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# TSP and VDYP7 Volume Comparison

*March 31, 2009*

***DRAFT***

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# 1 Overview

The Temporary Sample Plot (TSP) database was used to provide a comparison of ground sample compiled volumes with inventory volumes generated from VDYP7. Since the TSPs are not associated with specific polygons, inventory attributes were not available for use as the inputs for VDYP7. Instead, ground-based estimates of species composition, age and height from the TSPs were used as VDYP7 inputs and a crown closure value of 60% was assumed. Note that additional inventory attributes (such as history records, etc.) that may impact VDYP7 volume estimation, were not provided for this analysis.

The VDYP7 model also requires BA and TPH as inputs. Where photo-interpreted values for these attributes are provided, as for new VRI (V-type) inventories, VDYP7 invokes an internal module called VRISTART. However, if no BA or TPH is provided, as in an old FIP (F-type) inventory, VDYP7 will invoke an internal module called FIPSTART which will generate these values automatically.

In this analysis, the BA and TPH inputs for VDYP7 were dealt with in two ways. Two runs of VDYP7 were included in the comparison, one based on the VRISTART mode and one based on the FIPSTART mode of VDYP7 as follows:

1. VRISTART: ground-based estimates of BA and TPH were supplied for the VRISTART mode of VDYP7;
2. FIPSTART: no estimates of BA or TPH were supplied (input as blanks) and VDYP7 was run in the FIPSTART mode.

Volumes from the TSP ground sample compilation and VDYP7 in both FIPSTART and VRISTART modes were compared. All reported volumes are for the 7.5cm+ dbh utilization level net decay, waste and breakage. In addition, the BA and TPH values generated from the ground compilation and FIPSTART were also compared.

The TSP data was aggregated into Timber Supply Area (TSA) units and the results were presented in a series of eight tables, one set per TSA, in Sections 2 to 35 as follows:

- Table 1: Comparison of BA from TSP ground compilation with BA estimated by FIPSTART in VDYP7, by leading species.
- Table 2: Comparison of TPH from TSP ground compilation with TPH estimated by FIPSTART in VDYP7, by leading species.
- Table 3: Comparison of mean TSP ground compiled volume/ha with mean VDYP7 volume/ha from VRISTART (using BA and TPH from ground sample) and mean VDYP7 volume/ha from FIPSTART (no BA or TPH supplied), *by leading species*.
- Table 4: Mean volume/ha difference and % difference among ground sample and VDYP7 volume/ha estimates, *by leading species*.
- Table 5: Comparison of mean TSP ground compiled volume/ha with mean VDYP7 volume/ha from VRISTART (using BA and TPH from ground sample) and mean VDYP7 volume/ha from FIPSTART (no BA or TPH supplied), *by maturity class*.

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- Table 6: Mean volume/ha difference and % difference among ground sample and VDYP7 volume/ha estimates, *by maturity class*.
- Table 7: Comparison of mean TSP ground compiled volume/ha with mean VDYP7 volume/ha from VRISTART (using BA and TPH from ground sample) and mean VDYP7 volume/ha from FIPSTART (no BA or TPH supplied), *by biogeoclimatic zone*.
- Table 8: Mean volume/ha difference and % difference among ground sample and VDYP7 volume/ha estimates, *by biogeoclimatic zone*.

Section 36 provides combined overview results for TSPs that could not be assigned to TSAs (TFLs, private land, etc.) and TSAs with 35 or fewer TSP samples.

Table 1.1 that follows presents summary volume/ha comparisons by TSA. When BA and TPH from the ground sample were provided as inputs for VRISTART, VDYP7 overestimated the ground volumes by about 5.8% on average, based on all TSPs across the province. The overall average volume overestimation was slightly higher (8.8%) for FIPSTART (no BA or TPH supplied).

Table 1.1: Summary results for all provincial TSPs by management unit (TSA).

Unit (TSA #)	n (# of TSPs)	Mean ground volume/ha "A"	Mean VDYP7 vol/ha and % difference vs ground vol/ha			
			VRISTART (BA and TPH from ground sample)		FIPSTART (no BA or TPH supplied)	
			"B"	(B-A)/A*100%	"C"	(C-A)/A*100%
01	1605	303.6	318.2	4.8%	338.4	11.5%
02	757	243.6	262.0	7.6%	302.9	24.3%
03	863	296.2	309.5	4.5%	320.4	8.2%
04	2460	159.8	169.6	6.1%	187.3	17.2%
05	1315	256.7	266.4	3.8%	284.3	10.8%
06	35	269.7	267.7	-0.7%	311.6	15.5%
07	449	429.5	405.4	-5.6%	403.9	-6.0%
08	1542	224.7	224.9	0.1%	231.9	3.2%
09	1169	283.7	299.7	5.6%	313.3	10.4%
10	1314	510.3	575.7	12.8%	559.9	9.7%
11	2748	266.1	271.6	2.1%	295.7	11.1%
12	964	325.3	346.0	6.4%	356.4	9.6%
13	974	271.5	278.9	2.7%	297.5	9.6%
14	1132	229.1	238.4	4.1%	251.6	9.8%
15	970	269.6	280.4	4.0%	244.7	-9.2%
16	1458	214.8	218.9	1.9%	232.7	8.3%
17	883	306.2	316.7	3.4%	322.2	5.2%
18	1515	233.5	248.4	6.4%	255.9	9.6%
19	1524	606.9	693.3	14.2%	670.9	10.5%
20	1719	325.9	334.6	2.7%	324.9	-0.3%
21	712	515.0	615.8	19.6%	635.1	23.3%
22	3331	288.5	291.7	1.1%	304.3	5.5%
23	1136	153.3	165.0	7.6%	198.6	29.5%
24	6015	270.3	280.7	3.8%	301.6	11.6%
25	292	712.2	652.0	-8.5%	643.6	-9.6%
26	1608	256.2	266.3	3.9%	284.0	10.9%
27	365	356.7	352.5	-1.2%	383.3	7.5%
29	2604	194.7	210.3	8.0%	228.9	17.6%
30	1176	555.0	606.7	9.3%	595.5	7.3%
31	574	539.2	584.3	8.4%	600.3	11.3%
33	1008	558.4	616.3	10.4%	609.9	9.2%
34	8	445.9	461.7	3.5%	543.7	21.9%
37	589	578.2	619.5	7.1%	595.3	3.0%
38	34	672.5	701.7	4.3%	700.5	4.2%
39	988	520.7	572.7	10.0%	605.8	16.3%
40	1488	232.8	231.9	-0.4%	221.1	-5.0%
41	1358	223.7	227.2	1.6%	221.1	-1.2%
unassigned	1918	609.5	651.7	6.9%	644.5	5.7%
<b>All samples</b>	<b>50616</b>	<b>317.6</b>	<b>336.0</b>	<b>5.8%</b>	<b>345.6</b>	<b>8.8%</b>

