

BACKGROUND INFORMATION

for

Kootenay-Boundary Region

***Strategies for Cooperative Extension and Research
in the Southern Interior***

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Table of Contents

1.0 Introduction.....	1
2.0 Objectives.....	1
3.0 Regional History	1
3.1 Aboriginal history	1
3.2 European contact and exploration	1
3.3 Resource development	2
4.0 Representative Ecosystems	2
5.0 Demographic Information	3
5.1 Geographic distribution in the region	3
5.2 Population Statistics.....	4
5.3 First Nations Interests	5
6.0 Economy.....	6
6.1 Primary and secondary	6
6.2 Main industries and employers	6
6.3 Value Added	9
6.4 Unemployment rate.....	9
7.0 Economic and Social Trends.....	10
7.1 Changes in Primary Employers	10
7.2 Self-employment.....	13
7.3 Community Role in Resource Management.....	13
8.0 List of Research Projects in the Nelson Forest region.....	14

List of Tables

Table 1. Ecosections of the Nelson Forest Region.....	3
Table 2. Major communities in each of the Regional Districts of the Nelson Forest Region	4
Table 3. 1997 Geographic Population Distribution in Region	4
Table 4. Population growth and migration	4
Table 5. Aboriginal Identity as a Percentage of Regional Population in 1996	5
Table 6. Percentage of Workforce in the Various Employment Sectors - 1996.	6
Table 7. Main employers in the Nelson Forest Region	7
Table 8. Income sources by sector	8
Table 9. Unemployment rate in last quarter of 1997 for individuals aged 19-64 years ...	9
Table 10. Self employment rates for Regional Districts.	13
Table 11. Number of projects for each research group	14

Appendices

- Appendix I Descriptions of Ecosystems Occurring in the Nelson Forest Region
- Appendix II List of Research Projects Initiated in the Nelson Forest Region

1.0 Introduction

The Southern Interior Forest Extension and Research Partnership (SIFERP) has a mandate to provide extension services to partners in the natural resources sector within the southern interior of BC. Goals of SIFERP include identifying information needs, and providing extension and research based on these requirements. To date, broad information and extension needs have been identified. The next step is to identify specific requirements for each region, which will be determined in upcoming workshops. Workshop objectives include identifying knowledge gaps, identifying ecosystems where these gaps occur, identifying efficient organizations to facilitate knowledge development and extension, and to identify financial estimates for implementation.

2.0 Objectives

The objective of this report is to provide a summary of background for the Nelson Forest Region (NFR) workshop. This information includes: Regional History, Representative Ecosystems, Demographic Information, Economy, Economic and Social Trends, and List of Research Projects. The information will provide a framework to evaluate knowledge gaps that are identified during the workshop. That is, to determine if new information is needed to fill these gaps or if knowledge exists and only requires extending.

Information for the first five sections was obtained from the East Kootenay Land Use Plan (EKLUP) (Anon. 1995a), the West Kootenay-Boundary Land Use Plan (KBLUP) (Anon. 1995b), Quesnel and Thiessen (1993), Braumandl and Curran (1992), and various district Timber Supply Area Discussion Papers (1994a-e, 1995a,b). Various sources were contacted to assemble the list of research projects and are listed in appropriate tables.

3.0 Regional History

3.1 *Aboriginal history*

First Nations people have inhabited the area within the NFR since the Ice Age. They used the entire area for hunting and gathering, travelling as seasons changed to best utilize the various resources. Caribou, elk, mountain sheep and deer were hunted during the spring to late summer. Waterfowl were hunted in the fall along the Kootenay and Duncan Rivers. Ice fishing provided an important winter food. Roots plants and berries were gathered for food as well as for medicinal and ceremonial purposes. Silica and tourmaline were mined for tool making.

3.2 *European contact and exploration*

In the early 1800's European explorers entered the area. David Thompson explored the Columbia and Kootenay Rivers searching for fur trading territories and passages to the Pacific Ocean. In the late 1800's the era of mineral exploitation predominated when gold was discovered in the East Kootenay area. The mining industry escalated with the building of two transcontinental railroads, the CPR at Golden and Revelstoke, and another line south of the Canadian border. Discoveries of copper, lead, silver, gold and

zinc lead to the establishment of several communities: Nelson, Rossland, Ainsworth, Slocan, Kimberley and Moyie. Significant coal discoveries lead to the settlement of the Crowsnest valley. One-fifth of B.C.s population resided in the East and West Kootenay's during this era.

3.3 Resource development

In the early 1900's the economy began to diversify. The forest industry developed with the construction of settlements and expansion of the railroads as the mining industry continued to grow. The forest industry increased in nearly every mining community with wood being shipped as far as to the prairies. As the industry continued to develop and demand grew, mechanization within the industry began. Partial cutting using horses evolved to machines and clearcutting. Pulp mills were built near Castlegar (1950's) and Skookumchuk (1960's). By the 1970's most valleys were roaded. The forest industry had become the predominate industry throughout the region.

As the population escalated so did demand for food, and the agriculture industry developed. Valley bottoms around Kootenay and Arrow Lakes, and the Grand Forks area, were valuable for growing orchard fruits, grain and berries, and for dairy cattle. Rangeland for beef cattle was abundant, especially in the East Kootenay area as clearcutting and fire opened areas for forage production.

The tourism industry developed early in the East Kootenay area following the establishment of Yoho and Glacier National Parks in 1886, and Radium Hot Springs in 1920. Guide-outfitting attracted Europeans and Americans to the East Kootenay area due to the diversity and abundance of wildlife. More recently, heli-skiing was originated in the East Kootenay area.

Hydro-electric projects, including the Columbia River Project, Arrow, Revelstoke and Duncan Reservoirs, have contributed to provincial economy but have resulted in the flooding of prime wildlife habitat, as well as forest and agricultural lands.

4.0 Representative Ecosystems

The Nelson Forest Region is generally mountainous with deep valleys with large lakes and reservoirs. The West Kootenay area is an interior wetbet (moist and wet climatic regions) consisting of three north-south mountain ranges: Selkirks, Purcells, Monashees. This unique coastal environment occurs no where else in North America. It affects habits of certain wildlife species in that they behave as if habituating at the coast. Examples include mountain goats over-wintering at low elevations rather than in the alpine; and caribou over-wintering in subalpine forests feeding on arboreal lichens.

The East Kootenay area is dominated by the Rocky Mountain Trench and the Rocky Mountains. Summers are in general hot and dry as the Columbia Mountains to the west act as a barrier to moist pacific air. Winters are cold as the Trench can funnel and hold Arctic air from the north and east.

There are 110 ecosections in B.C. each having differences in physiographic, climatic and oceanographic characteristics. Fourteen ecosections occur in the NFR. The following lists each of these ecosections, associated biogeoclimatic sequences and approximate forest districts¹. Detailed descriptions in regard to location, terrain and important wildlife habitats are in Appendix I.

Table 1. Ecosections of the Nelson Forest Region.

<i>Ecosection</i>	<i>Climatic Region</i>	<i>Associated Forest Districts</i>	<i>Biogeoclimatic Zones</i>
Northern Columbia Mountains	Wet	Revelstoke, Golden, Kootenay Lake	ICH, ESSF, AT (largest BEC)
Central Columbia Mountains	Moist	Kootenay Lake, Arrow, (Cranbrook)	ICH, ESSF, AT (largest unit)
Northern Okanagan highlands*	Dry	Boundary	IDF, MS, ESSF
Selkirk Foothills*	Moist	Boundary, Arrow	ICH, ESSF, (IDF)
Southern Columbia Mountains*	Moist	Kootenay Lake	ICH, ESSF some AT
McGillivray Range*	Dry	Cranbrook	IDF, MS, ESSF (AT) (ICH)
South Okanagan Highlands	Dry	Boundary	PP, IDF, MS
Eastern Purcell Mountains	Dry	Invermere	IDF, MS, ESSF, AT, some ICH
Crown of the Continent	Dry	Cranbrook	MS, ESSF, AT
Border Ranges	Dry	Cranbrook	MS, ESSF, AT
Southern Park ranges	Dry	Invermere, Golden	MS, ESSF, AT
Central Park Ranges	Moist	Golden	ICH, ESSF, AT
Big Bend Trench*	Moist	Golden	ICH
East Kootenay Trench*	Dry	Cranbrook, Invermere, Golden	PP, IDF, MS, ICH

* Identified as having <1% in protected areas

(Sources: EKLUP, KBLUP, Quesnel and Theissen 1993, Braumandl and Curran 1992)

It was recognized during regional land use planning initiatives that some of these ecosections have <1% in protected areas (Table 1). Concerns were raised that this may lead to loss of connectivity within the landscape, affecting genetic exchange and migration patterns.

5.0 Demographic Information

5.1 Geographic distribution in the region

Demographic information was obtained from BC STATS, Ministry of Finance and Corporate Relations. Summaries are available for the various Regional Districts (RD) in B.C. Table 2 lists major communities in the various RDs within the Nelson Forest Region contain these communities:

¹ Although Golden and Revelstoke have recently been combined into the Columbia Forest District, for the purposes of this report they are treated separately as most references are older and therefore also treat them separately.

Table 2. Major communities in each of the Regional Districts of the Nelson Forest Region

<i>Regional District</i>	<i>Communities</i>	<i>Forest Districts</i>
East Kootenay	Radium, Invermere, Elkford, Sparwood, Fernie, Cranbrook	DIN, DCR
Central Kootenay	Nakusp, Kaslo, Nelson, Creston, Castlegar, Salmo, Slocan	DAR, DKL
Kootenay Boundary	Midway, Grand Forks, Rossland, Trail, Fruitvale	DBO, DAR
Columbia Shuswap ²	Golden, Revelstoke, Sicamous, Salmon Arm	DGO, DRE

(Source: BC STATS)

Population is fairly evenly distributed throughout the various RDs (Table 3) though may be concentrated within major centers within a district. For example, ninety percent of the population in the Revelstoke Forest District is in the city of Revelstoke; and 67% of the population in the Golden Forest District is concentrated in Golden. Population densities are well below the provincial average except in the RD of Kootenay Boundary. The RD of East Kootenay has the greatest proportion of urban dwellers, while the RD of Central Kootenay has a greater rural population.

Table 3. 1997 Geographic Population Distribution in Region

<i>Regional District</i>	<i>Total Population</i>	<i>% of B.C.</i>	<i>% in Major Centers</i>	<i>Population Density (persons/km²)</i>
East Kootenay	59 122	1.5	70.3	2.1
Central Kootenay	60 725	1.5	45.6	2.6
Kootenay Boundary	33 986	0.9	66.7	4.3
Columbia Shuswap	50 765	1.3	61.4	1.7
B.C. Total	3 933 273	-	-	4.4

(Source: BC STATS)

5.2 Population Statistics

Population in the NFR declined through the 1980's, but now there is a general increase of 1 to 2% per year that is forecasted to continue to the year 2011. Population growth and migration into this region have been steady but below provincial averages (Table 4). In fact, population growth rates in the Kootenay Boundary are the lowest in the province.

Table 4. Population growth and migration

<i>Regional District</i>	<i>Population Growth (%)</i>		<i>Migration (%)</i>	
	<i>1996 Growth</i>	<i>10 Year Average</i>	<i>1996 Migration</i>	<i>10 Year Average</i>
East Kootenay	2.4	1.4	0.7	0
Central Kootenay	2.0	2.0	1.3	1.5
Kootenay Boundary	1.1	1.1	0.5	0.8
Columbia Shuswap	2.5	2.8	1.0	1.2
B.C. Average	2.2	2.9	1.6	1.7

(Source: BC STATS)

Increases in 1996 population growth and migration rates occurred in the East Kootenay area, but declined elsewhere. Part of the reason for this increase is due to rapid growth in the Invermere area. Other areas of this RD have experienced population declines

² The Regional District of Columbia Shuswap includes Salmon Arm and Sicamous which are not part of the Nelson Forest Region. These communities are included in the various statistics.

over the last decade due to job losses at the Sullivan Mine in Kimberley and mine closures in the Elk Valley. Although 1996 rates are slightly down throughout most of the region it is expected that there will be a continual influx of people, especially from the large cities in Alberta and BC, in search of a different lifestyle or a retirement home.

Age structures and predicted trends are much the same throughout the region and compare to provincial averages. There is a predicted decline in the proportion of the population aged 0 to 17 years of approximately 4%. There is a predicted average increase in the proportion of people aged 25 to 64 years of 2% to approximately 54%, and a predicted increase in the 65+ group of 2% to approximately 16%. Proportions within the 18 to 24 year group do not change significantly.

5.3 First Nations Interests

First Nations representation in the NFR is relatively small, especially in the RD of Kootenay Boundary, as compared to the provincial average (Table 5). As a comparison, First Nations people account for 55.6% and 40.3% of the population in the RDs of Central Coast and Stikine, respectively. Within the NFR there are approximately 5000 First Nations people. The majority reside in the East Kootenay area while few reside in the Kootenay Boundary area.

Table 5. Aboriginal Identity as a Percentage of Regional Population in 1996

<i>Regional District</i>	<i>% Aboriginal Identity</i>
East Kootenay	3.8
Central Kootenay	2.3
Kootenay Boundary	1.6
Columbia Shuswap	2.3
B.C. Total	3.8

(Source: BC STATS)

The First Nations people in the NFR include the Ktunaxa, Shuswap and Okanagan Nations. All First Nations communities are affiliated with the Ktunaxa-Kinbasket Tribal Council. Their traditional territories overlap, covering 100% of the region. In the West Kootenay/ Boundary area, 246 heritage sites have been documented, 9 are of high value while the remaining are of medium value. It is recognized that this inventory represents only a portion of a larger total.

The Ktunaxa-Kinbasket Tribal Council participated in CORE only as an observer, in part due to lack of technical capacity to respond to the various reports. Their response at conclusion of regional table meetings included the opinion that land jurisdiction must be first negotiated in the treaty process. They expressed the concern that CORE did not recognize them as a third order of government, rather as an interest group.

6.0 Economy

6.1 Primary and secondary

At present in the NFR, the major contributors to the economy are forestry, agriculture, tourism, mining and hydroelectric production. Primary industries (i.e., forestry) are important to the employment base (Table 6).

Table 6. Percentage of Workforce in the Various Employment Sectors - 1996.

<i>Regional District</i>	<i>Primary</i>	<i>Goods</i>		<i>Services</i>	
		<i>Manufacturing</i>	<i>Construction</i>	<i>Non-Gov't</i>	<i>Gov't</i>
East Kootenay	16.9	7.7	7.6	62.7	4.9
Central Kootenay	10.1	10.6	8.8	65.3	5.3
Kootenay Boundary	8.7	19.2	6.3	61.9	3.9
Columbia Shuswap	11.5	11.3	9.0	64.0	4.3
B.C. Total	5.7	10.4	7.5	70.6	5.9

(Source: BC STATS)

The percentage of the workforce employed by the primary manufacturing sector is typically two times greater in the NFR than the provincial average. This sector employs, in fact, three times more of the total workforce in the RD of East Kootenay due to the high volume of mineral and forest processing. The manufacturing sector in the RD of Kootenay Boundary employs nearly two times more of the total workforce than the provincial average, and the other RDs of the interest area.

6.2 Main industries and employers

6.21 Breakdowns by industry

In the NFR the forest industry contributes 8630 full-time jobs valued at \$347 million employment income. Twelve percent of the regional labor force is employed in forestry, while 24% and 15% in the Cariboo and on the Island are employed in forestry, respectively. This compares to the provincial average of 6%.

Most of the main employers are within the forest industry (Table 7). Forestry is the dominant employment source in all districts except Cranbrook and Invermere where mining and tourism predominate, respectively (Table 8). Even in these districts forestry is important to local economies.

Table 7. Main employers in the Nelson Forest Region

<i>District</i>	<i>Main Employers</i>	<i>Other Employers</i>
DBO	Pope and Talbot Ltd. In Grand Forks and Midway; Canpar particle board plant	
DAR	Cominco Smelter in Trail; Celgar Pulp Mill, Pope and Talbot Ltd. sawmill near Castlegar and Nakusp; Slocan Forest Products	Several small sawmills, Cedar shake and shingle mills, Veneer plant
DKL	2 sawmills at Creston (JH Huscroft Ltd., Wynndel Box and Lumber Co. Ltd.), 1 at Meadow Creek (Meadow Creek Cedar)	Dolomite quarries by Crawford Bay; Granite quarries Sirdar; Flagstone quarry near Salmo
DCR	Sullivan Mine at Kimberley; 5 coal mines in Elk Valley; Crestbrook Forest Industries Ltd, Elko and Cranbrook; Galloway Lumber Company, Jaffray	Wood preserving plant, Cedar pole operation
DIN	Slocan Forest Products in Radium Hot Springs, Crestbrook Forest Industries in Canal Flats; Pulpmill at Skookumchuk	Several small mills and value-added operations
DGO	Evans Forest Products	
DRE	Downie, Wood River Forest Inc., 2 cedar shake/shingle, pole yard	Goldstream mine; Revelstoke and Mica dams

(Sources: KBLUP, EKLUP, TSR Discussion Papers)

Agriculture is also an important contributor to economies in the Grand Forks/Greenwood, Creston and East Kootenay Trench areas. Beef ranching is the largest agricultural industry except in the Creston area where fruit and crops are abundant. There are 80 to 90 ranchers grazing livestock on Crown Land in the West Kootenay/Boundary area and 150 to 200 in the East Kootenay area. The combined gross production value is \$11 million.

Mining provides an important income base in much of the East Kootenay area as well as in the communities near Trail. Mining of precious metals, industrial mining and coal mining occurs in the East Kootenay area. In the Trail/Rossland area, the Cominco Smelter is the leading income source.

Tourism is a growing sector in all areas of the region. It has become a diverse, year round industry. In 1989 non-BC residents spent \$198 million in the East and West Kootenay's combined. BC residents who live outside the Kootenays spent an additional \$190 million. This includes money spent on accommodation, food, transportation, retail purchases, fishing, boating, and nature viewing. There are 2300 jobs generated in the East Kootenay area alone from tourism activities.

Table 8. Income sources by sector

District	Industrial Sectors				Non-Industrial Sectors (Pension, Investment, Employ. Ins., gov't, etc)
	Forestry	Agriculture	Mining	Tourism	
DBO	35	4	3	6	52
DAR	45	1	1	5	48
DKL	22	7	3	7	51
DCR	13	2	27	8	50
DIN	22	3	5	33	37
DGO	50	1	2	15	33
DRE	30	0	8	9	53

(Source: TSR Discussion Papers)

6.22 Economic Diversity Within Districts

The most diverse economies are in the districts of Cranbrook, Revelstoke, Kootenay Lake and Invermere (Table 8). In the Cranbrook district mining provides the majority of employment opportunities, however, forestry, tourism, and agriculture are also important. The government service sector also provides ample employment opportunities. Mining itself is diverse, with opportunities in precious metals (Purcells) to industrial minerals (edge of Rockies) to coal (Elk and Flathead Valleys). Mining employed 3130 people in 1993 providing \$158 million wage income. The East Kootenay area is internationally known for the abundance and diversity of wildlife. There are 33 guide-outfitters in the area and it is estimated nearly 300 jobs depend on viable wildlife populations. Recreation and ranching values are also very high.

The Revelstoke area also benefits from having a diverse economy. Forestry accounts for 30% of all income while rail transportation services, the government sector, and tourism industry account for 20%, 31% and 9%, of all income, respectively. Also, the Goldstream copper-zinc mine employs up to 140 people on a full-time basis.

In the Kootenay Lake Forest District, pensions account for 25% of all income. This is followed by forestry, which is the leading industrial sector, and contributes 22% of all income. Agriculture, tourism, and mining account for 7%, 7% and 3% of all income, respectively. The Creston economy is especially diversified with a brewery, forestry, and agriculture (fruit, field crops, forage production, dairy, livestock). It is also a popular retirement destination and has the highest proportion of people over 65 years old in the entire region.

Tourism employs the most people in the Invermere Forest District however more income is generated in forestry (22% vs. 16%).

The economies in the districts of Boundary, Arrow and Golden are the most dependent of forestry. Three of four of the largest employers in the Boundary district are forestry related. Pensions account for 20% of the income sources while investments account for an additional 12% of income sources. Industrial mining of Dolomite quarries by Rock Creek and Granite quarries near Beaverdell provide additional income sources.

