	060	20
Indian Creek		6S	37E	26	1	09	004	1	1	120	50
Wolf Creek		6S	38E	33	01	09	004	1	0	020	30
Gorman Gulch		7S	38E	5	01	09	004	1	0	040	30
Gotham Gulch	66	7S	38E	5	01	09	004	1	0	040	
Antone Creek		7S	38E	5	01	09	004	1	2	000	70
Little Antone Creek		7S	38E	6	01	09	004	1	2	020	32
Dutch Flat Creek		7S	38E	8	01	09	004	1	3	000	100
Flat Creek	66	7S	38E	8	01	09	004	1	3	000	
Lawrence Creek		7S	37E	13	01	09	004	1	3	020	10
Clear Creek	99	7S	37E	31	01	09	004	1	0	060	
Hot Creek		6S	39E	25	01	09	004	0	0	020	100
Warmsprings Creek		7S	39E	7	01	09	004	0	0	022	20

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Dry Gulch		7S	40E	7	01	09	004	0	0	040	35
Farley Gulch	99	7S	40E	7	01	09	004	0	0	060	
Muddy Creek		7S	39E	21	01	09	004	0	1	000	100
Little Mud Creek		7S	39E	20	01	09	004	0	1	020	70
Little Muddy Creek	66	7S	39E	20	01	09	004	0	1	020	
Rock Creek		7S	39E	28	01	09	004	0	2	000	160
Sand Creek		7S	38E	36	01	09	004	0	2	020	40
Killamacue Creek		8S	38E	7	01	09	004	0	2	040	40
Kilmerque Creek	66	8S	38E	7	01	09	004	0	2	040	
Rock Creek E. Fork		8S	37E	30	01	09	004	0	2	060	10
Rock Creek S. Fork		8S	37E	24	01	09	004	0	2	060	25
Dry Creek		7S	39E	33	01	09	004	0	0	060	
Willow Creek		8S	39E	3	01	09	004	0	3	000	110
Hunt Creek	99	8S	38E	14	01	09	004	0	3	020	
Marble Creek		8S	38E	11	01	09	004	0	3	040	15
Clear Creek	99	8S	38E	3	01	09	004	0	3	060	
Williams Creek		8S	39E	3	01	09	004	0	0	100	30
Baldock Slough		8S	40E		1	09	004	0	0	130	120
Baldrock Slough	66	8S	40E		1	09	004	0	0	120	
Favorite Slough	99	8S	39E	5	01	09	004	0	0	140	
Big Slough	99	8S	39E	25	01	09	004	0	0	160	
Flagstaff Gulch		8S	41E	31	01	09	004	0	0	130	20
Old Settler's Slough		9S	40E	20	01	09	004	0	0	200	
Pine Creek		8S	39E	11	01	09	004	2	0	000	100
Williams Gulch		8S	38E	23	01	09	004	2	0	020	20

Name	Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Salmon Creek	8S	39E	36	01	09	004	2	1	000	100
Washington Gulch	8S	39E	35	01	09	004	2	1	020	80
Dutch Gulch	9S	39E	11	01	09	004	2	1	040	30
Hibbard Gulch	9S	39E	3	01	09	004	2	1	040	40
Hubbard Gulch	9S	39E	3	01	09	004	2	1	040	
Rouen Gulch	9S	39E	4	01	09	004	2	1	042	30
Goodrich Creek	8S	39E	27	01	09	004	2	2	000	85
Marble Creek	8S	39E	6	01	09	004	2	2	020	50
Mill Creek	9S	39E	6	01	09	004	2	2	022	26
Spring Creek	8S	39E	29	01	09	004	2	3	000	30
Geese Creek	8S	40E	26	01	09	004	2	3	020	10
Gee Creek	8S	40E	26	01	09	004	2	3	020	
Pine Creek S. Prong	8S	38E	?	01	09	004	2	0	040	10
Sutton Creek	9S	40E	32	01	09	004	0	4	000	130
Sultan Creek	9S	40E	21	01	09	004	0	4	000	
Sutton Creek W. Fork	10S	40E	12	01	09	004	0	4	020	110
Quartz Creek	10S	41E	8	01	09	004	0	4	040	35
Sutton Creek E. Fork	10S	41E	17	01	09	004	0	4	040	80
Lodge Creek	10S	41E	25	01	09	004	0	4	062	
Ebell Creek	11S	41E		1	09	004	0	4	064	
Sring Grove Gulch	9S	39E	13	01	09	004	0	0	220	
Lawrence Creek	9S	40E	19	01	09	004	0	0	240	
Griffin Creek	9S	40E	32	01	09	004	0	0	260	70
Elk Creek	10S	40E	5	01	09	004	0	5	000	115
Wilson Creek	10S	39E	4	01	09	004	0	5	020	20