## 2 Arrow (TSA 1)

### 2.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 2.1: TSP samples in Arrow TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	392	38.3	43.0	12.1%
C	229	76.0	74.3	-2.2%
Decid	32	19.0	24.8	30.7%
F	249	33.1	35.5	7.2%
H	308	53.1	56.3	6.0%
L	59	29.1	30.9	6.4%
PA	3	26.9	35.0	29.9%
PL	121	33.2	33.0	-0.8%
PW	16	41.3	43.2	4.7%
PY	10	23.2	25.5	10.0%
S	186	42.7	46.0	7.7%
<i>All samples</i>	1605	45.0	47.5	5.5%

Table 2.2: TSP samples in Arrow TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	392	878	958	9%
C	229	665	684	3%
Decid	32	898	967	8%
F	249	1123	1053	-6%
H	308	852	773	-9%
L	59	1280	1164	-9%
PA	3	1010	1200	19%
PL	121	1465	1385	-5%
PW	16	1232	1087	-12%
PY	10	322	339	5%
S	186	749	791	6%
<i>All samples</i>	1605	925	917	-1%

Table 2.3: TSP samples in Arrow TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	392	286.9	294.5	322.8
C	229	430.9	465.1	471.2
Decid	32	98.6	105.6	137.5
F	249	211.9	221.3	242.9
H	308	351.5	379.5	399.2
L	59	169.7	176.3	192.6
PA	3	147.4	148.3	194.4
PL	121	214.4	214.5	219.6
PW	16	325.0	341.8	354.8
PY	10	212.8	215.4	236.9
S	186	366.5	370.9	399.5
All samples	1605	303.6	318.2	338.4

Table 2.4: TSP samples in Arrow TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	392	7.6	2.7%	35.9	12.5%	28.3	9.6%
C	229	34.3	8.0%	40.4	9.4%	6.1	1.3%
Decid	32	7.0	7.1%	38.8	39.4%	31.9	30.2%
F	249	9.4	4.4%	30.9	14.6%	21.5	9.7%
H	308	28.0	8.0%	47.7	13.6%	19.7	5.2%
L	59	6.7	3.9%	23.0	13.5%	16.3	9.2%
PA	3	0.9	0.6%	47.0	31.9%	46.1	31.1%
PL	121	0.1	0.1%	5.3	2.5%	5.1	2.4%
PW	16	16.8	5.2%	29.8	9.2%	13.0	3.8%
PY	10	2.6	1.2%	24.1	11.3%	21.5	10.0%
S	186	4.4	1.2%	33.0	9.0%	28.6	7.7%
All samples	1605	14.7	4.8%	34.8	11.5%	20.2	6.3%

## 2.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 2.5: TSP samples in Arrow TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	199	110.5	114.5	131.0
61-120 yr	486	263.1	269.3	274.2
121 + yrs	920	366.7	388.1	417.2
All samples	1605	303.6	318.2	338.4

Table 2.6: TSP samples in Arrow TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	199	4.0	3.6%	20.5	18.6%	16.5	14.4%
61-120 yr	486	6.2	2.3%	11.0	4.2%	4.9	1.8%
121 + yrs	920	21.5	5.9%	50.5	13.8%	29.1	7.5%
All samples	1605	14.7	4.8%	34.8	11.5%	20.2	6.3%



## 2.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 2.7: TSP samples in Arrow TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	12	187.0	192.6	237.3
ESSF	446	330.2	334.6	363.4
ICH	1142	295.3	314.1	330.3
IDF	5	96.4	104.5	195.3
<i>All samples</i>	1605	303.6	318.2	338.4

Table 2.8: TSP samples in Arrow TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	12	5.6	3.0%	50.3	26.9%	44.7	23.2%
ESSF	446	4.4	1.3%	33.2	10.0%	28.8	8.6%
ICH	1142	18.8	6.4%	35.1	11.9%	16.2	5.2%
IDF	5	8.1	8.5%	98.9	102.7%	90.8	86.9%
<i>All samples</i>	1605	14.7	4.8%	34.8	11.5%	20.2	6.3%

## 3 Boundary (TSA 2)

### 3.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 3.1: TSP samples in Boundary TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	109	33.9	41.7	22.9%
C	70	80.7	75.1	-6.9%
Decid	7	29.1	30.7	5.4%
F	224	25.4	33.5	31.9%
H	32	54.1	58.3	7.9%
L	75	29.2	33.4	14.5%
PL	136	28.8	33.0	14.6%
PW	2	43.0	39.7	-7.6%
PY	3	23.9	16.9	-29.3%
S	99	37.0	44.3	19.7%
<i>All samples</i>	757	35.5	40.8	14.9%

Table 3.2: TSP samples in Boundary TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	109	888	952	7.2%
C	70	795	746	-6.2%
Decid	7	1026	733	-28.6%
F	224	703	815	15.9%
H	32	831	715	-14.0%
L	75	912	850	-6.8%
PL	136	1308	1324	1.2%
PW	2	1424	1108	-22.2%
PY	3	872	402	-53.9%
S	99	748	844	12.7%
<i>All samples</i>	757	884	921	4.1%

Table 3.3: TSP samples in Boundary TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	109	248.6	260.8	311.6
C	70	432.2	496.6	474.8
Decid	7	198.7	197.5	217.3
F	224	171.5	186.4	241.7
H	32	319.1	379.1	391.5
L	75	216.0	235.8	277.5
PL	136	205.8	206.7	241.8
PW	2	295.5	318.6	291.3
PY	3	131.1	130.4	106.2
S	99	321.6	333.9	397.0
All samples	757	243.6	262.0	302.9

Table 3.4: TSP samples in Boundary TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	12.2	4.9%	63.0	25.3%	50.8	19.5%	12.2
C	64.4	14.9%	42.6	9.9%	-21.9	-4.4%	64.4
Decid	-1.2	-0.6%	18.5	9.3%	19.7	10.0%	-1.2
F	14.8	8.7%	70.2	40.9%	55.4	29.7%	14.8
H	60.0	18.8%	72.3	22.7%	12.3	3.3%	60.0
L	19.7	9.1%	61.4	28.4%	41.7	17.7%	19.7
PL	0.9	0.4%	36.0	17.5%	35.1	17.0%	0.9
PW	23.1	7.8%	-4.2	-1.4%	-27.3	-8.6%	23.1
PY	-0.7	-0.5%	-24.9	-19.0%	-24.2	-18.6%	-0.7
S	12.3	3.8%	75.4	23.4%	63.1	18.9%	12.3
All samples	18.4	7.6%	59.3	24.3%	40.9	15.6%	18.4

### 3.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 3.5: TSP samples in Boundary TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	89	88.6	91.1	117.2
61-120 yr	224	228.0	234.4	264.9
121 + yrs	444	282.6	310.2	359.3
All samples	757	243.6	262.0	302.9

