

Broadaxe EA - Management History Report

In *Lands Council v. Powell*, the U.S. Court of Appeals for the 9th Circuit held that, under the circumstances presented in the case, proper cumulative impact analysis required some cataloguing of past projects and their effect on the current project area. Furthermore, such cataloguing should provide sufficient detail to allow for analysis of the differences between prior projects and proposed projects, which could provide the information necessary to consider alternatives that might have less impact on the environment. The Broadaxe EA and associated resource reports provide information of relevant past, present and reasonably foreseeable activities that occurred, are occurring, or are proposed to occur within each of the resource cumulative effects areas examined in this analysis (EA, page 18; Air Quality Specialist Report, page 5; Fire and Fuels Specialist Report, pages 6 and 8; Fisheries Specialist Report for the Broadaxe Project Area, pages 8-15, 19-22; Rare Plant Report, pages 2-4, 6-7; Noxious Weed Report, pages 2-3, 5; Soils Report, pages 4, 6-7; Proposal Coniferous Vegetation Report, page 3, 5-8, 16; Watershed Report, pages 5-19; Wildlife Report, page 3, 11-15, 19-21, 23-24, 28, 30, 33, 35, 38, 40; Project file documents F-28, F-29, F-30, NW-3, MH1-20 NW-4 W-4, SW-2, SW-9, SW-17, SW-21, SW-24, SW-27, SW-30, SW-32, SW-33, SW-36, V-4, V-7, V-8, W-8, W-10, W-20, W-21).

The Council on Environmental Quality (CEQ), whose responsibility it is to coordinate federal environmental efforts and work closely with agencies in the development of environmental policies and initiatives, provided guidance to federal agencies on the consideration of past actions in cumulative effects analysis. CEQ stated that “generally, agencies can conduct an adequate cumulative effects analysis by focusing on the current aggregate effects of past actions without delving into the historic details of individual past actions” (CEQ, 2005, p. 2). Cumulative impact is defined in CEQ’s NEPA regulations as the “impact on the environment that results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions...” (40 CFR 1508.7). CEQ interpreted this regulation as referring only to the cumulative impact of the direct and indirect effects of the proposed action and its alternatives when added to the aggregate effects of past, present, and reasonably foreseeable future actions (CEQ, 2005, p. 2).

During the scoping process and subsequent preparation of the EA, the Forest Service determined what information regarding past actions was useful and relevant to the analysis of cumulative effects. While CEQ found that cataloging past actions and specific information about the direct and indirect effects of a past project’s design and implementation could in some contexts be useful to predict the cumulative effects of the proposal, the regulations do not require the Forest Service to catalogue or exhaustively list and analyze all individual past actions (CEQ, 2005, p. 3).

The Broadaxe EA provides descriptions of known past activities and their effects. There are, however, marked differences between past and current land management practices and policies. The evolution that has occurred in land management practices is the result of science, ongoing monitoring actions, and changing public values.

On the Idaho Panhandle National Forests (IPNF), early to mid 20th century road construction was focused mainly through river valleys, riparian areas, floodplains, and adjacent hillsides. The roads efficiently provided access but decreased the land’s effectiveness as wildlife habitat and constricted stream channels, while providing a new avenue for erosion and discharge of sediment into streams. Roads on National Forest System lands were often an expansion of existing trails and paths so that they would accommodate newer equipment and current land uses. In some situations, roads were developed on abandoned railroad beds. In these cases, the location and design were predetermined from the previous use and era. As time progressed, roads were “designed” and located to achieve their primary purpose, which was to provide access and haul product at a minimal cost. In the decades following World War II (1950s –1970s), the road network was rapidly expanded to support the domestic need for lumber in housing construction.

Over the last twenty years both road design and location have evolved as necessary tools to not only provide efficient access; but also to protect watershed resources. Forest Service Best Management Practices (FSH 2509.22 Soil and Water Conservation Practices Handbook) currently incorporated into road construction/reconstruction activities on the IPNF include:

- Road surfacing (gravel, etc...) was incorporated to not only provide better travel conditions; but also to prevent and control erosion from the road surface.
- Road drainage controls are now incorporated into designs that:
 - Reduce the erosive flows in ditches by providing frequent cross-drains to relieve ditch flows;
 - Avoid water movement down the road by dispersing the drainage quickly by crowning or outsloping the road surface;
 - Stabilize ditches by lining; and
 - Disperse drainage water (that often carries sediment) onto stable forested slopes before ditches discharge into waterways.
 - Allow new and existing stream crossings to safely pass extreme events (i.e. 100-year flood event).
- Special construction techniques and designs are utilized (i.e., full- or partial-benching of roads to avoid unstable side casting of waste materials; windrowing clearing slash to prevent sediment delivery to streams from construction activities themselves as well as from erosion of road fills and treads that are not yet protected with erosion control vegetation).
- Some roads are now designed to take advantage of the non-uniformities of the slopes they cross by “rolling grades” and grade breaks to prevent the potential for accumulations of water or excessive ditchflows that destabilized road beds or caused surface erosion in the past.
- Designers and planners develop road networks that avoid highly erosive or unstable slopes with the help of land system inventories, hydrologists, soil scientists, and geotechnical engineers.
- Road crossings are located at more stable sites and crossing designs now incorporate water quality and fish passage as primary design criteria, rather than criteria that just account for costs and traffic efficiency.
- Roads are located well away from streams and their riparian areas where ever practicable; and the number of crossing sites is minimized. These features are in stark contrast to past road locations that sometimes resulted in chronic sources of sediments, extended exposure of streams to direct sunlight resulting in temperature elevations, and nearly permanent reductions of the replacement sources of the structural components of streams and aquatic cover, riparian deadfall.
- In the past, when a road’s utility ended, the road was simply abandoned. Some of these abandoned roads create substantial water quality and slope stability issues as they deteriorate, especially without any maintenance. Current practice is to begin restoring abandoned or no longer useful roads to a “hydrologically neutral” condition where remnants are self-maintaining and are no longer disturbing slope stability or the movement of slope water, either on or below the soil surface or the natural functions and adjustments of streams, wetlands, and other water bodies.

Impacts to forest water and soil resources from logging practices and road activities have also been reduced over the past 20 years with the introduction of Best Management Practices (BMPs) and Inland Native Fish Strategy (a.k.a. INFISH) management direction. Based on research studies, current BMPs and INFISH Riparian Habitat Conservation Areas (RHCAs) can reduce sediment yields compared with historical practices (Lee et al 1997, USDA 1995).

In 1972, Section 208 of the Clean Water Act Amendments established the regulatory framework for non-point source pollution control through use of BMPs. BMPs are defined in Idaho as a practice or combination of practices determined to be the most effective and practicable means of preventing or reducing the amount of pollution generated by non-point sources (IDAPA 20.02.01). BMP monitoring is conducted annually by the IPNF to validate the implementation and effectiveness of BMPs associated with land management activities. Monitoring results are used to adapt future management actions where improvements in meeting water quality objectives are indicated. Forest monitoring of BMPs indicates that in most cases they continue to function as expected and are meeting their intent (IPNF 2002, 2003).

At the time the IPNF Forest Plan was approved (1987), the emphasis was on developing a commodity production strategy while minimizing impacts to watersheds and aquatic resources, including fish. The strategy for watershed management was constructed in the forest plan as a "maintenance" objective. In some situations, thresholds, or "minimum impact" standards defined the criteria for maintenance. To ensure that watersheds and aquatic resources were maintained during forest management activities, BMPs were applied. Despite the existing forest plan standards and BMPs, the condition of fish habitat on the forest was declining, primarily due to timber harvest and road building activities (IPNF 1992).

In 1995, the forest plan was amended to include INFISH management direction (USDA 1995). The implementation of INFISH gave greater protection to aquatic resources, especially riparian-dependent systems. The management direction provided by the INFISH amendment is designed to protect and maintain the structure and function of riparian and aquatic systems. INFISH contains goals for healthy, functioning watersheds, riparian areas, and associated fish habitats; Riparian Management Objectives (RMOs), and performance-based standards and guidelines for land management activities (i.e., timber, roads, grazing, recreation, minerals, fire/fuels, lands, riparian area management, watershed restoration, fisheries and wildlife restoration). Instead of allowing some "acceptable" level of effects on riparian and aquatic systems, INFISH aims to protect aquatic resources from detrimental effects. INFISH gives riparian-dependent resources priority over other resources in the Riparian Habitat Conservation Areas (RHCAs), so that while RHCAs are not "lock out" zones, activities that occur in them must either benefit riparian and aquatic resources or at least "not slow the rate of recovery below the near natural rate of recovery if no additional human caused disturbance was placed on the system" (USDA 1995). Incorporation of the INFISH management direction into the forest plan has led to improvement in the condition of aquatic resources by offering greater protections to the critical riparian areas. In addition, INFISH allows for and encourages watershed restoration. Restoration has occurred over the years across the IPNF. Over 1,300 miles of roads have been decommissioned on the IPNF from 1991-2003 (IPNF 2003).

Harvest methods and removal of timber products from the national forest changed substantially over time. The earliest harvest methods involved what is commonly called "high grading" which means the biggest, most valuable trees were harvested and other trees were left on site. Harvest methods in the 1950s, 1960s, and 1970s focused primarily on financial objectives of providing low-cost wood products. Harvest placement often occurred in the highest volume, easily accessible stands and often occurred within riparian areas and adjacent to streams. Most of the harvest prescriptions during this time were primarily designed to produce healthy young stands with shorter rotation ages.

Modern timber harvest prescriptions and design emphasize desired conditions of the forest after the harvest. This usually results in the retention of various amounts of trees in a post-harvest stand to address objectives that may include wildlife habitat, watershed conditions, hazardous fuels, visual quality, soil productivity, forest health and others. On sites determined suitable for timber production, timber harvest may also produce timber products on a regulated basis while compatible with other resource objectives and values. Some examples where timber production and resource objectives can be achieved simultaneously are:

- Reducing tree densities to decrease bark beetle hazard, thereby prolonging the development of the forest and maintaining tree cover;

- Managing tree canopies to limit fire spread from the forest floor to the tree crowns;
- Developing flammulated owl habitat in ponderosa pine forest through removal of smaller stems crowding larger trees, thereby providing more room to grow for the remaining trees, and open stand conditions favored by the owl;
- Designing harvest patterns across the landscape to facilitate wildlife movement, such as providing corridors and preserving travel routes for ungulates. Also, using harvest prescriptions and landscape patterns as part of a wildfire hazard reduction strategy;
- Increasing the amount of native western white pine, western larch and ponderosa pine, which generally are insect and disease resistant and are long-lived, as well as increasing western red cedar in valley bottoms, where it historically was more abundant than today;
- Using variable retention harvests to meet visual management objectives.

Other elements of modern harvest prescriptions that address specific resource objectives include retention of snags for cavity nesters, retention of down wood for soil nutrition and wildlife habitat, maintaining sediment filtering vegetation near riparian areas, and maintaining vegetation diversity through hardwood retention and protection of rare plants.

Increased environmental awareness also lead to improvements in logging systems to remove trees from the forest. Early harvests emphasized cheap, labor-intensive logging methods such as railroad, horse, short-distance jammer systems, and tractor logging. Logging systems were selected primarily by the least expensive method to transport the trees from the forest to the mill. This sometimes involved harvesting on steep slopes, creating excessive soil disturbance and increasing the risk of erosion. Streams were sometimes used as a method to transport logs from the harvest site, causing impacts to the aquatic system and adjacent riparian habitat. Road systems were sometimes dense (10 mi. per sq. mi.) to facilitate rapid and inexpensive removals, in some cases compromising water quality.