Forestry contributes 45% of all income generated in the Arrow district, followed by pensions (17%), investment (10%), Employment Insurance (8%), tourism (5%); agriculture and mining contribute 1% each. The communities of Trail and Rossland are highly dependent on the Cominco Smelter in Trail which employs 1850 people.

The economy in Golden is the least diverse, depending on forestry (in fact, only one forest company) for most employment income.

6.3 Value Added

There are approximately 25 primary value-added operations in the region with products that include shingles, flooring, specialty boards, mouldings and panelling. These operations provide 529 full-time and 85 part-time jobs and generate a combined gross revenue exceeding \$19 million. The largest value-added operation is the Canpar particle board plant in Grand Forks. In addition there are 75 secondary value-added operations with products that include toys, canoes, sleighs, furniture, trusses, and carved artwork. These typically small businesses provide income for 138 full-time and 54 part-time employees.

The value-added sector in this region is considered underdeveloped as compared to rest of province accounting for only 5% of all provincial value-added operations.

Barriers to expansion for this industry in this region include:

- limited marketing ability
- limited opportunities within the Small Business Forest Enterprises Program
- less compatible wood handling and sorting procedures
- limited access to secure wood supplies
- lack of wood availability policies for value-added operations
- competition especially with Okanagan companies

6.4 Unemployment rate

The unemployment rate for the NFR is generally higher than the provincial average (Table 9). During last three years there has been a general downward trend in unemployment rates for the entire province. However, the trend in Kootenay Region has been increasing. In 1997, only the Cariboo Region had a higher rate of unemployment.

Table 9. Unemployment rate in last quarter of 1997 for individuals aged 19-64 years

<i>Regional District</i>	<i>Rate</i>
East Kootenay	4.8
Central Kootenay	5.9
Kootenay Boundary	4.5
Columbia Shuswap	7.2
B.C. Total	4.2

(Source: BC STATS)

7.0 Economic and Social Trends

7.1 Changes in Primary Employers

As a result of changing economic conditions and social interests, primary employers within the NFR have also been shifting. Where economies were traditionally resource-based, now service-based sectors are growing. Up trends in the economy are expected due to growth in tourism and recreation, growing business infrastructure as a result of immigration (including retirees), the Columbia Treaty Downstream Benefits Agreement, modernization of the Cominco Smelter, and the upgrading of hydroelectric facilities. The growing diversity in economies should enable many communities to adjust over time to a challenged forest industry.

7.11 Forestry

Several issues and initiatives are decreasing employment opportunities within the forest industry in this region. Reductions in AAC as a result of TSR, CORE, Protected Areas Strategy (PAS) and the Forest Practices Code (FPC) is the main force behind change in the economy. In the West Kootenay Boundary area, the forecasted falldown will represent 328,000m³ or 7% of the total AAC. It is estimated this could impact 400 jobs. In East Kootenay Districts long-term reductions in AAC will be approximately 30% which will have significant impacts on the economy (800 jobs). It is estimated that there is one 'indirect job' lost for every 2 forestry jobs lost, representing nearly \$20 million lost income, \$11.5 million lost provincial revenue and \$5.8 million lost federal revenue. Strategies are being developed to reduce the impact on job loss and include impact phase in, increasing intensive forestry management, developing the value-added sector and improving industry automation to allow more efficient use of available wood.

Specific issues or trends identified during TSR that may affect growth in the industry include:

- DCR, DIN, DBO - nearly half of species is PI; much of which is becoming susceptible to mountain pine beetle attack
- DCR - irregular age distribution (large areas under 20 years; little old growth)
- DIN - irregular age distribution; 57% over 81 years
- DRE - 49% of management land base is over 200 years old
- 80% in DAR and 41% in DKL of timber harvesting land base is within licensed domestic watersheds
- 40% in DAR and 33% in DKL of timber harvesting landbase is visible from communities, highways, lakes
- In DAR and DKL clearcutting most common; public pressure to do more partial cutting
- DBO - heavy competition from Okanagan mills for timber from TSA
- DGO - highly reliant on forest industry and only one company, resulting in unstable economy

Prior to the closing of the Kootenay Forest Products mill in the 1980's, Nelson was very dependent on the forest industry. Since then the economy has diversified and grown,

and now provides more services and has a highly developed business infrastructure. In Revelstoke, following the completion of the hydro-electric projects, the economy weakened and population declined. The community responded by purchasing a TFL and forming the Revelstoke Community Forest Corporation. Recent social demand for community control of forest resources has led to the establishment of two Community Forests in Kaslo and Creston.

7.12 Mining

The long-term market demand for metals (gold, silver, copper, zinc) likely will result in growth in this industry. Continued exploration has identified numerous areas with high mineral potential. There are also several inactive mines that can be re-opened as prices improve. Growth in mining will depend on metal prices, value of Canadian dollar, the taxation environment in BC, and land use decisions. During the CORE process no existing or proposed mines were identified in new Protected Areas. However, 400 mineral claim units (3% of total) are located in new Protected Areas.

Specific issues or trends affecting growth in this industry include:

- Sullivan Mine (Kimberley) scheduled to close early part of next century
- Slow growth in restructuring Elk Valley coal mines expected as markets re-establish
- Extensive coal reserves in Elk Valley
- Potential exists to expand industrial mining in DKL and DBO
- Trail is diversifying from high dependency on Cominco to the small business sector

7.13 Agriculture

Cattle ranching has been a relatively stable industry experiencing little change in volume over the last three decades. The major constraint is summer grazing opportunities with Crown range availability being critical for viability of most operations. Specific issues affecting this industry include conifer ingrowth reducing available forage, conflicts with wildlife user groups, and the impact of the FPC, CORE (primarily related to riparian protection and biodiversity). One initiative to address many of these concerns is Trench Ecosystem Rehabilitation Plan.

7.14 Tourism

The expected growth rate in employment and revenue in the tourism industry is very positive. A significant positive trend is expected for all areas of the region due to quality of scenery values, wildlife values, and range of recreation opportunities and tourism services. The range of tourism and recreation opportunities has increased to develop this sector into a year round industry. In Golden, tourism is becoming increasingly important for economic diversification and in Revelstoke, tourism is the fastest growing industry. The economy of Nakusp has been heavily dependent on forestry though is now diversifying to attract more tourism income.

Continued growth will require maintaining of scenic values. Over one-third of the timber management areas in Arrow and Kootenay Lake timber supply areas is visible from communities, highways and lakes. Continued access on Crown Lands, and development of tenure system for tourism operations is also required. At present there is a general lack of tenure system for most back country operators and a lack of control by operator to ensure the setting will not be compromised. Viability and continued growth in this industry depends on the quality of resource management.

Maintaining wildlife values is important, among other reasons, for protecting the growing tourism industry. Invermere and Cranbrook districts contain some of the highest value ungulate (deer, elk) winter range. Much of this winter range is adjacent to diverse summer habitats. Negative pressures on ungulate populations include forage competition with cattle, conifer ingrowth into range lands, habitat loss to other land uses, and urban/rural expansion.

Mountain caribou populations are declining due to over-hunting and habitat loss, specifically loss of old growth and poor connectivity between habitats and other caribou herds. Critical winter range for caribou is in the forest districts of Kootenay Lake, Arrow, Golden and Revelstoke.

There are approximately 2000 grizzly bears in the NFR. Harvesting can impact populations by reducing riparian habitats, decreasing landscape connectivity, increasing road access, reducing cover, and decreasing shrub succession.

7.2 Self-employment

The provincial average (1996) for the proportion of the total workforce that was self employed was 14.5%. This compares to the entire Kootenay Region average of 15.5%. On a RD basis, self employment is especially prominent in the Central Kootenay's and Columbia Shuswap regions (Table 10).

Table 10. Self employment rates for Regional Districts.

<i>Regional District</i>	<i>% Self Employed</i>
East Kootenay	13.6
Central Kootenay	17.9
Kootenay Boundary	14.8
Columbia Shuswap	19.3
B.C. Average	14.5

(Source: BC STATS)

7.3 Community Role in Resource Management

With increased competition between various land use options and a shift in social values, the role of public participation in resource management has changed. Opposition to harvesting resulted in the establishment of Valhalla Park, the Purcell Wilderness Conservatory and Fry Creek Canyon Recreation Area in the mid 1970's and early 1980's. More recently, conflicts regarding resource management in the Slokan Valley, West Arm, White Grizzly, Granby and Gladstone areas have led to the development of watershed committees and regional coalitions (i.e., Slokan Valley Watershed Alliance, West Arm Watershed Alliance, Granby Watershed Coalition).

This led to stakeholder-based planning processes including Integrated Watershed Management Plans, Local Resource Use Plans, Coordinated Resource Management Plans each allowing for varying degrees of public participation. Larger scale regional plans were then required to provide a 'higher level' plan for the various sub-regional plans. In the Nelson Forest Region, two such plans were developed within the CORE process: the East Kootenay Land Use Plan and the West Kootenay-Boundary Plan.

Within these plans are recommendations in regard to socioeconomic transition measures to reduce the impacts of various initiatives affecting resource use (refer to plans for listings). Research opportunities were also outlined to investigate the value and limitations of these initiatives:

- Assess impact of increased utilization on wood supply
- Evaluate potential for accessing areas classified as inoperable with alternate harvesting systems
- Assess effect of partial cutting on local employment and timber supplies
- Evaluate habitat needs and species roles in ecosystems
- Investigate ways to increase local re-manufacturing
- Define sustainable harvest levels for botanical products
- Explore employment potential for harvesting botanical forest products

- Explore market potential, policy, tenure requirements for agroforestry
- Assess alternative silvicultural and management practices and their impact on timber supply

8.0 List of Research Projects in the Nelson Forest region

The list of research projects conducted in the NFR is in Appendix II. This list is not considered complete nor entirely accurate. Several discrepancies were discovered between information sources. In addition, often several Research Groups applied to a single project. The most applicable group may not have been used for the group. The list can be updated and corrected as needed.

As mentioned, the projects were sorted into Research Groups. Most projects have been forest health related (54), followed by wildlife (43), harvesting operations (35) and forest productivity (34). Few have been initiated in workforce, value-added, social and extension.

Table 11. Number of projects for each research group

<i>Research Group</i>	<i>No. of Projects</i>
Biodiversity	6
Ecosystems	7
Extension	3
Fisheries	13
Forest Health	54
Forest Planning	6
Forest Productivity	34
Genetics	26
Growth and Yield	20
Harvesting Operations	35
Hydrology	12
Reforestation	14
Silvicultural Systems	18
Social	1
Soil Conservation	14
Stand Development	2
Stand Management	8
Stand Tending	11
Terrain Stability	3
Value-Added	9
Wildlife	43
Workforce	1

REFERENCES FOR BACKGROUND INFORMATION

- Anonymous. 1994a. West Kootenay-Boundary Land Use Plan. Commission on Resources and Environment.
- Anonymous. 1994b. East Kootenay Land Use Plan. Commission on Resources and Environment.
- BCMOF. 1994a. Arrow Timber Supply Area: Timber Supply Review Discussion Paper.
- BCMOF. 1994b. Boundary Timber Supply Area: Timber Supply Review Discussion Paper.
- BCMOF. 1994c. Golden Timber Supply Area: Timber Supply Review Discussion Paper.
- BCMOF. 1994d. Kootenay Lake Timber Supply Area: Timber Supply Review Discussion Paper.
- BCMOF. 1994e. Revelstoke Timber Supply Area: Timber Supply Review Discussion Paper.
- BCMOF. 1995a. Cranbrook Timber Supply Area: Timber Supply Review Discussion Paper.
- BCMOF. 1995b. Invermere Timber Supply Area: Timber Supply Review Discussion Paper.
- Braumandl, T.F. and M.P. Curran, eds. 1992. A field guide for site identification and interpretation for the Nelson Forest Region. BCMOF, Land Mgt. Handb. No. 20, Victoria, BC.
- Quesnel, H.J. and F.N. Thiessen. 1993. Ecosection summaries for the Kootenay-Boundary Region. BCMOF, Tech. Rept. TR-003. Nelson, BC.

SOURCES FOR LIST OF RESEARCH PROJECTS

Davis, G. and M. Machmer. 1998. Armillaria Studies in British Columbia, 1975-1995: Summary. BCMOF. Tech. Rept. TR-015. 206p.

Internet Sources

- Nelson Forest Region Home Page (Directory of Forest Research Test Sites, Extension Notes)
- Forest Renewal BC Project Summaries

Other

- Science Council of BC
- Forest Engineering Research Institute of Canada
- BC Ministry of Forests
- Canadian Forest Service
- University of BC, Dept. of Forestry
- Simon Fraser University, Dept. of Entomology
- University of Victoria
- Armillaria Research Working Group
- Silvicultural Systems Working Group
- Council of Forest Productivity
- Columbia Basin Trust, Fish and Wildlife Compensation Fund

APPENDIX I. Descriptions of Ecosections Occurring in the Nelson Forest Region

Sources for more detailed information are: KBLUP, EKLUP, TR-003, and Land Management Handbook #20.

Northern Columbia Mountains

Location: Northern Monashee, Selkirk and Purcell Mountains
Terrain: High rugged mountains, deep narrow valleys; 500 to 3500m elevation
BEC: ICH, ESSF, AT (largest BEC)
(High precipitation and cold temperatures)
Wildlife: Low elevation riparian and young seral important for moose, grizzly and black bears, elk, wolf, osprey and bald eagles
Upper elevation and alpine important for grizzly and black bears, mule deer and mountain goats
Low and high elevation old growth important for caribou

Central Columbia Mountains

Location: Central Selkirk and west central Purcell Mountains to West Arm of Kootenay Lake
Terrain: High ridges, deep narrow valleys; 500 to 2900m elevation
BEC: ICH, ESSF, AT (largest unit)
(High precipitation)
Wildlife: Early seral stands at low- to mid-elevation provide forage for grizzly bears, mule deer, white-tailed deer, moose and elk
High elevation old growth important for grizzly and black bears, elk, mule deer, moose
Alpine Tundra important habitat for mountain goat, wolverine, marten, hoary marmot, white-tailed ptarmigan
High concentration of osprey along Kootenay Lake

Northern Okanagan highlands

Location: Boundary area; Rock Creek, Granby
Terrain: Rolling highlands with wide valleys; gentle slopes; upland plateau
500 to 1500m
BEC: IDF, MS, ESSF
Cool, moist transitional area to dry Okanagan Highlands and wet Columbia Mountains
Wildlife: Extensive fire history at all elevations have created seral habitats for mule deer, white-tailed deer, moose, flammulated owl and Williamson's sapsucker

Selkirk Foothills

Location: Includes Grand Forks; Castlegar, Trail; US to Monashee Pass in north; west from Kettle River to east Salmo River Valley
Terrain: Hills to small mountains with wide valleys; 450m to 2400m
Christina Lake major water body
BEC: ICH, ESSF, (IDF)
Wildlife: Flood plains and riparian areas important for osprey, bald eagle and heron
Drier low- mid-elevation areas important for mule deer, white-tailed deer, elk, black bear
Avalanche areas for grizzly and black bears, elk, mule deer, caribou
Alpine parkland for caribou, grizzly bear, mule deer, elk, wolverine and white-tailed ptarmigan

Southern Columbia Mountains

Location: Southern Selkirk and southwestern Purcell Mountains; South of West Arm to US; Castlegar to Moyie

Terrain: High ridges and wide valleys; 500m to 2300m

BEC: ICH, ESSF some AT
precipitation high on mountain slopes, wet and mild

Wildlife: Creston Valley important for waterfowl
Riparian and floodplain areas important for white-tailed deer, black bear and grouse
Grizzly black bears, elk, caribou in avalanche areas at high elev
Parkland areas are important for caribou, grouse, white-tailed ptarmigan, Columbia ground squirrels
South Selkirk caribou herd is an endangered species

McGillivray Range

Location: Between Trench and Columbia Mountains to US border

Terrain: Subdued mountains and narrow valleys; 800 to 2300m

BEC: IDF, MS, ESSF to AT (some); some ICH near Yak

Wildlife: Elk, moose, white-tailed deer, mule deer, black bear
Some caribou in old-growth near Moyie

South Okanagan Highlands

Location: Grand Forks, Midway, Rock Creek down into US

Terrain: Low round ridges and wide valleys; 500 to 1600m

BEC: PP, IDF, MS
Forested on north slopes; grassland on south slopes;
valley bottoms hot and dry

Wildlife: Grasslands provide habitat for Brewer's sparrow, badger and Great Basin pocket mouse
Talus slopes and rocky cliffs provide habitat for gopher snake, western rattlesnake, canyon wren
Extensive fire history provides seral habitat that supports mule deer, white-tailed deer, elk and moose

Eastern Purcell Mountains

Location: Golden to Kimberley on east slopes of Purcell Mountains

Terrain: Rugged mountains with high plain like valleys; 800 to 3400m

BEC: IDF, MS, ESSF, AT, some ICH

Wildlife: Caribou in old-growth areas; also elk, mule and white-tailed deer, moose, grizzly and black bear

Crown of the Continent

Location: Extreme southeast corner

Terrain: Rugged and mountainous; 1100 to 2500m

BEC: MS, ESSF, AT

Wildlife: Moose, elk, grizzly, mountain goat, mountain sheep, mule deer

Border Ranges

Location: Includes Flathead and Fernie

Terrain: Wide valleys, subdued mountains, 800 to 3200m, some rugged peaks

BEC: MS, ESSF, AT

Wildlife: Moose, elk, white-tailed deer, grizzly and black bear, wolf in valley bottoms
Bighorn sheep, elk at high elevations

Southern Park ranges

Location: Rocky Mountains including Bull River and Blaeberry River

Terrain: Rugged mountains, long rivers and narrow valleys, 1100 to 3500m

BEC: Rainshadow area, cool and dry
MS, ESSF, AT
Wildlife: Moose, elk, white-tailed deer, grizzly and black bear, mule deer in valley bottoms
Bighorn sheep, mule deer, elk, mountain goats at higher elevations

Central Park Ranges

Location: Rocky Mountains from Blaeberry in the south to Hugh Allen Creek
Terrain: High, rugged mountains with glaciers, short steep sided mountains
600 to 3300 m
BEC: ICH, ESSF, AT
Wildlife: Floodplains, riparian and avalanche tracks provide habitat for moose, elk, grizzly, black, beaver, wolf
Caribou population reduced due to flooding of Columbia

Big Bend Trench

Location: Northwest of Donald Station
Terrain: Narrow straight valley with steep sides; 680 to 1100m
BEC: ICH only; wet and cool
Wildlife: Severely impacted by impoundment of Columbia River at Mica Creek
Caribou almost eliminated; moose, grizzly and black bears

East Kootenay Trench

Location: Rocky Mountain Trench from north of Golden to the south
Terrain: Valley 700 to 1100m
BEC: PP, IDF, MS, ICH
Wildlife: Best ecosection for wild game due to grasslands, shrublands and wetlands
Elk, mule deer, white-tailed deer winter throughout; bighorn sheep on steep south-facing slopes on east side of trench