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Five Bit Gulch		10S	39E	4	01	09	004	0	5	040	7
Ragged Gulch		9S	39E	32	01	09	004	0	5	060	13
Blue Bird Gulch		9S	39E	33	01	09	004	0	5	080	
Timber Canyon		10S	39E	14	01	09	004	0	0	200	30
Timber Gulch	66	10S	39E	12	01	09	004	0	0	250	
Spring Creek		10S	40E	4	01	09	004	0	0	300	
Schaffner Creek		10S	40E	4	01	09	004	0	0	320	
Juniper Gulch		10S	39E	13	01	09	004	0	0	340	23
Beaver Creek		10S	40E	17	01	09	004	0	0	360	90
Blue Canyon		10S	40E	19	01	09	004	0	6	000	80
Willow Creek		10S	39E	15	01	09	004	0	6	020	25
French Gulch		10S	39E	15	01	09	004	0	6	040	20
Blue Canyon Creek	99	10S	39E	8	01	09	004	0	6	060	
Stices Gulch		10S	39E	36	01	09	004	0	7	000	80
Belgian Gulch		11S	40E	6	01	09	004	0	7	020	
Trail Creek		11S	40E	6	01	09	004	0	7	040	40
Rancheria Creek		10S	39E	36	01	09	004	0	0	380	30
Sheep Creek	66	10S	39E	36	01	09	004	0	0	380	
Denny Creek		10S	39E	35	01	09	004	0	8	000	40
Harvey Gulch		11S	39E	14	01	09	004	0	8	020	23
Hervey Gulch	66	11S	39E	14	01	09	004	0	0	020	
Buffalo Gulch		11S	39E	15	01	09	004	0	0	040	30
Lake Creek		10S	39E	34	01	09	004	0	0	400	57
Spring Gulch		11S	39E	9	01	09	004	0	0	402	30
Poker Creek		10S	39E	34	01	09	004	0	0	420	60

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
California Gulch		10S	39E	29	01	09	004	0	0	440	40
Union Creek		10S	38E	23	01	09	004	0	0	460	50
Bridge Creek		10S	38E	22	01	09	004	0	0	480	52
Deer Creek		10S	38E	11	01	09	004	3	0	000	120
Smith Creek		10S	38E	16	01	09	004	3	1	000	60
Birch Creek		10S	38E	9	01	09	004	3	1	020	50
Miner's Creek		10S	38E	11	01	09	004	3	2	000	40
Miner's Creek E. Fork		10S	38E	16	01	09	004	3	2	020	30
Stovepipe Gulch		10S	38E	3	01	09	004	3	0	020	40
Alder Creek		10S	38E	5	01	09	004	3	0	040	40
Baboon Creek		9S	38E	30	01	09	004	3	0	060	30
Lake Creek		9S	38E	30	01	09	004	3	0	080	50
Crevice Creek		9S	37E	25	01	09	004	3	0	100	30
Sheep Creek		9S	37E	83?	01	09	004	3	0	120	40
Wahoo Gulch		9S	37E	24	01	09	004	3	0	140	15
Dean Creek		10S	38E	21	01	09	004	0	0	500	40
Clear Creek		10S	38E	19	01	09	004	0	0	520	40
Stoddard Creek	66	10S	38E	20	01	09	004	0	0	520	
Lockhart Creek		10S	37E	13	01	09	004	0	9	000	20
Harris Creek		10S	37E	13	01	09	004	9	9	020	20
Gulch No. Three		10S	37E	14	01	09	004	0	0	540	
Huckleberry Creek		10S	37E	11	01	09	004	0	0	560	20
Bear Gulch		10S	37E	11	01	09	004	0	0	550	50
Cracker Creek		9S	37E	22	01	09	004	4	0	000	70
Spaulding Gulch		9S	37E	20	00	09	004	4	0	020	30