Today's logging systems reduce the threat of environmental harm in a number of ways. Tractor logging generally occurs on slopes 35% or less, and is limited to designated locations, reducing soil impacts. Skyline and other cable yarding systems are used on steeper slopes, which greatly reduce the amount of soil disturbance. Increasingly, helicopter logging is used, which extends yarding distances and thereby reduces road densities. A suite of best management practices and forest plan standards and guidelines aids in the development of the least impactful design possible. Monitoring during and after the sale is completed provides a valuable feedback loop that quickly identifies and corrects variances should they occur.

The IPNF ceased regeneration harvest of allocated old growth stands a number of years ago. Presently, the focus is on maintaining the old growth stands and allocating additional stands for future old growth as they mature. On drier sites, restoration of old growth may include various mixes of prescribed fire and thinning to restore historic more open old growth stand structures and reduce risk of stand-replacing fire. Planting shade-intolerant, fire-adapted species may also be done if these are in short supply. On these dry sites, the objective is to restore and sustain the old growth by retaining the large old trees, preserving the old growth characteristics, and restoring historic old growth structures and processes (IPNF 2003).

For the above stated reasons (changes in road construction/reconstruction and maintenance practices; implementation of INFISH management direction and watershed BMPs; and harvest practices and objectives) an individual analysis of past projects cannot be clearly compared to analysis of the proposed actions. However, the incremental effects of the proposed action when added to the effects of past, present, and reasonably foreseeable actions is displayed and provides a complete assessment of cumulative effects.

Past, present, and reasonably foreseeable future actions are activities known to have already occurred, are currently occurring, or are likely to occur in the vicinity of the proposed Broadaxe project and may contribute cumulative effects. These activities are summarized below and in the Broadaxe EA. Because cumulative effects vary in time and space, each resource specialist

defined specific cumulative effects analysis areas and considered the appropriate actions from the list for their analysis (see Resource Reports). The level of effects of each type of activity varied due to location and implementation standards that were in place at the time.

The past and present activities and natural events that contributed to creating the existing condition are specifically described in the resource reports. The existing condition reflects the history of each cumulative effects analysis area and is the starting point for effects analysis.

The following list shows activities that occurred in the past. Although the list is comprehensive, it may have some unintended omissions due to lack of records or knowledge. The listing is intended to demonstrate that relevant activities are identified and are considered in the analysis of cumulative effects for the Broadaxe project. However, this list does not stand alone. It supports the cumulative effects analysis work completed by each resource specialist. Specifics of analysis methods are located in the project file.

The level of detail for each resource analysis depends on the character of that resource, the amount of information available, importance of effects, and the scale of analysis most informative or relevant for that affected resource. Following are brief narratives concerning those activities considered to have the potential for the most impact to the Broadaxe project area.

Timber Harvest - Past harvest activities occurred between 1958 and 1998, mainly within the Gold Creek and Quartz Creek drainages. Silvicultural prescriptions included intermediate and regeneration treatments. The majority of harvest activities occurred in 1960s and 1970s. Riparian harvest occurred during this time period along Gold Creek. Riparian harvest reduced the stream shading which may have caused increases in temperature, reduced the amount of potential woody debris recruitment, and may have caused streambank instability. Beetlemania Timber Sale is the most recent harvest activity in the Broadaxe drainage. Beetlemania treated 162 acres consisting of 33 acres sanitation salvage and 129 acres seed tree harvest in 1998. The Beetlemania Timber Sale in 1998 had no effect on Broadaxe Creek (Watershed Report, page 16; SW9 and SW27). From 1999 to present no other harvest activities have taken place within the analysis area. There have been no timber harvest activities in the proposed units.

Regeneration – Artificial regeneration began in the Gold Creek drainage as early as 1939. Both natural and artificial regeneration have proven to be very successful within the Broadaxe drainage. All stands, which have received a regeneration harvest, are satisfactorily restocked and progressing as planned (Vegetation Report, page 5). Site preparation activities consisted of mechanical methods and prescribed fire.

Roads –The majority of road building took place prior to 1975 and was most likely associated with timber harvest activities. These roads are in varying levels of use: roads open to all vehicles; roads open to ATV use only; and stored roads. Currently approximately 381 miles of roads exist within the elk habitat unit, which is the largest cumulative effects analysis area used for the Broadaxe project. An additional 68 miles of road were decommissioned and are no longer National Forest System Roads. Approximately six miles of Forest Highway 50 (lower section) were constructed prior to 1949. This section of road lies within the riparian habitat conservation area (RHCA) for almost its entire length (Fisheries Report, page 13 and 14). The remainder of Forest Highway 50, approximately six miles, was constructed between 1958 and 1969. This section is primarily outside the Gold Creek 300-foot zone, except for at stream crossings. Roads constructed for the Beetlemania Timber Sale (1998) were temporary roads (SW9). Watershed monitoring conducted in 2002 of the Beetlemania project included evaluation of BMP effectiveness and assessment of channel conditions at road-stream crossings that had been removed and recontoured on decommissioned and stored roads (SW9; GR18, IPNF 2002 Forest Plan Monitoring and Evaluation Report, p.36). The Beetlemania project activities do not appear to have affected channel conditions in Broadaxe Creek (SW19) or headwater tributaries (SW9; GR18, IPNF 2002 Forest Plan Monitoring and Evaluation Report, p.36) (Watershed Report, page 9). The management history catalog below provides information on roads that have known construction dates.

Mining –Gold, silver, and copper prospecting occurred in the lowest reaches of Gold Creek in the early 1900s. This activity probably altered the in-stream habitat, removed woody debris from the channel, reduced stream channel stability, generated sediment and removed riparian vegetation. These past mining activities were likely contributors to the eventual 303(d) listing of Gold Creek below the East Fork of Gold Creek.

Fire – The Broadaxe Project Area sustained two large stand-replacing fires that influenced stand development as it occurs at present. The southeast half of the area burned in 1889, and the northwest portion burned in 1910. As a result, this project area has large areas dominated by lodgepole pine. With the advent of effective fire suppression, we have essentially eliminated fire from this area over the last 60 years. Fire has historically been the primary natural thinning agent, which encouraged retention and effective regeneration of shade-intolerant early seral species. Fire suppression subsequently encouraged increased representation of the more shade-tolerant, less fire-adapted species over time. The result of essentially eliminating natural fire has also reduced site preparation which provided appropriate seed beds for germination and establishment of natural regeneration of early seral species. Additionally, the lack of fire has allowed increased stand densities and the natural establishment of more shade-tolerant species such as grand fir, hemlock and Douglas-fir. In 2000, the Berge Peak fire burned 60 acres in the Gold Creek drainage making it the most recent fire affecting the Broadaxe project area environment. Aggressive suppression of wild fires is expected to continue. As a result, the trends in stand structure and composition related to the absence of fire are also expected to continue. As a consequence of these changes in forest composition the risk of large area losses to fire, insects, disease, weather events, and other major disturbances is increasing compared to historical conditions.

CEQ Memorandum to the Heads of Federal Agencies regarding Guidance on the Consideration of Past Actions in Cumulative Effects Analysis, June 24, 2005.

Management History Report For Broadaxe EA

ROAD CONSTRUCTION

CONSTRUCTION AND RECONSTRUCTION (Refer to Road Construction History Map)

ROAD PLAN/DESCRIPTION	ROAD ID	YEAR	MI CONST	MI RECONST	MI LTS	Drainage
Quartz Creek Project	339	1958	6.92			Quartz Creek
Broadaxe Creek Road	1221	1967		0.69		Gold Creek
Broadaxe Creek Road	1221	1967	2.46			Gold Creek
Bruin Tumbledown	1223	1969	1.90			Bruin Creek
Gold Bear Timber Sale	339	1973		1.47		Gold Creek
Gold Bear Timber Sale	1221	1973		3.07		Gold Creek
Gold Bear Timber Sale	1231	1973		3.98		Gold Creek
Haggerty Gulch	339	1975		2.75		Quartz Creek
Upper Quartz	339	1975		10.81		Quartz Creek
Haggerty Gulch	1223	1975				Quartz Creek
Upper Quartz	1224	1975		3.96		Quartz Creek
Haggerty Gulch	1224	1975		1.30		Quartz Creek
Haggerty Gulch	1226	1975	2.39			Quartz Creek
Upper Quartz	1227	1975		3.70		Quartz Creek
Upper Quartz	1411	1975	5.19			Quartz Creek
Gold Skyline	1231	1976				Gold Creek
Gold Skyline	3383	1976		1.18		Gold Creek
Gold Skyline	3384	1976		1.13		Gold Creek
Gold Skyline	3385	1976		1.35		Gold Creek
Gold Skyline	3385	1976	0.44			Gold Creek
Gold Skyline	3386	1976	0.25			Gold Creek
Gold Skyline	3387	1976		3.10		Gold Creek
Gold Skyline	3388	1976		0.15		Gold Creek
Gold Skyline	3388	1976	0.35			Gold Creek
Gold Skyline	3389	1976		0.35		Gold Creek
Gold Skyline	3390	1976	0.47			Gold Creek
Gold Skyline	3390	1976		0.33		Gold Creek
Gold Skyline	3391	1976		0.73		Gold Creek
Gold Skyline	3392	1976		1.43		Gold Creek
Gold Skyline	3393	1976		3.10		Gold Creek
Gold Skyline	3394	1976		1.65		Gold Creek
Gold Skyline	3395	1976		0.10		Gold Creek
Gold Skyline	3396	1976		1.73		Gold Creek
Gold Skyline	3397	1976		0.20		Gold Creek
Gold Skyline	3398	1976		0.43		Gold Creek
Gold Skyline	3398	1976	1.02			Gold Creek
Gold Skyline	3399	1976		0.80		Gold Creek
Gold Skyline	3400	1976		0.58		Gold Creek
Shady Salvage	3458	1976		1.40		Quartz Creek
Shady Salvage	3462	1976		0.90		Quartz Creek
Shady Salvage	3463	1976		0.50		Quartz Creek
Gold Skyline	388X	1976		1.25		Gold Creek
Berge Peak	344	1977		1.04		Gold Creek

Berge Peak	1219	1977	0.42		Gold Creek
Berge Peak	1219	1977		3.14	Gold Creek
Berge Peak	1221	1977	0.58		Gold Creek
Berge Peak	1222	1977		1.42	Gold Creek
Adams Cabin	1227	1977		5.50	Quartz Creek
Berge Peak	1405	1977		1.76	Gold Creek
Berge Peak	1405	1977	2.79		Gold Creek
Berge Peak	3501	1977		0.56	Gold Creek
Berge Peak	3509	1977		1.08	Gold Creek
Berge Peak	3511	1977		0.25	Gold Creek
Berge Peak	3519	1977		1.57	Gold Creek
Berge Peak	3520	1977		1.14	Gold Creek
Berge Peak	3524	1977		0.76	Gold Creek
Adams Cabin	3543	1977		0.57	Quartz Creek
Adams Cabin	3544	1977		1.07	Quartz Creek
Adams Cabin	3546	1977		1.18	Quartz Creek
Adams Cabin	3547	1977		0.61	Quartz Creek
Adams Cabin	1227A	1977		0.38	Quartz Creek
Gold Ridge	344	1978		0.90	Gold Creek
Adams Eagle	1214	1978	3.26		Quartz Creek
Adams Eagle	1214	1978		7.57	Quartz Creek
Gold Ridge	1222	1978		2.05	Gold Creek
Adams Eagle	1252	1978	1.02		Quartz Creek
Adams Cabin	1446	1978		0.23	Quartz Creek
Adams Eagle	1940	1978	0.40		Quartz Creek
Adams Eagle	1946	1978	1.49		Quartz Creek
Gold Ridge	3326	1978		0.85	Gold Creek
Gold Ridge	3329	1978		0.49	Gold Creek
Gold Ridge	3329	1978	0.20		Gold Creek
Whitetail Houselog	3388	1978		1.70	Gold Creek
Whitetail Houselog	3389	1978		1.01	Gold Creek
Whitetail Houselog	3391	1978		0.38	Gold Creek
Whitetail Houselog	3408	1978		0.24	Gold Creek
Whitetail Houselog	3409	1978		1.97	Gold Creek
Gold Ridge	3521	1978		0.57	Gold Creek
Adams Cabin	1227A	1978		2.06	Quartz Creek
Entente Basin	339	1979		2.78	Quartz Creek
Entente Basin	1227	1979		1.14	Quartz Creek
Gray Gulch	1424	1979		1.29	Quartz Creek
Gray Gulch	1424A	1979		0.57	Quartz Creek
Shady Quartz	339	1981		0.18	Quartz Creek
Shady Quartz	1411	1981		1.15	Quartz Creek
Bruin Tumbledown	3350	1981	2.09		Bruin Creek
Bruin Tumbledown	3351	1981	2.69		Bruin Creek
Shady Quartz	3358	1981		0.95	Quartz Creek
Shady Quartz	3358	1981	2.36		Quartz Creek
Shady Quartz	3359	1981		0.72	Quartz Creek
Shady Quartz	3359	1981	1.67		Quartz Creek
Shady Quartz	3360	1981	0.65		Quartz Creek
Shady Quartz	3363	1981	0.11		Quartz Creek
Shady Quartz	3363	1981		3.07	Quartz Creek