Table 3.6: TSP samples in Boundary TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	89	2.5	2.8%	28.6	32.2%	26.1	28.6%
61-120 yr	224	6.5	2.8%	36.9	16.2%	30.5	13.0%
121 + yrs	444	27.6	9.8%	76.8	27.2%	49.2	15.9%
All samples	757	18.4	7.6%	59.3	24.3%	40.9	15.6%

### 3.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 3.7: TSP samples in Boundary TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	3	284.8	282.5	278.7
ESSF	186	279.9	290.1	345.1
ICH	325	278.3	309.3	340.4
IDF	140	153.9	161.4	190.1
MS	102	189.1	197.9	263.3
PP	1	213.7	208.4	177.3
<i>All samples</i>	757	243.6	262.0	302.9

Table 3.8: TSP samples in Boundary TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	3	-2.3	-0.8%	-6.1	-2.1%	-3.8	-1.3%
ESSF	186	10.2	3.6%	65.2	23.3%	55.0	19.0%
ICH	325	31.0	11.2%	62.1	22.3%	31.1	10.1%
IDF	140	7.6	4.9%	36.2	23.5%	28.6	17.7%
MS	102	8.8	4.6%	74.1	39.2%	65.4	33.0%
PP	1	-5.3	-2.5%	-36.4	-17.0%	-31.1	-14.9%
<i>All samples</i>	757	18.4	7.6%	59.3	24.3%	40.9	15.6%

## 4 Bulkley (TSA 3)

### 4.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 4.1: TSP samples in Bulkley TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	401	43.1	43.5	0.8%
Decid	56	22.6	26.2	16.1%
H	70	59.6	56.6	-5.0%
PA	1	57.9	31.3	-45.9%
PL	172	37.6	39.3	4.6%
S	163	36.0	40.1	11.3%
<i>All samples</i>	863	40.7	41.9	3.0%

Table 4.2: TSP samples in Bulkley TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	401	1019	932	-8.5%
Decid	56	756	930	23.0%
H	70	1004	823	-18.1%
PA	1	2213	1174	-46.9%
PL	172	1110	1094	-1.5%
S	163	883	956	8.3%
<i>All samples</i>	863	995	960	-3.5%

Table 4.3: TSP samples in Bulkley TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	401	300.0	313.9	318.2
Decid	56	133.0	132.5	154.7
H	70	407.1	441.3	420.7
PA	1	225.3	244.0	140.6
PL	172	309.4	322.3	337.8
S	163	281.8	289.8	322.4
All samples	863	296.2	309.5	320.4

Table 4.4: TSP samples in Bulkley TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	401	13.9	4.6%	18.2	6.1%	4.3	1.4%
Decid	56	-0.5	-0.4%	21.7	16.3%	22.1	16.7%
H	70	34.2	8.4%	13.6	3.3%	-20.6	-4.7%
PA	1	18.7	8.3%	-84.7	-37.6%	-103.4	-42.4%
PL	172	12.9	4.2%	28.4	9.2%	15.5	4.8%
S	163	8.0	2.8%	40.6	14.4%	32.6	11.3%
All samples	863	13.3	4.5%	24.2	8.2%	10.9	3.5%

## 4.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 4.5: TSP samples in Bulkley TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	80	82.9	86.8	108.7
61-120 yr	211	271.9	276.7	289.3
121 + yrs	572	335.0	352.8	361.5
All samples	863	296.2	309.5	320.4

Table 4.6: TSP samples in Bulkley TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	80	3.8	4.6%	25.8	31.1%	22.0	25.3%
61-120 yr	211	4.9	1.8%	17.5	6.4%	12.6	4.6%
121 + yrs	572	17.7	5.3%	26.4	7.9%	8.7	2.5%
All samples	863	13.3	4.5%	24.2	8.2%	10.9	3.5%



### 4.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 4.7: TSP samples in Bulkley TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	43	431.6	515.4	520.6
ESSF	205	278.9	290.6	300.8
ICH	84	360.6	363.7	365.0
MH	3	458.7	551.8	473.4
SBS	528	280.8	290.1	303.7
<i>All samples</i>	863	296.2	309.5	320.4

Table 4.8: TSP samples in Bulkley TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	43	83.9	19.4%	89.0	20.6%	5.1	1.0%
ESSF	205	11.8	4.2%	21.9	7.9%	10.2	3.5%
ICH	84	3.1	0.9%	4.5	1.2%	1.3	0.4%
MH	3	93.0	20.3%	14.7	3.2%	-78.3	-14.2%
SBS	528	9.3	3.3%	23.0	8.2%	13.7	4.7%
<i>All samples</i>	863	13.3	4.5%	24.2	8.2%	10.9	3.5%

## 5 Cassiar (TSA 4)

### 5.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 5.1: TSP samples in Cassiar TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	317	35.0	33.0	-5.8%
Decid	260	27.0	26.2	-2.7%
H	117	61.9	61.2	-1.0%
PL	704	24.3	27.1	11.6%
S	1062	27.0	30.3	11.9%
<i>All samples</i>	2460	28.9	30.8	6.3%

Table 5.2: TSP samples in Cassiar TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	317	1345	969	-27.9%
Decid	260	934	841	-9.9%
H	117	563	684	21.4%
PL	704	1209	1265	4.6%
S	1062	1046	983	-6.0%
<i>All samples</i>	2460	1096	1033	-5.8%

Table 5.3: TSP samples in Cassiar TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	317	175.1	192.7	190.3
Decid	260	141.8	141.5	147.0
H	117	441.2	468.1	491.7
PL	704	132.4	137.0	156.8
S	1062	146.8	158.4	182.9
All samples	2460	159.8	169.6	187.3

Table 5.4: TSP samples in Cassiar TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	317	17.6	10.0%	15.2	8.7%	-2.4	-1.2%
Decid	260	-0.3	-0.2%	5.2	3.7%	5.4	3.9%
H	117	26.9	6.1%	50.5	11.4%	23.6	5.0%
PL	704	4.6	3.5%	24.3	18.4%	19.8	14.4%
S	1062	11.5	7.9%	36.1	24.6%	24.6	15.5%
All samples	2460	9.8	6.1%	27.5	17.2%	17.7	10.4%

## 5.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 5.5: TSP samples in Cassiar TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	126	30.7	35.3	50.6
61-120 yr	855	127.1	133.5	151.5
121 + yrs	1479	189.8	201.9	219.6
All samples	2460	159.8	169.6	187.3

Table 5.6: TSP samples in Cassiar TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	126	4.6	15.0%	20.0	65.1%	15.4	43.6%
61-120 yr	855	6.5	5.1%	24.4	19.2%	17.9	13.4%
121 + yrs	1479	12.2	6.4%	29.9	15.7%	17.7	8.8%
All samples	2460	9.8	6.1%	27.5	17.2%	17.7	10.4%