APPENDIX I. List of Research Projects Initiated in the Nelson Forest Region

Research Group	Project Title	Organization	Investigators/ Contacts	Project Number	Biogeo-Zone	Status	Products	Location	Lat./Long.
Biodiversity	Carabid Beetle Study	BCMOF - NFR	A.J. Stock		ICH			WADF (DKL)	
Biodiversity	Assessment and characteristics of Old-Growth Stands in the Nelson Forest Region	BCMOF - NFR	H.J. Quesnel			Complete 1996	TR-013		
Biodiversity	A Stand and Landscape Level Fire and Successional Modeling System for Ponderosa Pine and Interior Douglas-Fir Forests	CFS		OPS.EN-108-RE (FRBC)				DCR	Lat. 49.30N, Long 114.46W
Biodiversity	Forecasting Impacts on Environmental Indicators in Forest Watersheds	MOF		KB97244-7-RE		Active		DKL	Lat. 49.30N, Long 117.17W
Biodiversity	Testing and Refining Biodiversity Monitoring Approaches	UBC		HQ96311-RE				NFR	Lat. 51.80N, Long 116.38W
Biodiversity	Ecological, Genetic and Taxonomic Studies of Rare Plant Species	Uvic	G. Allen	HQ96265-RE		Active	Progress Reports		
Ecosystems	East Kootenay Trench Restoration Program	BCMOF	M. Hansen, R. Wilson, T. Braumandl, S. Mah, T. Ross	KB96093/99/94/95/98	IDF	Active	Final and Progress Reports		
Ecosystems	Impact of Changing Disturbance Regimes and Patch Size on Stand Structure of Interior and Coastal High-Elevation Forests	BCMOF	R. Parish	HQ-96407-RE		Active	Progress Reports		
Ecosystems	Ecosection Summaries for the Kootenay-Boundary Region	BCMOF - NFR	H.J. Quesnel and J.K. Leahy			Complete 1993	TR-004		
Ecosystems	Ecosystem Maintenance Demonstration Monitoring Project	BCMOF - NFR	T.F. Braumandl	KB96062-RE, EP 1201		Active	Working Plan and Progress Report	DIN DCR DAR	
Ecosystems	The Relationship of Site Index and the Ecological Classification for the Nelson Forest Region	BCMOF - NFR	T.F. Braumandl			Complete 1993	RS-008		
Ecosystems	Ktunaxa Ethnobotany and Fire Ecology	MOF		KB96095-RE				NFR	Lat. 49.30N, Long 115.46W
Ecosystems	Ecology, Diversity and Resilience of Rhizosphere Communities Adapted to Different Natural Disturbance Regimes	UNBC	K.N. Egger	OP96027-RE		Active	Progress Reports		
Extension	West Arm Demonstration Forest: Development and Coordination Proposal	BCMOF	D. DeLong	KB96064-RE		Active	Progress Reports	DKL, WADF	
Extension	Operational Case Studies and Extension Activities	BCMOF	D. DeLong	KB96054-RE		Active	Progress Reports		

Extension	Directory of Forest Research Test Sites in the Nelson Forest Region	BCMOF	L. Smith	KB96052-RE		Active	Web site		
Fisheries	Status of Columbia Basin Chiselmouth	CBFWCP, EKES	H.Manson	98-CBT-34		Active		Upper Kootenay	
Fisheries	Burton Creek Fish Habitat Assessment	CBFWCP, Local Community Groups	K.Bray	98-N-43		Active		Arrow Reservoir	
Fisheries	Arrow Reservoir Paleolimnology	CBFWCP, MOE		97-N-21		Complete		Arrow Reservoir	
Fisheries	Arrow Reservoir Water/Nutrient Exchange Study	CBFWCP, MOE, B.C. Fisheries	H. Manson	98-N-22		Active		Arrow Reservoir	
Fisheries	Arrow Reservoir Fish Summary	CBFWCP, MOE, BC Fisheries	H. Manson	98-N-25		Active		Arrow Reservoir	
Fisheries	Kootenay lake Fertilization & Monitoring	CBFWCP, MOE, BC Fisheries	H.Manson	98-N-20		Active		Kootenay Lake	
Fisheries	White Sturgen Conservation in Reservoirs	CBFWCP, MOE, BC Hydro, HCTF	H.Manson	98-N-26		Active		Basin-Wide	
Fisheries	Arrow Reservoir Bull Trout Life History	CBFWCP, MOE, UBC	H. Manson	98-M-01A		Active		Arrow Reservoir	
Fisheries	Lower Columbia/Murphy Creek Rainbow Trout Studies	CBFWCP, TWA, WKFF, RL&L, BC Hydro	S. Arndt	98-N-31		Active		Lower Columbia	
Fisheries	Upper Columbia Burbot Movement	CBFWCP, UBC	S. Arndt	98-MY-19		Active		Upper Columbia River	
Fisheries	Arrow Reservoir Nutrient Recycling	CBFWCP, UBC, IOS, MOE, BC Fisheries	H. Manson	98-N-23		Active		Arrow Reservoir	
Fisheries	Arrow Reservoir Bull Trout Genetics/ Stock Identification	CBFWCP, UBC, MOE	H. Manson	98-MY-15		Active		Arrow Reservoir	
Fisheries	Arrow Reservoir Productivity Study	CBFWCP, UBC, MOE, BC Fisheries	H. Manson	98-N-24		Active		Arrow Reservoir	
Forest Health	Development of Predictive Model and Control Strategy for Larch Needle Cast	BC Research Inc.	R. Radley	HQ96305-RE		Active	Progress Reports		
Forest Health	Evaluation of Biocontrol Technique for Root Disease Caused by Armillaria ostoyae	BCMOF	B. Chapman	CC96018-RE			Progress Reports	DIN	
Forest Health	A Cost Benefit Analysis of Root Disease Management Options	BCMOF	B. MacKenzie				BCFS Internal Report	DCR	
Forest Health	Wickman Creek Armillaria Survey Assessment	BCMOF	B. Patterson	Pest Control Project JM-101		Unknown	Contractor Report		
Forest Health	Larch Dwarf Mistletoe - Howser Creek (1987)	BCMOF	D. Norris				Unpublished Report	DKL	
Forest Health	Ingersoll Creek White Pine Demonstration Area (1986)	BCMOF	D. Norris				Contractor's Report		
Forest Health	Whatshan Lake White Pine Demonstration Area (1989)	BCMOF	D. Norris				Contractor's Report	DAR	
Forest Health	Halfway White Pine Pruning And Spacing Trial (1983)	BCMOF	D. Norris				Contractor's Report	DAR	

Forest Health	Armillaria ostoyae Permanent Sample Plots - Revelstoke Forest District (1985)	BCMOF	D.Norris			Active		DRE	
Forest Health	Lodgepole Pine Dwarf Mistletoe, Comparison on Spaced to Unspaced Blocks,	BCMOF	E. Begin	Px 14740-20/2N1027		Active		DIN Brewer Creek Ridge	
Forest Health	Pilot Project to Determine the Feasibility of Using Large-Scale Aerial Photography to Detect and Map Armillaria Root Disease in Plantations	BCMOF	K. Edquist, R. Reich, J. Beale, D. Norris				None	DGO	
Forest Health	Trial of a Regeneration Survey Modified to Assess Armillaria Root Disease	BCMOF	K. Laing	Pest Control Project 34	ICH			Contractor Report	DGO
Forest Health	Appraisal and Analysis of Available Data Regarding Distribution and Incidence of Armillaria Root Disease in the Nelson Forest region	BCMOF	K. White, A. Pollard			Complete 1995		BCMOF Internal Rept.	
Forest Health	Quartz Creek Armillaria Root Disease Survey and Survey for an Armillaria Root Disease Control Trial	BCMOF	K.E. Roethel	Pest Control Project 55 and 56	ICH	Unknown		Contractor Report	DGO Quartz Creek
Forest Health	Species Planting and Seedling Trial for Armillaria Root Disease Control (Mari Creek) (1985)	BCMOF	R. Lessard			Active		DBO	
Forest Health	Larch Dwarf Mistletoe, Overstory Removal/Spacing With/Without Sanitation, St. Marys River Rd. (1983)	BCMOF	S. G. Byford, L. Goyette	Px 14740-20/1N1029		Active		DCR	
Forest Health	Species Planting and Seedling Trial for Armillaria Root Disease Control (1985)	BCMOF	S. Moss, D.Norris			Active		DGO	
Forest Health	Older Juvenile Spacing Retrospective Study	BCMOF	S. Walsh, H. Pinnell and M. Grau		ICH, MS, IDF	Complete 1998		Internal paper	DGO DIN DCR DKL DAR DBO
Forest Health	Pushover Logging for Root Rot - Northcote Lake (1992)	BCMOF	T.Adams, P. Seaw, E. Begin					Contractor's Report	DIN
Forest Health	Knappen Creek: Root Disease Control - Backhoe	BCMOF - NFR	D. Norris	SX-Norris1	ICHmk1	Active		Two unpubl. Reports	DBO Knappen
Forest Health	Geographic Distribution of Armillaria Species	BCMOF - NFR	Forest Sciences			Complete 1995		RS-015	
Forest Health	The Life Cycle and Dynamics of Armillaria ostoyae	BCMOF - NFR	Forest Sciences			Complete 1995		RS-016	
Forest Health	Field Identification and Quantification of Armillaria ostoyae	BCMOF - NFR	Forest Sciences			Complete 1995		RS-017	
Forest Health	Management Options for Armillaria Root Disease	BCMOF - NFR	Forest Sciences			Complete 1995		RS-021	
Forest Health	Effects of Armillaria Root Disease on Forest Ecosystems	BCMOF - NFR	Forest Sciences			Complete 1996		RS-022	
Forest Health	Root Disease Impact Analysis in Fir Plantations of the Arrow and Kootenay Lake Timber Supply Areas	BCMOF - NFR	K. Hopkins and R. Stewart		ICH	Complete 1992		Internal Report	
Forest Health	Whitetail Brook Harvesting Study	BCMOF - NFR	M. Curran	Curran 1				RS	
Forest Health	Bio-control of Armillaria	BCMOF - NFR	M. Curran	Curran 3					
Forest Health	Occurrence of Armillaria Species in Site Series of Undisturbed Mature Forests in Subzones of the ICH Biogeoclimatic Zone in the Nelson Forest Region	BCMOF and CFS	G. Krumlik, D. Morrison, R. Nevill	OPS.LR-364-RE (FRBC)	ICHxw, dw, mw2, mk1, wk1	Active		Working Plan	NFR

					and vk1				
Forest Health	Armillaria Root Disease - Mountain Pine Beetle Interaction	BCMOF and CFS	G. Krumlik, D. Morrison, R. Nevill, L. Safranyik	OPS.LR-365-RE (FRBC)	ICH, IDF	Active	Working Plan	NFR	
Forest Health	Effect of precommercial thinning on crop tree infection and mortality by root disease	CFS	D. Morrison	FC-FP-003	ICHmw1/mw2, MSdk	Active	Working Plan, Progres Repts.	DIN Lussier, DAR Fitzstubs, DKL Kidd Creek	Lat. 50 05'N, Long. 115 40'W; Lat. 50 14'N, Long. 117 35'W; Lat. 49 15'N, Long. 116 08'W
Forest Health	Development of Armillaria root disease in Douglas-fir plantations	CFS	D. Morrison	PFC-P66402-1	ICHmw2	Active	Proceedings, Can. J. For. Res. (26)	DAR Kuskanax	Lat. 50 17'N, Long. 117 45'W
Forest Health	Phoenix stumping trial: stump removal for control of Armillaria root disease	CFS	D. Morrison	PFC-P66402-2	ICHmk1	Active	None	DBO Phoenix	Lat. 49 05'N, Long. 118 37'W
Forest Health	Effects of Partial Cutting on Armillaria Root Disease in the IDF, MS, ICH and ESSF	CFS	D. Morrison	SS 008	ICHmw2, IDF dm2, ESSFwc1	Active	Working Plan and Progress Reports	DKL Bird Creek, DIN Madius Creek, DAR Green Mtn.	Lat. 49 26'N, Long. 117 25'W; Lat. 50 25'N, Long. 115 52'W; Lat. 50 03'N, Long. 118 16'W
Forest Health	Effects of Partial Cutting on Incidence and Damage by Armillaria Root Disease	CFS	D. Morrison	HQ96252-RE		Complete 1997	Final Report	DBO	
Forest Health	Species of Armillaria in British Columbia	CFS	D. Morrison, D. Chu, A.L.S. Johnson			Complete	Can. J. Pathol. (7)	Nelson and Fernie (culture collection locations)	
Forest Health	White Pine Pruning Trial	CFS	D. Norris	SX-Norris2		Active	None	DAR Mosquito	
Forest Health	White Pine Pruning and Canker Excising	CFS	D. Norris	SX-Norris3		Active	None	DKL Barrett	
Forest Health	Western Larch Seed Tree Pruning: Larch Dwarf Mistletoe Control	CFS	D. Norris	SX-Norris4		Active	None	DKL Duck	

Forest Health	Development of Ecologically Sound and Environmentally Friendly Pest Management Methods for the Major Soft and Hardwood Defoliators in BC	CFS	I. Otvos	HQ96242-RE		Active	Progress Reports		
Forest Health	Effects of Pre-Commercial Thinning on Armillaria ostoyae Root Rot	CFS	M. Cruikshank		IDF	Complete 1996	Thesis	DCR	
Forest Health	Western White Pine Progeny Test and Armillaria Root Rot Test	CFS	R. Hunt	PFC-XXXXX		Active	Can. J. Pathol. (16)	DGO Marl Creek and DKL Busk and Smallwood	
Forest Health	Western White Pine Progeny Test	CFS	R. Hunt	PFC-XXXXX		Active	Can. J. Pathol. (16)	DKL Smallwood, Garrity, Gold	
Forest Health	Western White Pine Progeny Test and Laminated Root Rot Test	CFS	R. Hunt	PFC-XXXXX		Active	None	DKL Smallwood	
Forest Health	Resistance Mechanisms of Western Larch	CFS	R. Robinson, D. Morrison, B. van der Kamp	FRDA II: FC-FP-09	ICHmk1	Active	Can. J. Bot. (51); Working Plan; Progress Report; Proceedings	DBO Phoenix Hills	Lat. 49 05'N, Long. 118 37'W
Forest Health	Modifying Silvicultural Systems for Lodgepole Pine - Commercial Thinning and Fertilization to reduce susceptibility to Mountain pine Beetle	CFS	R.J. Whitehead	PFC - P58001		Active	Working Plan, Tech. Trans. Note No. 7, FRDA Rept. 220, File Reports	DCR Haha Creek, Elkford; DIN Parsons	Lat. 49 25'N, Long. 115 37'W; Lat. 50 08'N, Long. 114 57'W; Lat. 50 59'N, Long. 116 41'W
Forest Health	Relationship of Growth Reduction in Douglas-fir to Infection by Armillaria Root Disease in Southeastern British Columbia	CFS	W.J. Bloomberg and D.J. Morrison		ICH and MS	Complete 1989	Published in Phytopathology Vol. 79		
Forest Health	Detection, Recognition and Management of Armillaria and Phellinus Root Diseases in the Southern Interior of British Columbia	CFS - BCMOF	D.J. Morrison, H. Merler and D. Norris			Complete 1991	FRDA Report No. 179		
Forest Health	Semiochemical Based Containment and Concentration of a Mountain Pine Beetle Infestation: Validation by Sampling of Baited and Surrounding Zones	SFU	D.R. Gray, J.H. Borden			Complete 1989	J. Econ. Ent. (82)		
Forest Health	Management of Armillaria Root Disease by Inducing Quiescence	UBC	B. van der Kamp	HQ96055-RE		Active	Progress Reports	DKL	
Forest Health	Viral Pathogens of Forest Insect Defoliators: Identification, Characterization, and Development of Pest Management Tools	Uvic	D. Levin	HQ96032-RE		Active	Progress Reports		
Forest Health	Impact of Blister Rust, Mountain Pine Beetle, and Fire Suppression on Whitebark Pine Ecology	Uvic	J. Antos	HQ96264-RE	ESSF		Progress Reports		

Forest Health	Western Larch Seed Tree Pruning: Larch Dwarf Mistletoe Control (1996)	Wynndel Box & Lumber, BCMOF	P.Maloney, D.Norris			Active		DKL	
Forest Health	Ft. Steele Armillaria Trial: Push Over and Grass Fallow Treatments			Px 14740-20/1N1041		Active		DCR Mause Creek Rd	
Forest Planning	Total Resource Design in the WADF	BCMOF	L. Price and J. Duff		ICH, ESSF, AT	Complete 1994	Thesis	WADF (DKL)	
Forest Planning	Implications of Alternative Silvicultural Strategies on Timber Supply in the West Arm Demonstration Forest	BCMOF	P. Lewis (MOF) and Reid, Collins and Assoc.				Report	WADF (DKL)	
Forest Planning	Natural Disturbance Patterns, Forest Health and Stand Level Wildlife - Assessment and Integration for Forest Management in the WADF	BCMOF - NFR	H.J. Quesnel and H.D. Pinnell		ICH, ESSF	Draft complete 1998	Paper		
Forest Planning	Forest-Level Analysis of Alternative Silviculture Investment Strategies in Invermere EFMPP	BCMOF Victoria						DIN	
Forest Planning	The Landscape Project	UBC	J. Nelson	HQ96054-RE			Progress Reports	DRE DGO	
Forest Planning	Analysis and Calculations for Sustainable Forest Ecosystem Management		E.D. Ford and O. Hamel, Univ. Wash.		ICH, ESSF			WADF (DKL)	
Forest Productivity	Augmenting the AAC Through Pest Management	BCMOF	B. MacKenzie, R. Stewart, D. Norris		ICH, IDF, MS, ESSF		BCFS Internal Report	DBO DGO DIN DCR DAR	
Forest Productivity	Assessment of Changes in Stand Structure Development Over Time in Watershed	BCMOF				Active		DKL WADF	
Forest Productivity	The Survival and Growth of Seedlings Planted on Sites Prepared Using Four Different Techniques on an Operational Scale	BCMOF - NFR	C.F. Thompson	EP 1001.02	ICH	Dormant	Five MOF unpubl. Reports	DAR Murphy Creek; DGO Blackwater Ridge; DRE Begbie Creek	Lat. 49 11'N, Long. 117 51'W; Lat. 51 34'N, Long. 117 26'W; Lat. 50 56'N, Long. 118 14'W
Forest Productivity	Survival and Early Growth of Seedlings Planted on Dry Sites in the Kootenay River Valley after Site Preparation	BCMOF - NFR	C.F. Thompson	SX 88117N		Dormant	Unpubl. Progress Report	DIN Upper Kootenay River	Lat. 50 30'N, Long. 115 42'W
Forest Productivity	Fertilizing Interior Spruce at the Time of Planting	BCMOF - NFR	C.F. Thompson, C. Clarke and R. Winter	SX 84115Q		Dormant	Unpubl. Progress Report	DKL Skelly Creek	Lat. 49 20'N, Long. 116 31'W
Forest Productivity	The Impact of Fertilization and Cattle Grazing on Water Quality	BCMOF - NFR	D.R. Gluns	N2 - McMurdo		Active	Symposium Proceedings	DIN McMurdo	Lat. 51 02 - 06'N,

								Bench	Long. 116 33' - 38'W
Forest Productivity	Tree Growth on Skid Trails	BCMOF - NFR	M. Curran	Curran 2					
Forest Productivity	SYTEPREP Decision Aid, version 9f	BCMOF - NFR	M.P. Curran and M.M. Johnston			Complete 1993	TR		
Forest Productivity	A Quick Tour of the SYTEPREP Decision Aid	BCMOF - NFR	M.P. Curran and M.M. Johnston			Complete 1993	RS-009		
Forest Productivity	Overview of the SYTEPREP Computer-based System	BCMOF - NFR	M.P. Curran and M.M. Johnston			Complete 1992	RS-006		
Forest Productivity	Regional Fertilizer Research Trials: Pilot Study	BCMOF - NFR	M.R. Curran, R.P. Brockley, B.A. Blackwell and G. Davis	EP 1171		Active	Working Plan, unpublished report and FRDA Report in press	DCR Sulphur Creek; DGO Bluewater Creek	Lat. 49 38'N, Long. 115 05'W; Lat. 51 31'N, Long. 117 15'W
Forest Productivity	Operational Broadcast Burning - Site Productivity Trial	BCMOF - NFR	T. Braumandl, M. Curran and S. Thompson	EP 1017	ICHdw+F5 1	Dormant	Unpublished Working Plan	DKL Redfish Creek	Lat. 49 38'N, Long. 117 03'W
Forest Productivity	Impacts of Slashburning on Forest Soil Nutrient Status (ICHmw2) - Nelson Forest Region	BCMOF - NFR, CFS?	M. Curran and S.R. Thompson	FRDA 3.29	ICHmw2+ F84	Dormant	FRDA Project Working Plan and Establishment Report	DKL Giveout Creek	Lat. 49 27'N, Long. 117 20'W
Forest Productivity	Fertilization Trial with Nitrogen-sulphur Urea	BCMOF - Victoria	C. Clark	SX 86408N		Dormant	None	DIN DAR DRE DKL	
Forest Productivity	Commercial Thinning in the Arrow, Cranbrook TSAs	BCMOF, AAC Mitigation Strategy	I. Listar			Active		DAR, DCR	
Forest Productivity	Problem Forest Types in the Cranbrook TSAs	BCMOF, AAC Mitigation Strategy	J. Pollack			Active		DCR	
Forest Productivity	Partial Cutting in the Arrow, Cranbrook and Golden TSAs	BCMOF, KBLUP Task Force	J. Pollack			Active		DAR, DCR, DGO	
Forest Productivity	Impacts of Stumping Operations on Soil Properties and Long-term Forest Productivity	CFS	E. Wass	PFC - P18003b		Active	Inf. Rept. BC-X-327, Proceedings	DBO Phoenix	Lat. 49 05'N, Long. 118 37'W
Forest Productivity	Impacts of Stump Uprooting Operations on Properties of a Calcareous Loamy Soil and on Planted Seedling Performance.	CFS	E. Wass	PFC - P18003c		Active	Inf. Rept. BC-X-344, 348	DGO Marl Creek	Lat. Lat. 51 32'N, Long. 118 37'W
Forest Productivity	Impacts of Skidroads on Properties of a Calcareous, Loamy Soil and on Planted Seedling Performance.	CFS	E. Wass	PFC - P18003d		Active	Inf. Rept. BC-X-344, 348	DGO Marl Creek	Lat. Lat. 51 32'N,