Shady Quartz	3364	1981		1.12	Quartz Creek
Bruin Tumbledown	3399	1981		2.67	Bruin Creek
Bruin Tumbledown	3399	1981	0.72		Bruin Creek
Shady Quartz	3451	1981		1.70	Quartz Creek
Shady Quartz	3453	1981		1.32	Quartz Creek
Shady Quartz	3453	1981	0.10		Quartz Creek
Bruin Tumbledown	3466	1981		0.79	Bruin Creek
Shady Quartz	1223A	1981		0.32	Quartz Creek
Shady Quartz	1223B	1981		0.36	Quartz Creek
Shady Quartz	1223C	1981		0.19	Quartz Creek
Bruin Tumbledown	3350A	1981	0.93		Bruin Creek
Bruin Tumbledown	3350B	1981	0.52		Bruin Creek
Bruin Tumbledown	3351A	1981	1.11		Bruin Creek
Shady Quartz	3453A	1981	0.33		Quartz Creek
Shady Quartz	3453A	1981		0.33	Quartz Creek
Bruin Tumbledown	3466A	1981		0.31	Bruin Creek
Bruin Tumbledown	3466A	1981	0.33		Bruin Creek
Adams Peak	3355	1983		0.45	Quartz Creek
Adams Peak	3365	1983	1.10		Quartz Creek
Adams Peak	3546	1983		1.27	Quartz Creek
Adams Peak	3546	1983	0.79		Quartz Creek
Adams Peak	3547	1983		0.70	Quartz Creek
Adams Peak	3355A	1983		0.64	Quartz Creek
Lower Quartz	339A	1983	0.13		Quartz Creek
East Bruin	3376	1984		1.95	Bruin Creek
East Bruin	3680	1984		1.76	Bruin Creek
East Bruin	3681	1984		0.66	Bruin Creek
East Bruin	3695	1984		0.95	Bruin Creek
East Bruin	3696	1984		1.27	Bruin Creek
East Bruin	3698	1984		1.52	Bruin Creek
East Bruin	3699	1984		0.85	Bruin Creek
East Bruin	3376A	1984		0.96	Bruin Creek
East Bruin	3698A	1984		0.98	Bruin Creek
Golden Axe	1218	1985		1.11	Gold Creek
Easy Gold	3501	1985	0.26		Gold Creek
Easy Gold	3501	1985		3.67	Gold Creek
Golden Axe	3502	1985		1.10	Gold Creek
Golden Axe	3503	1985		3.13	Gold Creek
Golden Axe	3506	1985		1.35	Gold Creek
Golden Axe	3509	1985		1.33	Gold Creek
Easy Gold	3513	1985		1.87	Gold Creek
Golden Rot	1231	1989		8.83	Gold Creek
Golden Rot	3384	1989		0.76	Gold Creek
Golden Rot	3385	1989		1.99	Gold Creek
Golden Rot	3387	1989		1.41	Gold Creek
Golden Rot	3389	1989		1.95	Gold Creek
Golden Rot	3393	1989		1.57	Gold Creek
Golden Rot	3396	1989		1.60	Gold Creek
Golden Rot	3393A	1989		1.06	Gold Creek
Golden Rot	3409B	1989		1.21	Gold Creek

Golden Rot	388A	1989	1.95	Gold Creek
Black Gold	1221	1995	2.90	Gold Creek
Black Gold	3329	1995	1.70	Gold Creek
Black Gold	3521	1995	0.90	Gold Creek
Black Gold	344	1996	3.10	Gold Creek

DECOMMISSIONED (Refer to Decommissioned Roads Map)

ROAD PLAN/DESCRIPTION	ROAD ID	YEAR	MI DECOM	DRAINAGE
Black Gold	44907*	1994	1.80	Gold Creek
Broadaxe	3502	1995	2.74	Gold Creek
Broadaxe	3503	1995	5.44	Gold Creek
Broadaxe	3506	1995	2.71	Gold Creek
Berge Begone	3519	1995	1.60	Gold Creek
Black Gold	44907*	1995	2.10	Gold Creek
Black Gold	44917E	1995	0.20	Gold Creek
Black Gold	44909*	1995	1.80	Gold Creek
Black Gold	1221	1995	4.80	Gold Creek
East Fork Gold Creek Salvage	3326	1995	0.85	Gold Creek
Broadaxe Spurs	XXXX	1995	0.50	Gold Creek
Black Gold	344*	1995	3.36	Gold Creek
Black Gold	44907*	1996	2.00	Gold Creek
Black Gold	44917*	1996	3.20	Gold Creek
Easy Money	3501	1996	8.74	Gold Creek
Black Gold	3512*	1996	1.74	Gold Creek
Gold Dust	3524	1996	2.47	Gold Creek
Black Gold	1438*	1996	1.36	Gold Creek
Beetlemania	388X*	1999	3.70	Gold Creek
Beetlemania	388spurs	1999	2.00	Gold Creek

Roads below were decommissioned between 1995-2004

Berge Peek Too	3505	0.54	Gold Creek
	3509	0.90	Gold Creek
	3520UA	0.35	Gold Creek
	3521UA	0.69	Gold Creek
	3545UA	0.36	Quartz Creek
	1222 *	1.22	Gold Creek
	1218 UB	0.22	Gold Creek
	1223	1.60	Bruin Creek
	1227	1.33	Quartz Creek
	1231	1.00	Gold Creek
	1228	1.74	Quartz Creek
	1405	0.47	Gold Creek
	1411	0.18	Quartz Creek
	1424	0.76	Quartz Creek
	214	0.98	Quartz Creek
	3329UB	0.13	Gold Creek
	3368UA	0.08	Bruin Creek
	3376UA	0.17	Bruin Creek
	3383UC	0.04	Gold Creek

3385A	0.18	Gold Creek
3387*	0.48	Gold Creek
3390UA	0.29	Gold Creek
3393UB	0.16	Gold Creek
3399*	0.64	Gold Creek
3408UA	0.11	Gold Creek
3458UA	0.20	Quartz Creek
3466AUA	0.18	Bruin Creek
3696*	0.91	Bruin Creek
3698*	1.22	Bruin Creek
3703UB	0.41	Quartz Creek
3723*	0.59	Quartz Creek

* - Totals includes spur roads.

Management History Report For Broadaxe EA

Vegetation Activities (Data summarized from Timber Stand Management Record System)

