

Sustainable Forest Management

2016 Facts & Statistics

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Agriculture and Forestry

Monitoring Forest Operations

Since 1930, the Alberta government has monitored forest industry activities by conducting timber inspections of harvested areas. This work began in the forest reserves in southwestern Alberta when the province took over the ownership and management of natural resources from the federal government, under the mandate of the newly-created Alberta Forest Service.

In 1966, a forest tenure system that allocated the right to harvest Crown timber to companies and individuals was introduced. Designated Forest Officers appointed by the Minister carried out timber inspections of harvested areas to ensure standards and legislation were followed.

Forestry activities must be completed according to the approved plans and provincial legislation. In May 2008, the department launched the Forest Operations Monitoring Program (FOMP) to standardize how department inspections of active timber harvesting (Figure 1) and reforestation activities are conducted. The program also includes an internal audit process to ensure consistency of inspections and reporting. Non-compliant activities identified during an inspection may be subject to enforcement actions, such as financial penalties. FOMP is an important tool to help ensure the sustainability of our forests.

In May 2009, FOMP was awarded the International Organization for Standardization (ISO) 9001:2008 certification and was re-certified in April of 2012. Alberta is the only province to have such a monitoring program registered under the ISO 9001:2008 standard. With this certification, FOMP is subject to annual independent external audits.

The department's focus through FOMP is to continually strengthen the working relationship between the department and industry to achieve sustainable forest management.

FOMP has two main components:

- Forest Operations Monitoring (FOM), and
- Silviculture-ARIS Monitoring (SAM).

FOM involves field inspections of active timber harvesting and reforestation activities to ensure they meet required provincial standards (Figure 2).

The number of FOM inspections completed is based on risk of non-compliance and is determined from key factors including volume harvested, previous

Figure 1. A timber harvesting operation



enforcement actions, trends of unacceptable practices recorded and professional validation of mandatory plans. High priority environmental values and sensitivities are considered in the final selection of harvested areas to be inspected.

SAM involves comparing samples of records from the Alberta Regeneration Information System (ARIS) database with the forest company's approved reforestation plan and the department's field observations.

SAM inspections are carried out on reforestation activities, such as planting (Figure 3) and site preparation, completed between May 1 to April 30. The department determines the number of inspections based on the records in ARIS, including

Figure 2. FOMP auditor inspecting a harvested area



key factors such as the amount of reforestation activities, survey results and the risks of non-compliance associated with the type of reforestation activity.

All FOMP inspections are recorded in Alberta's Geographic Land Information Management and Planning System (GLIMPS) database. All non-compliant activities resulting in enforcement actions are recorded in the provincial Incident Reporting System (IRS) database.

Figure 3. An example of a reforested area inspected by the department



Statistics

From May 1, 2015 to April 30, 2016, the department conducted 2,621 FOMP inspections on Alberta public land (Table 1).

As shown in Table 1, and Figures 4 and 5, the Upper Athabasca Region had the both the highest number of FOMP inspections (35.7%) and highest timber volume harvested (35.06%). Although the timber volume harvested is an

important factor to determine the number of FOMP inspections, other key factors are also used.

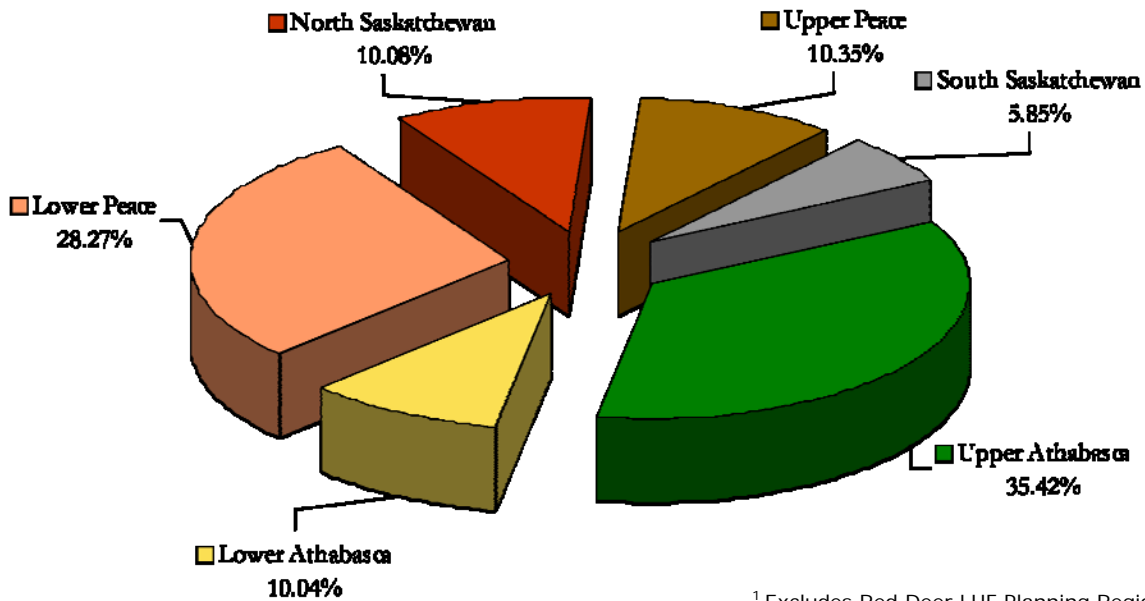
Table 1. Forest Operations Monitoring Program inspections and the total timber volume harvested by Land Use Framework Region 2015/16