									Long. 118 37'W
Forest Productivity	Impacts of Forestry Equipment and Operating Methods on Soil Properties and Long-term Forest Productivity	CFS	J. Senyk	PFC - P18003a		Active	Inf. Rept. BC-X-365	DGO	
Forest Productivity	Wood Density of Young Western Larch Grown Under Different Stand Densities	Forintec Canada Corp.		KB97258-0-RE				NFR	
Forest Productivity	#3 #4 Response of Interior Tree Species to Fertilization Series 1 - Nitrogen Fertilization of Lodgepole Pine	Kalamalka	R.P. Brockley	EP 886.01		Active	FRDA Report 36, 184, 266	DCR	
Forest Productivity	#12 Response of Interior Tree Species to Fertilization. Series 2 - Nitrogen and Sulphur Fertilization of Lodgepole Pine	Kalamalka	R.P. Brockley	EP 886.01		Active	FRDA Report 266	DCR Gold Creek	Lat. 49 19'N, Long. 115 30'W
Forest Productivity	#13 Response of Interior Tree Species to Fertilization. Series 2 - Nitrogen and Sulphur Fertilization of Lodgepole Pine	Kalamalka	R.P. Brockley	EP 886.01		Active	FRDA Report 266	DGO Blackwater	Lat. 51 33'N, Long. 117 17'W
Forest Productivity	#23 #24 Series 4 - Nitrogen and Sulphur Fertilization of Lodgepole Pine and Other Interior Species	Kalamalka	R.P. Brockley	EP 886.01		Active	None	DGO Whitepine Creek	
Forest Productivity	#25 Response of Interior Tree Species to Fertilization. Series 4 - Nitrogen and Sulphur Fertilization of Lodgepole Pine and Other Interior Species	Kalamalka	R.P. Brockley	EP 886.01		Active	None	DAR Kuskanax	
Forest Productivity	#26 Response of Interior Tree Species to Fertilization. Series 4 - Nitrogen and Sulphur Fertilization of Lodgepole Pine and Other Interior Species	Kalamalka	R.P. Brockley	EP 886.01		Active	None	DKL Gold Hill	
Forest Productivity	#27 Response of Interior Tree Species to Fertilization. Series 4 - Nitrogen and Sulphur Fertilization of Lodgepole Pine and Other Interior Species	Kalamalka	R.P. Brockley	EP 886.01		Active	None	DAR Bulldog	Lat. 49 17'N, Long. 118 03'W
Forest Productivity	#2 Response of Young Lodgepole Pine to Spring and Fall Applications of Urea and Ammonium Nitrate Fertilizer	Kalamalka	R.P. Brockley	EP 886.04		Active	FRDA Memo 120; Can J. For. Res. (25); FRDA Rep. 226	DIN Mt. Sabine	Lat. 50 12'N, Long. 115 46'W
Forest Productivity	#3 Response of Young Lodgepole Pine to Spring and Fall Applications of Urea and Ammonium Nitrate Fertilizer	Kalamalka	R.P. Brockley	EP 886.04		Active	FRDA Memo 120; Can J. For. Res. (25); FRDA Rep. 226	DCR Gold Creek	Lat. 49 18'N, Long. 115 32'W
Forest Productivity	#7 Response of Young Lodgepole Pine to Nitrogen and Sulphur Fertilization	Kalamalka	R.P. Brockley	EP 886.09		Active	Can J. For. Res. (25); FRDA Rep. 226	DCR Gold Creek	Lat. 49 19'N, Long. 115 32'W
Forest Productivity	Old Growth Site Index Study	Pope & Talbot Ltd., FRBC	D.Lang					DAR	
Forest Productivity	Survival Growth Allometry and Specific Leaf Area of Western Larch in Relation to Light Availability	UBC	K. Klinka	Other - Klinka		Active	UBC Extension Series	DCR Perry	Lat. 49 35'N,

									Long. 115 55'W
Genetics	Variability in Juvenile Growth Behavior of Thirty Lodgepole Pine Provenances.Part 3 - Field Tests	BCMOF - Victoria	C.C. Ying	EP 657.03		Active	Can. J. For. Res. 19	DCR Negro Creek	Lat. 49 25'N Long. 115 57'W
Genetics	Geographic variation and provenance X site interaction with all-range provenance samples of lodgepole pine	BCMOF - Victoria	C.C. Ying	EP 657.06		Active	Can. J. For. Res. (17); Proceedings; Scand. J. For. Res. (9)	DBO DCR DGO DRE DKL DIN	
Genetics	Yellow-cedar Population Study	Cowichan Res. Sta.	J.H. Russell	EP 1012.01	ICH	Active	None	DAR Champion	Lat. 49 14'N, Long. 117 39'W
Genetics	Tree Improvement of Interior Spruces in BC - East Kootenay Selection Unit Half-sib Progenies of Selected Trees; Cranbrook Forest District	Kalamalka	B. Jaquish	EP 670.02.03		Some active; some dormant	Paper in progress	DCR	
Genetics	Tree Improvement of Interior Spruces in BC - East Kootenay Selection Unit Half-sib Progenies of Selected Trees; Invermere Forest District	Kalamalka	B. Jaquish	EP 670.02.03		Active	Paper in progress	DIN	
Genetics	Tree Improvement of Interior Spruces in BC - Miscellaneous Controlled Crosses (Pilot project)	Kalamalka	B. Jaquish	EP 670.70		Active	None	DCR Perry Creek	Lat. 49 03'N Long. 116 02'W
Genetics	Studies of White-Engelmann Spruce Genetics	Kalamalka	B. Jaquish	EP 670.71		Active	None	DAR DCR DIN	
Genetics	Western USA Engelmann and Colorado Blue Spruce Provenance Trials	Kalamalka	B. Jaquish	EP 705.04		Active	None	DCR Sawmill Creek	Lat 49 34'N, Long. 116 02'W
Genetics	Genetic Improvement of Interior Douglas-fir in the BC Interior: Progeny Tests for West Kootenay (low elevation) Seed Planning Zone	Kalamalka	B. Jaquish	EP 976.02.04		Active	Progress and meeting reports	DRE DAR DKL	
Genetics	Genetic Improvement of Interior Douglas-fir in the BC Interior: Progeny Tests for West Kootenay (high elevation) Seed Planning Zone	Kalamalka	B. Jaquish	EP 976.02.05		Active	Progress report	DAR DKL	
Genetics	Genetic Improvement of Interior Douglas-fir in the BC Interior: Progeny Tests for Mica Seed Planning Zone	Kalamalka	B. Jaquish	EP 976.02.07		Active	Progress report	DRE	
Genetics	Genetic Improvement of Interior Douglas-fir in the BC Interior: Progeny Tests for East Kootenay Seed Planning Zone	Kalamalka	B. Jaquish	EP 976.02.08		Active	Progress report	DCR DIN DGO	
Genetics	Genetic Improvement of Western Larch: Series 1 Progeny Tests for East Kootenay Seed Planning Zone	Kalamalka	B. Jaquish	EP 1020.02.01		Active	USDA INT-GTR-319	DCR DIN	
Genetics	Genetic Improvement of Western Larch:Progeny Tests for West Kootenay Seed Planning Zone	Kalamalka	B. Jaquish	EP 1020.02.02		Active	USDA INT-GTR-320	DBO DAR DKL	
Genetics	Genetic Improvement of Western Larch:Series 2	Kalamalka	B. Jaquish	EP 1020.02.03		Active	USDA INT-GTR-321	DCR	

	Progeny Tests for East Kootenay Seed Planning Zone								
Genetics	Genetic Improvement of Western Larch:Series II Progeny Tests for West Kootenay/Shuswap Adams Seed Planning Zone	Kalamalka	B. Jaquish	EP 1020.02.04		Active	USDA INT-GTR-322	DAR Cameron; Eureka	Lat. 50 19'N, Long. 117 59'W; Lat. 50 05'N, Long. 118 20'W
Genetics	Hybrid poplar growth and adaptability screening trial	Kalamalka	M.K. Carlson	EP 1069.08		Active	None	DCR Rampart	Lat. 49 32'N, Long. 115 36'W
Genetics	Paper birch seed source trial	Kalamalka	M.K. Carlson	EP 1069.11		Active	None	DKL	Lat. 50 20'N, Long. 116 55'W; Lat. 49 00'N, Long. 116 34'W
Genetics	Operational hybrid poplar productivity trial	Kalamalka	M.K. Carlson	EP 1069.20		Active	None	DKL	Lat. 50 20'N, Long. 116 55'W; Lat. 49 00'N, Long. 116 34'W
Genetics	White Pine Resistance Demonstration Plantation	Kalamalka	M.K. Carlson	J-270-241-6302		Active	None	DAR Nakusp	Lat. 50 15'N, Long. 117 46'W
Genetics	White Pine Realized Gain Trial	Kalamalka	M.K. Carlson	PW-1998		Active	None	DAR DKL	
Genetics	Field Testing Western x Subalpine Larch Hybrids	MOF		OPS.LR-284-RE (FRBC)				NFR	Lat. 49.40N, Long 116.50W
Genetics	Population Structure, Genetic Diversity and Breeding Systems in Subalpine Larch and Western Larch	UofA	P.D. Khasa	HQ96090-RE		Active	Progress Reports		
Genetics	Western Redcedar Preliminary Genetic Tests			EP 1012.02	ICH	Active	None	DAR Champion	Lat. 49 14'N, Long. 117 39'W
Genetics	Tree breeding study in Arrow District			Jaquish 1					
Genetics	Spruce genetics study			Jaquish 2					
Growth and Yield	Volume & Decay Study in ICH in Golden TSA	BCMOF	W. Smith		ICH	Active		DGO	

Growth and Yield	Data for Model Calibration Development	BCMOF				Active		NFR	
Growth and Yield	Preliminary Height Expectations of Engelmann Spruce Plantations for Three Elevations in the Nelson Forest Region	BCMOF - NFR	C.F. Thompson			Complete 1995	RS-020		
Growth and Yield	Preliminary Height Expectations for Lodgepole Pine Plantations in the Nelson Forest Region	BCMOF - NFR	C.F. Thompson			Complete 1996	RS-024		
Growth and Yield	The Effect of Plantation Density on the Growth and Yield of White Spruce: 32-Year Results	BCMOF - NFR	J.C. Pollack			Complete 1993	RS-007		
Growth and Yield	Re-fitted Prognosis to Improve Yield Predictions for Complex Stands in South - Eastern BC	BCMOF Victoria						NFR	
Growth and Yield	Enhanced Inventory Audit	CFI	B.Hopkin	KB96133				NFR	
Growth and Yield	The Effects of Nitrogen Sulphur and Boron on the Nutrition Health and Growth of Immature Lodgepole Pine	Kalamalka	R.P. Brockley	EP 886.12		Active	None	DGO Blackwater	Lat. 51 33'N, Long. 117 17'W
Growth and Yield	Partial Cutting in the Columbia Forest Zone (ICHmw2) (Established in 1957)	Kalamalka	W. Johnstone	EP 370b	ICH	Active	Res. Note 32 and 78; various internal reports	DAR Fosthall Creek	Lat. 50 24'N, Long. 115 39'W
Growth and Yield	Thinning Experiment in Lodgepole Pine - Canal Flats (Established in 1952)	Kalamalka	W. Johnstone	EP 384/385		Active	Progress Reports	DIN Settlers Rd	Lat. 50 24'N, Long. 115 39'W
Growth and Yield	Effects of Initial Spacing on the Growth and Development of Ponderosa Pine (Established in 1962)	Kalamalka	W. Johnstone	EP 607		Active	Progress Reports	DBO Rock Creek; DCR Cherry Creek	Lat. 49 35'N Long. 115 55'W; Lat. 49 41'N, Long. 115 50'W
Growth and Yield	The Effects of Spacing on the Growth and Yield of Lodgepole Pine	Kalamalka	W. Johnstone	EP 922.07		Active	Unpubl. Estab. And Progress Reports	DIN Driftwood	Lat. 50 55'N, Long. 116 36'W
Growth and Yield	An Espacement Trial in Lodgepole and Yellow Pine	Kalamalka	W. Johnstone	EP 964.09		Active	None	DCR Gold Creek	
Growth and Yield	An Espacement Trial in Lodgepole Pine	Kalamalka	W. Johnstone	EP 964.11		Active	Unpubl. Estab. And Progress Reports	DCR Elk River	Lat. 50 14'N, Long. 114 58'W
Growth and Yield	An Espacement Trial in Western Larch	Kalamalka	W. Johnstone	EP 964.21		Active	None	DCR Lamb Creek	Lat. 49 19'N, Long. 115

									54'W
Growth and Yield	An Espacement Trial in Interior Spruce	Kalamalka	W. Johnstone	EP 964.23		Active	None	DBO Granby	Lat. 49 34'N, Long. 118 45'W
Growth and Yield	Inventory Audits	NFR	C. Mulvihill			Complete		DRE, DBO	
Growth and Yield	Problem Forest Types in the Invermere Forest District	Slocan Forest Prod., BCMOF				Active		DIN	
Growth and Yield	Calibrating Prognosis in Partially Cut Stands of the ICH	UBC	C. Boisvenue		ICH	Active			
Growth and Yield	Early Tree Height Growth in Mixed-Species Stands	UBC		KB96070-RE				DKL	Lat. 49.30N, Long 117.17W
Harvesting Operations	Review of Five Time and Motion Studies Completed on Root Removal Treatments in the Nelson Forest Region	BCMOF - NFR	D. DeLong			Complete 1994	TR-006		
Harvesting Operations	Operational Feasibility Stumping Trials on Armillaria Root Disease-Infected Stands in the Golden TSA (1983)	BCMOF and CFS	L.D. Price, R.W. Hardy, E. Wass and R. Smith		ICHmw2, ICHmw1	Complete 1985	BCMOF Internal Rept. PM-N-2 and CFS-PFC Internal Rept.	DGO Donald Sta., Marl Creek	Lat. 51 29'N, Long. 117 13'W; Lat. 51 33'N, Long. 117 11'W
Harvesting Operations	A Review of Mechanical Delimbers in Western Canada	FERIC	A. J. MacDonald			Complete 1989	TR-93	Includes NFR	
Harvesting Operations	Skidder with Small Crawler Tractors	FERIC	B. McMorland			Complete 1980	TR-37	Various locations in NFR	
Harvesting Operations	Production and performance of Mechanical Delimiting Equipment in Interior B.C.: Denis and Roger Stroke Delimbers	FERIC	B. McMorland			Complete 1984	TN-75	DIN	
Harvesting Operations	Production and Performance of Ground Skidding Equipment in Interior B.C.: FMC FT-180 /John Deere 550 System	FERIC	B. McMorland			Complete 1985	TN-82	DIN	
Harvesting Operations	Site Preparation with Excavators in British Columbia: An Update	FERIC	C. E. Dorion			Complete 1989	TN-131	Includes NFR	
Harvesting Operations	Seedling Transportation: Effects of Mechanical Shocks on Seedling Performance	FERIC	E. I. Stjernberg			Complete 1996	TR-114	DGO	
Harvesting Operations	Return-trail Skidding: A Pilot Study	FERIC	G. Kockx and D. DeLong			Complete 1994	TN-218		
Harvesting Operations	Trials of Ground-skidding Methods on Steep Slopes in the East Kootenays, British Columbia: Productivities and Site Impacts	FERIC	G. P. Kockx, R. K. Krag			Complete 1993	SR-89	DGR	
Harvesting	Harvesting Small Patch Clearcuts in Southeastern	FERIC	G.P. Kockx, D.			Complete	SR-102	DAR, DKL	

Operations	British Columbia		W. Moshenko, I. B. Hedin			1995			
Harvesting Operations	Timber and Slope Characteristics Influencing future Harvesting in British Columbia	FERIC	I. B. Hedin			Complete 1978	TR-21	Includes NFR	
Harvesting Operations	Strip Thinning Trials in British Columbia - 1986	FERIC	I. B. Hedin			Complete 1987	TN-112	DCR	
Harvesting Operations	Requirements and Design Parameters for Lodgepole pine StripThinning Equipment in British Columbia	FERIC	I.B. Hedin			Complete 1988	SR-51	Includes NFR	
Harvesting Operations	Commercial Thinning of Mature Lodgepole Pine to Reduce Susceptibility to Mountain Pine Beetle	FERIC	J. L. Mitchell			Complete 1994	SR-94	DCR	
Harvesting Operations	Production and Performance Studies of FMC Series Skidders	FERIC	L. H. Powell			Complete 1978	TR-29	Various locations in NFR	
Harvesting Operations	Interior limbing, Bucking and Processing Study Evaluation of Hahn Tree-Length Delimber	FERIC	L. H. Powell			Complete 1981	TN-51	DCR	
Harvesting Operations	Trial of the Osa 670 Feller Buncher and Osa 705 Processor in British Columbia	FERIC	L. H. Powell, G. St. Jean			Complete 1979	TR--31	DIN	
Harvesting Operations	Short-Term Assessment of Three Powered-Disc Trencher / Prime Mover Options in Western Canada	FERIC	M. A. von der Gonna			Complete 1991	TN-165	DIN	
Harvesting Operations	Excavator Attachments for Site Preparation in British Columbia	FERIC	M. A. von der Gonna			Complete 1992	TN-180	Various locations in NFR	
Harvesting Operations	Orientation of Log Butts on Highway Trucks: An Economic Analysis	FERIC	M. Clark, D. R. Giles			Complete 1988	TR-85	DCR	
Harvesting Operations	Development and Evaluation of the Critical Site Yarder	FERIC	M. J. McDonald			Complete 1979	TN-31	DCR	
Harvesting Operations	The Effects of Live-Limb Removal on Clearing-Saw Productivity	FERIC	P. D. Forrester			Complete 1989	TN-129	DCR	
Harvesting Operations	Strip Thinning with the Track-Ax in the East Kootenay Region of British Columbia	FERIC	P. D. Forrester			Complete 1989	TN-130	DCR	
Harvesting Operations	Development of Live Limbs on Stumps Following Juvenile Spacing	FERIC	P. D. Forrester, M. A. von der Gonna			Complete 1990	SR-69	DCR	
Harvesting Operations	Evaluation of Cable Logging Systems in Interior B.C. and Alberta	FERIC	P.L. Cottell, B.A. McMorland, G.V. Wellburn			Complete 1976	TR-8	Various locations in NFR	
Harvesting Operations	Survey of Forest-Renewal Program in British Columbia Part III: Southern Interior	FERIC	R. E. Breadon			Complete 1988	TR-88	Includes NFR	
Harvesting Operations	Use of Vegetable-Based Hydraulic Oil in Forestry Operations: An Evaluation	FERIC	R. Jokai			Complete 1995	SR-103	DIN	
Harvesting Operations	A Method to Estimate Risk of Soil Erosion to Logging Sites in the Kootenay Area of British Columbia	FERIC	R. K. Krag			Complete 1980	TR-38	Various locations in NFR	
Harvesting Operations	Effects of Log-skidder Travel on soil Bulk density	FERIC	R. K. Krag, S. D. Holmsen, T. B.			Complete 1993	SR-87		