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Planting	16	1939			Gold Creek
Sanitation Salvage	86	1958			Gold Creek
Clearcut-Stand	52	1959			Gold Creek
Clearcut-Stand	6	1962			Quartz Creek
Clearcut-Stand	48	1964			Gold Creek
Clearcutting	57	1965			Gold Creek
Clearcut-Stand	29	1965	18223		Quartz Creek
Sanitation Salvage	30	1965			
Clearcut-Stand	59	1966	181203		Quartz Creek
Clearcut-Stand	44	1966	4952		Gold Creek
Clearcut-Stand	261	1966			Gold Creek
Clearcut-Stand	138	1966		BROADAXE	Gold Creek
Clearcut-Stand	80	1966		GOLD_PEAK(OLD)	Gold Creek
Seed Tree Seed	46	1966		GOLD_PEAK(OLD)	Gold Creek
Shelterwood Seed	30	1966			Gold Creek
Overstory Removal	19	1966			Gold Creek
Sanitation Salvage	48	1966	18223		Gold Creek
Sanitation Salvage	46	1966		BERGE CREEK	Gold Creek
Natural Changes	7	1966			Quartz Creek
Planting	105	1966			Gold Creek
Natural Regeneration	23	1966			Gold Creek
Site Prep Burn	105	1966			Gold Creek
Site Prep Burn	44	1966	4952		Gold Creek
Broadcast Burn	44	1966	4952		Gold Creek
Broadcast Burn	57	1966			Gold Creek
Clearcut-Stand	8	1967	4952		Quartz Creek
Clearcut-Stand	2	1967			Gold Creek
Overstory Removal	53	1967			Gold Creek
Single Tree Selection	3	1967			Quartz Creek
Sanitation Salvage	132	1967	181203		Quartz Creek
Planting	59	1967	181203		Gold Creek
Planting	128	1967			Gold Creek
Planting	44	1967	4952		Gold Creek
Planting	147	1967		BROADAXE	Gold Creek
Natural Regeneration	8	1967			Gold Creek
Site Prep Burn	59	1967	181203		Quartz Creek
Site Prep Burn	162	1967			Gold Creek
Site Prep Burn	147	1967		BROADAXE	Gold Creek
Broadcast Burn	29	1967	18223		Quartz Creek
Broadcast Burn	109	1967			Gold Creek
Broadcast Burn	147	1967		BROADAXE	Gold Creek
Wildland Fire Not Manged for Resources	59	1967	181203		Quartz Creek
Grapple Piling	72	1967			Gold Creek
Grapple Piling	126	1967		GOLD_PEAK(OLD)	Gold Creek
Clearcut-Stand	125	1968	2626		Gold Creek
Clearcut-Stand	302	1968			Bruin Creek
Clearcut-Stand	48	1968	18223		Quartz Creek
Clearcut-Stand	96	1968	4952		Gold Creek
Sanitation Salvage	33	1968			Bruin Creek
Sanitation Salvage	13	1968			Gold Creek
Sanitation Salvage	35	1968	4135		Gold Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Sanitation Salvage	19	1968	706982	GOLD BEAR	Gold Creek
Sanitation Salvage	51	1968	4754		Gold Creek
Planting	66	1968			Gold Creek
Site Prep Burn	66	1968			Gold Creek
Nat Regen Site Prep Mechanical	8	1968	4952		Gold Creek
Broadcast Burn	66	1968			Gold Creek
Pile Landing	8	1968	4952		Gold Creek
Clearcut-Patch	7	1969			Quartz Creek
Clearcut-Stand	339	1969			Bruin Creek
Clearcut-Stand	110	1969	182212	BLACKJACK TUMBLEDOWN	Bruin Creek
Clearcut-Stand	93	1969			Quartz Creek
Clearcut-Stand	195	1969	18223		Quartz Creek
Clearcut-Stand	45	1969	182733	ENTENTE CREEK	Quartz Creek
Clearcut-Stand	151	1969	182683	ENTENTE RIDGE	Quartz Creek
Clearcut-Stand	373	1969			Gold Creek
Clearcut-Stand	323	1969	18301		Gold Creek
Clearcut-Stand	289	1969	4952		Gold Creek
Clearcut-Stand	79	1969	184952	GOLD CREEK	Gold Creek
Clearcut-Stand	38	1969	2626		Gold Creek
Shelterwood Seed	148	1969	18223		Quartz Creek
Seed Tree Seed	31	1969			Gold Creek
Shelterwood Removal	33	1969			Bruin Creek
Overstory Removal	151	1969			Gold Creek
Liberation	71	1969	184366	EAST FK GOLD CR II	Gold Creek
Sanitation Salvage	67	1969			Bruin Creek
Sanitation Salvage	5	1969	3012		Gold Creek
Sanitation Salvage	146	1969	18301		Gold Creek
Planting	43	1969			Bruin Creek
Planting	77	1969	184606	BROADAXE	Gold Creek
Planting	81	1969	4952		Gold Creek
Planting	196	1969			Gold Creek
Natural Regeneration	5	1969			Quartz Creek
Natural Regeneration	131	1969			Gold Creek
Site Prep Burn	43	1969			Bruin Creek
Site Prep Burn	103	1969	182683	ENTENTE RIDGE	Quartz Creek
Site Prep Burn	26	1969	184606	BROADAXE	Gold Creek
Site Prep Burn	139	1969			Gold Creek
Site Prep Burn	96	1969	4952		Gold Creek
Nat Regen Site Prep Burn	7	1969			Quartz Creek
Broadcast Burn	37	1969			Bruin Creek
Broadcast Burn	77	1969	184606	BROADAXE	Gold Creek
Broadcast Burn	126	1969	4952		Gold Creek
Broadcast Burn	196	1969			Gold Creek
Wildland Fire Not Manged for Resources	43	1969			Bruin Creek
Hand Piling	32	1969	706982	GOLD BEAR	Gold Creek
Chipping	34	1969			Bruin Creek
Chipping	110	1969	182212	BLACKJACK TUMBLEDOWN	Bruin Creek
Chipping	100	1969			Quartz Creek
Chipping	103	1969	182683	ENTENTE RIDGE	Gold Creek
Chipping	17	1969			Gold Creek
Clearcutting	98	1970	182733	ENTENTE CREEK	Quartz Creek
Clearcut-Stand	12	1970			Bruin Creek
Clearcut-Stand	257	1970			St. Joe Face
Clearcut-Stand	94	1970	18221		St. Joe Face
Clearcut-Stand	84	1970	18268		Quartz Creek
Clearcut-Stand	98	1970	182733	ENTENTE CREEK	Quartz Creek
Clearcut-Stand	12	1970	2717		Gold Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Shelterwood Seed	10	1970			St. Joe Face
Shelterwood Seed	11	1970	182683	ENTENTE RIDGE	Quartz Creek
Shelterwood Seed	42	1970	5223		Gold Creek
Seed Tree Seed	131	1970			Gold Creek
Sanitation Salvage	7	1970			Bruin Creek
Sanitation Salvage	50	1970			St. Joe Face
Sanitation Salvage	31	1970	182212	BLACKJACK TUMBLEDOWN	St. Joe Face
Sanitation Salvage	25	1970			Quartz Creek
Sanitation Salvage	50	1970	18268		Quartz Creek
Sanitation Salvage	12	1970			Gold Creek
Natural Changes	9	1970			Gold Creek
Planting	88	1970			Bruin Creek
Planting	110	1970	182212	BLACKJACK TUMBLEDOWN	Bruin Creek
Planting	93	1970			St. Joe Face
Planting	45	1970	182733	ENTENTE CREEK	Quartz Creek
Planting	93	1970	182683	ENTENTE RIDGE	Quartz Creek
Planting	156	1970			Gold Creek
Planting	79	1970	184952	GOLD CREEK	Gold Creek
Planting	104	1970	4952		Gold Creek
Natural Regeneration	70	1970			Gold Creek
Site Prep Burn	98	1970	182733	ENTENTE CREEK	Quartz Creek
Site Prep Burn	139	1970			Gold Creek
Site Prep Burn	104	1970	4952		Gold Creek
Broadcast Burn	98	1970	182733	ENTENTE CREEK	Quartz Creek
Broadcast Burn	104	1970	4952		Gold Creek
Wildland Fire Not Manged for Resources	139	1970			Gold Creek
Grapple Piling	50	1970	4952		Gold Creek
Hand Piling	10	1970			St. Joe Face
Hand Piling	56	1970	18223		Quartz Creek
Hand Piling	65	1970			Gold Creek
Hand Piling	26	1970	184366	EAST FK GOLD CR II	Gold Creek
Hand Piling	124	1970	18301		Gold Creek
Chipping	154	1970	18223		Quartz Creek
Natural Abatement	92	1970	18223		Quartz Creek
Clearcut-Stand	88	1971			Quartz Creek
Clearcut-Stand	228	1971	184150	LOWER ENTENTE	Quartz Creek
Clearcut-Stand	217	1971	2717		Gold Creek
Seed Tree Prep	94	1971	184887	ASPEN CR LODGEPOLE	Quartz Creek
Shelterwood Seed	127	1971	184978	EAST BRUIN CREEK	Bruin Creek
Shelterwood Seed	30	1971			Bruin Creek
Shelterwood Seed	44	1971			Quartz Creek
Shelterwood Seed	20	1971	184887	ASPEN CR LODGEPOLE	Quartz Creek
Shelterwood Seed	20	1971			Quartz Creek
Shelterwood Seed	81	1971	4952		Gold Creek
Sanitation Salvage	141	1971	184978	EAST BRUIN CREEK	Bruin Creek
Sanitation Salvage	50	1971			Quartz Creek
Sanitation Salvage	17	1971	184150	LOWER ENTENTE	Quartz Creek
Sanitation Salvage	41	1971			Gold Creek
Planting	98	1971			Bruin Creek
Planting	50	1971			Quartz Creek
Planting	92	1971	18223		Quartz Creek
Planting	241	1971	182733	ENTENTE CREEK	Quartz Creek
Planting	323	1971	18301		Gold Creek
Planting	91	1971	184952	GOLD CREEK	Gold Creek
Re-plant	53	1971	4952		Gold Creek
Natural Regeneration	115	1971			St. Joe Face
Natural Regeneration	75	1971	2626		Gold Creek
Natural Regeneration	146	1971			Gold Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Site Prep Burn	98	1971			Bruin Creek
Site Prep Burn	45	1971	182733	ENTENTE CREEK	Quartz Creek
Site Prep Burn	279	1971	18301		Gold Creek
Site Prep Burn	91	1971	184952	GOLD CREEK	Gold Creek
Site Prep Mechanical	24	1971			Bruin Creek
Nat Regen Site Prep Burn	44	1971	3012		Gold Creek
Nat Regen Site Prep Manual	51	1971			Bruin Creek
Nat Regen Site Prep Manual	75	1971	2626		Gold Creek
Broadcast Burn	45	1971	182733	ENTENTE CREEK	Quartz Creek
Broadcast Burn	323	1971	18301		Gold Creek
Broadcast Burn	91	1971	184952	GOLD CREEK	Gold Creek
Wildland Fire Not Manged for Resources	98	1971			Bruin Creek
Wildland Fire Not Manged for Resources	98	1971	182733	ENTENTE CREEK	Quartz Creek
Lopping	41	1971			Gold Creek
Grapple Piling	51	1971			Bruin Creek
Grapple Piling	27	1971			Gold Creek
Grapple Piling	31	1971	4952		Gold Creek
Grapple Piling	75	1971	2626		Gold Creek
Pile Landing	12	1971			Bruin Creek
Pile Landing	12	1971	2717		Gold Creek
Hand Piling	209	1971	184978	EAST BRUIN CREEK	Bruin Creek
Hand Piling	30	1971			Bruin Creek
Hand Piling	50	1971			St. Joe Face
Hand Piling	42	1971	5223		Gold Creek
Chipping	103	1971			Bruin Creek
Chipping	3	1971			Quartz Creek
Chipping	41	1971	18223		Quartz Creek
Chipping	132	1971	181203		Quartz Creek
Chipping	181	1971			Gold Creek
Shelterwood Seed	57	1972	184366	EAST FK GOLD CR II	Gold Creek
Shelterwood Seed	391	1972			Gold Creek
Shelterwood Seed	50	1972	750997	BERGE HOUSELOG # 2	Gold Creek
Shelterwood Seed	24	1972	182717	LOWER GOLD CREEK	Gold Creek
Shelterwood Seed	7	1972	2717		Gold Creek
Shelterwood Seed	18	1972	182717	LOWER GOLD CREEK	Gold Creek
Shelterwood Seed	35	1972	184606	BROADAXE	Gold Creek
Shelterwood Seed	20	1972	184606	BROADAXE	Gold Creek
Shelterwood Seed	25	1972	184606	BROADAXE	Gold Creek
Shelterwood Seed	67	1972	4952		Gold Creek
Shelterwood Seed	65	1972	708616	WHITETAIL HOUSELOG	Gold Creek
Shelterwood Seed	142	1972	4580		Gold Creek
Shelterwood Seed	26	1972	707436	GOLD SKYLINE	Gold Creek
Shelterwood Seed	52	1972	184606	BROADAXE	Gold Creek
Shelterwood Seed	224	1972	4580		Gold Creek
Sanitation Salvage	34	1972	18490		Quartz Creek
Sanitation Salvage	89	1972	184366	EAST FK GOLD CR II	Gold Creek
Sanitation Salvage	165	1972	4580		Gold Creek
Planting	128	1972			St. Joe Face
Re-plant	93	1972			Quartz Creek
Re-plant	51	1972	184606	BROADAXE	Gold Creek
Re-plant	18	1972			Gold Creek
Natural Regeneration	44	1972			Quartz Creek
Natural Regeneration	222	1972			Gold Creek
Site Prep Burn	128	1972			St. Joe Face
Broadcast Burn	128	1972			St. Joe Face
Broadcast Burn	94	1972	18221		St. Joe Face
Hand Piling	94	1972			Quartz Creek
Hand Piling	34	1972	18490		Quartz Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Hand Piling	20	1972	184887	ASPEN CR LODGEPOLE	Quartz Creek
Hand Piling	42	1972	182717	LOWER GOLD CREEK	Gold Creek
Hand Piling	43	1972			Gold Creek
Hand Piling	92	1972	4952		Gold Creek
Hand Piling	65	1972	708616	WHITETAIL HOUSELOG	Gold Creek
Hand Piling	197	1972	4580		Gold Creek
Clearcut-Stand	114	1973			Simmons Creek
Clearcut-Stand	8	1973			Gold Creek
Shelterwood Prep	33	1973	5785		Simmons Creek
Shelterwood Seed	137	1973	704300	NORTH FORK SIMMONS	Simmons Creek
Shelterwood Seed	177	1973	708178	GOLD RIDGE	Simmons Creek
Shelterwood Seed	287	1973	4309		Simmons Creek
Shelterwood Seed	11	1973			Gold Creek
Shelterwood Seed	168	1973			Gold Creek
Seed Tree Seed	61	1973	185785	NORTH SIMMONS LP	Simmons Creek
Planting	90	1973			Bruin Creek
Planting	64	1973			Quartz Creek
Planting	84	1973	18268		Quartz Creek
Planting	176	1973	184150	LOWER ENTENTE	Quartz Creek
Planting	35	1973	182683	ENTENTE RIDGE	Quartz Creek
Re-plant	121	1973			St. Joe Face
Natural Regeneration	29	1973			Quartz Creek
Natural Regeneration	414	1973			Gold Creek
Site Prep Burn	108	1973			Bruin Creek
Site Prep Burn	88	1973			Quartz Creek
Site Prep Burn	84	1973	18268		Quartz Creek
Site Prep Burn	215	1973	184150	LOWER ENTENTE	Quartz Creek
Site Prep Burn	58	1973	182683	ENTENTE RIDGE	Quartz Creek
Nat Regen Site Prep Manual	76	1973	4176		Gold Creek
Broadcast Burn	84	1973	18268		Quartz Creek
Broadcast Burn	228	1973	184150	LOWER ENTENTE	Quartz Creek
Wildland Fire Not Manged for Resources	108	1973			Bruin Creek
Wildland Fire Not Manged for Resources	88	1973			Quartz Creek
Wildland Fire Not Manged for Resources	58	1973	182683	ENTENTE RIDGE	Quartz Creek
Grapple Piling	76	1973	4176		Gold Creek
Hand Piling	57	1973	184366	EAST FK GOLD CR II	Gold Creek
Hand Piling	29	1973	4309		Gold Creek
Hand Piling	387	1973			Gold Creek
Hand Piling	80	1973	184606	BROADAXE	Gold Creek
Hand Piling	62	1973	4580		Gold Creek
Hand Piling	56	1973	4952		Gold Creek
Clearcut-Stand	135	1974			St. Joe Face
Clearcut-Stand	86	1974	705810	SHADY CREEK	St. Joe Face
Clearcut-Stand	52	1974			Quartz Creek
Clearcut-Stand	14	1974	4309		Simmons Creek
Overstory Removal	16	1974			St. Joe Face
Planting	176	1974			Gold Creek
Re-plant	33	1974			Bruin Creek
Natural Regeneration	31	1974			Gold Creek
Nat Regen Site Prep Manual	82	1974			Bruin Creek
Burn Hand Piles	16	1974			Gold Creek
Chipping	82	1974			Bruin Creek
Overstory Removal	29	1975	706982	GOLD BEAR	Gold Creek
Sanitation Salvage	101	1975	186667	WEST BRUIN CREEK	Bruin Creek
Sanitation Salvage	195	1975			Bruin Creek
Sanitation Salvage	9	1975	2717		Gold Creek
Natural Regeneration	30	1975			Gold Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Clearcut-Stand	64	1976	186866	TUMBLEDOWN LP	St. Joe Face
Shelterwood Prep	63	1976	706982	GOLD BEAR	Gold Creek
Shelterwood Seed	536	1976	706982	GOLD BEAR	Gold Creek
Shelterwood Seed	16	1976	708616	WHITETAIL HOUSELOG	Gold Creek
Seed Tree Seed	40	1976	706982	GOLD BEAR	Gold Creek
Overstory Removal	65	1976	706982	GOLD BEAR	Gold Creek
Sanitation Salvage	27	1976			Gold Creek
Sanitation Salvage	71	1976	706982	GOLD BEAR	Gold Creek
Sanitation Salvage	38	1976	2717		Gold Creek
Natural Regeneration	65	1976			St. Joe Face
Natural Regeneration	283	1976			Gold Creek
Site Prep Burn	108	1976			St. Joe Face
Site Prep Burn	54	1976	705810	SHADY CREEK	St. Joe Face
Site Prep Burn	26	1976			Quartz Creek
Nat Regen Site Prep Burn	65	1976			Gold Creek
Nat Regen Site Prep Burn	40	1976	706982	GOLD BEAR	Quartz Creek
PreComm Thin Trees	9	1976			Quartz Creek
Broadcast Burn	86	1976	705810	SHADY CREEK	St. Joe Face
Broadcast Burn	67	1976			St. Joe Face
Broadcast Burn	40	1976	706982	GOLD BEAR	Gold Creek
Wildland Fire Not Manged for Resources	81	1976			St. Joe Face
Wildland Fire Not Manged for Resources	52	1976			Quartz Creek
Grapple Piling	49	1976	706982	GOLD BEAR	Gold Creek
Grapple Piling	16	1976	708616	WHITETAIL HOUSELOG	Gold Creek
Hand Piling	54	1976	186667	WEST BRUIN CREEK	Bruin Creek
Hand Piling	68	1976	706982	GOLD BEAR	Gold Creek
Chipping	29	1976	706982	GOLD BEAR	Gold Creek
Clearcut-Strip	239	1977	707220	UPPER QUARTZ	Quartz Creek
Clearcut-Stand	79	1977			Quartz Creek
Shelterwood Prep	17	1977	707220	UPPER QUARTZ	Quartz Creek
Shelterwood Seed	12	1977	186866	TUMBLEDOWN LP	St. Joe Face
Shelterwood Seed	123	1977	707550	SHADY SALVAGE	St. Joe Face
Shelterwood Seed	44	1977			Quartz Creek
Shelterwood Seed	181	1977	707220	UPPER QUARTZ	Quartz Creek
Shelterwood Seed	247	1977	707295	PEGLEG MOUNTAIN	Simmons Creek
Shelterwood Seed	19	1977	707436	GOLD SKYLINE	Gold Creek
Single Tree Selection	56	1977	707436	GOLD SKYLINE	Gold Creek
Group Selection	7	1977	707220	UPPER QUARTZ	Quartz Creek
Liberation	13	1977			Quartz Creek
Sanitation Salvage	73	1977	707337	BRUIN BUDWORM	Bruin Creek
Sanitation Salvage	28	1977	707550	SHADY SALVAGE	St. Joe Face
Sanitation Salvage	28	1977	707279	HAGGERTY GULCH	Quartz Creek
Sanitation Salvage	4	1977	707220	UPPER QUARTZ	Quartz Creek
Sanitation Salvage	4	1977	706982	GOLD BEAR	Gold Creek
Sanitation Salvage	38	1977			Gold Creek
Sanitation Salvage	426	1977	707436	GOLD SKYLINE	Gold Creek
Planting	94	1977	18221		St. Joe Face
Planting	102	1977			St. Joe Face
Planting	140	1977			Quartz Creek
Re-plant	98	1977			Bruin Creek
Re-plant	45	1977	182733	ENTENTE CREEK	Quartz Creek
Natural Regeneration	61	1977			St. Joe Face
Natural Regeneration	248	1977			Quartz Creek
Natural Regeneration	435	1977			Gold Creek
Site Prep Burn	48	1977	707337	BRUIN BUDWORM	Bruin Creek
Site Prep Burn	64	1977	186866	TUMBLEDOWN LP	St. Joe Face
Site Prep Burn	15	1977	707550	SHADY SALVAGE	St. Joe Face