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Slim Creek		9S	37E		1	09	004	4	0	040	13
Pole Creek		9S	37E		1	09	004	4	0	060	30
Wind Creek		9S	37E	8	01	09	004	4	0	080	40
Windy Creek	66	9S	37E	6	01	09	004	4	0	060	
Borden Gulch		9S	37E	5	01	09	004	4	0	100	10
Silver Creek		9S	37E	5	01	09	004	4	0	000	50
Erin Creek		8S	36E	26	01	09	004	4	1	020	23
Silver Creek E. Fork		8S	36E	23	01	09	004	4	1	040	10
Silver Creek M. Fork		8S	36E	23	01	09	004	4	1	060	20
Fruit Creek		9S	37E		1	09	004	4	0	120	30
Little Cracker Creek		8S	37E	32	01	09	004	4	2	000	40
Gardine Gulch		8S	37E		1	09	004	4	2	020	30
Morse Creek	99	8S	37E		1	09	004	4	2	040	
McCully Fork		9S	37E		01	09	004	5	0	000	60
Grays Gulch		9S	36E	24	01	09	004	5	1	000	85
Buck Gulch		9S	36E	23	01	09	004	5	1	020	20
Little Buck Creek		9S	36E	23	01	09	004	5	1	022	20
Farrel Gulch		9S	36E	13	01	09	004	5	0	020	20
O'Farrel Gulch	66	9S	36E	13	01	09	004	5	0	020	
Umqua Creek		9S	36E	11	01	09	004	5	0	040	20
Kane Creek		9S	36E	11	01	09	004	5	0	060	40
Wing Creek		9S	37E		1	09	004	5	0	080	
Eagle Creek		9S	45E	26	01	09	000	0	0	000	350
Kirby Creek		9S	45E	26	01	09	005	0	0	020	
Little Eagle Creek	66	9S	45E	26	01	09	005	0	0	020	35

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Summit Creek		9S	46E	10	01	09	005	0	1	000	126
Corral Gulch		8S	45E	15	01	09	005	0	1	020	10
Spring Creek	99	9S	45E	2	01	09	005	0	1	040	
Barnard Creek		9S	45E	2	01	09	005	0	0	140	30
Brainard Creek	66	9S	45E	3	01	09	005	0	0	040	
Squaw Creek		9S	45E		1	09	005	0	0	060	10
Skull Creek		8S	45E	12	01	09	005	0	0	080	40
Fawn Gulch	99	8S	44E	15	01	09	005	0	0	100	
Town Gulch		8S	45E	7	01	09	005	0	2	000	50
Skinner Gulch		8S	44E	16	01	09	005	0	2	020	
Trouble Creek		8S	45E	8	01	09	005	0	0	120	26
Six Dollar Gulch		8S	45E	6	01	09	005	0	0	120	14
Little Eagle Creek		8S	44E	12	01	09	005	1	0	000	100
Little Fork	66	8S	44E	12	01	09	005	1	0	000	
Spring Creek		7S	44E	25	01	09	005	1	1	000	20
Conundrum Creek		7S	44E	13	01	09	005	1	1	020	30
Twin Bridge Creek		7S	45E	18	01	09	005	1	1	040	23
Ethel Creek		7S	45E	33	01	09	005	1	0	020	20
Snow Creek		7S	44E	25	01	09	005	1	0	040	10
Holcomb Creek		8S	44E	1	01	09	005	0	0	160	50
Shanghai Creek		8S	44E	2	01	09	005	0	0	180	20
Puzzle Creek		7S	44E	34	01	09	005	0	0	200	27
Dembpsey Creek		7S	44E	34	01	09	005	0	0	220	25
Basin Creek		7S	44E	27	01	09	005	0	0	240	30
Empire Gulch		7S	44E	21	01	09	005	0	0	260	15

Name		Township	Range	Sec.	County	W/S	B	MC	F		Length to tenths of mile
Paddy Creek		7S	44E	21	01	09	005	0	3	000	23
Gold Creek		7S	44E	10	01	09	005	0	3	020	22
Packsaddle Creek		7S	44E	10	01	09	005	0	3	040	14
Long Creek		7S	44E	11	01	09	005	0	3	060	13
Torchlight Gulch		7S	44E	16	01	09	005	0	0	230	20
Blue Canyon		7S	44E	8	01	09	005	0	0	300	20
Eagle Creek E. Fork		7S	44E	6	01	09	005	2	0	000	140
Sullivan Creek		6S	44E	29	01	09	005	2	0	020	24
Twin Canyon		6S	44E	29	01	09	005	2	0	040	30
Pappoose Creek		6S	44E	21	01	09	005	2	0	060	17
Bold King Creek		6S	44E	21	01	09	005	2	0	080	30
King Creek	66	6S	44E	21	01	09	005	2	0	080	
Settle Creek		6S	44E	16	01	09	005	2	1	000	40
Park Creek		6S	44E	23	01	09	005	2	1	020	20
Little Kettle Creek		6S	44E	9	01	09	005	2	0	100	30
Limex Creek		6S	44E	16	01	09	005	2	0	120	45
Hudson Creek		6S	44E	9	01	09	005	2	0	140	26
The Box		6S	44E	3	01	09	005	2	0	160	10
Bradley Creek		7S	44E	6	01	09	005	0	0	120	20
O'Brien Creek		7S	43E	1	01	09	005	0	0	340	32
Bennet Creek		6S	43E	36	01	09	005	0	0	360	30
Dixie Creek		6S	43E	35	01	09	005	0	0	380	43
Skookum Creek		6S	43E	34	01	09	005	0	0	400	13
Glendenning Creek		6S	43E	26	01	09	005	0	0	430	40
Glendenning Creek	66	6S	43E	28	01	09	005	0	0	480	