### 5.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 5.7: TSP samples in Cassiar TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	16	135.8	155.9	183.9
BWBS	1261	140.6	149.9	174.1
CWH	73	445.2	491.5	574.3
ESSF	98	230.2	242.6	260.7
ICH	93	361.3	362.2	361.2
MH	10	613.4	630.6	633.2
SBS	125	227.2	244.4	242.2
SWB	784	115.4	121.9	128.4
<i>All samples</i>	2460	159.8	169.6	187.3

Table 5.8: TSP samples in Cassiar TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	16	20.1	14.8%	48.1	35.4%	28.0	18.0%
BWBS	1261	9.3	6.6%	33.5	23.8%	24.2	16.1%
CWH	73	46.3	10.4%	129.1	29.0%	82.8	16.9%
ESSF	98	12.4	5.4%	30.5	13.2%	18.0	7.4%
ICH	93	0.8	0.2%	-0.2	0.0%	-1.0	-0.3%
MH	10	17.2	2.8%	19.8	3.2%	2.6	0.4%
SBS	125	17.2	7.6%	15.0	6.6%	-2.2	-0.9%
SWB	784	6.5	5.6%	12.9	11.2%	6.4	5.3%
<i>All samples</i>	2460	9.8	6.1%	27.5	17.2%	17.7	10.4%

## 6 Cranbrook (TSA 5)

### 6.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 6.1: TSP samples in Cranbrook TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	190	35.4	42.6	20.2%
C	36	72.5	79.6	9.9%
Decid	5	21.9	22.3	2.0%
F	222	26.5	28.8	8.5%
H	22	54.2	53.5	-1.4%
L	84	31.3	29.6	-5.3%
PA	40	43.4	41.7	-3.9%
PL	331	31.3	32.1	2.6%
PY	15	20.2	15.1	-25.0%
S	370	41.2	44.0	6.7%
<i>All samples</i>	1315	35.6	38.0	6.7%

Table 6.2: TSP samples in Cranbrook TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	190	823	947	15.0%
C	36	648	686	5.8%
Decid	5	832	1033	24.2%
F	222	845	913	8.0%
H	22	934	885	-5.2%
L	84	1178	923	-21.6%
PA	40	968	1014	4.8%
PL	331	1546	1491	-3.6%
PY	15	798	419	-47.5%
S	370	803	751	-6.5%
<i>All samples</i>	1315	1027	1010	-1.7%

Table 6.3: TSP samples in Cranbrook TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	190	265.9	278.8	323.8
C	36	443.8	492.2	506.8
Decid	5	115.5	126.2	127.0
F	222	150.4	159.3	172.7
H	22	364.3	402.6	384.1
L	84	205.4	219.3	213.1
PA	40	275.9	278.7	275.6
PL	331	200.7	196.6	203.9
PY	15	94.3	99.3	86.3
S	370	359.4	374.5	402.7
All samples	1315	256.7	266.4	284.3

Table 6.4: TSP samples in Cranbrook TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	190	12.8	4.8%	57.9	21.8%	45.0	16.2%
C	36	48.4	10.9%	63.0	14.2%	14.6	3.0%
Decid	5	10.7	9.2%	11.5	10.0%	0.8	0.6%
F	222	9.0	6.0%	22.3	14.8%	13.3	8.4%
H	22	38.4	10.5%	19.8	5.4%	-18.5	-4.6%
L	84	14.0	6.8%	7.8	3.8%	-6.2	-2.8%
PA	40	2.8	1.0%	-0.3	-0.1%	-3.1	-1.1%
PL	331	-4.0	-2.0%	3.2	1.6%	7.3	3.7%
PY	15	5.0	5.3%	-8.0	-8.5%	-13.0	-13.1%
S	370	15.1	4.2%	43.3	12.0%	28.2	7.5%
All samples	1315	9.6	3.8%	27.6	10.8%	18.0	6.7%

## 6.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 6.5: TSP samples in Cranbrook TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	225	70.6	71.7	78.8
61-120 yr	311	219.7	218.0	214.7
121 + yrs	779	325.3	341.9	371.5
All samples	1315	256.7	266.4	284.3

Table 6.6: TSP samples in Cranbrook TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	225	1.1	1.6%	8.3	11.7%	7.2	10.0%
61-120 yr	311	-1.7	-0.8%	-5.0	-2.3%	-3.3	-1.5%
121 + yrs	779	16.6	5.1%	46.2	14.2%	29.6	8.7%
All samples	1315	9.6	3.8%	27.6	10.8%	18.0	6.7%



### 6.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 6.7: TSP samples in Cranbrook TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	8	296.4	292.9	274.9
ESSF	838	291.3	299.2	321.9
ICH	144	290.3	314.1	321.8
IDF	149	106.3	110.5	115.2
MS	149	209.2	221.2	241.0
PP	27	85.9	95.2	93.3
<i>All samples</i>	1315	256.7	266.4	284.3

Table 6.8: TSP samples in Cranbrook TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	8	-3.6	-1.2%	-21.6	-7.3%	-18.0	-6.1%
ESSF	838	7.9	2.7%	30.7	10.5%	22.8	7.6%
ICH	144	23.7	8.2%	31.4	10.8%	7.7	2.5%
IDF	149	4.2	4.0%	8.9	8.4%	4.7	4.3%
MS	149	12.0	5.7%	31.7	15.2%	19.8	8.9%
PP	27	9.3	10.8%	7.4	8.6%	-1.9	-2.0%
<i>All samples</i>	1315	9.6	3.8%	27.6	10.8%	18.0	6.7%

## 7 Golden (TSA 7)

### 7.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 7.1: TSP samples in Golden TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	59	45.5	42.1	-7.4%
C	132	86.2	87.8	1.9%
Decid	13	33.8	34.0	0.6%
F	58	46.9	39.3	-16.3%
H	70	60.2	60.2	0.0%
PA	1	32.9	48.4	47.2%
PL	20	34.9	35.8	2.6%
PW	1	45.8	35.9	-21.6%
S	95	46.6	46.7	0.2%
<i>All samples</i>	449	59.3	58.4	-1.5%

Table 7.2: TSP samples in Golden TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	59	1080	896	-17.0%
C	132	652	580	-11.1%
Decid	13	872	788	-9.7%
F	58	1534	1033	-32.6%
H	70	774	698	-9.9%
PA	1	766	822	7.3%
PL	20	1501	1272	-15.3%
PW	1	3571	1442	-59.6%
S	95	837	683	-18.4%
<i>All samples</i>	449	931	759	-18.4%

Table 7.3: TSP samples in Golden TSA by leading species: Comparison of TSP ground sample compiled volume/ha (“A”), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH (“B”), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied (“C”).