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Site Prep Mechanical	33	1977	707550	SHADY SALVAGE	St. Joe Face
Nat Regen Site Prep Burn	51	1977	707550	SHADY SALVAGE	St. Joe Face
Indirect Treatment	16	1977	707550	SHADY SALVAGE	St. Joe Face
Indirect Treatment	14	1977	706982	GOLD BEAR	Gold Creek
Broadcast Burn	64	1977	186866	TUMBLEDOWN LP	St. Joe Face
Broadcast Burn	15	1977	707550	SHADY SALVAGE	St. Joe Face
Broadcast Burn	51	1977	707550	SHADY SALVAGE	St. Joe Face
Wildland Fire Not Manged for Resources	48	1977	707337	BRUIN BUDWORM	Bruin Creek
Grapple Piling	297	1977	706982	GOLD BEAR	Gold Creek
Pile Landing	33	1977	707550	SHADY SALVAGE	St. Joe Face
Hand Piling	12	1977	186866	TUMBLEDOWN LP	St. Joe Face
Hand Piling	49	1977	707220	UPPER QUARTZ	Quartz Creek
Hand Piling	250	1977	706982	GOLD BEAR	Gold Creek
Chipping	16	1977			St. Joe Face
Chipping	28	1977	707550	SHADY SALVAGE	St. Joe Face
Chipping	6	1977	2717		Gold Creek
Natural Abatement	17	1977	707220	UPPER QUARTZ	Quartz Creek
Clearcut-Patch	10	1978	707436	GOLD SKYLINE	Bruin Creek
Clearcut-Stand	38	1978			Quartz Creek
Clearcut-Stand	20	1978	707279	HAGGERTY GULCH	Quartz Creek
Clearcut-Stand	51	1978	707808	ADAMS CABIN	Quartz Creek
Seed Tree Seed	4	1978	708467	TUMBLEDOWN BLOWDOWN	St. Joe Face
Shelterwood Removal	52	1978			Quartz Creek
Group Selection	10	1978	708186	ADAMS EAGLE	Quartz Creek
Sanitation Salvage	167	1978	707436	GOLD SKYLINE	Bruin Creek
Sanitation Salvage	35	1978	707808	ADAMS CABIN	Quartz Creek
Planting	64	1978			St. Joe Face
Planting	15	1978	707550	SHADY SALVAGE	St. Joe Face
Re-plant	51	1978			Bruin Creek
Re-plant	128	1978			St. Joe Face
Re-plant	88	1978			Quartz Creek
Re-plant	42	1978	182683	ENTENTE RIDGE	Quartz Creek
Re-plant	43	1978	184150	LOWER ENTENTE	Quartz Creek
Site Prep Burn	109	1978			Quartz Creek
Site Prep Burn	20	1978	707279	HAGGERTY GULCH	Quartz Creek
Site Prep Burn	51	1978	707808	ADAMS CABIN	Quartz Creek
Precommercial Thinning	24	1978			Quartz Creek
PreComm Thin Trees	30	1978			Quartz Creek
Broadcast Burn	20	1978	707279	HAGGERTY GULCH	Quartz Creek
Broadcast Burn	39	1978			Quartz Creek
Broadcast Burn	40	1978	707220	UPPER QUARTZ	Quartz Creek
Broadcast Burn	51	1978	707808	ADAMS CABIN	Quartz Creek
Pile Landing	167	1978	707436	GOLD SKYLINE	Bruin Creek
Chipping	38	1978			Quartz Creek
YUM	167	1978	707436	GOLD SKYLINE	Bruin Creek
Clearcut-Stand	125	1979	707220	UPPER QUARTZ	Quartz Creek
Clearcut-Stand	2	1979	708673	QUARTZ BLOWDOWN	Quartz Creek
Clearcut-Stand	107	1979	707808	ADAMS CABIN	Quartz Creek
Clearcut-Stand	28	1979	708808		Quartz Creek
Shelterwood Prep	4	1979	707808	ADAMS CABIN	Quartz Creek
Shelterwood Seed	237	1979	707220	UPPER QUARTZ	Quartz Creek
Shelterwood Seed	45	1979	707808	ADAMS CABIN	Quartz Creek
Shelterwood Seed	62	1979	708178	GOLD RIDGE	Gold Creek
Shelterwood Seed	95	1979	707436	GOLD SKYLINE	Gold Creek
Seed Tree Seed	42	1979	708178	GOLD RIDGE	Simmons Creek
Seed Tree Seed	67	1979	707436	GOLD SKYLINE	Gold Creek
Liberation	14	1979	707808	ADAMS CABIN	Quartz Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Sanitation Salvage	2	1979	708673	QUARTZ BLOWDOWN	Quartz Creek
Sanitation Salvage	9	1979	707808	ADAMS CABIN	Quartz Creek
Sanitation Salvage	238	1979	707436	GOLD SKYLINE	Gold Creek
Man-caused Fire Damage	106	1979	707220	UPPER QUARTZ	Quartz Creek
Planting	33	1979			St. Joe Face
Planting	58	1979	707279	HAGGERTY GULCH	Quartz Creek
Planting	79	1979			Quartz Creek
Planting	51	1979	707808	ADAMS CABIN	Quartz Creek
Re-plant	34	1979			Quartz Creek
Re-plant	40	1979			Quartz Creek
Re-plant	59	1979	2717		Gold Creek
Natural Regeneration	14	1979			St. Joe Face
Natural Regeneration	92	1979			Quartz Creek
Natural Regeneration	95	1979			Gold Creek
Site Prep Burn	139	1979	707220	UPPER QUARTZ	Quartz Creek
Site Prep Burn	145	1979			Quartz Creek
Site Prep Burn	94	1979	707808	ADAMS CABIN	Quartz Creek
Site Prep Burn	10	1979			Gold Creek
Site Prep Burn	31	1979	707295	PEGLEG MOUNTAIN	Gold Creek
Precommercial Thinning	4	1979			Quartz Creek
Precommercial Thinning	7	1979			Gold Creek
PreComm Thin Trees	7	1979			Quartz Creek
Broadcast Burn	56	1979	707220	UPPER QUARTZ	Quartz Creek
Broadcast Burn	69	1979			Quartz Creek
Broadcast Burn	94	1979	707808	ADAMS CABIN	Quartz Creek
Understory Burn	31	1979	707295	PEGLEG MOUNTAIN	Gold Creek
Wildland Fire Not Manged for Resources	208	1979			Quartz Creek
Wildland Fire Not Manged for Resources	41	1979	707220	UPPER QUARTZ	Quartz Creek
Grapple Piling	2	1979	708186	ADAMS EAGLE	Quartz Creek
Wildlife Burn	10	1979			Gold Creek
Hand Piling	6	1979	708186	ADAMS EAGLE	Quartz Creek
Clearcut-Stand	48	1980	750195	QUARTZ FIRE	Quartz Creek
Clearcut-Stand	41	1980	707733	BERGE PEAK	Gold Creek
Shelterwood Prep	11	1980	707220	UPPER QUARTZ	Quartz Creek
Shelterwood Seed	7	1980	708442	BRUIN POINT	Bruin Creek
Shelterwood Seed	58	1980	707220	UPPER QUARTZ	Quartz Creek
Shelterwood Seed	11	1980	750195	QUARTZ FIRE	Quartz Creek
Shelterwood Seed	7	1980	707733	BERGE PEAK	Bruin Creek
Seed Tree Seed	6	1980	707220	UPPER QUARTZ	Quartz Creek
Overstory Removal	32	1980	707733	BERGE PEAK	Bruin Creek
Sanitation Salvage	40	1980	750195	QUARTZ FIRE	Quartz Creek
Sanitation Salvage	11	1980			Gold Creek
Planting	41	1980			St. Joe Face
Planting	57	1980	707220	UPPER QUARTZ	Quartz Creek
Planting	2	1980	708673	QUARTZ BLOWDOWN	Quartz Creek
Planting	110	1980	707808	ADAMS CABIN	Quartz Creek
Planting	179	1980			Gold Creek
Re-plant	38	1980	707279	HAGGERTY GULCH	Quartz Creek
Re-plant	91	1980			Quartz Creek
Re-plant	72	1980			Quartz Creek
Re-plant	112	1980			Gold Creek
Natural Regeneration	16	1980			St. Joe Face
Natural Regeneration	52	1980			Quartz Creek
Natural Regeneration	8	1980			Gold Creek
Natural Regeneration	61	1980			Gold Creek
Site Prep Burn	16	1980	707808	ADAMS CABIN	Quartz Creek
Site Prep Burn	39	1980	708178	GOLD RIDGE	Gold Creek
Nat Regen Site Prep Mechanical	84	1980	707220	UPPER QUARTZ	Quartz Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
PreComm Thin Trees	49	1980			Gold Creek
Broadcast Burn	16	1980	707808	ADAMS CABIN	Quartz Creek
Understory Burn	39	1980	708178	GOLD RIDGE	Gold Creek
Grapple Piling	39	1980	708178	GOLD RIDGE	Gold Creek
Shelterwood Seed	38	1981	750815	BLACKJACK BLOWDOWN	St. Joe Face
Shelterwood Seed	66	1981	707733	BERGE PEAK	Gold Creek
Sanitation Salvage	837	1981	708616	WHITETAIL HOUSELOG	Gold Creek
Planting	85	1981			Bruin Creek
Planting	87	1981			St. Joe Face
Planting	27	1981			Quartz Creek
Planting	180	1981	707220	UPPER QUARTZ	Quartz Creek
Planting	33	1981	750195	QUARTZ FIRE	Quartz Creek
Planting	17	1981			Gold Creek
Re-plant	133	1981			Bruin Creek
Re-plant	67	1981			St. Joe Face
Re-plant	57	1981			Quartz Creek
Re-plant	94	1981			Quartz Creek
Re-plant	255	1981			Gold Creek
Natural Regeneration	7	1981			Bruin Creek
Site Prep Burn	50	1981	707220	UPPER QUARTZ	Quartz Creek
Site Prep Burn	25	1981	707808	ADAMS CABIN	Quartz Creek
Site Prep Burn	5	1981			Gold Creek
Nat Regen Site Prep Mechanical	20	1981	707220	UPPER QUARTZ	Quartz Creek
Indirect Treatment	39	1981	708178	GOLD RIDGE	Gold Creek
Burn Grapple Piles	39	1981	708178	GOLD RIDGE	Gold Creek
Broadcast Burn	25	1981	707808	ADAMS CABIN	Quartz Creek
Broadcast Burn	5	1981	707733	BERGE PEAK	Gold Creek
Grapple Piling	3	1981	707808	ADAMS CABIN	Quartz Creek
Grapple Piling	35	1981	707733	BERGE PEAK	Gold Creek
Hand Piling	112	1981	708616	WHITETAIL HOUSELOG	Gold Creek
YUM	50	1981			Gold Creek
Sanitation Salvage	79	1982	750765	SHADY AREA SALVAGE	St. Joe Face
Planting	13	1982			St. Joe Face
Planting	161	1982	707220	UPPER QUARTZ	Quartz Creek
Planting	80	1982	750195	QUARTZ FIRE	Quartz Creek
Planting	25	1982	707808	ADAMS CABIN	Quartz Creek
Planting	79	1982			Gold Creek
Planting	25	1982	707733	BERGE PEAK	Gold Creek
Planting	35	1982	707436	GOLD SKYLINE	Gold Creek
Re-plant	103	1982			St. Joe Face
Re-plant	57	1982			Quartz Creek
Re-plant	15	1982	707220	UPPER QUARTZ	Quartz Creek
Re-plant	22	1982	750195	QUARTZ FIRE	Quartz Creek
Re-plant	130	1982			Quartz Creek
Re-plant	157	1982			Gold Creek
Natural Regeneration	84	1982			Quartz Creek
Natural Regeneration	33	1982			Quartz Creek
Natural Regeneration	220	1982			Gold Creek
Site Prep Burn	205	1982			Quartz Creek
Site Prep Burn	25	1982	707733	BERGE PEAK	Gold Creek
Site Prep Burn	43	1982	707436	GOLD SKYLINE	Gold Creek
Site Prep Mechanical	93	1982			Quartz Creek
Nat Regen Site Prep Mechanical	40	1982			Quartz Creek
Weed/Release Tree	34	1982			Gold Creek
Indirect Treatment	32	1982	707733	BERGE PEAK	Gold Creek
Burn Hand Piles	7	1982	707733	BERGE PEAK	Gold Creek
Burn Grapple Piles	3	1982	707808	ADAMS CABIN	Quartz Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Burn Grapple Piles	8	1982	707733	BERGE PEAK	Gold Creek
Broadcast Burn	25	1982	707733	BERGE PEAK	Gold Creek
Jackpot Burn	80	1982	750195	QUARTZ FIRE	Quartz Creek
Jackpot Burn	8	1982	707220	UPPER QUARTZ	Quartz Creek
Jackpot Burn	43	1982	707436	GOLD SKYLINE	Gold Creek
Understory Burn	117	1982	707220	UPPER QUARTZ	Quartz Creek