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
West Eagle Creek		6S	43E	38?	01	09	005	0	0	004	90
Grove Creek		6S	43E	17	01	09	005	0	0	020	20
Cow Creek		6S	43E	17	01	09	005	0	0	040	10
Grove Creek		6S	43E	14	01	09	005	3	0	060	20
Jim Creek		6S	43E	8	01	09	005	0	3	000	32
Trout Creek		6S	43E	5	01	09	005	3	0	100	60
Fake Creek		5S	43E		31	09	005	3	0	120	20
Eagle Creek E. Fork of W. Fork		5S	43E		31	09	005	3	0	140	34
Echo Lake Creek		5S	43E		31	09	005	3	0	160	120
Two Color Creek		6S	43E	15	01	09	005	0	0	440	40
Little Boulder Creek		6S	43E	10	01	19	005	0	0	460	23
Big Boulder Creek		6S	43E	2	01	09	005	0	0	480	30
Boulder Creek	66	6S	43E	2	01	09	005	0	0	460	
Burnt River		14S	45E	9	01	09	006	0	0	000	730
Durbin Creek		14S	45E	12	01	09	000	0	1	000	70
Trail Gulch		14S	44E	16	01	09	006	0	1	020	20
Trail Creek	66	14S	43E	16	01	09	006	0	1	020	
Cavana Creek	66	14S	44E	2	01	09	006	0	0	020	
Cayana Creek		14S	44E	2	01	09	006	0	0	020	30
Bridge Creek		13S	44E	34	01	09	005	0	0	040	40
Marble Creek		13S	44E	27	01	09	006	0	0	060	20
Tett Creek		13S	44E	22	01	09	006	0	0	060	40
Jet Creek	66	13S	44E	22	01	09	006	0	0	080	
Bragg Creek		13S	44E	11	01	09	006	0	0	100	30

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Dorren Creek		13S	44E	15	01	09	006	0	0	120	20
Dixie Creek		13S	44E	9	01	09	006	1	0	000	140
Clear Creek		13S	44E	8	01	09	006	1	0	020	20
Beaver Creek		13S	43E	15	01	09	006	1	0	040	37
Dixie Creek S. Fork		13S	43E	9	01	09	006	1	1	000	90
Rattlesnake Canyon		13S	43E	17	01	09	006	1	1	020	20
Humphrey Creek		13S	42E	14	01	09	006	1	1	040	18
Wagner Gulch		13S	42E	23	01	09	006	1	1	060	15
Deer Creek		13S	43E	18	01	09	006	1	1	080	10
Dixie Creek W. Fork		13S	43E	9	01	09	006	1	2	000	110
Weber Gulch		13S	43E	7	01	09	006	1	2	020	
Kitchen Gulch		13S	43E	5	01	09	006	1	2	040	25
Kitchen Creek	66	13S	43E	5	01	09	006	1	2	040	
Chimney Creek		13S	44E	4	01	09	006	0	0	140	27
Jordan Creek		12S	44E	33	01	09	006	0	0	160	60
Hogback Creek		12S	44E	10	01	09	006	0	0	180	23
Arastra Gulch	99	12S	44E		1	09	006	0	0	200	
Chicken Creek		12S	44E	30	01	09	006	0	0	220	70
Sisley Creek		12S	44E	17	01	09	006	0	0	222	70
Sister Creek		11S	44E	34	01	09	006	0	0	224	15
McGilvery Creek		12S	44E	19	01	09	006	0	0	240	60
Spout Gulch	66	12S	44E	19	01	09	006	0	0	240	
Shirttail Creek		12S	43E	11	01	09	006	0	0	260	60
French Creek		12S	43E	22	01	09	006	0	0	262	20
Manning Creek		12S	43E	3	01	09	006	1	0	000	120