Leading species	n	Mean ground volume/ha “A”	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) “B”	FIPSTART (no BA & TPH supplied) “C”
B	59	351.3	349.6	329.2
C	132	572.9	500.3	517.2
Decid	13	243.3	246.5	258.7
F	58	321.7	317.4	277.6
H	70	416.0	388.0	381.7
PA	1	222.5	234.4	342.9
PL	20	261.6	252.5	271.0
PW	1	178.1	229.0	222.2
S	95	420.2	432.5	436.9
All samples	449	429.5	405.4	403.9

Table 7.4: TSP samples in Golden TSA by leading species: Mean Volume differences and % differences among: “A” TSP mean ground sample compiled volume/ha; “B” VDYP7 mean volume/ha generated from TSP attributes; and “C” VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	59	-1.7	-0.5%	-22.1	-6.3%	-20.5	-5.9%
C	132	-72.6	-12.7%	-55.7	-9.7%	16.9	3.4%
Decid	13	3.2	1.3%	15.4	6.3%	12.2	5.0%
F	58	-4.3	-1.3%	-44.0	-13.7%	-39.8	-12.5%
H	70	-28.0	-6.7%	-34.3	-8.2%	-6.3	-1.6%
PA	1	11.9	5.3%	120.4	54.1%	108.5	46.3%
PL	20	-9.1	-3.5%	9.4	3.6%	18.5	7.3%
PW	1	50.9	28.6%	44.1	24.8%	-6.8	-3.0%
S	95	12.3	2.9%	16.7	4.0%	4.5	1.0%
All samples	449	-24.1	-5.6%	-25.6	-5.9%	-1.5	-0.4%

## 7.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 7.5: TSP samples in Golden TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	25	80.2	82.0	90.8
61-120 yr	79	320.7	319.6	295.1
121 + yrs	345	479.7	448.5	451.6
All samples	449	429.5	405.4	403.9

Table 7.6: TSP samples in Golden TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	25	1.8	2.3%	10.6	13.2%	8.8	10.7%
61-120 yr	79	-1.1	-0.3%	-25.6	-8.0%	-24.5	-7.7%
121 + yrs	345	-31.2	-6.5%	-28.2	-5.9%	3.0	0.7%
All samples	449	-24.1	-5.6%	-25.6	-5.9%	-1.5	-0.4%

### 7.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 7.7: TSP samples in Golden TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	4	317.4	338.2	306.8
BWBS	1	257.2	254.4	242.9
ESSF	124	400.6	407.1	398.2
ICH	309	449.8	411.9	414.4
MS	11	240.6	244.3	223.6
<i>All samples</i>	449	429.5	405.4	403.9

Table 7.8: TSP samples in Golden TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	4	20.8	6.6%	-10.6	-3.3%	-31.4	-9.3%
BWBS	1	-2.8	-1.1%	-14.3	-5.6%	-11.5	-4.5%
ESSF	124	6.5	1.6%	-2.4	-0.6%	-8.9	-2.2%
ICH	309	-37.9	-8.4%	-35.4	-7.9%	2.6	0.6%
MS	11	3.6	1.5%	-17.0	-7.1%	-20.6	-8.4%
<i>All samples</i>	449	-24.1	-5.6%	-25.6	-5.9%	-1.5	-0.4%

## 8 Fort Nelson (TSA 8)

### 8.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 8.1: TSP samples in Fort Nelson TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	8	29.3	25.0	-14.7%
Decid	565	30.5	30.5	-0.3%
L	3	13.4	19.0	41.5%
PL	155	24.9	23.4	-5.8%
S	811	34.9	33.3	-4.8%
<i>All samples</i>	1542	32.2	31.2	-3.3%

Table 8.2: TSP samples in Fort Nelson TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	8	1510	995	-34.1%
Decid	565	921	698	-24.3%
L	3	810	985	21.7%
PL	155	1521	1224	-19.5%
S	811	1250	863	-31.0%
<i>All samples</i>	1542	1157	839	-27.5%

Table 8.3: TSP samples in Fort Nelson TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	8	115.8	134.1	123.3
Decid	565	227.4	225.5	233.1
L	3	48.0	45.4	64.8
PL	155	124.7	125.4	126.3
S	811	243.8	245.1	253.0
All samples	1542	224.7	224.9	231.9

Table 8.4: TSP samples in Fort Nelson TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	8	18.4	15.9%	7.5	6.5%	-10.8	-8.1%
Decid	565	-1.9	-0.8%	5.7	2.5%	7.6	3.4%
L	3	-2.6	-5.4%	16.8	35.1%	19.4	42.8%
PL	155	0.7	0.6%	1.6	1.3%	0.9	0.7%
S	811	1.3	0.5%	9.2	3.8%	7.9	3.2%
All samples	1542	0.2	0.1%	7.2	3.2%	7.0	3.1%

## 8.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 8.5: TSP samples in Fort Nelson TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	212	47.2	50.0	70.1
61-120 yr	823	216.0	215.8	215.8
121 + yrs	507	313.2	312.8	325.7
All samples	1542	224.7	224.9	231.9

Table 8.6: TSP samples in Fort Nelson TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	212	2.8	5.9%	22.9	48.5%	20.1	40.2%
61-120 yr	823	-0.1	-0.1%	-0.1	-0.1%	0.0	0.0%
121 + yrs	507	-0.5	-0.1%	12.5	4.0%	12.9	4.1%
All samples	1542	0.2	0.1%	7.2	3.2%	7.0	3.1%



### 8.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 8.7: TSP samples in Fort Nelson TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
BWBS	1391	238.5	238.2	246.3
SWB	151	98.4	102.2	99.7
All samples	1542	224.7	224.9	231.9

Table 8.8: TSP samples in Fort Nelson TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
BWBS	1391	-0.2	-0.1%	7.8	3.3%	8.0	3.4%
SWB	151	3.8	3.8%	1.3	1.3%	-2.5	-2.4%
All samples	1542	0.2	0.1%	7.2	3.2%	7.0	3.1%

## 9 Invermere (TSA 9)

### 9.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 9.1: TSP samples in Invermere TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	58	40.2	41.4	3.1%
C	18	66.6	64.5	-3.1%
Decid	2	19.6	28.6	46.0%
F	322	37.8	37.1	-1.8%
H	1	71.4	61.1	-14.3%
L	32	37.2	35.9	-3.7%
PA	17	38.8	37.5	-3.5%
PL	320	33.9	35.3	4.1%
PW	3	38.5	37.2	-3.4%
PY	1	9.3	14.9	60.3%
S	395	41.7	44.2	6.0%
<i>All samples</i>	1169	38.6	39.6	2.6%

Table 9.2: TSP samples in Invermere TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	58	1063	905	-14.8%
C	18	803	928	15.5%
Decid	2	775	1037	33.8%
F	322	1122	950	-15.4%
H	1	766	874	14.1%
L	32	1032	915	-11.4%
PA	17	1156	1119	-3.2%
PL	320	1620	1380	-14.8%
PW	3	833	1494	79.3%
PY	1	193	535	177.7%
S	395	879	763	-13.2%
<i>All samples</i>	1169	1164	1004	-13.7%