Grapple Piling	2	1982			Quartz Creek
Hand Piling	7	1982	707733	BERGE PEAK	Gold Creek
YUM	15	1982	707220	UPPER QUARTZ	Quartz Creek
Clearcut-Stand	24	1983	708186	ADAMS EAGLE	Quartz Creek
Shelterwood Seed	126	1983	707733	BERGE PEAK	Gold Creek
Sanitation Salvage	167	1983	751292	BRUIN BASIN SALVAGE	Bruin Creek
Planting	30	1983			Bruin Creek
Planting	13	1983	707279	HAGGERTY GULCH	Quartz Creek
Planting	22	1983			Gold Creek
Re-plant	30	1983			Bruin Creek
Re-plant	5	1983			St. Joe Face
Re-plant	136	1983			Quartz Creek
Re-plant	25	1983			Quartz Creek
Re-plant	290	1983			Gold Creek
Natural Regeneration	38	1983			St. Joe Face
Natural Regeneration	23	1983			Gold Creek
Site Prep Burn	24	1983	708186	ADAMS EAGLE	Quartz Creek
Site Prep Burn	4	1983			Gold Creek
Site Prep Burn	11	1983	707733	BERGE PEAK	Gold Creek
Nat Regen Site Prep Burn	38	1983	750815	BLACKJACK BLOWDOWN	St. Joe Face
Weed/Release Tree	10	1983			Gold Creek
PreComm Thin Trees	85	1983			Gold Creek
Indirect Treatment	13	1983			Gold Creek
Indirect Treatment	126	1983	707733	BERGE PEAK	Gold Creek
Burn Dozer Piles	12	1983	708186	ADAMS EAGLE	Quartz Creek
Burn Hand Piles	12	1983			Gold Creek
Burn Grapple Piles	15	1983	707220	UPPER QUARTZ	Quartz Creek
Burn Grapple Piles	2	1983			Quartz Creek
Burn Grapple Piles	126	1983	707733	BERGE PEAK	Gold Creek
Broadcast Burn	28	1983	708186	ADAMS EAGLE	Quartz Creek
Jackpot Burn	38	1983	750815	BLACKJACK BLOWDOWN	St. Joe Face
Jackpot Burn	11	1983	707733	BERGE PEAK	Gold Creek
Grapple Piling	64	1983	707733	BERGE PEAK	Gold Creek
Pile Landing	12	1983	708186	ADAMS EAGLE	Quartz Creek
Hand Piling	12	1983			Gold Creek
YUM	30	1983			Gold Creek
Clearcut-Stand	64	1984	750344	SHADY QUARTZ	Quartz Creek
Clearcut-Stand	254	1984	708186	ADAMS EAGLE	Quartz Creek
Clearcut-Stand	74	1984	707733	BERGE PEAK	Gold Creek
Shelterwood Seed	66	1984	750344	SHADY QUARTZ	Quartz Creek
Shelterwood Seed	12	1984	708186	ADAMS EAGLE	Quartz Creek
Seed Tree Seed	42	1984	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Shelterwood Removal	12	1984	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Single Tree Selection	200	1984	750013	ENTENTE BASIN	Quartz Creek
Sanitation Salvage	95	1984	750013	ENTENTE BASIN	Quartz Creek
Planting	67	1984	708186	ADAMS EAGLE	Quartz Creek
Re-plant	44	1984			Bruin Creek
Natural Regeneration	28	1984			Quartz Creek
Slashing	212	1984	708186	ADAMS EAGLE	Quartz Creek
Slashing	11	1984	751656	ADAMS PEAK	Quartz Creek
Site Prep Burn	38	1984	750344	SHADY QUARTZ	Quartz Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Site Prep Burn	42	1984	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Site Prep Burn	31	1984	708186	ADAMS EAGLE	Quartz Creek
Site Prep Burn	62	1984			Gold Creek
Site Prep Burn	71	1984	707733	BERGE PEAK	Gold Creek
Indirect Treatment	275	1984	750013	ENTENTE BASIN	Quartz Creek
Burn Grapple Piles	2	1984	750013	ENTENTE BASIN	Quartz Creek
Broadcast Burn	42	1984	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Broadcast Burn	31	1984	708186	ADAMS EAGLE	Quartz Creek
Broadcast Burn	74	1984	707733	BERGE PEAK	Gold Creek
Jackpot Burn	62	1984	707733	BERGE PEAK	Gold Creek
Understory Burn	38	1984	750344	SHADY QUARTZ	Quartz Creek
Grapple Piling	4	1984	750344	SHADY QUARTZ	Quartz Creek
Grapple Piling	1	1984	751425	ADAMS CEDAR SALVAGE	Quartz Creek
YUM	28	1984	750344	SHADY QUARTZ	Quartz Creek
Clearcut-Stand	54	1985	750344	SHADY QUARTZ	Quartz Creek
Clearcut-Stand	46	1985	751656	ADAMS PEAK	Quartz Creek
Shelterwood Seed	4	1985	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Shelterwood Seed	16	1985	707295	PEGLEG MOUNTAIN	Simmons Creek
Seed Tree Seed	48	1985	750344	SHADY QUARTZ	Quartz Creek
Seed Tree Seed	28	1985	751656	ADAMS PEAK	Quartz Creek
Sanitation Salvage	16	1985	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Sanitation Salvage	119	1985	752126	GOLD PEGLEG RESALE	Gold Creek
Sanitation Salvage	41	1985	752142	CONRAD HELICOPTER	Gold Creek
Planting	42	1985	707220	UPPER QUARTZ	Quartz Creek
Planting	55	1985	708186	ADAMS EAGLE	Quartz Creek
Planting	12	1985	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Planting	192	1985	707733	BERGE PEAK	Gold Creek
Slashing	74	1985	751656	ADAMS PEAK	Quartz Creek
Site Prep Burn	155	1985	750344	SHADY QUARTZ	Quartz Creek
Site Prep Burn	212	1985	708186	ADAMS EAGLE	Quartz Creek
Site Prep Burn	16	1985	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Site Prep Burn	11	1985	751656	ADAMS PEAK	Quartz Creek
Weed/Release Tree	16	1985			Quartz Creek
PreComm Thin Trees	135	1985			Gold Creek
Indirect Treatment	66	1985	707733	BERGE PEAK	Gold Creek
Burn Grapple Piles	28	1985	750344	SHADY QUARTZ	Quartz Creek
Burn Grapple Piles	8	1985	707733	BERGE PEAK	Gold Creek
Broadcast Burn	155	1985	750344	SHADY QUARTZ	Quartz Creek
Broadcast Burn	212	1985	708186	ADAMS EAGLE	Quartz Creek
Broadcast Burn	11	1985	751656	ADAMS PEAK	Quartz Creek
Understory Burn	4	1985	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Grapple Piling	2	1985	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Grapple Piling	1	1985	752142	CONRAD HELICOPTER	Gold Creek
YUM	3	1985	751656	ADAMS PEAK	Quartz Creek
Clearcut-Stand	83	1986	751938	EAST BRUIN	Bruin Creek
Clearcut-Stand	55	1986	751672	LOWER QUARTZ	Quartz Creek
Shelterwood Seed	33	1986	751938	EAST BRUIN	Bruin Creek
Seed Tree Seed	17	1986	707295	PEGLEG MOUNTAIN	Simmons Creek
Shelterwood Final	139	1986	751938	EAST BRUIN	Bruin Creek
Liberation	18	1986	751938	EAST BRUIN	Bruin Creek
Sanitation Salvage	5	1986	752142	CONRAD HELICOPTER	Bruin Creek
Planting	96	1986	750344	SHADY QUARTZ	Quartz Creek
Planting	157	1986	708186	ADAMS EAGLE	Quartz Creek
Planting	4	1986	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Planting	25	1986	751656	ADAMS PEAK	Quartz Creek
Planting	15	1986			Gold Creek
Planting	41	1986	707436	GOLD SKYLINE	Gold Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Re-plant	14	1986	707733	BERGE PEAK	Gold Creek
Natural Regeneration	128	1986			Bruin Creek
Slashing	107	1986	751938	EAST BRUIN	Bruin Creek
Site Prep Burn	11	1986	750344	SHADY QUARTZ	Quartz Creek
Site Prep Burn	3	1986	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Site Prep Burn	14	1986	751656	ADAMS PEAK	Quartz Creek
Nat Regen Site Prep Burn	31	1986	751938	EAST BRUIN	Bruin Creek
PreComm Thin Trees	48	1986			Quartz Creek
Burn Hand Piles	5	1986	752142	CONRAD HELICOPTER	Bruin Creek
Broadcast Burn	11	1986	750344	SHADY QUARTZ	Quartz Creek
Broadcast Burn	14	1986	751656	ADAMS PEAK	Quartz Creek
Understory Burn	3	1986			Quartz Creek
Grapple Piling	23	1986	751938	EAST BRUIN	Bruin Creek
Grapple Piling	1	1986	751672	LOWER QUARTZ	Quartz Creek
Hand Piling	5	1986	752142	CONRAD HELICOPTER	Bruin Creek
Hand Piling	5	1986	752142	CONRAD HELICOPTER	Gold Creek
Yarding	97	1986	751938	EAST BRUIN	Bruin Creek
Natural Abatement	12	1986	751425	ADAMS CEDAR SALVAGE	Quartz Creek
Shelterwood Seed	24	1987	750831	BRUIN TUMBLEDOWN	Bruin Creek
Shelterwood Seed	51	1987	750831	BRUIN TUMBLEDOWN	St. Joe Face
Seed Tree Seed	33	1987	750831	BRUIN TUMBLEDOWN	Bruin Creek
Planting	94	1987	751938	EAST BRUIN	Bruin Creek
Planting	11	1987	750344	SHADY QUARTZ	Quartz Creek
Planting	50	1987	751656	ADAMS PEAK	Quartz Creek
Slashing	57	1987	750831	BRUIN TUMBLEDOWN	Bruin Creek
Slashing	51	1987	750831	BRUIN TUMBLEDOWN	St. Joe Face
Site Prep Burn	83	1987	751938	EAST BRUIN	Bruin Creek
Site Prep Burn	55	1987	751672	LOWER QUARTZ	Quartz Creek
Site Prep Burn	32	1987	751656	ADAMS PEAK	Quartz Creek
Weed/Release Tree	35	1987	751938	EAST BRUIN	Bruin Creek
PreComm Thin Trees	33	1987			Quartz Creek
Indirect Treatment	101	1987	751938	EAST BRUIN	Bruin Creek
Burn Grapple Piles	23	1987	751938	EAST BRUIN	Bruin Creek
Broadcast Burn	83	1987	751938	EAST BRUIN	Bruin Creek
Broadcast Burn	32	1987	751656	ADAMS PEAK	Quartz Creek
Understory Burn	28	1987	751656	ADAMS PEAK	Quartz Creek
Grapple Piling	4	1987	750831	BRUIN TUMBLEDOWN	Bruin Creek
Pile Landing	38	1987	750831	BRUIN TUMBLEDOWN	St. Joe Face
Clearcut-Stand	21	1988	752662	NORTH RIVERFACE	St. Joe Face
Shelterwood Removal	260	1988	752472	GOLDEN AXE	Gold Creek
Shelterwood Final	123	1988	752472	GOLDEN AXE	Gold Creek
Sanitation Salvage	8	1988	752720	BRUIN BLOWDOWN	St. Joe Face
Planting	14	1988	750344	SHADY QUARTZ	Quartz Creek
Planting	55	1988	751672	LOWER QUARTZ	Quartz Creek
Re-plant	37	1988	750344	SHADY QUARTZ	Quartz Creek
Slashing	21	1988	752662	NORTH RIVERFACE	St. Joe Face
PreComm Thin Trees	52	1988			Quartz Creek
PreComm Thin Trees	49	1988			Gold Creek
Burn Dozer Piles	38	1988	750831	BRUIN TUMBLEDOWN	St. Joe Face
Burn Grapple Piles	4	1988	750831	BRUIN TUMBLEDOWN	Bruin Creek
Burn Grapple Piles	1	1988	750831	BRUIN TUMBLEDOWN	St. Joe Face
Broadcast Burn	55	1988	751672	LOWER QUARTZ	Quartz Creek
Grapple Piling	20	1988	752472	GOLDEN AXE	Gold Creek
Yarding	33	1988	752472	GOLDEN AXE	Gold Creek
Clearcut-Stand	15	1989	752662	NORTH RIVERFACE	St. Joe Face
Clearcut-Stand	21	1989	752373	EASY GOLD	Gold Creek
Shelterwood Seed	25	1989	752662	NORTH RIVERFACE	St. Joe Face