			Wong						
Harvesting Operations	Thinning and Utilization of Lodgepole Pine Stands in British Columbia	FERIC	S. D. Holmsen			Complete 1990	SR-73	Includes NFR	
Harvesting Operations	Comparison of Clearing-Saw cutting Attachments For Weeding Young Conifer Plantations	FERIC	S. D. Holmsen, R. J. Whitehead			Complete 1988	SR-52	DKL	
Harvesting Operations	Skid Road Construction and Rehabilitation	FERIC				Active		DCR	
Harvesting Operations	Log Measuring Accuracy of Processors and Feller-Processors	FERIC				Active		DBO	
Harvesting Operations	Cost Related to the Operation of CTI-Equipped Log Trucks	FERIC				Active		DCR	
Hydrology	WADF: Snowline Evaluation for the IWAP Procedure	BCMOF	D. Gluns	KB96063-RE		Active	Progress Reports		
Hydrology	Hydrological Recovery	BCMOF CFS	D.R. Gluns, D.A. Toews and R. Eremko	EP 967.04		Active	Draft Report	DBO Trapping Creek and DAR Murphy Creek	Lat. 49 38'N, Long. 118 56'W; Lat. 49 10'N, Long. 117 51'W
Hydrology	A Case study Evaluation of the Interior Watershed Assessment Procedure (IWAP) Level 1 Analysis Guide Book	BCMOF - NFR	D. Toews	KB96060-RE		Active	None	DAR	
Hydrology	Ringrose Slope Hydrology Project	BCMOF - NFR	D. Toews, D. Gluns, A. Salway	0		Active	Three Unpubl. Progress Reports	DAR Slokan Valley	Lat. 49 45'N, Long. 117 28'W; Lat. 49 43'N, Long. 117 27'W
Hydrology	Lysimeter and Microclimatic Investigations of Snowmelt on Selected Forest and Clearcut Sites	BCMOF - NFR	D.R. Gluns	EP 967.02		Dormant	MOF Working Report	DAR Murphy Creek	Lat. 49 10'N, Long. 117 51'W
Hydrology	Picloram Residues on Rangeland	BCMOF - NFR	D.R. Gluns	EP 1110	N/A	Active	RS-010	DBO Midway	Lat. 49 01'N, Long. 118 46'W
Hydrology	Climate and Snow Monitoring for the West Arm Demonstration Forest	BCMOF - NFR	D.R. Gluns	EP 1202		Active	TR-015	DKL Redfish and Kokanee Creeks	
Hydrology	Water Quality Monitoring Associated with a Major Forest Fire in Southeastern British Columbia	BCMOF - NFR	D.R. Gluns and D.A. Toews	EP 966		Dormant	In Symposium Proceedings	DCR Matthew Creek	betw Lat. 49 39'N to 49 45'W, and Long. 116 4'W to

									116 10'W
Hydrology	Snow Accumulation and Melt on Forest and Clearcut Sites in Southeastern British Columbia	BCMOF - NFR	D.R. Gluns and D.A. Toews	EP 967.01		Active on some sites	In Proceedings	DAR and DKL	
Hydrology	Water Quality Monitoring of a Small Spring Following Forest Harvesting	BCMOF - NFR	D.R. Gluns and K. Green			Complete 1994	TR-007		
Hydrology	Sediment Budgets of Community Watersheds in the Nelson Forest Region	BCMOF - NFR	P. Jordan	KB96047-RE		Active	Workshop Paper	DCR Gold Creek	
Hydrology	Sediment Budget of Watersheds in the West Arm Demonstration Forest	BCMOF - NFR	P. Jordan and P. Commandeur	KB96066-RE		Active	Workshop Paper	DKL Redfish and Liard Creeks	
Reforestation	Interpretation of Quality Monitoring Data	BCMOF	D.G. Simpson, A. Vyse, C.F. Thompson and C.D. Sutherland	EP 869.15		Dormant	USDA Gen. Tech. Rep. RM-167; Can. J. For. Res. (24)	DBO Traverse Creek	Lat. 49 33'N, Long. 118 35'W
Reforestation	Species Trial in the Cold Wet Subzone of the ESSF	BCMOF	R. Mohr	SX 91113N	ESSFvc+F 80	Dormant	None	DRE Kirkup Creek	Lat. 51 01'-02', Long. 118 19'-22'
Reforestation	A Study of the Effect of Lifting Date and Storage Time on the Early Growth Performance of Interior Spruce Seedlings Planted in the Summer on a Range of Sites in the Nelson Forest Region.	BCMOF	C.F. Thompson, A. Vyse	SX 87116N		Dormant	Unpubl. Progress Report and SISCO poster	DBO DCR DGO DRE	
Reforestation	A Trial with Copper-coated Styrocontainers for Raising Lodgepole Pine Planting Stock	BCMOF - NFR	A.N. Burdett, D.G. Simpson and C.F. Thompson	EP 791.03		Active	Published in Proceedings and Plant and Soil 71	DBO Lassie Lake	Lat. 49 36'N, Long. 118 56'W
Reforestation	Container Development Trials - Superplugs and Bareroots	BCMOF - NFR	A.N. Burdett, L.S. Herring and C.F. Thompson	EP 858.02		Dormant	MOF unpubl. report and Can. J. For. Res. (14)	DIN Gopher Creek	Lat. 50 33'N, Long. 116 24'W; and Long. 116 22'W
Reforestation	Field Performance of New Stock Types	BCMOF - NFR	C.F. Thompson	EP 858.04		Dormant	MOF unpubl. report	DKL Monk Creek	Lat. 49 03'N, Long. 116 56'W
Reforestation	Site Preparation Stock Size and Species Selection for Reforesting Dry Sites	BCMOF - NFR	C.F. Thompson	SX 92121N		Dormant	None	DIN Kootenay River	Lat. 50 29'N, Long. 115 40'W
Reforestation	Natural regeneration Under Partially Cut Stands in the ICH Zone	BCMOF - NFR	D. DeLong and G. Butt		ICH	Complete 1994	RS-014		
Reforestation	An Ecophysiological Study of Plantation Performance in the ICHdw - Nelson Forest Region	BCMOF - NFR, CFS?	D. DeLong	FRDA 3.25	ICHdw	Dormant	FRDA Memo No. 119, Northwest Sci. 64	DKL Redfish Creek	Lat. 49 38'N, Long. 117

										20'W
Reforestation	The Use of Photoperiodic Cultural Treatments to Induce Dormancy and Bud Formation of Spruce in Northern Nurseries	BCMOF - PGFR	C. Hawkins, D. Draper, M.J. Krasowski, T. Letchford and A.M. Eastham	EP 1042.01		Active	FRDA Report 170, FRDA Memo 229, presentation paper and BCMOF	DBO Split Creek		
Reforestation	A Field Comparison of Western Larch Seedlings Grown in Copper Treated Containers under Different Levels of Calcium	South Zone Nursery	C. Kooistra	SX 94102Q		Active	Working Plan and Progress Report	DBO Wilgress	Lat. 49 08'N, Long. 118 31'W	
Reforestation	Influence of Environmental Factors on Germination and Initial Growth of Western Larch Seedlings	UBC	M. Feller	Other - Feller	ICH, IDF, ESSF	Active	None	DCR St. Mary's and Angus		
Reforestation	An Expert System to Support Site Preparation Decisions Related to Reforestation		M. Johnston, Y. Wand and M.P. Curran			Complete 1993	Paper in INFOR., Vol. 31, No. 3			
Reforestation	Seed Production in a Young Natural Stand of Western Larch			EP 935.23		?				
Silvicultural systems	Establishment and Growth of Planted Western Larch, Interior Douglas-fir, and Paper Birch in Three Opening Sizes of a Group Selection Silvicultural System	BCMOF			ICHdw	Active		DKL Bradley Creek	Lat. 49.30N, Long 117.07W	
Silvicultural systems	Helicopter Logging for Bark Beetle Control	BCMOF - NFR	A. Hawe		ICH	Complete 1996	RS-031	WADF (DKL)		
Silvicultural systems	Case Study: Partial Cutting to Restore Old-Growth Forest Conditions in the East Kootenay Trench	BCMOF - NFR	A. Hawe and D. DeLong		IDF	Complete 1997	RS-032	DCR		
Silvicultural systems	Establishment and Growth of Planted Western Larch, Interior Douglas-fir and Paper Birch in Three Opening Sizes of a Group Selection Silvicultural System	BCMOF - NFR	D. Crampton and D. DeLong		ICH	Active	None	DKL Bradley Creek		
Silvicultural systems	Partial Cutting in Armillaria ostoyae Infected Stands	BCMOF - NFR	D. DeLong	KB96043 EP 1186	ICHmw2	Active	RS-030; Establishment Report	DAR Burton	Lat. 49 58'N, Long. 118 43'W	
Silvicultural systems	Partial Cutting in Inonotus tomentosus Infected Stands	BCMOF - NFR	D. DeLong	KB96044 EP 1186	ICHmk1	Active	RS-023; Establishment Report	DGO Mt. Seven	Lat. 51 17'N, Long. 116 56'W	
Silvicultural systems	Establishment and Development of Mixed Species Stands across a Range of Microenvironments in the ICHmw2	BCMOF - NFR	D. DeLong	KB906053 EP 1191	ICHmw2+ F67	Active	Working Plan and Progress Report	DAR Burton Creek	Lat. 49 57'N, Long. 117 53'W	
Silvicultural systems	A Retrospective Investigation of Partial Cuts in the ICHmw1 and ICHmk1 in the Golden Forest District	BCMOF - NFR	D. DeLong		ICH	Complete 1994	TR-005			
Silvicultural systems	St. Marys Residual Basal Area Study	BCMOF - NFR	J. Pollack, D. DeLong and D. Crampton	OPS.LR-355-RE	IDFdm2	Active	Unpubl. Working Plan	DCR St. Mary's	Lat. 49 38'N, Long. 116	

									01'W; Lat. 49 37'N, Long. 115 58'W
Silvicultural systems	Case Study: Patch Cutting in Old-Growth to Maintain Early Winter Caribou Habitat	BCMOF - NFR	L. Waters		ICH	Complete 1996	RS-029	Downie Creek, DRE	
Silvicultural systems	Case Study: Cable Harvesting a Strip Clearcut on Steep Slopes in an Old-Growth Interior Cedar-Hemlock Forest	BCMOF - NFR	L. Waters		ICH	Complete 1997	RS-034	Bigmouth Creek, DRE	
Silvicultural systems	A Comparison of Patch Clearcut Silvicultural Systems Using Push-over and Conventional Harvesting Methods for Armillaria Root Rot Infected Stands	BCMOF - NFR	M. Ketcheson	KB96046 OPS.LR-347-RE SX 95102N	ICH	Active	Establishment and Progress Report	DKL Westak Lake	Lat. 52 85'N, Long. 118 22'W
Silvicultural systems	Case Study: Patch Cutting in Old-Growth to Address Concerns about Wildlife Habitat and Clearcut Adjacency	BCMOF - NFR					RS-036		
Silvicultural systems	Partial Cutting and Fertilization of Lodgepole Pine in the East Kootenays to Improve Stand Health, Increase Landscape Diversity and Promote Integrated Resource Management	CFS		KB97248-0-RE		Active		NFR	
Silvicultural systems	Seed Production in a Young Stand of Western Larch	MOF		OPS.LR-361-RE (FRBC)				DIN	Lat. 50.14N, Long 115.29W
Silvicultural systems	A Retrospective Investigation of Regeneration Establishment in Partial Cuts in IDF dm2 in the Rocky Mountain Trench	MOF		KB97188-1-RE		IDF dm2		DCR	Lat. 49.30N, Long 115.46W
Silvicultural systems	Partial Cutting Prescription for Mountain Caribou in the ESSF of Southern BC - A Retrospective Investigation	MOF		KB97194-7-RE		ESSF		DKL	Lat. 49.30N, Long 117.17W
Silvicultural systems	Silvicultural Systems and Vegetation Management		D. Crampton			Complete 1993	Workshop paper		
Silvicultural systems									
Social	Baseline Survey of Community Values	BCMOF	Appropriate Forest Services			Complete 1991	Report	WADF (DKL)	
Soil Conservation	Columbia West Road Stumping Trial for Control of Armillaria Root Disease	BCMOF	D. Norris, B. Taylor	Pest Control Project 61		Complete 1988	BCFS Internal Report and Paper	DGO	
Soil Conservation	Determination of Compaction and Characterization of Disturbance Class Morphology for Soil Disturbance Classes Associated with Pushover Logging	BCMOF	L.S. Redfern		IDFdm2, ICHmw1		Working Plan	DIN Mud Creek; DGO Colepitts	
Soil Conservation	Harvesting Season and Mechanical Rootrot Control Treatment Effects on Soil Properties and Resulting Forest Productivity	BCMOF	M.R. Curran	KB96051-RE		Active	Progress Reports	DBO DIN DAR	
Soil	Soil Erosion Hazard Criteria for Watershed Assessments	BCMOF	P. Jordan	KB97225-ORE		Active			

Conservation	in the Southern Interior								
Soil Conservation	Skidroad and Skid Trail Rehabilitation Effects on Soil Properties and Resulting Forest Productivity	BCMOF		KB96049-RE		Active		NFR	
Soil Conservation	Surface Soil Erosion Following Wildfire in the Matthew Creek Watershed	BCMOF	T.F. Braumandl and S.R. Thompson	N1 - Matthew		Vegetation Component Active	Unpublished Report	DCR Matthew Creek	
Soil Conservation	Soil Texture and Calibration	BCMOF - NFR	G.P. Davis			Complete 1993	TR-002		
Soil Conservation	Stumping and Pushover Logging in the Nelson Forest Region, 1992&1993 Soil Disturbance Surveys	BCMOF - NFR	G.P. Davis and W.H. Wells			Complete 1994	TR-009		
Soil Conservation	Scalps and Gouges in the Boundary District	BCMOF - NFR	M. Curran	Curran 4					
Soil Conservation	Harvesting on Seasonal Soil Conditions	BCMOF - NFR	M. Curran	Curran 5					
Soil Conservation	Growth of Juvenile Engelmann Spruce on Skidroads	BCMOF - NFR	S.R. Thompson and M.P. Curran		ESSF	Complete 1990	RS-001		
Soil Conservation	Tree Growth on and Adjacent to Contour Skidroads in the Sub-alpine Zone, Southeastern British Columbia	CFS	R.B. Smith and E.F. Wass		ESSF	Complete 1979	CFS PFC Inf. Rep. BC-R-2		
Soil Conservation	Growth of Juvenile Lodgepole Pine on Skid Roads in the Msa and ESSFa Biogeoclimatic Subzones of Southeastern B.C.	CIF+C168, Cranbrook	S.R. Thompson		MS and ESSF	Complete 1990	Paper of preliminary results		
Soil Conservation	Forest Floor Displacement: Effects on Tree Growth and Soils	UBC	T.M. Ballard	HQ96064-RE			Progress Reports	DAR, DBO Lassie Lake	
Stand Development	Inventory Data for Analysis of Stand Structure Development	BCMOF Victoria				Complete		DKL WADF	
Stand Development	Collection of Field Data on Stand Structural Diversity in the Nelson Forest Region: Problem Analysis, Literature Review and Summary of Pilot Project		B. Herbison and W.H. Wells			Complete 1993	Paper		
Stand Management	Species Screening Trial on a Low Impact Burn	BCMOF - NFR	C.F. Thompson and M.V. Ketcheson	EP 1116.01		Dormant	Three unpubl. Reports	DRE Big Eddy Creek	Lat. 51 20'N, Long. 118 30'W
Stand Management	A Comparison of Seeding Mixes Applied to Site Prepared Areas for Vegetation Control in the Wet Climatic Region	BCMOF - NFR	C.F. Thompson, M.V. Ketcheson and P. Bauer	EP 1116.02	ICH	Dormant	FRDA Report 263, Unpublished report	DRE Frisby Ridge; Boulder Creek	Lat. 51 16'N, Long. 118 16'W; Lat. 51 01'N, Long. 118 18'W
Stand Management	Redfish Creek Prescribed Burn Vegetation Monitoring Project	BCMOF - NFR	T.F. Braumandl		ICH	Complete 1994	TR-008	WADF (DKL)	
Stand Management	Old and New Silviculture in the Cedar-Hemlock Forests of British Columbia's Southern Interior		A. Vyse and D. DeLong			Complete 1994	Paper for Proceedings		
Stand	Some Silvicultural Uses of Grass and Legumes		C.F. Thompson			Complete	Workshop paper		

Management						1994			
Stand Management	Management Issues of Larix occidentalis Forests in British Columbia		C.F. Thompson			Complete 1993	Paper for Proceedings		
Stand Management	Grass and Legume Seeding for Vegetation Control in the Nelson Forest Region - Species Screening Trial on a Low Impact Burn		C.F. Thompson and M.V. Ketcheson			Complete 1993	Summary Paper for Workshop		
Stand Management	Cover crops for Vegetation Management		C.F. Thompson and O. Steen			Complete 1993	Paper for Workshop		
Stand Tending	Operational Brushing Evaluation (PROBE) Program in the Nelson Forest Region	BCMOF		OPS.LR-273-RE (FRBC)				NFR	Lat. 49.30N, Long 117.17W
Stand Tending	Multifactor Manual Brushing Studies in the Nelson Forest Region	BCMOF - NFR	C.F. Thompson	KB96050-RE, EP 1199		Active	None	DAR Bigger Creek	Lat. 50 35'N, Long. 117 28'W
Stand Tending	0.5 ha Herbicide Trial	BCMOF - NFR	C.F. Thompson	SX 83407N	ICH	Dormant	Progress Report, Abstract and poster for workshop	DAR Tillicum Creek	Lat. 49 03'N, Long. 117 26'W
Stand Tending	Screening Trial for Herbicides used for Repression Spacing in Lodgepole Pine	BCMOF - NFR	C.F. Thompson	SX 94403N		Dormant	RS-033, unpubl. Report	DIN Lussier	Lat. 50 05'N, Long. 115 30'W
Stand Tending	Effectiveness of Repeated Manual Cutting for Release of Engelmann Spruce from Mixed-shrub Communities in the Revelstoke District	BCMOF - Victoria	P. Comeau and C.F. Thompson	EP 1135.01	ICH	Active	Unpublished Working Plan	DRE Soards	Lat. 52 01'N, Long. 118 41'W
Stand Tending	Bush River Brushing Trial	CFS	R.J. Whitehead	PFC - P36270		Dormant	FRDA Rept. 241, Inf. Rept. BC-X-??	DGO Bush River	Lat. 51 55'N, Long. 117 21'W
Stand Tending	Comparison of single and repeated annual brush treatments using clearing-saws in a mixed shrub complex of the ICHa1	CFS	R.J. Whitehead	PFC - P6171	ICH	Dormant	FRDA Rept. 28 and File Report	DKL Redfish (WADF)	Lat. 49 37'N, Long. 117 02'W
Stand Tending	Crop Tree Thinning of Western Larch	Kalamalka	W. Johnstone	EP 511	IDF	Active	Res. Note 110; RS-002	DCR Perry Creek	Lat. 49 35'N Long. 115 55'W
Stand Tending	Multifactor Trial of Manual Brushing in the Nelson Forest Region	MOF		KB96050-RE				NFR	Lat. 50.35N, Long 117.27W
Stand Tending	Effects of Overtopping Vegetation on Light Availability and Growth of Engelmann Spruce Seedlings		P.G. Comeau, T.F. Braumandl		ESSF	Complete 1993	Journal Publication Can. J. For. Res.		