Name		Township	Range	Sec.	County	W/S	B	MC	F		Length to tenths of mile
Mann Creek	66	12S	43E	3	01	09	006	2	0	000	
Swayze Creek		11S	43E	35	01	09	006	2	1	000	10
Swayze Creek N. Fork		11S	43E	36	01	09	006	2	1	020	35
Swayze Creek E. Fork		11S	44E	22	01	09	006	1	1	040	
Gold Creek		11S	43E	24	01	09	006	2	0	020	55
Gold Fork Creek	66	11S	43E	24	01	09	006	2	0	020	
Timber Gulch		11S	44E	8	01	09	006	3	0	040	40
Wobine Creek		11S	44E	10	01	09	006	0	0	060	50
Wood Creek		11S	44E	11	01	09	006	2	0	060	20
Durkee Creek		11S	43E	29	01	09	006	0	2	000	70
Cattrill Creek		10S	43E	35	01	09	006	0	2	020	20
Schlinkuan Creek		10S	43E	35	01	09	006	0	2	040	45
Pritchard Creek		11S	43E	20	01	09	006	3	0	000	120
Alder Creek		11S	43E	17	01	09	006	3	1	000	160
Unity Creek		11S	42E	12	01	09	006	3	1	020	
Holman Gulch		11S	42E	12	01	09	006	3	1	040	60
Hill Creek		10S	42E	34	01	09	006	3	1	060	40
Kitchen Creek		10S	42E	33	01	09	006	3	1	080	43
West Pierce Creek		10S	41E		1	09	006	3	1	100	
Dog Town Gulch	99	11S	41E	3	01	09	006	3	1	120	20
Lawrence Creek		10S	43E	31	01	09	006	3	2	000	110
Hickerson Creek		10S	43E	30	01	09	006	3	2	020	60
Ayre Creek		10S	43E	29	01	09	006	3	2	040	20
Black Creek		10S	43E	16	01	09	006	3	2	060	30
Hester Creek		10S	43E	1	01	09	006	3	2	080	20

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Ramsey Creek		10S	43E	1	01	09	006	3	2	100	20
Powell Canyon		11S	42E	25	01	09	006	0	0	280	83
Powell Creek	66	11S	42E	25	01	09	006	0	0	280	
True Blue Gulch		11S	42E	36	01	09	006	0	0	300	20
Hooker Gulch		11S	42E	32	01	09	006	0	0	320	40
Deer Creek		11S	42E	31	01	09	006	0	0	340	50
Blue Spring Gulch		11S	41E	26	01	09	004	0	0	342	
Sinker Creek		11S	42E	34	01	09	006	0	0	360	40
Cave Creek		12S	42E	6	01	09	006	0	0	380	40
Cove Creek	66	12S	42E	6	01	09	006	0	0	360	
Miller Gulch		12S	41E	1	01	09	006	0	0	400	35
Campbell Gulch	77	12S	41E	1	01	09	006	0	0	400	
French Gulch		12S	41E	3	01	09	006	0	0	420	
Dark Canyon Creek		12S	41E	9	01	09	006	0	0	440	40
Clarks Creek		12S	41E	20	01	09	006	0	1	000	40
Cottonwood Creek		12S	41E	26	01	09	006	0	3	020	40
Log Town Creek		13S	41E	2	01	09	006	0	3	040	
Auburn Creek		12S	41E	30	01	09	006	0	0	460	90
Spring Gulch		13S	40E	1	01	09	006	0	0	400	10
Pole Gulch		13S	40E	2	01	09	006	0	0	500	20
Evans Gulch	99	13S	40E	2	01	09	006	0	0	420	
Elliott Gulch	99	13S	40E	2	01	09	006	0	0	540	
Marble Creek	99	13S	41E	20	01	09	006	0	0	560	
Mill Creek		12S	40E	39?	01	09	006	0	0	580	60
Cornet Creek		12S	40E	30	01	09	006	0	0	600	60

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Cornel Creek	66	12S	40E	30	01	09	006	0	0	600	
Koontz Creek		12S	40E	29	01	09	006	0	0	620	20
Johnson Creek	99	14S	40E	9	01	09	006	0	0	640	
Weiss Creek	99	14S	40E	9	01	09	006	0	0	660	
Steep Creek		12S	39E	26	01	09	006	0	0	680	20
Indian Creek		12S	39E	26	01	09	006	0	0	700	40
Pine Creek		12S	39E	26	01	09	006	0	0	720	70
Rail Gulch		12S	39E	26	01	09	006	0	0	740	23
Reil Creek	66	12S	39E	27	01	09	006	0	0	740	
Reeds Creek		12S	39E	28	01	09	006	0	0	760	
Brannan Gulch		12S	39E	20	01	09	006	0	0	760	30
Independence Creek		12S	39E	20	01	09	006	0	0	800	60
Browns Gulch		12S	39E	19	01	09	006	0	0	820	50
Spring Creek	66	12S	39E	19	01	09	006	0	0	320	
Flint Creek		12S	39E	38?	01	09	006	0	0	840	20
Big Creek		12S	38E	25	01	09	006	0	4	000	120
Cow Creek		12S	39E	18	01	09	006	0	4	020	40
Water Creek		12S	38E	25	01	09	006	0	4	040	
Jordan Creek		12S	38E	12	01	09	006	0	4	060	42
Rattlesnake Gulch		12S	38E	2	01	09	006	0	4	080	37
Whipple Creek		11S	38E	34	01	09	006	0	4	100	24
Rock Creek		12S	38E	34	01	09	006	0	0	860	60
East Rock Creek		13S	38E	12	01	09	006	0	0	862	
Mud Creek		13S	38E	3	01	09	006	0	0	880	50
Water Gulch		12S	38E	28	01	09	006	0	0	900	40