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Shelterwood Final	30	1989	752373	EASY GOLD	Gold Creek
Liberation	39	1989	752373	EASY GOLD	Gold Creek
Sanitation Salvage	60	1989	752373	EASY GOLD	Gold Creek
Planting	41	1989	750344	SHADY QUARTZ	Quartz Creek
Re-plant	130	1989	708186	ADAMS EAGLE	Quartz Creek
Slashing	15	1989	752662	NORTH RIVERFACE	St. Joe Face
Site Prep Burn	33	1989	751938	EAST BRUIN	Bruin Creek
Site Prep Burn	37	1989	750831	BRUIN TUMBLEDOWN	Bruin Creek
Douglas-fir Beetle Control	5628	1989			Quartz Creek
Indirect Treatment	369	1989	752472	GOLDEN AXE	Gold Creek
Understory Burn	33	1989	751938	EAST BRUIN	Bruin Creek
Understory Burn	24	1989	750831	BRUIN TUMBLEDOWN	Bruin Creek
Understory Burn	13	1989	750831	BRUIN TUMBLEDOWN	St. Joe Face
Lopping	129	1989	752373	EASY GOLD	Gold Creek
Grapple Piling	3	1989	752662	NORTH RIVERFACE	St. Joe Face
Grapple Piling	34	1989	752373	EASY GOLD	Gold Creek
Clearcut-Stand	8	1990	752662	NORTH RIVERFACE	St. Joe Face
Clearcut-Stand	26	1990	752993	SIMMONS BUGLE	Simmons Creek
Shelterwood Seed	13	1990	752662	NORTH RIVERFACE	St. Joe Face
Seed Tree Seed	67	1990	752993	SIMMONS BUGLE	Simmons Creek
Shelterwood Final	19	1990	752373	EASY GOLD	Gold Creek
Planting	33	1990	751938	EAST BRUIN	Bruin Creek
Planting	51	1990	750831	BRUIN TUMBLEDOWN	St. Joe Face
Planting	38	1990	750344	SHADY QUARTZ	Quartz Creek
Re-plant	68	1990			Quartz Creek
Re-plant	4	1990			Quartz Creek
Natural Regeneration	21	1990			Gold Creek
Slashing	22	1990	752662	NORTH RIVERFACE	St. Joe Face
Site Prep Burn	33	1990	750831	BRUIN TUMBLEDOWN	Bruin Creek
Site Prep Burn	10	1990	752662	NORTH RIVERFACE	St. Joe Face
Douglas-fir Beetle Control	1771	1990			Gold Creek
Broadcast Burn	10	1990	752662	NORTH RIVERFACE	St. Joe Face
Understory Burn	33	1990	750831	BRUIN TUMBLEDOWN	Bruin Creek
Lopping	19	1990	752373	EASY GOLD	Gold Creek
Grapple Piling	1	1990	752662	NORTH RIVERFACE	St. Joe Face
Burn Landing	20	1990	752472	GOLDEN AXE	Gold Creek
Clearcut-Stand	22	1991	750831	BRUIN TUMBLEDOWN	St. Joe Face
Clearcut-Stand	20	1991	752662	NORTH RIVERFACE	St. Joe Face
Clearcut-Stand	189	1991	752993	SIMMONS BUGLE	Simmons Creek
Shelterwood Seed	109	1991	750831	BRUIN TUMBLEDOWN	St. Joe Face
Shelterwood Seed	36	1991	752662	NORTH RIVERFACE	St. Joe Face
Shelterwood Seed	38	1991	753306	QUARTZ BEETLE	Quartz Creek
Seed Tree Seed	80	1991	750831	BRUIN TUMBLEDOWN	St. Joe Face
Seed Tree Seed	194	1991	752993	SIMMONS BUGLE	Simmons Creek
Seed Tree Seed	41	1991	753165	GOLDEN ROT	Gold Creek
Shelterwood Final	14	1991	752993	SIMMONS BUGLE	Simmons Creek
Sanitation Salvage	126	1991	750831	BRUIN TUMBLEDOWN	St. Joe Face
Sanitation Salvage	6	1991	753306	QUARTZ BEETLE	Quartz Creek
Special	69	1991	753322	RIVERFACE HELICOPTER	St. Joe Face
Special	37	1991	753322	RIVERFACE HELICOPTER	Gold Creek
Planting	33	1991	750831	BRUIN TUMBLEDOWN	Bruin Creek
Planting	138	1991	752662	NORTH RIVERFACE	St. Joe Face
Re-plant	55	1991	751672	LOWER QUARTZ	Quartz Creek
Re-plant	96	1991			Quartz Creek
Slashing	216	1991	750831	BRUIN TUMBLEDOWN	St. Joe Face
Slashing	20	1991	752662	NORTH RIVERFACE	St. Joe Face
Slashing	4	1991	753306	QUARTZ BEETLE	Quartz Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Slashing	3	1991	753165	GOLDEN ROT	Gold Creek
Site Prep Burn	128	1991	752662	NORTH RIVERFACE	St. Joe Face
Site Prep Burn	38	1991	753306	QUARTZ BEETLE	Quartz Creek
Site Prep Burn	19	1991	752373	EASY GOLD	Gold Creek
Weed/Release Area	30	1991	751938	EAST BRUIN	Bruin Creek
Weed/Release Area	20	1991	752373	EASY GOLD	Gold Creek
PreComm Thin Trees	13	1991			St. Joe Face
Douglas-fir Beetle Control	5044	1991			Gold Creek
Burn Hand Piles	5	1991	753306	QUARTZ BEETLE	Quartz Creek
Burn Grapple Piles	4	1991	752662	NORTH RIVERFACE	St. Joe Face
Broadcast Burn	54	1991	752662	NORTH RIVERFACE	St. Joe Face
Broadcast Burn	17	1991	752373	EASY GOLD	Gold Creek
Understory Burn	73	1991	752662	NORTH RIVERFACE	St. Joe Face
Understory Burn	38	1991	753306	QUARTZ BEETLE	Quartz Creek
Grapple Piling	62	1991	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Grapple Piling	17	1991	750831	BRUIN TUMBLEDOWN	St. Joe Face
Grapple Piling	2	1991	753322	RIVERFACE HELICOPTER	St. Joe Face
Grapple Piling	10	1991	753306	QUARTZ BEETLE	Quartz Creek
Grapple Piling	2	1991	753322	RIVERFACE HELICOPTER	Gold Creek
Hand Piling	44	1991	753306	QUARTZ BEETLE	Quartz Creek
Yarding	111	1991	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Clearcut-Stand	85	1992	753165	GOLDEN ROT	Gold Creek
Seed Tree Seed	69	1992	750831	BRUIN TUMBLEDOWN	Bruin Creek
Shelterwood Final	78	1992	753165	GOLDEN ROT	Gold Creek
Liberation	34	1992	753355	ENTENTE WYSSSEN	Quartz Creek
Sanitation Salvage	70	1992	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Sanitation Salvage	20	1992	753488	3 SPOT HELICOPTER	Bruin Creek
Sanitation Salvage	5	1992	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Planting	24	1992	750831	BRUIN TUMBLEDOWN	Bruin Creek
Planting	38	1992			Quartz Creek
Planting	29	1992	752373	EASY GOLD	Gold Creek
Re-plant	49	1992			Bruin Creek
Re-plant	10	1992			St. Joe Face
Animal Control for Reforestation	8	1992			Quartz Creek
Slashing	69	1992	750831	BRUIN TUMBLEDOWN	Bruin Creek
Slashing	2	1992	753165	GOLDEN ROT	Gold Creek
Site Prep Burn	139	1992	750831	BRUIN TUMBLEDOWN	St. Joe Face
Other Defoliator Control	1	1992			Bruin Creek
Burn Grapple Piles	2	1992	753322	RIVERFACE HELICOPTER	St. Joe Face
Broadcast Burn	20	1992	753322	RIVERFACE HELICOPTER	Bruin Creek
Broadcast Burn	49	1992	753322	RIVERFACE HELICOPTER	St. Joe Face
Broadcast Burn	37	1992	753322	RIVERFACE HELICOPTER	Gold Creek
Understory Burn	139	1992	750831	BRUIN TUMBLEDOWN	St. Joe Face
Lopping	1540	1992	753488	3 SPOT HELICOPTER	Bruin Creek
Lopping	2633	1992	753165	GOLDEN ROT	Gold Creek
Grapple Piling	69	1992	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Grapple Piling	4	1992	750831	BRUIN TUMBLEDOWN	Bruin Creek
Grapple Piling	1	1992	753488	3 SPOT HELICOPTER	Bruin Creek
Wildlife Burn	20	1992	753322	RIVERFACE HELICOPTER	Bruin Creek
Wildlife Burn	49	1992	753322	RIVERFACE HELICOPTER	St. Joe Face
Wildlife Burn	37	1992	753322	RIVERFACE HELICOPTER	Gold Creek
Yarding	70	1992	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Clearcut-Stand	117	1993	753355	ENTENTE WYSSSEN	Quartz Creek
Clearcut-Stand	20	1993	753165	GOLDEN ROT	Gold Creek
Shelterwood Prep	114	1993	753637	BLACK GOLD	Gold Creek
Shelterwood Prep	38	1993	753165	GOLDEN ROT	Gold Creek
Seed Tree Seed	18	1993	753637	BLACK GOLD	Gold Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Seed Tree Seed	123	1993	753165	GOLDEN ROT	Gold Creek
Shelterwood Final	198	1993	753165	GOLDEN ROT	Gold Creek
Shelterwood Final w/Reserves	71	1993	753637	BLACK GOLD	Gold Creek
Seed Tree Final w/ Reserves	18	1993	753637	BLACK GOLD	Gold Creek
Liberation	49	1993	753355	ENTENTE WYSSSEN	Quartz Creek
Special	5	1993	753637	BLACK GOLD	Gold Creek
Planting	211	1993	750831	BRUIN TUMBLEDOWN	St. Joe Face
Slashing	21	1993	753165	GOLDEN ROT	Gold Creek
Refo Enhancement Exam	8	1993			Quartz Creek
Site Prep Burn	55	1993	750831	BRUIN TUMBLEDOWN	St. Joe Face
Site Prep Burn	117	1993	753355	ENTENTE WYSSSEN	Quartz Creek
PreComm Thin Trees	14	1993			St. Joe Face
Burn Grapple Piles	9	1993	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Burn Grapple Piles	4	1993	750831	BRUIN TUMBLEDOWN	St. Joe Face
Broadcast Burn	22	1993	750831	BRUIN TUMBLEDOWN	St. Joe Face
Broadcast Burn	117	1993	753355	ENTENTE WYSSSEN	Quartz Creek
Understory Burn	33	1993	750831	BRUIN TUMBLEDOWN	St. Joe Face
Lopping	2168	1993	753637	BLACK GOLD	Gold Creek
Lopping	3655	1993	753165	GOLDEN ROT	Gold Creek
Grapple Piling	3	1993	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Grapple Piling	13	1993	753355	ENTENTE WYSSSEN	Quartz Creek
Grapple Piling	124	1993	753637	BLACK GOLD	Gold Creek
Yarding	5	1993	753512	BRUIN BEETLE SALVAGE	Bruin Creek
Yarding	536	1993	753637	BLACK GOLD	Gold Creek
Planting	117	1994	753355	ENTENTE WYSSSEN	Quartz Creek
Planting	18	1994	753637	BLACK GOLD	Gold Creek
Natural Regeneration	28	1994			Gold Creek
Refo Enhancement Exam	8	1994			Quartz Creek
Site Prep Burn	69	1994	750831	BRUIN TUMBLEDOWN	Bruin Creek
Site Prep Burn	48	1994	753165	GOLDEN ROT	Gold Creek
Nat Regen Site Prep Burn	7	1994	753165	GOLDEN ROT	Gold Creek
Burn Grapple Piles	4	1994	750831	BRUIN TUMBLEDOWN	Bruin Creek
Burn Grapple Piles	4	1994	753355	ENTENTE WYSSSEN	Quartz Creek
Burn Grapple Piles	6	1994	753637	BLACK GOLD	Gold Creek
Broadcast Burn	33	1994	753165	GOLDEN ROT	Gold Creek
Understory Burn	69	1994	750831	BRUIN TUMBLEDOWN	Bruin Creek
Understory Burn	22	1994	753165	GOLDEN ROT	Gold Creek
Sanitation Salvage	26	1995	753876	BEETLE JUICE SALVAGE	Quartz Creek
Planting	69	1995	750831	BRUIN TUMBLEDOWN	Bruin Creek
Planting	181	1995	753165	GOLDEN ROT	Gold Creek
Re-plant	20	1995	752662	NORTH RIVERFACE	St. Joe Face
Site Prep Burn	94	1995	753165	GOLDEN ROT	Gold Creek
Weed/Release Tree	26	1995	753637	BLACK GOLD	Gold Creek
PreComm Thin Trees	14	1995			St. Joe Face
Burn Grapple Piles	3	1995	753637	BLACK GOLD	Gold Creek
Broadcast Burn	20	1995	753165	GOLDEN ROT	Gold Creek
Understory Burn	41	1995	753165	GOLDEN ROT	Gold Creek
Understory Burn	33	1995	753165	GOLDEN ROT	Gold Creek
Grapple Piling	18	1995	753637	BLACK GOLD	Gold Creek
Yarding	26	1995	753876	BEETLE JUICE SALVAGE	Quartz Creek
Planting	134	1996	753165	GOLDEN ROT	Gold Creek
Re-plant	39	1996			St. Joe Face
Refo Enhancement Exam	8	1996			Quartz Creek
Stem Rust Control	91	1996			Quartz Creek
Stem Rust Control	107	1996			Gold Creek
Re-plant	117	1997	753355	ENTENTE WYSSSEN	Quartz Creek