			and C. Xie				1993		
Stand Tending	An Evaluation of Chondrostereum purpureum for the Control of Aspen and Sitka Alder			EP 1135.05					
Terrain Stability	Terrain and Hydrologic Factors Influencing Logging-Related Landslides in South-eastern British Columbia	BCMOF - NFR	P. Jordan and D. Toews			Complete 1993	Paper for Canadian Quaternary Assoc.		
Terrain Stability	Landslide and Terrain Attribute Study - Nelson Forest Region	MOF		KB97202-0-RE		Active		DKL	Lat. 49.30N, Long 117.17W
Terrain Stability	Snow Avalanche Activity and Decision Support in Forested and Harvested Terrain	UBC	D.M. McClung	KB97241-0RE1		Active			
Value-Added	Production of Pulp Quality Chips from Unconventional Sources	FERIC	D. Araki	HQ96300-RE			Progress Reports	DCR	
Value-Added	Characteristics of Waterlogged Wood and Implications for the Salvage of Timber from the Kinbasket Reservoir in BC	Forintec Canada Corp.		KB97157-RE				DRE	Lat. 50.59N, Long 118.12W
Value-Added	Solid Wood and Fibre Characteristics of Submerged Timber Salvage from Kinbasket Lake	Forintec Canada Corp.		KB97021-RE				DRE	Lat. 50.59N, Long 118.12W
Value-Added	Alternative Funding Sources Study	Kootenay Woodvine		KB98099-7VA				DKL	Lat. 49.37N, Long 117.34W
Value-Added	Chip Supply Review Study	Ktunaxa Kinbasket Tribal Council		KB97103-CO				DCR	Lat. 49.30N, Long 115.46W
Value-Added	Research and Development for Recovery of Submerged Wood	MOE&I		OPS.VA-034-VA (FRBC)				DGO	Lat. 49.30N, Long 117.17W
Value-Added	Feasibility Study of a Waste Wood to Heat Energy	Revelstoke Economic Development Commission		KB97069-CO				DRE	Lat. 50.59N, Long 118.12W
Value-Added	Do Log Sort Yards Benefit the Value-Added Forest Products Industry	Timberland Consultants Ltd.	C. Schadendorf	KB96082-RE		Complete 1997	Final Report		
Value-Added	Evaluation of Chop Saw Optimizing and Operating Strategies in the BC Value-added Sector	UBC	T.C. Maness	HQ96332-RE			Progress Reports	Castlegar	
Wildlife	Integrating Requirements of Grizzly Bears with Forest Practices in Managed Landscapes	BCMOF	B. McLellan	HQ96387-RE		Active	Progress Reports	DCR Flathead, DGO	
Wildlife	Integrating Mountain Caribou Requirements and Forest	BCMOF	B. McLellan	HQ96386-RE		Active	Progress Reports	DRE	

	Management in Wet Belt Ecosystems							Columbia drainage	
Wildlife	Nesting Habitat Selection by Red-breasted Nuthatches and the Role of Forest Health Agents	BCMOF	C. Steeger, M. Machmer, C. Hitchcock	EP 1187	ICHdw	Active	BCMOF TR-010	DAR Deer Creek	Lat. 49 27'N, Long. 118 15'W
Wildlife	Wildlife Tree Research in the WADF	BCMOF - NFR	C. Steeger					WADF (DKL)	
Wildlife	Case Study: Establishing Wildlife Tree Patches in an Operational Setting	BCMOF - NFR	C. Steeger and B. McLeod		ICH	Complete 1996	RS-026	Deer Creek, DAR	
Wildlife	Development of Forest Management Guidelines for the Conservation of Wildlife Tree-dependent species in the ICH biogeoclimatic zone	BCMOF - NFR	C. Steeger and J. Krebs		ICH	Complete 1993	Report		
Wildlife	Wildlife Trees and their use by Cavity Nesters in Select Stands in the Nelson Forest Region	BCMOF - NFR	C. Steeger and M.M. Machmer			Complete 1995	TR-010; RS-025		
Wildlife	A Close Look at Wildlife Trees	BCMOF - NFR	C. Steeger, J. Krebs and D. Crampton		ICH	Complete 1993	RS-011	WADF (DKL) (DKL)	
Wildlife	Roosting Ecology of Bats in the West Arm Demonstration Forest	BCMOF - NFR	M.J. Vonhof			1995	RS	WADF (DKL)	
Wildlife	Wildlife Use of Paper Birch in the Arrow Forest District	BCMOF - NFR	M.M. Machmer, C. Steeger and M. McDonough			Complete 1995	TR-012		
Wildlife	Impact of Harvesting on Habitat Use by Foraging Bats	BCMOF - NFR	S. Grindal		ICH and ESSF		RS-028	WADF (DKL)	
Wildlife	East Kootenay Lynx Ecology & Habitat Study	CBFWCP, CPS, HCTF, MOE	J. Krebs	CBT-15		Active		Columbia Valley	
Wildlife	Wolverine Ecology and Habitat Use	CBFWCP, CPS, MOF, HCTF, MOE	J.Krebs	# 010		Active		Revelstoke / Golden	
Wildlife	Mountain Lion Ecology & Ungulate Predation Study	CBFWCP, Creston R&G Club, MOE	J.Krebs, J. Gwilliam	CBT-W115		Active		Kootenay Lake	
Wildlife	R.M. Bighorn Sheep Habitat And Population Assessment	CBFWCP, EKWA, HCTF, MOE	L. Ingham	N-11		Active		Basin-Wide	
Wildlife	Grizzly And Black Bear Study	CBFWCP, FOMR&G, CPS, MOF	J.Krebs	# 011		Active		Revelstoke / Golden	
Wildlife	Small Red-Listed Mammals Study	CBFWCP, FRBC, RBCM	J. Krebs	# 032		Active		Basin-Wide	
Wildlife	East Kootenay Badger Study	CBFWCP, IVH, CPS, FRBC	L. I+D257ngham	# 013		Active		Columbia Valley	
Wildlife	North Stoddart Creek Enhancement	CBFWCP, MOF	D. Adams	#019		Active		Columbia Valley	
Wildlife	La Forme Creek Girdling	CBFWCP, MOE		N-4		Complete		Revelstoke	

Wildlife	Saddle Pasture Prescribed Burn	CBFWCP, MOE, MOF		# 020		Complete		Canal Flats	
Wildlife	Avalanche Path Habitat Study	CBFWCP, MOF, MOE	D. Adams	#018		Active		Basin-Wide	
Wildlife	North Columbia Mountain Caribou Research	CBFWCP, Parks Canada, MOF		# 022		Complete		Revelstoke	
Wildlife	Location of Suspected Bat Hibernaculum - Revelstoke Area	CBFWCP, RAC	J. Gwilliam	CBT-32		Active		Revelstoke / Golden	
Wildlife	Northern Long-Eared Bat Study	CBFWCP, U of C, Parks Canada		# 014		Complete		Revelstoke	
Wildlife	West Kootenay Mule Deer Study	CBFWCP, WSU, MOE, MOF	J. Gwilliam	# 029		Active		Arrow	
Wildlife	Pend D'Oreille California Bats Study	CBFWCP, York Univ.		N-8		Complete		Lower Arrow	
Wildlife	Effectiveness of Forest Buffers on Amphibians	MOE+C371		OPS.EN-200-RE				DAR	Lat. 49.00N, Long 117.37W
Wildlife	Woodpecker Use Assessment of Wildlife Tree Patches, 25 Years After Logging	MOE		OPS.EN-205-RE				DBO	Lat. 49.60N, Long 118.41W
Wildlife	Monitoring Changes in Wildlife Diversity during Silvicultural Systems Trials - Group Selection in the WADF	MOELP, Victoria	L. Darling		ICH			WADF (DKL)	
Wildlife	Impacts of Partial Cutting Silvicultural Systems on Furbearer Distribution and Habitat Use in the WADF	MOELP, Victoria and Nelson	A. Soobotin, L. Darling and E. Lofroth	FRDA	ICH			WADF (DKL)	
Wildlife	Landscape analysis of Caribou Habitat	MOF		OPS.EN-096-RE (FRBC)				DRE	Lat. 50.59N, Long 118.12W
Wildlife	Estimating Habitat Quality and Completing the Cumulative Effects Model for Maintaining Grizzly bear Habitat	MOF		OPS.EN-158-RE (FRBC)				NFR	Lat. 51.18N, Long 116.58W
Wildlife	Nest Tree Dynamics in the ICH	Pandion Ecological Research Ltd.	C. Steeger	KB96076-RE	ICH	Active	Progress Reports		
Wildlife	East Kootenay Trench Restoration Program: Ecological Role of Fire for Cavity-Nesting Birds	Pandion Ecological Research Ltd.	M. Machmer	KB96092-RE		Active	Progress Reports	DCR Cherry-Tata	
Wildlife	Wildlife Tree Research in the Northern Columbia Mountains	Pandion Ecological Research Ltd.	M. Machmer	KB96079-RE			Progress Reports	DRE	

Wildlife	Effects of Forestry on Grizzly Bear Habitat Use, Population Growth, and Population Persistence	UBC		KB97489-0-RE				NFR	Lat.49.40N , Long 116.50W
Wildlife	Ecological Interrelationships of Three-Toed Woodpeckers with Bark Beetles and Pine Trees	UBC, BCMOF - NFR	C. Steeger and J. Dulisse	OPS.LR.158-RE/S	ICH	Complete 1997	RS-035	Deer Creek, DAR	Lat. 50.00N, Long 117.12W
Wildlife	Impacts of Forest Harvesting on the Distribution, Abundance, and foraging and Roosting Behaviour of Bats in the WADF near Nelson, B.C.	Univs. Of Regina and Calgary	R.M. Brigham (Regina) and R.M.R. Barclay (Calgary)		ICH			WADF (DKL)	
Wildlife	Important Characteristics of Forest Stands for the Ecology of Rubber Boas, the Only Forest Reptile in BC	Uvic	P. Gregory	HQ96141-RE		Complete 1997	Final Report	East Kootenays	
Wildlife	Roosting Habitat Requirements and Population Genetics of Silver-Haired and Big Brown Bats	York Univ.		KB97182-5-RE				DAR	Lat. 49.30N, Long 117.17W
Wildlife	Bat Research in the West Arm Demonstration Forest		J. Craig		ICH, ESSF	Complete 1994	RS-013		
Workforce	Innovative Secondary Wood Manufacturing: Human Resource Development, Knowledge Transfer, Networking and Partnerships	UBC	H. Schuetze	KB97243-ORE1		Active			
Biodiversity	Multi-scale landscape interactions	UBC Faculty of Forestry	Mark Perdue	AFRF 97-09		Active			
Biodiversity	Natural and managed disturbance patterns and their implications for biodiversity management in the IDF zone	MOF Cariboo region	Harold Armleder, Michaela Waterhouse	AFRF 94-15	IDF	Active			
Biodiversity	Impact of logging activity on local ant populations	UCC	Rob Higgins	AFRF 94-12		Active			
Biodiversity	Fire periodicity, stocking and regeneration in the IDF	MOF Cariboo region, UBC Faculty of Forestry	Rick Dawson, Ordell Steen, Jerry Dobry	AFRF 94-10	IDF	Active			
Biodiversity	Effects on vegetation of prescribed fire on Interior Douglas-fir – lodgepole pine forests	UBC AFRF, UBC Faculty of Forestry	AFRF staff, Michael Feller, Claudia Hanel	AFRF 94-04		Active			
Biodiversity	Biodiversity in Interior Douglas-fir zone	MOF Cariboo region	Rick Dawson	AFRF 92-07	IDF	Active			
Biodiversity	Biodiversity in lodgepole pine managed stands	UBC Faculty of Forestry	Tom Sullivan	AFRF 92-02		Active			
Biodiversity	Effects of brushing on wildlife diversity and abundance	UBC Faculty of Forestry	Martin Gebauer, Dale Seip	AFRF 88-01		Inactive			
Biodiversity	Coarse woody debris dynamics in the IDF	MOF Cariboo region	Rick Dawson		IDF				
Biodiversity	Stand and landscape attributes and breeding bird relationships in the IDFdK3	MOF Cariboo region	Rick Dawson, Ordell Steen,		IDFdK3				

			Michaela Waterhouse						
Biodiversity	Grassland seral ecosystems descriptions	MOF Cariboo region	Ordell Steen, Ray Coupé						
Biodiversity	The role of woody debris in soil, forest floor and long-term site productivity in the SBPS biogeoclimatic one	MOF Cariboo region	Bill Chapman		SBPS				
Biodiversity	Bats and birds in the grassland/IDF interface	MOF Cariboo region, MELP Cariboo region?	Michaela Waterhouse, Harold Armleder, Rick Dawson						
Biodiversity	Effects of Lepista praemagna on IDFXm grasslands	MOF Cariboo region	Bill Chapman, Ordell Steen	MOF CR004	Doc English Pasture				
Biodiversity	Assessing impacts of forest and range management practices on identified wildlife species in the Cariboo Region	MOF Cariboo region	Michaela Waterhouse	FRBC CC96023-RE	Cariboo Forest Region	Complete	Final report		
Biodiversity	Effects of forest management on biodiversity of riparian ecosystems in Interior forests of the Cariboo-Chilcotin	SFU	Fred Cooke	FRBC CC96029-RE	Riske Creek	Ongoing	Progress report		
Biodiversity	Natural disturbance patterns in the Cariboo Forest Region	MOF Cariboo region	Rick Dawson	FRBC CC96022-RE	Cariboo Forest Region	Complete	Final report		
Communities	Researching a shared use manufacturing facility as a test model for forest dependent communities in BC	Community Futures Development Corporation of the North Cariboo	Chris Hartridge	FRBC CC97124-1RE	BC, Canada, Washington, USA	Ongoing	Progress report		
Ecosystems	E-MAN Ecological Monitoring and Assessment Network	UBC Malcolm Knapp Research Forest	Susan Leech	AFRF 97-06		Inactive			
Ecosystems	Acid rain monitoring plots	CFS	CFS staff	AFRF 92-05		Inactive			
Ecosystems	Identification of frost prone areas in the Cariboo Forest Region	MOF Cariboo region	Ray Coupé, Ordell Steen	AFRF 88-04		Inactive			
Ecosystems	Biogeoclimatic ecosystem classification of the ESSFxv2 in the Cariboo Forest Region	MOF Cariboo region	Ray Coupé, Ordell Steen	MOF EP822.04	ESSFxv2				
Ecosystems	Wetland ecosystem classification for the SBPSmk in the Cariboo Forest Region	MOF Cariboo region	Ray Coupé, Ordell Steen	MOF EP822.04	SBPSmk				
Ecosystems	Ecosystem classification for the BG and IDFXm in the Cariboo Forest Region: Grasslands, Wetland/moist shrubland, Forested ecosystems	MOF Cariboo region	Ray Coupé, Ordell Steen	MOF EP822.04	BG, IDFXm				
Ecosystems	Ecosystem classification of deciduous forests of the SBSdw1 and SBPSmk in the Cariboo Forest Region	MOF Cariboo region	Ray Coupé, Rick Dawson	MOF EP822.04	SBSdw1, SBPSmk				
Ecosystems	Grassland ecosystem classification	MOF Cariboo region	Ray Coupé, Ordell Steen		BGxh, BGxw, IDFXm				

					grasslands				
Extension	Transfer of forestry research information: a pilot project	FCSN, UCC	Tom Rankin, Lynda Wilson	AFRF 96-10		Active			
Extension	An extension strategy for the UBC/Alex Fraser Research Forest	UBC AFRF	Ken Day	FRBC CC96015-RE	UBC AFRF Gavin Lake block	Ongoing	Self-guiding trail with pamphlet		
First Nations	The effect of forest development on some plants with high First Nations traditional use values	UBC AFRF, Williams Lake Indian Band	AFRF staff, Jean Williams	AFRF 97-08		Active			
First Nations	First Nations program	CFS	Nello Cataldo		Province-wide				
Fisheries	Sport fisheries – adaptive management	University of Calgary, MELP Cariboo region, UBC Dept. of Zoology	Francois Landry, Jack Leggett, Carl Walters	AFRF 96-02		Active			
Fisheries	Radio tagging of Chilcotin River steelhead	MELP Cariboo region	Rob Dolighan			Active			
Fisheries	Sturgeon in the Fraser River	MELP Cariboo region	Maurice Lirette			Active			
Fisheries	Fraser River suckers in response to effluent discharge	MELP Cariboo region	Maurice Lirette			Active			
Insects	Dynamics of spruce weevil attack in Interior spruce plantations	CFS, UBC Faculty of Forestry, UBC AFRF	Rene Alfaro, John McLean, Lara Payne, Claire Trethewey	AFRF 98-09		Active			
Insects	Growth loss in weevil attacked spruce plantations	British forestry exchange student	Daniel Barker	AFRF 97-01		Active			
Insects	Spruce weevil permanent sample plots	MOF Cariboo region	Leo Rankin	AFRF 95-05		Active			
Insects	Relationship between incidence of aphid tending ants and spruce weevil attack levels	UCC	Rob Higgins	AFRF 95-01		Active			
Insects	Control of spruce terminal weevil with neem seed extract	UBC AFRF, Phero Tech Ltd. , MOF Cariboo region	AFRF staff, Ken Naumann, Leo Rankin	AFRF 94-09		Active			
Insects	Weevil-attacked spruce stem analysis	UBC AFRF, CFS, MOF Cariboo region	AFRF staff, Rene Alfaro, Leo Rankin	AFRF 94-01		Inactive			
Insects	Control of spruce weevil damage in spruce plantations by introduction of alternate commercial species	UBC AFRF, UBC Faculty of Forestry	Ken Day, John McLean	AFRF 91-03		Active			
Insects	Douglas-fir beetle mortality – foliage colour change	MOF Cariboo	Alana Murray	AFRF 90-13		Inactive			

		region							
Insects	Bt for control of <i>Pissodes strobi</i>	UBC Faculty of Forestry	Aileen Wardle	AFRF 90-10		Inactive			
Insects	Spruce terminal leader clipping for <i>Pissodes strobi</i> control	CFS	John Harris	AFRF 90-08		Inactive			
Insects	Gypsy moth trapping	Agriculture Canada	Owen Croy	AFRF 90-07		Inactive			
Insects	Operational perspectives on management of Douglas-fir bark beetles and mule deer winter range in the Cariboo	UBC AFRF	Ken Day	AFRF 90-06		Inactive			
Insects	Lethal trap logs for Douglas-fir bark beetle	MOF Cariboo region	Leo Rankin, Von Vickers	AFRF 90-05		Inactive			
Insects	Douglas-fir beetle: management with trap logs and the anti-aggregation pheromone MCH	UBC AFRF, Phero Tech Ltd.	Ken Day, Staffan Lindgren	AFRF 90-04		Inactive			
Insects	Risk/hazard rating for mountain pine beetle and a link to GIS	UBC Faculty of Forestry	John Kwa, Jerry Maedel, John McLean, Peter Murtha	AFRF 89-09		Inactive			
Insects	Comparative efficiency of Lindgren funnel traps and traditional traps for Douglas-fir beetle census at Beaver Valley	UBC AFRF	Ken Day	AFRF 89-02		Inactive			
Insects	Overwinter survival of Douglas-fir bark beetle at Knife Creek	UBC AFRF, MOF Cariboo region	Ken Day, Leo Rankin	AFRF 89-01		Inactive			
Insects	Spruce weevil surveys in the Cariboo Forest Region	MOF Cariboo region	Kornelia Lewis	AFRF 88-12		Inactive			
Insects	Lethal trapping systems for Douglas-fir bark beetle	UBC Faculty of Forestry	John McLean	AFRF 88-09		Inactive			
Insects	Colour IR photography of Douglas-fir bark beetle infestations	UBC Faculty of Forestry	N. Krajci, Peter Murtha	AFRF 88-07		Inactive			
Insects	Effect of frontalin on trap trees for Douglas-fir beetles	UBC AFRF, Phero Tech Ltd.	Ken Day, Staffan Lindgren	AFRF 88-02		Inactive			
Insects	Poplar mites	CFS	B. Callan	CFS 5902					
Insects	Bark beetle management	CFS	A. Carroll		ESSF				
Insects	Decision support systems for reducing forest losses from bark beetles	CFS	T. Shore	CFS 6601	ESSF				
Insects	Development of management systems for major soft- and hardwood defoliators	CFS	I. Otvos	CFS 6806	IDF, ESSF				
Diseases	Biological vs. mechanical control of <i>Armillaria</i> after harvesting	UBC AFRF, F Cariboo region	AFRF staff, Bill Chapman	AFRF 98-01		Active			
Diseases	<i>Armillaria</i> ring barking trial	MOF Cariboo region	Bill Chapman	MOF CR003	Felker and Young Lakes, Hawks Creek				
Diseases	<i>Armillaria</i> inoculation trial	MOF Cariboo	Bill Chapman	MOF CR002	UBC				

		region			AFRF, Long and Ruth Lakes, Boas Creek				
Diseases	Clonal structure of Armillaria	UBC Faculty of Forestry	Jeremy Dettman, Bart van der Kamp	AFRF 97-05		Active			
Diseases	Spread and incidence of Inonotus tomentosus in various planted tree species after logging	UBC AFRF	AFRF staff	AFRF 94-18		Inactive			
Diseases	Biological control of Armillaria	MOF Cariboo region, UBC Faculty of Soil Science	Bill Chapman, Guoping Xiao	AFRF 93-09		Active			
Diseases	Armillaria and juvenile spacing in IDF	UBC Faculty of Forestry	Bart van der Kamp	AFRF 93-02		Active			
Diseases	Armillaria in the Alex Fraser Research Forest	UBC Faculty of Forestry	Bart van der Kamp	AFRF 89-06		Inactive			
Diseases	Schlerophoma dieback of Douglas-fir	UBC Faculty of Forestry	Richard Reich, Bart van der Kamp	AFRF 87-02		Active			
Diseases	Evaluation of a biocontrol technique for root disease caused by Armillaria ostoyae	MOF Cariboo region	Bill Chapman	FRBC CC96018-RE	Cariboo Forest Region	Ongoing	Progress report		
Small Mammals	Pinosylvan animal repellent trial to reduce small mammal damage	UBC AFRF, Phero Tech Ltd., UBC Faculty of Forestry	AFRF staff, Pontus Lindgren, Tom Sullivan	AFRF 95-09		Active			
Small Mammals	Vole damage control with alternative food sources	UBC AFRF, UBC Faculty of Forestry	AFRF staff, Don Reid, Tom Sullivan	AFRF 94-17		Inactive			
Small Mammals	Limiting vole population size by predation enhancement	UBC Faculty of Forestry	Maria Leung, Don Reid	AFRF 94-13		Inactive			
Small Mammals	Integrated management of forest mammal pests: mustelid semiochemicals and diversionary foods	UBC Faculty of Forestry	Tom Sullivan	AFRF 93-10		Inactive			
Small Mammals	Effects of animal damage on spacing trials in natural stands of lodgepole pine	UBC Faculty of Forestry, MOF Cariboo region	Tom Sullivan	MOF EP845	Palmer Lake Road				
Other	Biological control of mistletoe	UBC Faculty of Forestry, CFS	Tod Ramsfield, Bart van der Kamp, Simon Shamoun	AFRF 98-02		Active			
Other	Treatment response of lodgepole pine to juvenile spacing when infested with dwarf mistletoe	UBC AFRF, UBC Faculty of	AFRF staff, Bart van der Kamp	AFRF 90-09		Inactive			