Table 9.3: TSP samples in Invermere TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	58	294.3	315.8	322.0
C	18	435.8	504.6	482.0
Decid	2	98.4	116.5	159.6
F	322	250.7	262.4	261.0
H	1	632.8	599.4	504.3
L	32	273.7	292.9	280.1
PA	17	217.2	233.9	228.5
PL	320	237.2	235.3	255.2
PW	3	181.0	173.1	178.2
PY	1	38.9	38.8	58.6
S	395	344.9	375.9	402.3
All samples	1169	283.7	299.7	313.3

Table 9.4: TSP samples in Invermere TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	58	21.4	7.3%	27.7	9.4%	6.3	2.0%
C	18	68.8	15.8%	46.1	10.6%	-22.7	-4.5%
Decid	2	18.1	18.4%	61.2	62.2%	43.2	37.1%
F	322	11.6	4.6%	10.3	4.1%	-1.4	-0.5%
H	1	-33.4	-5.3%	-128.5	-20.3%	-95.1	-15.9%
L	32	19.2	7.0%	6.4	2.3%	-12.8	-4.4%
PA	17	16.6	7.7%	11.3	5.2%	-5.4	-2.3%
PL	320	-1.9	-0.8%	18.0	7.6%	20.0	8.5%
PW	3	-7.9	-4.4%	-2.8	-1.6%	5.1	2.9%
PY	1	-0.1	-0.3%	19.7	50.5%	19.8	51.0%
S	395	31.0	9.0%	57.4	16.6%	26.4	7.0%
All samples	1169	16.0	5.6%	29.6	10.4%	13.6	4.5%

## 9.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 9.5: TSP samples in Invermere TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	123	101.1	99.6	110.5
61-120 yr	334	245.2	244.1	254.1
121 + yrs	712	333.3	360.4	376.1
All samples	1169	283.7	299.7	313.3

Table 9.6: TSP samples in Invermere TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	123	-1.5	-1.5%	9.4	9.3%	10.9	11.0%
61-120 yr	334	-1.1	-0.5%	8.9	3.6%	10.0	4.1%
121 + yrs	712	27.1	8.1%	42.8	12.8%	15.7	4.3%
All samples	1169	16.0	5.6%	29.6	10.4%	13.6	4.5%

### 9.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 9.7: TSP samples in Invermere TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	23	214.3	247.4	258.4
ESSF	712	305.6	324.2	345.7
ICH	56	287.5	302.8	299.3
IDF	63	169.8	168.5	166.3
MS	315	261.3	274.0	275.9
<i>All samples</i>	1169	283.7	299.7	313.3

Table 9.8: TSP samples in Invermere TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	23	33.1	15.4%	44.0	20.5%	11.0	4.4%
ESSF	712	18.5	6.1%	40.1	13.1%	21.5	6.6%
ICH	56	15.2	5.3%	11.8	4.1%	-3.4	-1.1%
IDF	63	-1.3	-0.8%	-3.5	-2.1%	-2.2	-1.3%
MS	315	12.7	4.9%	14.6	5.6%	1.9	0.7%
<i>All samples</i>	1169	16.0	5.6%	29.6	10.4%	13.6	4.5%

## 10 Kalum (TSA 10)

### 10.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 10.1: TSP samples in Kalum TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	253	52.0	52.4	0.8%
C	102	82.7	80.8	-2.3%
Decid	55	40.9	39.9	-2.4%
H	846	66.9	62.9	-5.9%
PL	23	38.6	36.1	-6.6%
S	30	61.1	59.1	-3.3%
Y	5	80.3	65.3	-18.7%
<i>All samples</i>	1314	63.6	60.8	-4.4%

Table 10.2: TSP samples in Kalum TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	253	753	738	-1.9%
C	102	688	589	-14.4%
Decid	55	673	527	-21.7%
H	846	817	686	-16.0%
PL	23	2308	1322	-42.7%
S	30	468	510	9.0%
Y	5	1172	858	-26.8%
<i>All samples</i>	1314	808	690	-14.6%

Table 10.3: TSP samples in Kalum TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	253	438.9	477.3	482.3
C	102	656.2	732.4	703.7
Decid	55	355.3	363.3	368.7
H	846	526.3	603.1	580.6
PL	23	197.6	218.4	226.3
S	30	697.2	767.8	768.9
Y	5	454.2	541.4	439.0
All samples	1314	510.3	575.7	559.9

Table 10.4: TSP samples in Kalum TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	253	38.4	8.7%	43.3	9.9%	4.9	1.0%
C	102	76.1	11.6%	47.4	7.2%	-28.7	-3.9%
Decid	55	8.0	2.3%	13.4	3.8%	5.3	1.5%
H	846	76.8	14.6%	54.3	10.3%	-22.5	-3.7%
PL	23	20.8	10.5%	28.7	14.5%	7.9	3.6%
S	30	70.6	10.1%	71.7	10.3%	1.1	0.1%
Y	5	87.2	19.2%	-15.2	-3.3%	-102.4	-18.9%
All samples	1314	65.4	12.8%	49.6	9.7%	-15.8	-2.7%

## 10.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 10.5: TSP samples in Kalum TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	62	120.5	137.7	163.3
61-120 yr	121	377.1	405.2	368.1
121 + yrs	1131	545.9	617.9	602.2
All samples	1314	510.3	575.7	559.9

Table 10.6: TSP samples in Kalum TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	62	17.3	14.3%	42.8	35.5%	25.5	18.5%
61-120 yr	121	28.1	7.4%	-9.0	-2.4%	-37.1	-9.1%
121 + yrs	1131	72.0	13.2%	56.3	10.3%	-15.7	-2.5%
All samples	1314	65.4	12.8%	49.6	9.7%	-15.8	-2.7%



### 10.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 10.7: TSP samples in Kalum TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	807	587.9	678.0	661.6
ESSF	73	323.6	335.9	350.8
ICH	302	387.0	411.4	387.4
MH	69	503.5	551.5	529.5
SBS	63	330.6	356.7	360.5
<i>All samples</i>	1314	510.3	575.7	559.9

Table 10.8: TSP samples in Kalum TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	807	90.1	15.3%	73.6	12.5%	-16.5	-2.4%
ESSF	73	12.2	3.8%	27.2	8.4%	14.9	4.4%
ICH	302	24.4	6.3%	0.4	0.1%	-24.0	-5.8%
MH	69	48.0	9.5%	26.0	5.2%	-22.0	-4.0%
SBS	63	26.1	7.9%	29.9	9.0%	3.8	1.1%
<i>All samples</i>	1314	65.4	12.8%	49.6	9.7%	-15.8	-2.7%

# 11 Kamloops (TSA 11)

## 11.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 11.1: TSP samples in Kamloops TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	365	34.6	40.9	18.0%
C	295	78.9	78.2	-0.9%
Decid	75	24.4	24.2	-0.8%
F	779	29.0	31.7	9.2%
H	145	58.5	58.1	-0.7%
PL	510	33.4	34.5	3.3%
PW	11	40.1	41.8	4.3%
PY	32	11.9	14.6	23.3%
S	536	37.3	42.3	13.7%
<i>All samples</i>	2748	38.8	41.5	7.0%