Name		Township	Range	Sec.	County	W/S	B	MC	F		Length to tenths of mile
Camp Creek		12S	38E	29	01	09	006	4	0	000	70
Happy Camp Creek		13S	38E	29	01	09	006	5	0	020	
East Camp Creek		13S	38E	18	01	09	006	4	1	000	140
Copper Creek		13S	38E	30	01	09	006	4	1	020	40
Cooper Creek	66	13S	38E	30	01	09	006	4	1	020	
Milk Creek		14S	38E	7	01	09	006	3	1	040	13
Lake Creek		14S	38E	18	01	09	006	4	1	060	
King Creek		14S	37E	26	01	09	006	4	1	080	50
West Camp Creek		13S	38E	18	01	09	006	4	2	000	98
Johnson Gulch		13S	37E	33	01	09	006	4	2	020	80
Long Creek		14S	37E	8	01	09	006	4	2	040	60
Whiskey Creek		14S	37E	3	01	09	006	4	2	060	42
Skull Gulch		14S	37E	9	01	09	006	4	2	080	30
West Camp Creek N. Fork		14S	37E	19	01	09	006	4	2	100	30
West Camp Creek S. Fork		14S	37E	19	01	09	006	4	2	120	30
Beaverdam Creek		12S	38E	30	01	09	006	0	0	920	65
Big Flat Draw		12S	37E	25	01	09	006	0	5	000	55
Cottonwood Creek		12S	37E	23	01	09	006	0	5	020	50
Head Meadow Creek		12S	37E	14	01	09	006	0	5	040	40
Meadow Creek		12S	37E	25	01	09	006	0	4	060	
Job Creek		12S	37E	21	01	09	006	0	6	000	90
Dry Gulch		13S	37E	4	01	09	006	0	6	020	50
Milk Creek	99	13S	37E	21	01	09	006	0	6	040	
Shirt Creek		13S	37E	32	01	09	006	0	6	060	15
Burnt River S. Fork		12S	37E	20	01	09	006	0	5	000	120

Name		Township	Range	Sec.	County	W/S	B	MC	F		Length to tenths of mile
Powell Gulch		13S	36E	1	01	09	006	5	0	020	40
Pole Creek		13S	36E	12	01	09	006	0	5	040	80
Sawmill Creek	66	13S	36E	12	01	09	006	5	0	040	
Sheep Creek		13S	36E	23	01	09	006	5	1	000	60
Steep Creek		13S	36E	22	01	09	006	5	1	020	30
Sheep Creek N. Fork	66	12S	36E	22	01	09	006	5	1	020	
Bull Run Creek		13S	36E	23	01	09	006	3	0	060	85
Amelia Creek		13S	36E	22	01	09	006	5	0	080	57
Barney Creek		13S	36E	28	01	09	006	4	0	100	53
Rail Gulch		13S	36E	32	01	09	006	4	0	120	40
Stevens Creek		13S	36E	28	01	09	006	4	0	140	40
Bear Creek		14S	36E	6	01	09	006	5	2	000	40
South Fork Creek		14S	36E	6	01	09	006	5	2	020	30
Lookout Creek S. Fork	66	14S	36E	7	01	09	006	5	2	020	
Sheep Creek		14S	36E	7	01	09	006	5	2	040	32
Lookout Creek	66	14S	36E	7	01	09	006	5	2	040	
Spring Creek		13S	36E	31	01	09	006	6	0	160	30
Elk Creek		13S	36E	30	01	09	006	5	0	160	60
Last Chance Creek		13S	36E	32	01	09	006	5	0	200	40
Thirsty Gulch		13S	35E	34	01	09	006	5	0	320	40
Whiskey Creek	99	14S	36E	7	01	09	006	6	0	340	
Camp Creek	99	14S	36E	7	01	09	006	5	0	360	
Burnt River M. Fork		12S	37E	36	01	09	006	0	1	060	90
Wess Gulch		12S	36E	22	01	09	006	0	7	020	20
Thompson Creek		12S	37E	19	01	09	006	0	0	940	36