		Forestry							
Other	An unusual case of winter bud damage in BC Interior conifers	UBC Faculty of Forestry	Bart van der Kamp, John Worrall	AFRF 89-10		Inactive			
Other	Lodgepole pine – dwarf mistletoe trial	MOF Cariboo region		MOF SX82409C	Mile 7.5 Palmer L. Rd				
Other	Forest health network activities	CFS	Eric Allen	CFS 5801	Province-wide				
Forest Planning	Integrating First Nations into resource planning with GIS			AFRF 98-07		Active			
Forest Planning	Archeological overview of Alex Fraser Research Forest using GIS	UBC Faculty of Forestry	Damon Oriente	AFRF 94-06		Inactive			
Forest Planning	Applications of the PlanTS yield simulator to the UBC/AFRF	UBC AFRF, UBC Faculty of Forestry	Ken Day, Jordy Tanz	AFRF 90-01		Inactive			
Forest Planning	Landscape analysis of Chilcotin Plateau and Quesnel Highland forest ecosystems	MOF Cariboo region	Rick Dawson, Ordell Steen, Ray Coupé						
Forest Planning	Experiential methods in landscape assessment for forest resource planning and management		Susan Dakin	FRBC CC96013-RE	100 Mile House district and area	Complete	Final report		
Forest Productivity	Composting animal and wood waste for forest fertilizer	UBC AFRF	Dave Fernie	AFRF 98-08		Active			
Forest Productivity	Nitrate and ammonium uptake in forest seedlings – preferences and site interactions	UBC Faculty of Forestry	Rob Guy	AFRF 97-02		Active			
Forest Productivity	Road and landing restoration – an access management strategy	UBC AFRF	AFRF staff, Ken Day	AFRF 95-02		Active			
Forest Productivity	RTI fertilizer trials	UBC AFRF, RTI	AFRF staff, Neil Anderson	AFRF 94-11		Active			
Forest Productivity	Whole tree harvesting and the sustainability of forest ecosystem productivity – FORCYTE calibration	UBC Faculty of Forestry	Hamish Kimmins, Xiaohua (Adam) Wei	AFRF 94-05		Inactive			
Forest Productivity	Ecological effects of slash burning	UBC Faculty of Forestry	Michael Feller	AFRF 91-06		Inactive			
Forest Productivity	Forest land disposal of sewage solids (sludge) for forest fertilization	UBC Faculty of Forestry	Hamish Kimmins	AFRF 90-12		Inactive			
Forest Productivity	Productivity of interior spruce in the SBSdw subzones	UBC Faculty of Forestry	Karel Klinka	AFRF 89-07		Inactive			
Forest Productivity	Long-term productivity trial	MOF Cariboo region	Bill Chapman	MOF EP1148	Skulow L.				
Forest Productivity	76 Mile demonstration site	MOF Cariboo region	Bill Chapman	MOF CR001					

Forest Productivity	Rehabilitation of landings	MOF Cariboo region	Bill Chapman					
Forest Productivity	Arnews acid rain plot	CFS		For Can 1				
Forest Productivity	Seedling performance on severely disturbed soils	MOF Cariboo region	Bill Watt	MOF EPC8303	Buxton Lake			
Forest Productivity	Effect on the nutrition, growth and yield of immature, thinned PI	MOF Cariboo region		MOF EP886.01	Locker Fire			
Forest Productivity	Effect of fertilization on the nutrition, growth and yield of immature, thinned PI	MOF Cariboo region		MOF EP886.01	Spokin, Raven and Longjohn Lakes Vunder Fire			
Forest Productivity	Effect of fertilization on the nutrition, growth and yield of immature Interior Df	MOF Cariboo region		MOF EP886.01	Hazeltine Creek			
Forest Productivity	Range fertilization	MOF Research Branch	Brian Wikeem	MOF EP861	Beaverdam and Holden Lakes, Fly Creek			
Forest Productivity	Effect of deep and shallow ripping of landings on the establishment of seeded grass	MOF Cariboo region		MOF EP777.03	Lyne Creek Road			
Forest Productivity	The role of woody debris in soil, forest floor and long-term site productivity in MS, SBPS and SBS biogeoclimatic zones in the Central Interior of British Columbia	MOF Cariboo region	Bill Chapman	FRBC CC96019-RE	Chilcotin district			
Forest Products	Pulping, pulp and fibre properties of Interior BC spruce/pine/fir mixtures	Paprican	Paul Watson	AFRF 96-01		Active		
Forest Products	Development of Canadian plantation hardwoods	Paprican	Ken Hunt	AFRF 95-12		Active		
Forest Products	Suitability of using under-utilized species for pulp and paper – subalpine fir	Paprican	Paul Watson	AFRF 95-10		Active		
Forest Products	Characterization of the wood quality of lodgepole pine with respect to wood composites	UBC Faculty of Forestry	Simon Ellis	AFRF 94-14		Inactive		
Forest Products	Spruce weevil effects on lumber recovery	UBC AFRF, UBC Faculty of Forestry, West Fraser	AFRF staff, Stavros Avramidis, Bruce McLean	AFRF 94-07		Inactive		
Forest Products	Biotechnology and lodgepole pine	UBC Faculty of Forestry	Linda Abraham, Colette Breuil	AFRF 91-07		Inactive		
Forest Products	Pine mushroom ecology and distribution	MOF Cariboo region	Bill Chapman					
Forest	Investigation into the cultivation of Hericium as a	MOF Cariboo	Bill Chapman					

Products	commercial enterprise	region							
Genetics	Forest genetics – realized gain demonstration planting	UBC Faculty of Forestry	Sally Aitken	AFRF 97-07		Active			
Genetics	Genetic diversity in trees and forest pathogens	CFS	Eleanor White	CFS 5905	Province-wide				
Growth and Yield	Calibration of 'Prognosis' for IDF forests	MOF Research Branch	Catherine Bealle	AFRF 92-09		Active			
Growth and Yield	Uneven-aged Interior Douglas-fir stand development and factors influencing tree and stand growth	CFS	Mike Bonnor, Paul Boudewyn	AFRF 92-06		Active			
Growth and Yield	Survival, growth and yield of three native hardwood, lodgepole pine and interior spruce on five sites in the Cariboo	MOF Cariboo region	Nola Daintith	AFRF 91-08		Active			
Growth and Yield	Volume loss due to Armillaria ostoyae in the Moffat Supply Block	MOF Cariboo region	Don Doidge	AFRF 90-03		Inactive			
Growth and Yield	Lodgepole pine provenance trial	UBC Faculty of Forestry	Oscar Sziklai	AFRF 88-13		Inactive			
Growth and Yield	Growth and yield plots located in the Gavin Lake block	MOF Cariboo region	MOF staff	AFRF 88-08		Active			
Growth and Yield	Potential growth of Interior Douglas-fir stands managed for timber and mule deer winter range	UBC Faculty of Forestry	Peter Marshall, Albert Nussbaum	AFRF 88-03		Active			
Growth and Yield	Old Growth Site Index project	MOF Inventory Branch, MOF Cariboo region	Albert Nussbaum, Sam Davis		Province-wide	Complete	Report to Chief Forester		
Growth and Yield	Permanent sample plots	MOF Inventory Branch, Industry	Sam Davis		Province-wide	Ongoing	Growth prediction models, Variable Density Yield Projections completed		
Growth and Yield	Permanent sample plots in Gaspard and targeting missing information in MS and SBPS	MOF Cariboo region	Sam Davis		Gaspard, Satah	Ongoing			
Growth and Yield	Volume and decay in Chilcotin pine	MOF Cariboo region	Ron Osland		Chilcotin district	Complete			
Growth and Yield	Operational trial of superior provenances of interior spruce	MOF Silviculture Branch	Ralph Winter	MOF SX84118Q	Weaver and Mary Creeks				
Growth and Yield	Growth and yield of spaced residual stands of drybelt Douglas-fir	MOF Cariboo region		MOF EP987.03	Anderson Rd., Meldrum Cr., ST92P11J S				
Growth and Yield	Douglas-fir progeny	MOF Cariboo region		MOF EP976	Mitchell Bay, Skulow Lake				

Growth and Yield	Interior spruce growth and yield trial	MOF Kalamalka Research Station	Wayne Johnstone	MOF EP946.13	Gavin Lake				
Growth and Yield	Growth and yield Df trials	MOF Kalamalka Research Station	Wayne Johnstone	MOF EP922.9	Veith Lake				
Growth and Yield	Growth and yield PI trials	MOF Kalamalka Research Station	Wayne Johnstone, Rob Brockley	MOF EP922.3, MOF EP922	Ramsey Cr., Deserters Island, Raven Lake				
Growth and Yield	Maximizing the productivity of lodgepole pine in the Interior of BC	MOF Cariboo region		MOF EP886.13	Sheridan Creek				
Growth and Yield	Effect of optimum and conventional fertilization on the growth and yield of immature PI	MOF Cariboo region		MOF EP886.13?	Crater Lake				
Growth and Yield	Progeny test site	MOF Cariboo region		MOF EP819					
Growth and Yield	Lodgepole pine wind-pollinated progeny trial	MOF Cariboo region		MOF EP 770.20	Moffat Creek, Bowron Lake				
Growth and Yield	Douglas-fir provenance trial	MOF Cariboo region		MOF EP688.03	Mile 11 Wells Highway				
Growth and Yield	Interior spruce genetics	MOF Kalamalka Research Station	Gyula Kiss	MOF EP670.71.08	Frye Creek				
Growth and Yield	Interior spruce progeny trial	MOF Kalamalka Research Station	Gyula Kiss	MOF EP670	Mile 2 500 Road				
Growth and Yield	Lodgepole pine provenance trials	MOF Research Branch	Keith Illingworth	MOF EP657.06	13 sites throughout region				
Growth and Yield	Growth of uneven-aged Interior Douglas-fir stands	UBC Faculty of Forestry	Peter Marshall	FRBC CC97123-2RE	Vicinity of Williams Lake	Ongoing	Progress report		
Growth and Yield	A commercial thinning trial in young lodgepole pine	West Fraser Mills Ltd.	Tom Turner	FRBC CC96028-RE	Quesnel	Ongoing	Progress report		
Inventory and Mapping	Remote sensing – landscape modeling	UBC Faculty of Forestry	Wolfgang Vrzal	AFRF 95-14		Active			
Inventory and Mapping	Regression analysis with remote sensing data	UBC Faculty of Forestry	Peter Murtha	AFRF 95-08		Inactive			
Inventory and Mapping	Vegetation inventory system for								
Inventory and Mapping	BC – pilot study	Timberline Ltd., MOF Inventory Branch	John Johnson, Verne Sundstrom	AFRF 93-08		Inactive			
Inventory and	Large scale photography digital frame cameras for forest	MELP Habitat	Dave Clark,	AFRF 93-07		Inactive			

Mapping	inventory	Inventory Section, MOF Inventory Branch	Xiaoping Yuan						
Inventory and Mapping	Global positioning system field testing	Durfeld Geological Management Ltd.	Rudi Durfeld	AFRF 92-12		Inactive			
Inventory and Mapping	Permanent sample inventory plots – Knife Creek	MOF Cariboo region	Sam Davis	AFRF 91-10		Active			
Inventory and Mapping	Assessment and monitoring of revegetation in forest clearcuts using Landsat data	UBC Faculty of Forestry	Arun Bansal, Peter Murtha	AFRF 87-01		Inactive			
Operations	Logging load recorder	FERIC, UBC AFRF	Marv Clarke, Ken Day	AFRF 96-09		Active			
Operations	Log measuring accuracy of cut-to-length harvesters and processors	FERIC	Bjorn Andersson	FRBC CC97139-ORE		Ongoing	Progress report		
Operations	Commercial thinning in Douglas-fir near Quesnel, Williams Lake and Adams Lake using ground-based systems	FERIC	Janet Mitchell	FRBC CC96030-RE	TFL 5, Quesnel and Horsefly districts	Terminated	Progress report		
Recreation	Recreation site use study – Dorsey Lake	UBC Faculty of Forestry	P.J. Dooling	AFRF 87-04		Inactive			
Reforestation	Biological control of fireweed	UBC Dept. of Zoology. CFS	Sam Hicks, Judy Meyers, Simon Shamoun	AFRF 98-04		Active			
Reforestation	Bioherbicide for Rubus – Fusarium avenaceum	CFS	Simon Shamoun	AFRF 96-07		Active			
Reforestation	Relationship between forking and planting depth in young lodgepole pine plantations	UBC AFRF	AFRF staff	AFRF 96-06		Active			
Reforestation	Monsanto herbicide/conifer damage trial	Monsanto	Guy Paquette, Jim Weston	AFRF 96-03		Inactive			
Reforestation	Regeneration performance on inverted humus and mineral mounds on wildlife in MSxv	MOF Cariboo region	Nola Daintith	MOF SX95102	Kloa Fire				
Reforestation	Comparison of Pli copper treated and untreated plug seedling growth within the SBS	UBC AFRF	AFRF staff	AFRF 94-08		Active			
Reforestation	Douglas-fir release in the IDF	UBC Faculty of Forestry, Oikos Ecological Services	Karel Klinka, Harry Williams	AFRF 94-03		Inactive			
Reforestation	NIVMA installation – Fd/PI planting density trial in the SBS	UBC AFRF	AFRF staff	AFRF 94-02		Active			
Reforestation	NIVMA installations – vegetation response to clump vs. mixed bag planting regimes	UBC AFRF	AFRF staff	AFRF 93-15		Active			
Reforestation	Planting microsite selection and conifer seedling performance	UBC Faculty of Forestry	AFRF staff	AFRF 93-14		Active			
Reforestation	Shade tolerance of Douglas-fir and lodgepole pine in the	UBC Faculty of	Gordon	AFRF 93-13		Inactive			

	IDF zone	Forestry	Kayahara, Karel Klinka						
Reforestation	Effects of rapid on-site thawing of planting stock on seedling quality and establishment success	UBC Faculty of Forestry	Rob Guy, Salim Silim	AFRF 93-11			Active		
Reforestation	Tree tubes: comparison of several types for vole damage	UBC AFRF, CFE Crosby Supplies	AFRF staff, CFE Crosby Supplies	AFRF 93-06			Inactive		
Reforestation	NIVMA installation – Tredegar brush blankets field trials	UBC AFRF, CFE Crosby Supplies	AFRF staff, CFE Crosby Supplies	AFRF 93-05			Active		
Reforestation	Aquamend polymer field trials	UBC AFRF, AquaMarket Corporation	AFRF staff, Jack MacDonald	AFRF 93-04			Inactive		
Reforestation	Planting prescriptions to reduce spruce weevil damage	UBC AFRF	AFRF staff	AFRF 93-03			Active		
Reforestation	Palatability to mule deer of Douglas-fir seedlings from different latitudes	Utah State University	Dawn Vernon	AFRF 92-10			Inactive		
Reforestation	Arbortech brush blankets for control of competing vegetation in conifer plantations	UBC AFRF	Bev Atkins, Ken Day	AFRF 92-03			Inactive		
Reforestation	Bacterial inoculation of conifer seedlings with five different strains	UBC Faculty of Forestry	Chris Chanway, Greg O'Neill	AFRF 91-05			Inactive		
Reforestation	Assessment of bacterial strains for effectiveness in promoting the growth of conifer seedlings on a forest site	BC Research	Paige Axelrood, Reed Radley	AFRF 91-02			Inactive		
Reforestation	Effects of cold storage on physiology	UBC Faculty of Forestry	Al Balisky, Phil Burton	AFRF 90-14			Inactive		
Reforestation	Ecophysiological assessment of embryogenesis-derived seedlings (emblings) vs. seedlings	BC Research	Steve Grossnickle, John Major	AFRF 90-11			Inactive		
Reforestation	Vision efficacy demonstration	MOF Cariboo region		MOF SX89703	Tasse Creek				
Reforestation	Monitoring of Velpar-damaged spruce	MOF Cariboo region	Jane Perry	MOF SX89702	E of Quesnel		Inactive		
Reforestation	Comparison and growth of container spruce seedlings	MOF Cariboo region		MOF SX89128	Deerhorn Creek				
Reforestation	Comparison of spring and summer planting	MOF Cariboo region		MOF SX89128	3 locations in WL district				
Reforestation	Field trials comparing survival and growth of container seedlings of different species	MOF Cariboo region		MOF SX89122C	Enterprise Rd., Gravel Cr., Tyee L.				
Reforestation	Browsing on seedling Ani-pel trial	MOF Cariboo region		MOF SX89121	Churn, Hazeltine Cr., Jacobie L.				
Reforestation	Plantation of Douglas-fir seedlings on a frost-prone site in the ICHe2	UBC AFRF, UBC Faculty of Forestry	Ken Day, Bart van der Kamp	AFRF 88-06			Inactive		