Table 11.2: TSP samples in Kamloops TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	365	886	957	8.1%
C	295	730	680	-6.8%
Decid	75	911	793	-12.9%
F	779	874	790	-9.6%
H	145	883	740	-16.2%
PL	510	1478	1298	-12.2%
PW	11	1634	1133	-30.7%
PY	32	400	423	5.7%
S	536	849	815	-3.9%
<i>All samples</i>	2748	966	894	-7.5%

Table 11.3: TSP samples in Kamloops TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	365	237.2	254.4	293.7
C	295	516.9	470.5	470.0
Decid	75	134.8	136.0	139.0
F	779	183.0	193.0	215.2
H	145	397.6	367.6	358.4
PL	510	225.2	242.4	260.3
PW	11	257.6	316.7	336.3
PY	32	52.4	57.3	75.2
S	536	303.0	320.7	369.3
All samples	2748	266.1	271.6	295.7

Table 11.4: TSP samples in Kamloops TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	365	17.1	7.2%	56.5	23.8%	39.3	15.5%
C	295	-46.4	-9.0%	-46.8	-9.1%	-0.5	-0.1%
Decid	75	1.2	0.9%	4.2	3.1%	3.0	2.2%
F	779	10.0	5.5%	32.2	17.6%	22.2	11.5%
H	145	-30.0	-7.5%	-39.3	-9.9%	-9.3	-2.5%
PL	510	17.2	7.6%	35.1	15.6%	17.9	7.4%
PW	11	59.1	22.9%	78.7	30.5%	19.6	6.2%
PY	32	4.9	9.3%	22.8	43.5%	17.9	31.3%
S	536	17.7	5.8%	66.3	21.9%	48.6	15.2%
All samples	2748	5.5	2.1%	29.7	11.2%	24.2	8.9%

## 11.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 11.5: TSP samples in Kamloops TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	152	97.5	103.4	117.2
61-120 yr	1124	218.3	228.8	239.8
121 + yrs	1472	319.9	321.6	356.9
All samples	2748	266.1	271.6	295.7

Table 11.6: TSP samples in Kamloops TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	152	6.0	6.1%	19.7	20.3%	13.8	13.3%
61-120 yr	1124	10.4	4.8%	21.4	9.8%	11.0	4.8%
121 + yrs	1472	1.7	0.5%	37.0	11.6%	35.3	11.0%
All samples	2748	5.5	2.1%	29.7	11.2%	24.2	8.9%

### 11.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 11.7: TSP samples in Kamloops TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	11	247.3	259.9	253.1
BG	3	30.6	31.3	50.5
ESSF	691	279.4	297.2	340.5
ICH	645	406.5	376.8	381.6
IDF	716	149.5	158.7	176.2
MS	392	241.9	264.3	300.3
PP	64	54.8	65.8	101.2
SBPS	36	275.1	294.8	284.6
SBS	190	303.8	330.7	356.7
<i>All samples</i>	2748	266.1	271.6	295.7

Table 11.8: TSP samples in Kamloops TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	11	12.6	5.1%	5.8	2.3%	-6.8	-2.6%
BG	3	0.7	2.2%	19.9	65.1%	19.2	61.5%
ESSF	691	17.8	6.4%	61.0	21.8%	43.3	14.6%
ICH	645	-29.7	-7.3%	-24.9	-6.1%	4.8	1.3%
IDF	716	9.2	6.2%	26.7	17.8%	17.5	11.0%
MS	392	22.5	9.3%	58.4	24.2%	36.0	13.6%
PP	64	11.0	20.0%	46.4	84.6%	35.4	53.8%
SBPS	36	19.7	7.2%	9.5	3.4%	-10.2	-3.5%
SBS	190	26.8	8.8%	52.9	17.4%	26.0	7.9%
<i>All samples</i>	2748	5.5	2.1%	29.7	11.2%	24.2	8.9%

## 12 Kispiox (TSA 12)

### 12.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 12.1: TSP samples in Kispiox TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	252	45.0	48.5	7.7%
C	45	58.1	68.7	18.2%
Decid	116	28.1	31.5	12.1%
H	449	56.1	53.2	-5.1%
PL	55	31.5	33.9	7.4%
S	47	39.4	43.4	10.1%
<i>All samples</i>	964	47.7	48.5	1.7%

Table 12.2: TSP samples in Kispiox TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	252	852	865	1.6%
C	45	824	715	-13.3%
Decid	116	718	806	12.2%
H	449	1236	848	-31.3%
PL	55	1263	1180	-6.6%
S	47	833	857	2.9%
<i>All samples</i>	964	1036	861	-16.9%

Table 12.3: TSP samples in Kispiox TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	252	320.4	326.1	355.0
C	45	374.4	410.8	478.8
Decid	116	199.2	200.6	228.2
H	449	367.3	403.8	390.6
PL	55	225.9	231.5	245.7
S	47	331.0	330.4	365.9
All samples	964	325.3	346.0	356.4

Table 12.4: TSP samples in Kispiox TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	252	5.7	1.8%	34.6	10.8%	28.8	8.8%
C	45	36.4	9.7%	104.4	27.9%	68.1	16.6%
Decid	116	1.4	0.7%	29.0	14.6%	27.6	13.8%
H	449	36.4	9.9%	23.3	6.3%	-13.2	-3.3%
PL	55	5.6	2.5%	19.9	8.8%	14.2	6.1%
S	47	-0.5	-0.2%	35.0	10.6%	35.5	10.7%
All samples	964	20.6	6.3%	31.1	9.6%	10.4	3.0%

## 12.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 12.5: TSP samples in Kispiox TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	107	89.0	100.7	130.3
61-120 yr	207	252.7	262.4	255.7
121 + yrs	650	387.4	412.9	425.7
All samples	964	325.3	346.0	356.4

Table 12.6: TSP samples in Kispiox TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	107	11.8	13.2%	41.4	46.5%	29.6	29.4%
61-120 yr	207	9.8	3.9%	3.0	1.2%	-6.8	-2.6%
121 + yrs	650	25.5	6.6%	38.3	9.9%	12.8	3.1%
All samples	964	20.6	6.3%	31.1	9.6%	10.4	3.0%



### 12.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 12.7: TSP samples in Kispiox TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	1	12.3	22.9	12.8
CWH	134	473.8	563.3	564.1
ESSF	153	307.7	314.2	346.3
ICH	610	297.1	305.4	309.6
MH	34	405.2	454.5	514.3
SBS	32	250.4	255.6	269.8
<i>All samples</i>	964	325.3	346.0	356.4