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Thompson Gulch	66	12S	37E	19	01	09	006	0	0	940	
Burnt River N. Fork		12S	37E	20	01	09	006	6	0	000	240
Moran Gulch	99	12S	37E	16	01	09	006	6	0	020	
Burnt River W. Fork of N. Fork		12S	37E	17	01	09	006	6	1	000	50
Sherman Creek		12S	36E	3	01	09	006	6	1	020	23
North Sister Creek		12S	36E	3	01	09	006	6	1	040	20
Middle Sister Creek		12S	36E	3	01	09	006	6	1	060	20
South Sister Creek		12S	36E	4	01	09	006	6	1	060	40
Dooley Creek		12S	37E	5	01	09	006	6	0	040	40
China Creek		11S	37E	31	01	09	006	6	0	060	60
First Creek		11S	37E	30	01	09	006	6	0	080	30
Second Creek		11S	36E	25	01	09	006	6	0	100	40
Third Creek		11S	36E	24	01	09	006	6	0	120	17
Lick Creek		11S	36E	25	01	09	006	6	0	140	10
Sheep Creek		11S	36E	25	01	09	006	6	0	160	50
Petticoat Creek		11S	36E	23	01	09	006	6	0	180	27
Mosquito Creek		11S	36E	3	01	09	006	6	0	200	30
Spring Gulch		11S	36E	3	01	09	006	6	0	220	20
Three Cent Creek		10S	36E	32	01	09	006	6	0	240	75
Three Cent Gulch	66	10S	36E	34	01	09	006	6	0	240	
Trout Creek		10S	37E	31	01	09	006	6	0	242	50
Dry Creek		10S	36E	34	01	09	006	6	0	260	60
Mosquito Creek		10S	36E	15	01	09	006	6	0	262	20
Camp Creek		10S	36E	33	01	09	006	6	2	000	90

Name		Township	Range	Sec.	County	W/S	B	MC	F	Length to tenths of mile	
Gimlet Creek		10S	36E	28	01	09	006	6	2	020	60
Pinus Creek		10S	36E	17	01	09	006	6	2	040	20
Pine Creek	66	10S	36E	17	01	09	006	6	2	040	
Simpson Creek		9S	35E	36	01	09	006	6	2	060	
West Fall Creek		9S	35E	36	01	09	006	6	2	080	
Patrick Creek		10S	36E	29	01	09	006	6	0	280	20
China Creek		10S	36E	25	01	09	006	6	0	300	20
Geiser Creek		10S	36E	28	01	09	006	6	0	320	43
Bennett Creek	66	10S	38E	28	01	09	004	6	0	320	
Cub Creek		10S	35E	23	01	09	006	6	3	000	30
Bear Gulch	66	10S	35E	23	01	09	006	6	3	000	
Bear Gulch		10S	36E	14	01	09	006	6	3	020	10
McNamee Gulch		10S	34E	23	01	09	006	6	4	000	30
California Gulch		10S	35E	26	01	09	006	6	4	020	23
Snow Creek		10S	35E	22	01	09	006	6	0	340	20
Slab Creek		10S	35E	23	01	09	006	6	0	360	34
Kinkale Creek	66	10S	34E	23	01	09	006	6	0	360	
Greenhorn Creek		10S	34E	23	01	09	006	6	0	380	20

III. GOAL VI AIR, WATER and LAND RESOURCES QUALITY FINDINGS and POLICIES

A. Goal VI Air Resources Quality Findings

The county governing body finds that:

1. Based upon Oregon Air Quality Report, 1980, DEQ, page 1-5, which reports no "health standard" violations in the past 4 years and just one lesser "welfare standard" violation during the same period, air quality is generally good in the county. Direct sources of air contaminant discharges are monitored and controlled by DEQ. Indirect sources of air contaminants, such as airports and parking lots, would seem not to pose a problem or issue in the forseeable future. Neither open field burning or motor vehicle pollution is identified as a problem or issue.

2. Atmospheric noise pollution, except as it involves the adjacent location of incompatible uses, is not a serious issue or problem in the county. Those sites inventoried as sources of noise pollution are inventoried under Goal VII, Section I(G) of the Baker County Comprehensive Plan.

3. Thermal air pollution is not identified as an issue or problem in the county.

B. Goal VI Air Resources Quality Policies

The county governing body declares that Air resources quality shall be maintained, among other things, by:

1. Reasonable and effective administration of applicable state and federal laws and standards.

2. Encouraging the formulation and dissemination of best management practices for agricultural operations designed to maintain soil stability and protect air and water quality.

3. Encouraging the development and use of watersheds and of watershed reservoirs to reduce springtime flooding and erosion and to maintain stream flows in the low runoff periods.

4. Adopting zoning restrictions for noise polluting sites to reduce incompatible uses in the area and consideration during conditional use process of such techniques as buffering and restricted hours of operation to minimize noise incompatibility.

5. Conditioning all conditional use permits involving air, water, or land quality regulations so they are subject to DEQ permits, particularly in mining proposals.

6. Where DEQ approval is essential to a conditional use proposal copying DEQ Pendleton Staff with the application in advance of the public hearing to allow for their recommendations.