Reforestation	Effect of plant growth regulators and photoperiod upon the vigor of seedlings	UBC Faculty of Forestry	Dennis Lavender	AFRF 88-05		Inactive			
Reforestation	Growth of container spruce seedlings trial	MOF Cariboo region	Teresa Newsome	MOF SX88101C	Deacon, Sutherland & Prairie Creeks				
Reforestation	Stocktype trial: comparison of high and low elevation families three stock types of lodgepole pine	MOF Kalamalka Research Station	Mike Carlson, Kalamalka staff	AFRF 87-06, MOF EP770.54		Inactive			
Reforestation	Comparisons of spruce and pine performance on a heavily burned IChE site (demonstration)	UBC AFRF, MOF Cariboo region	Ken Day, Jane Perry	AFRF 87-03		Inactive			
Reforestation	Hardwood girdling at three phenological stages	MOF Cariboo region	Jane Perry	MOF SX87704C		Inactive			
Reforestation	Performance of interior spruce on D8 moulder prepared, V blade and untreated sites	MOF Cariboo region	Nola Daintith	MOF SX87506	Bosk Lake				
Reforestation	Fertilization of spruce plantations one or more years following planting	MOF Cariboo region		MOF SX87104C	Mackay River				
Reforestation	Spruce plug seedlings survival and growth with slow release fertilization trial	MOF Cariboo region		MOF SX87103C	Whiskey Bridges				
Reforestation	Sheep grazing as a vegetation management tool in the Cariboo Forest Region	MOF Cariboo region	Teresa Newsome	MOF SX86711 SX85701	Horsefly district				
Reforestation	Sheep grazing on mixed species plantations	MOF Cariboo region	Teresa Newsome	MOF SX86711 SX85701	Horsefly district				
Reforestation	Velpar herbicide spot application trial	MOF Cariboo region		MOF SX86706C	Alice Creek				
Reforestation	Cooperative chemical root prune trial	MOF Cariboo region		MOF SX86124Q	Walker Mtn.				
Reforestation	Comparison of copper carbonate treated PI PSB 211 stock	MOF Cariboo region		MOF SX86108Q	Chezicut				
Reforestation	RGC trial	MOF Cariboo region		MOF SX86104C	Hendrix Lake				
Reforestation	Root culturing effects on the field performance of lodgepole pine	MOF Cariboo region		MOF SX86103Q	Moore Creek				
Reforestation	Comparative study of three herbicides and a manual brush control in the ESSFh	MOF Cariboo region		MOF SX85702C	Mackay River				
Reforestation	Comparison of interior Df PSB 313 stock from three nurseries	MOF Cariboo region		MOF SX85113C SX82113C	Mackay River, McKusky and Collins Creeks				
Reforestation	Effect of deep ripping on the performance of PI and Fd	MOF Cariboo region		MOF SX85112C	Skulow Lake				
Reforestation	Outplanting performance of interior spruce with different root growth capacities	MOF Cariboo region		MOF SX85110C	Lodi Lake				
Reforestation	Effect of screening and scarification on growth and	MOF Cariboo	Nola Daintith	MOF SX84503	Beedy				

	survival of seedlings in heavy grass	region			Creek				
Reforestation	Fertilizing interior spruce at time of planting	MOF Cariboo region		MOF SX84115Q	Nikwit Lake				
Reforestation	Lodgepole pine plug pruning trial	MOF Cariboo region		MOF SX84102Q	Skulow Lake				
Reforestation	Effect of container size on the field performance of interior spruce	MOF Cariboo region		MOF SX82115C	Research Cr., Benny L.				
Reforestation	Comparison of interior Df PSB 313 stock								
Reforestation	Stock quality monitoring trials	MOF Cariboo region		MOF FRDA 3.9	Gotchen Lake, Molybdenite Creek				
Reforestation	Herbicide rate and timing trial	MOF Cariboo region		MOF FRDA 3.41	Boss Creek				
Reforestation	The effect of mounding on spruce establishment and early growth	MOF Cariboo region	Warren Mitchell	MOF EPC8003	Matthew River				
Reforestation	Shelter cone trial	MOF Cariboo region		MOF EPC8002	TFL 5				
Reforestation	Blackwater prescribed burning trial	MOF Cariboo region		MOF EPC7802	Blackwater Road, km 55				
Reforestation	Direct seeding of encapsulated PI seed	MOF Cariboo region		MOF EPC7702	Tzenzaicut Lake				
Reforestation	Frost hardiness as a predictor of post-storage root growth capacity in conifer species	MOF Cariboo region		MOF EP964.7	Skulow Lake				
Reforestation	Comparison of slow release and soluble fertilizer applied at planting to interior spruce	MOF Cariboo region		MOF EP946.04	Benny Lake				
Reforestation	Seedling quality trials	MOF Cariboo region		MOF EP869.09	Bendixon Lake, Mary and Boss Creeks				
Reforestation	Frost hardiness as a predictor of post-storage ??	MOF Cariboo region		MOF EP869.07	Skulow Lake				
Reforestation	Interior spruce planting delay trials	MOF Cariboo region	Alan Vyse	MOF EP859.11	24K Road, Antoine Lake				
Reforestation	Response of Interior spruce to long delays between burning and planting	MOF Cariboo region	Teresa Newsome	MOF EP859.11	McKuskey Creek				
Reforestation	Hot planting Interior spruce on freshly logged and burned sites	MOF Cariboo region	Alan Vyse	MOF EP859.10	5 sites in Quesnel and Horsefly districts				
Reforestation	Early growth and survival of Interior spruce	MOF Cariboo	Alan Vyse	MOF EP859.06	9 sites in				

		region		EP859.04	Quesnel and Horsefly districts				
Reforestation	Interior spruce stock types and fertilization trials	MOF Cariboo region		MOF EP858.04	McKusky Creek				
Reforestation	Undercutting nursery seedling trial	MOF Research Branch	Bob van den Driessche	MOF EP846.03	3500 Road				
Reforestation	Improving plantation performance of Df and PI with mechanical site preparation and fencing	MOF Cariboo region		MOF EP841.07	Hances Timber, Sheridan Creek				
Reforestation	Site preparation options for improving plantation performance in low precipitation areas	MOF Cariboo region		MOF EP841.06	Beedy and Sheridan Creeks, Em Fire, Axe Lake				
Reforestation	Direct seeding trial	MOF Cariboo region		MOF EP841.05	Blue Lake				
Reforestation	Patch scarification trials	MOF Cariboo region		MOF EP841.04	CP "X", Third and Sto Fires				
Reforestation	Seedling assessment trials	MOF Cariboo region		MOF EP836	Fritz Creek				
Reforestation	Outplanting of Nibex spaced stock	MOF Cariboo region		MOF EP786.06	McKusky Creek				
Reforestation	Cariboo region stock trial	MOF Cariboo region		MOF EP697	Gavin and Boscar Lakes				
Reforestation	Toppling pine stability trial	MOF Cariboo region		MOF EP1169.01	Jackson Lake				
Reforestation	Native hardwood reforestation trials	MOF Cariboo region		MOF EP1136 EP1136.01	5 locations in 4 districts				
Reforestation	Legume and grass seeding for brush control in the ICH and ESSF zones	MOF Cariboo region	Ordell Steen	MOF EP1105 FRDA 3.68	5 sites in Horsefly district				
Reforestation	Frost prone sites in the Central Interior plateau: recognition and management	MOF Cariboo region	Ordell Steen	MOF EP1103					
Reforestation	Photoperiodic cultural treatments to induce dormancy of spruce in northern nurseries	MOF Cariboo region		MOF EP1042.03, EP1042.02, FRDA 1.36	Doreen Creek, Antoine Lake				
Reforestation	Seedling quality frost hardiness trials	MOF Cariboo region		MOF EP869.07	Skulow Lake				

Reforestation	Root form of planted PI: effect of container, planting technique and microsite	MOF Cariboo region	Teresa Newsome, Bill Chapman						
Reforestation	Post-logging treatment options for natural regeneration of lodgepole pine	MOF Cariboo region	Ordell Steen, Ray Coupé	MOF EP1144					
Reforestation	Legume and grass seeding for brush control on mechanically prepared backlog brushfield sites in the ICH and ESSF	MOF Cariboo region	Ordell Steen, Ray Coupé						
Reforestation	Forest seedling health clinic	CFS	J. Dennis	CFS 3005	Province-wide				
Riparian and Hydrology	Stream benthos response to riparian management	UBC Faculty of Forestry	John Richardson	AFRF 96-04		Active			
Riparian and Hydrology	Modeling riparian corridors as linkages	UBC Faculty of Forestry	Susan Glenn	AFRF 95-06		Inactive			
Riparian and Hydrology	Blue Lead Creek suspended sediment monitoring	MOF Cariboo region	Patrick Teti		Blue Lead Cr, Horsefly	Inactive			
Riparian and Hydrology	Horsefly River suspended sediment monitoring	MOF Cariboo region	Patrick Teti		Horsefly R.		Progress report		
Riparian and Hydrology	Effects of logging roads and road deactivation on surface erosion and hydrology	MOF Cariboo region	Patrick Teti, Bill Chapman	FRBC CC96020-RE	Williams Lake and Horsefly districts, UBC AFRF	Complete	Final report		
Riparian and Hydrology	Coliform bacteria in drinking water	MOF Cariboo region	Patrick Teti			Inactive	Pilot study completed		
Riparian and Hydrology	Pilot study of riparian biological communities in the MSxv – a first look at vegetation, breeding bird and amphibian communities	MOF Cariboo region	Michaela Waterhouse, Harold Armleder, Rick Dawson, Ray Coupé						
Riparian and Hydrology	Riparian corridors	Lignum Ltd.	Dave Conly	FRBC CA-60-96-005	Cariboo Forest Region	Complete	Final report		
Riparian and Hydrology	Stream temperature monitoring of Horsefly River	MELP Cariboo region	Rob Dolighan			Active			
Silvicultural Systems	Silvicultural systems windfirmness pilot study	UBC Faculty of Forestry	Steve Mitchell	AFRF 93-12		Inactive			
Silvicultural Systems	Development of stand goals for small group selection management systems on mule deer winter range	UBC AFRF, UBC Faculty of Forestry	Ken Day, Peter Marshall, Gordon Weetman	AFRF 93-01		Active			
Silvicultural Systems	Seedbed ecology in shelterwood sites	UBC Faculty of Forestry	Phil Burton	AFRF 92-04		Active			
Silvicultural	Uniform shelterwood systems for even-aged Douglas-	Weldwood of	Chris Burger,	AFRF 89-03,	Gavin	Active	Self-guiding trail with		

Systems	fir/lodgepole pine stands in the SBSdw1 subzone	Canada Ltd., UBC AFRF, MOF Cariboo region	Ken Day, Michaela Waterhouse	MOF EP1104.01, FRBC CC96027- RE	Lake, UBC AFRF, Beedy Creek		pamphlet MOF Extension Notes		
Silvicultural Systems	Group selection systems to maintain caribou habitat in high elevation forests in the Cariboo Forest Region	MOF Cariboo region	Michaela Waterhouse, Harold Armleder, Teresa Newsome, Ordell Steen, Patrick Teti	MOF EP1104.02, FRBC CC96027- RE	Blackbear and Grain Creeks (ESSFwc3)	Active	Self-guiding trail with pamphlet MOF Extension Notes		
Silvicultural Systems	Group selection systems pilot project	MOF Cariboo region	Michaela Waterhouse	MOF EP1104.02	Blackbear Creek, CP113				
Silvicultural Systems	Silvicultural systems to maintain northern caribou habitat in lodgepole pine forests in the MSxv and SBPSxc subzones	MOF Cariboo region	Michaela Waterhouse, Harold Armleder, Teresa Newsome, Ordell Steen, Bill Chapman	MOF SS067, FRBC CC96027- RE	Satah Mtn.	Active			
Silvicultural Systems	Northern caribou silvicultural systems adaptive management block	MOF Cariboo region	Michaela Waterhouse	MOF SS067	Satah Mtn., Chezacus	Active			
Silvicultural Systems	Alternative silvicultural systems for Douglas-fir stands on heavy snowfall mule deer winter range	MOF Cariboo region	Michaela Waterhouse, Harold Armleder	MOF SS525, FRBC CC96027- RE	Viewland Mtn.				
Silvicultural Systems	Natural regeneration in managed uneven-aged Douglas- fir stands in the Cariboo Forest Region	MOF Cariboo region	Michaela Waterhouse	FRBC CC96027- RE	IDF	Complete	Final report		
Social	Forensic entomology – burial	SFU Dept. of Biol. Sciences, University of Arkansas	Gail Anderson, Sherah VanLaerhoven	AFRF 95-04	Inactive				
Social	Forensic entomology – above ground	SFU Dept. of Biol. Sciences	Gail Anderson, Leigh Dillon	AFRF 95-03	Inactive				
Social	Art in the forest	Society for Public Art Projects	Rick Gibson	AFRF 92-11	Inactive				
Soils	Evaluation of new methodology for measuring soil disturbance	MOF Cariboo region	Bill Chapman	FRDA II 3.3 BC- IR33					
Soils	Development of soil degradation indices for small tractor skidroads	FERIC, MOF Cariboo region	Bill Watt	FERIC 409	Cariboo Lake				
Stand Management	Suitability of native hardwoods for reforestation and their effect on long-term soil nutrient status	MOF Cariboo region	Teresa Newsome						
Stand Management	Mixedwood issues in the ICH	MOF Cariboo region	Teresa Newsome						

Stand Management	Siberian larch growth and performance trial	UBC AFRF	AFRF staff	AFRF 97-03		Active			
Stand Management	Douglas fir underplant trial	MOF Cariboo region		MOF EP841.08	6 sites in 3 districts				
Stand Management	Effect of aspen density and stocking on the performance of coniferous stands	MOF Cariboo region		MOF EP1152.02	6 sites				
Stand Management	Treatment development for rehabilitating ESSF backlog brushfields	MOF Cariboo region		MOF EP1021, FRDA 1.17	13G Road				
Stand Management	Pine ingress study	MOF Cariboo region	Ordell Steen	MOF EP1144	5 sites				
Stand Management	Hardwood and mixedwood research in the Cariboo Forest Region	MOF Cariboo region	Teresa Newsome	FRBC CC96025-RE	Cariboo Forest Region	Ongoing	Progress report		
Stand Tending	Growth response to juvenile spacing in uneven-aged Interior Douglas-fir stands	UBC AFRF, UBC Faculty of Forestry	AFRF staff, Peter Marshall	AFRF 98-05		Active			
Stand Tending	Multi species spacing trial	UBC AFRF		AFRF 98-03		Active			
Stand Tending	Height repressed lodgepole pine rehabilitation trial	MOF Cariboo region		MOF SX97403C	Rosita Fire				
Stand Tending	Incremental silviculture in Interior Douglas-fir stands	UBC AFRF	AFRF staff	AFRF 96-05		Active			
Stand Tending	Juvenile spacing lodgepole pine by girdling (demonstration)	UBC AFRF	Ken Day	AFRF 89-05		Active			
Stand Tending	Spacing regimes for maintenance of habitat diversity	MOF Cariboo region	Harold Armleder	AFRF 89-04		Active			
Stand Tending	Spacing regimes to develop mule deer winter range habitat	MOF Cariboo region, UBC AFRF, UBC Faculty of Forestry	Harold Armleder, Ken Day, Peter Marshall	AFRF 88-11		Active			
Stand Tending	Christmas tree culture for School District 27	SD 27, UBC AFRF	Brent Cheek, Ken Day	AFRF 88-10		Inactive			
Stand Tending	Assessing aspen-pine competition in young stands in the Cariboo Forest Region	MOF Cariboo region	Teresa Newsome						
Stand Tending	Treatment options of repressed pine stands in the Cariboo Forest Region	MOF Cariboo region	Teresa Newsome						
Stand Tending	Pine spacing trial	MOF Cariboo region		MOF SX87407C	100 Road				
Stand Tending	Spacing trials for interior Douglas-fir	MOF Cariboo region		MOF EP922.14	Doreen Lake				
Stand Tending	Interior PI spacing trials	MOF Cariboo region		MOF EP964.18, EP964.17, EP 922.11	Chilko Newton, Kloakut Lake,				

					Lower Pantage Creek				
Stand Tending	Douglas-fir spacing trial	MOF Kalamalka Research Station	Wayne Johnstone	MOF EP922.13	Joes Lake				
Stand Tending	Comparison of cottonwood whips with rooted naturals to restock wetter NSR strata	UBC AFRF	AFRF staff	AFRF 95-11		Active			
Stand Tending	Survival and growth of Siberian larch versus five native species	MOF Cariboo region		MOF SX87110C	Palmer L. Rd.; Deacon, Sutherland & Prairie Creeks				
Stand Tending	Species trial, including white pine, in the ICHb subzone	MOF Cariboo region		MOF EP904.1	Research & Hazeltine Cr.'s, Clearbrook Wet				
Stand Tending	White pine trial	MOF Cariboo region		MOF EP904.01	Clearbrook Dry, McKusky Low, Benny L.				
Visual Quality	Visual quality modeling of partial cutting near Gavin Lakes	UBC AFRF	Ken Day, Stephen Sheppard	AFRF 98-06		Active			
Visual Quality	Visual impact modeling – Gavin Lake	UBC Faculty of Forestry	Jennifer Morrison	AFRF 95-07		Inactive			
Wildlife	A comparative study into wildlife use of leave strips within juvenile spaced blocks in central Interior BC	Exchange student, Bangor, UK	Rob Eldred	AFRF 97-04		Inactive			
Wildlife	Bat research – Gavin Lake	Consulting Naturalist, MELP Cariboo	Anna Roberts, Gina Roberts, Jim Young	AFRF 95-13		Inactive			
Wildlife	Wildlife diversity in shelterwoods	MELP Cariboo region	Dagmar Keisker, Herb Langin	AFRF 92-01		Inactive			
Wildlife	Diversity of small mammals in the IDFb2: preliminary survey on mule deer winter range at the Knife Creek block	MOF Cariboo region	Harold Armleder	AFRF 91-09		Inactive			
Wildlife	Relationship of small mammal populations to uniform even-aged shelterwood systems	UBC Faculty of Forestry	Thomas Friese, Tom Sullivan, Charlotte von Trebra	AFRF 91-04		Inactive			
Wildlife	Integration of timber and mule deer management on the	UBC AFRF	Ken Day	AFRF 91-01		Inactive			

	Gavin Lake block: a case study in integrated management								
Wildlife	Cariboo fisher transplant study	SFU, MELP Cariboo region	Alton Harestad, Darryl Hebert	AFRF 90-02		Inactive			
Wildlife	Mule deer pellet group transects in the Knife Creek winter range	MELP Cariboo region	Herb Langin	AFRF 89-08		Inactive			
Wildlife	Mule deer/forest management research	MOF Cariboo region	Harold Armleder, Rick Dawson, Michaela Waterhouse	AFRF 87-00, MOF EP903	UBC AFRF Knife Creek block	Active			
Wildlife	The effects of spacing on wildlife in IDF sands in the central Interior of BC	MOF Cariboo region	Harold Armleder	MOF EP1149					
Wildlife	Habitat use of northern caribou in relation to harvesting activities	MOF Cariboo region	Harold Armleder						
Wildlife	Timber and mule deer management coordination	MOF Cariboo region	Harold Armleder						
Wildlife	Mule deer habitat mapping	MOF Cariboo region, MELP Cariboo region, Industry	Rick Dawson, Harold Armleder						
Wildlife	The relationship of forest stand attributes to snow interception on mule deer winter ranges	MOF Cariboo region	Rick Dawson, Harold Armleder						
Wildlife	Integrated forestry – mule deer management	MOF Cariboo region		MOF EP903.01	Beaver Valley, Knife and Churn Creeks				
Wildlife	Mule deer forestry study	MOF Cariboo region		MOF EP903	Big Lake TFL 5				
Wildlife	Effects of spacing on wildlife habitat in IDF	MOF Cariboo region	Harold Armleder	MOF EP1149	Knife Creek				
Wildlife	Research supporting caribou habitat conservation	MELP Cariboo region	Jim Young		ESSF, MS	Active			

<i>Acronym</i>	<i>Definition</i>
BCMOF	BC Ministry of Forests
CBFWCP	Columbia Basin Fish & Wildlife Compensation Program
CFI	Council of Forest Industries
CFS	Canadian Forest service
CPS	Canadian Park Service
EKES	East Kootenay Environment Society
EKWA	East Kootenay Wildlife Association
FERIC	Forest Engineering Research Institute of Canada
FOMR&G	Friends of Mt. Revelstoke & Glacier
FRBC	Forest Renewal BC
HCTF	Habitat Conservation Trust Fund
IOS	Institute of Ocean Sciences
IVH	Invermere Veterinary Hospital
MOE	Ministry of Environment
MOELP	Ministry of Environment, Lands and Parks
RAC	Revelstoke Advisory Committee
RBCM	Royal British Columbia Museum
RR&L	RL & L Environmental Services
SFU	Simon Fraser University
TWA	Trail Wildlife Association
U of C	University of Calgary
UBC	University of British Columbia
UNBC	University of Northern British Columbia
Uvic	University of Victoria
WKFF	West Kootenay Fly Fishers
WSU	Washington State University