DESCRIPTION	ACRES	YEAR	CONTRACT #	SALE NAME	Drainage
Weed/Release Tree	42	1997	753637	BLACK GOLD	Gold Creek
PreComm Thin Trees	42	1997	753637	BLACK GOLD	Gold Creek
Stem Rust Control	57	1997			Gold Creek
Seed Tree Seed w/Reserves	129	1998	754130	BEETLEMANIA	Gold Creek
Sanitation Salvage	33	1998	754130	BEETLEMANIA	Gold Creek
Planting	40	1998	753637	BLACK GOLD	Gold Creek
Re-plant	20	1998	753165	GOLDEN ROT	Gold Creek
Slashing	58	1998	754130	BEETLEMANIA	Gold Creek
PreComm Thin Trees	122	1998			Quartz Creek
Stem Rust Control	128	1998			Quartz Creek
Stem Rust Control	110	1998			Gold Creek
Pile Landing	11	1998	754130	BEETLEMANIA	Gold Creek
Yarding	154	1998	754130	BEETLEMANIA	Gold Creek
Planting	118	1999	754130	BEETLEMANIA	Gold Creek
Site Prep Mechanical	8	1999	754130	BEETLEMANIA	Gold Creek
Control of Understory Veg Other	38	1999	750831	BRUIN TUMBLEDOWN	St. Joe Face
Understory Burn	156	1999	754130	BEETLEMANIA	Gold Creek
Yarding	8	1999	754130	BEETLEMANIA	Gold Creek
Burn Landing	11	1999	754130	BEETLEMANIA	Gold Creek
Natural Changes	47	2000			Gold Creek
Weed/Release Tree	22	2000			Quartz Creek
Stem Rust Control	74	2000			Quartz Creek
Re-plant	105	2001	754130	BEETLEMANIA	Gold Creek
Stem Rust Control	140	2001			Quartz Creek
Stem Rust Control	480	2001			Gold Creek
Stem Rust Control	600	2002			Gold Creek
Stem Rust Control	89	2003			Quartz Creek
Stem Rust Control	277	2003			Gold Creek
Stem Rust Control	77	2004			Bruin Creek
Stem Rust Control	178	2004			St. Joe Face
Stem Rust Control	420	2004			Quartz Creek
Stem Rust Control	344	2004			Gold Creek