7. Cooperating with SWCD, Baker Valley Irrigation District, ODFW, SCS, and private landowners in reducing high water problems by opening up existing drainways and constructing new drains.

8. Seeking assistance and information from the State Water Resources Department or the local watermaster's office when specific and current information relative to water rights for surface and ground water or stream flow is pertinent to a land use decision. Maintained in the local Watermaster's office is a map showing river mile designations that correspond to references in the documents cited in the above Technical Information and Inventory Data for Land Use Planning in Baker County.

9. Fully cooperating with DEQ staff in providing them office space, telephone service, dispensing of applications and certain types of information and receiving complaints from county residents.

C. Goal VI Water Resources Quality Findings

The county governing body finds that:

1. Water pollution, in its several forms, is identified as a potentially increasing problem or issue.

2. Based upon the above inventory information, we find of particular concern:

   a. Nonpoint discharges into streams caused by forest and agricultural practices and stream bank erosion.
   b. Uncontrolled discharges into streams as a result of mining operations.
   c. Loss of dilution rations as a result of diminished stream flows following spring and early summer runoff.
   d. Loss of thermal protection for forest land streams.

D. Goal VI Water Resources Quality Policies

The county governing body declares that Water resources quality shall be maintained, among other things, by:

1. Reasonable and effective administration of applicable state and federal laws and standards.

2. Encouraging the formulation and dissemination of best management practices for agricultural operations designed to maintain soil stability and protect air and water quality.

3. Encouraging the development and use of watersheds and of watershed reservoirs to reduce springtime flooding and erosion and to maintain stream flows in the low runoff periods.

4. Adopting zoning restrictions for noise polluting sites to reduce incompatible uses in the area and consideration during conditional use process of such techniques as buffering and restricted hours of operation to minimize noise incompatibility.

5. Conditioning all conditional use permits involving air, water, or land quality regulations so they are subject to DEQ permits, particularly in mining proposals.

6. Where DEQ approval is essential to a conditional use proposal copying DEQ Pendleton Staff with the application in advance of the public hearing to allow for their recommendations.

7. Cooperating with SWCD, Baker Valley Irrigation District, ODFW, SCS, and private landowners in reducing high water problems by opening up existing drainways and constructing new drains.

8. Seeking assistance and information from the State Water Resources Department or the local watermaster's office when specific and current information relative to water rights for surface and ground water or stream flow is pertinent to a land use decision. Maintained in the local Watermaster's office is a map showing river mile designations that correspond to references in the documents cited in the above Technical Information and Inventory Data for Land Use Planning in Baker County.

9. Fully cooperating with DEQ staff in providing them office space, telephone service, dispensing of applications and certain types of information and receiving complaints from county residents.

F. Goal VI Land Resources Quality Findings

The county governing body finds that:

1. Based upon the above inventory information, we find of particular concern:

   a. Nonpoint discharges into streams caused by forest and agricultural practices and stream bank erosion.
   b. Uncontrolled discharges into streams as a result of mining operations.

c. Loss of dilution rations as a result of diminished stream flows following spring and early summer runoff.
d. Loss of thermal protection for forest land streams.

G. Goal VI Land Resources Quality Policies

The county governing body declares that Land resources quality shall be maintained, among other things, by:

1. Reasonable and effective administration of applicable state and federal laws and standards.

2. Encouraging the formulation and dissemination of best management practices for agricultural operations designed to maintain soil stability and protect air and water quality.

3. Encouraging the development and use of watersheds and of watershed reservoirs to reduce springtime flooding and erosion and to maintain stream flows in the low runoff periods.

4. Adopting zoning restrictions for noise polluting sites to reduce incompatible uses in the area and consideration during conditional use process of such techniques as buffering and restricted hours of operation to minimize noise incompatibility.

5. Conditioning all conditional use permits involving air, water, or land quality regulations so they are subject to DEQ permits, particularly in mining proposals.

6. Where DEQ approval is essential to a conditional use proposal copying DEQ Pendleton Staff with the application in advance of the public hearing to allow for their recommendations.

7. Cooperating with SWCD, Baker Valley Irrigation District, ODFW, SCS, and private landowners in reducing high water problems by opening up existing drainways and constructing new drains.

8. Seeking assistance and information from the State Water Resources Department or the local watermaster's office when specific and current information relative to water rights for surface and ground water or stream flow is pertinent to a land use decision. Maintained in the local Watermaster's office is a map showing river mile designations that correspond to references in the documents cited in the above Technical Information and Inventory Data for Land Use Planning in Baker County.

9. Fully cooperating with DEQ staff in providing them office space, telephone service,

dispensing of applications and certain types of information and receiving complaints from county residents.