LUF Region	No. of FOM inspections ¹	No. of SAM inspections ²	Total number of FOMP inspections	Total timber volume harvested in Alberta ³ (m ³)
Lower Athabasca	181	78	259	2,595,572
Lower Peace	468	230	698	4,848,983
North Saskatchewan	166	103	269	1,677,662
Red Deer	0	0	0	17,474
South Saskatchewan	123	25	148	684,841
Upper Athabasca	673	262	935	10,242,169
Upper Peace	216	96	312	7,805,873
Provincial Total	1,827	794	2,621	27,872,574

¹ Includes return inspections, follow-up inspections, active reforestation and current year's target inspections. ² Includes return inspections. ³ Depending on the area, this may include balsam (black) poplar, trembling aspen and/or white birch. There was no timber exported for

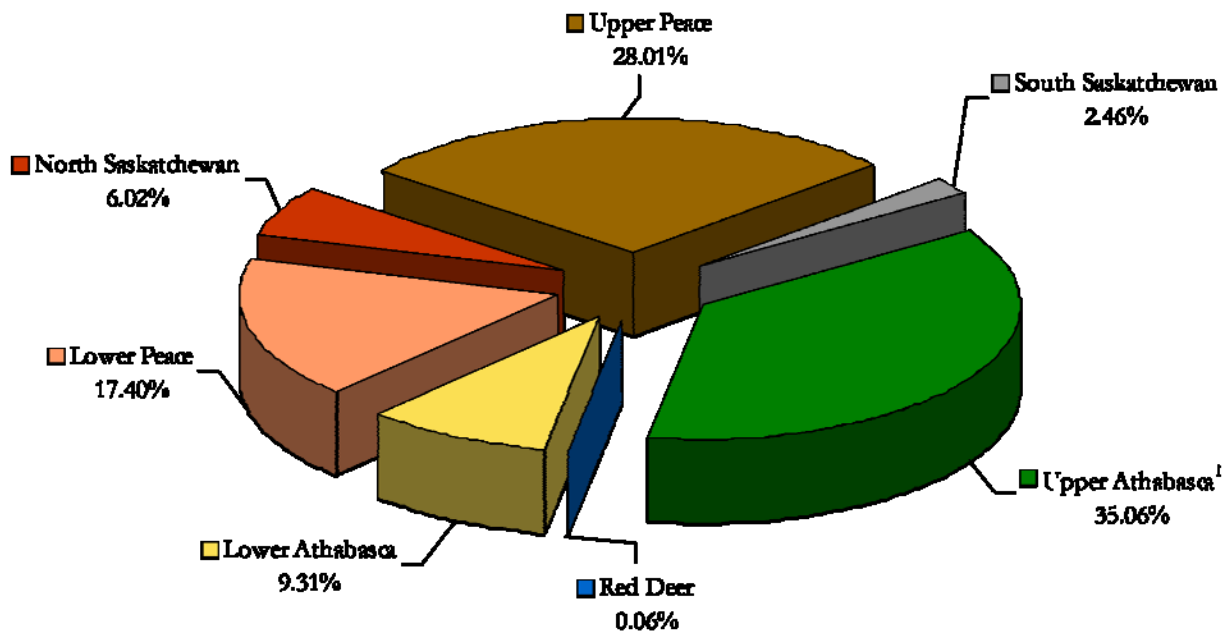
Statistics cont'd

Figure 4. Percentage of all FOMP inspections on Alberta public land by Land-use Framework Planning Region, 2015/16¹



¹ Excludes Red Deer LUF Planning Region with no FOMP inspections.

Figure 5. Percentage of total timber volume harvested in Alberta by Land-use Framework Planning Region, 2015/16



¹ Rounded to add up to 100%.