Table 12.8: TSP samples in Kispiox TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	1	10.6	85.7%	0.5	3.8%	-10.1	-44.1%
CWH	134	89.5	18.9%	90.3	19.1%	0.8	0.1%
ESSF	153	6.5	2.1%	38.6	12.5%	32.1	10.2%
ICH	610	8.3	2.8%	12.5	4.2%	4.2	1.4%
MH	34	49.2	12.1%	109.1	26.9%	59.9	13.2%
SBS	32	5.2	2.1%	19.4	7.7%	14.2	5.6%
<i>All samples</i>	964	20.6	6.3%	31.1	9.6%	10.4	3.0%

## 13 Kootenay Lake (TSA 13)

### 13.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 13.1: TSP samples in Kootenay Lake TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	254	36.0	41.4	14.8%
C	104	67.5	73.1	8.3%
Decid	19	20.8	26.8	28.6%
F	148	37.4	35.9	-4.0%
H	150	50.5	52.6	4.2%
L	65	24.9	27.4	10.3%
PA	3	34.7	37.1	7.0%
PL	126	31.4	32.3	3.1%
PW	9	33.4	36.9	10.5%
PY	9	27.2	22.7	-16.5%
S	87	41.3	44.6	8.0%
<i>All samples</i>	974	40.5	43.3	6.9%

Table 13.2: TSP samples in Kootenay Lake TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	254	912	1027	12.6%
C	104	647	682	5.5%
Decid	19	773	889	15.1%
F	148	1283	1092	-14.9%
H	150	936	877	-6.3%
L	65	1192	1175	-1.4%
PA	3	1073	1151	7.2%
PL	126	1318	1439	9.1%
PW	9	1174	1437	22.4%
PY	9	558	365	-34.5%
S	87	753	871	15.7%
<i>All samples</i>	974	998	1022	2.4%

Table 13.3: TSP samples in Kootenay Lake TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	254	254.9	265.6	298.1
C	104	398.1	406.4	443.4
Decid	19	115.4	117.5	150.0
F	148	236.8	244.8	240.4
H	150	342.1	349.5	359.5
L	65	135.9	152.0	166.5
PA	3	184.1	192.3	207.1
PL	126	203.5	205.5	212.6
PW	9	204.8	188.7	206.5
PY	9	192.9	200.7	176.9
S	87	358.4	358.6	389.6
All samples	974	271.5	278.9	297.5

Table 13.4: TSP samples in Kootenay Lake TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	254	10.7	4.2%	43.3	17.0%	32.6	12.3%
C	104	8.3	2.1%	45.3	11.4%	37.0	9.1%
Decid	19	2.1	1.9%	34.6	30.0%	32.5	27.7%
F	148	7.9	3.4%	3.5	1.5%	-4.4	-1.8%
H	150	7.4	2.2%	17.4	5.1%	10.0	2.9%
L	65	16.1	11.9%	30.7	22.6%	14.6	9.6%
PA	3	8.2	4.5%	23.1	12.5%	14.8	7.7%
PL	126	2.0	1.0%	9.1	4.5%	7.1	3.5%
PW	9	-16.1	-7.9%	1.7	0.8%	17.8	9.4%
PY	9	7.8	4.1%	-16.0	-8.3%	-23.9	-11.9%
S	87	0.2	0.0%	31.2	8.7%	31.0	8.6%
All samples	974	7.4	2.7%	26.0	9.6%	18.6	6.7%

### 13.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 13.5: TSP samples in Kootenay Lake TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	185	116.8	122.4	126.2
61-120 yr	319	261.4	268.8	273.7
121 + yrs	470	339.3	347.3	381.1
All samples	974	271.5	278.9	297.5

Table 13.6: TSP samples in Kootenay Lake TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	185	5.6	4.8%	9.4	8.0%	3.8	3.1%
61-120 yr	319	7.5	2.9%	12.3	4.7%	4.8	1.8%
121 + yrs	470	8.0	2.4%	41.7	12.3%	33.8	9.7%
All samples	974	7.4	2.7%	26.0	9.6%	18.6	6.7%

### 13.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 13.7: TSP samples in Kootenay Lake TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	21	235.7	256.5	286.6
ESSF	404	296.1	305.8	338.0
ICH	518	260.9	266.3	274.3
MS	31	152.8	154.7	165.1
<i>All samples</i>	974	271.5	278.9	297.5

Table 13.8: TSP samples in Kootenay Lake TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	21	20.8	8.8%	50.9	21.6%	30.1	11.7%
ESSF	404	9.7	3.3%	41.9	14.1%	32.2	10.5%
ICH	518	5.3	2.0%	13.3	5.1%	8.0	3.0%
MS	31	1.9	1.2%	12.3	8.0%	10.4	6.7%
<i>All samples</i>	974	7.4	2.7%	26.0	9.6%	18.6	6.7%

## 14 Lakes (TSA 14)

### 14.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 14.1: TSP samples in Lakes TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	99	38.2	37.0	-3.3%
Decid	70	22.3	22.1	-0.9%
F	8	33.1	36.8	11.3%
PL	678	35.4	34.9	-1.2%
S	277	36.1	38.7	7.3%
<i>All samples</i>	1132	35.0	35.2	0.8%

Table 14.2: TSP samples in Lakes TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	99	1473	1069	-27.4%
Decid	70	1246	934	-25.1%
F	8	912	851	-6.7%
PL	678	1532	1268	-17.2%
S	277	1131	1052	-6.9%
<i>All samples</i>	1132	1406	1174	-16.5%

Table 14.3: TSP samples in Lakes TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	99	206.6	223.7	223.1
Decid	70	76.9	75.0	85.8
F	8	238.2	269.5	294.0
PL	678	237.4	246.2	256.8
S	277	255.0	265.2	289.5
All samples	1132	229.1	238.4	251.6

Table 14.4: TSP samples in Lakes TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	99	17.1	8.3%	16.5	8.0%	-0.6	-0.3%
Decid	70	-1.8	-2.4%	8.9	11.6%	10.8	14.4%
F	8	31.3	13.2%	55.9	23.5%	24.5	9.1%
PL	678	8.8	3.7%	19.5	8.2%	10.6	4.3%
S	277	10.2	4.0%	34.5	13.5%	24.3	9.2%
All samples	1132	9.4	4.1%	22.5	9.8%	13.1	5.5%

## 14.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 14.5: TSP samples in Lakes TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	183	66.7	72.8	89.5
61-120 yr	536	251.1	260.0	269.5
121 + yrs	413	272.4	283.9	300.1
All samples	1132	229.1	238.4	251.6

Table 14.6: TSP samples in Lakes TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	183	6.1	9.1%	22.8	34.1%	16.7	22.9%
61-120 yr	536	8.9	3.5%	18.4	7.3%	9.5	3.7%
121 + yrs	413	11.5	4.2%	27.7	10.2%	16.2	5.7%
All samples	1132	9.4	4.1%	22.5	9.8%	13.1	5.5%



### 14.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 14.7: TSP samples in Lakes TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
ESSF	62	209.6	216.8	220.0
SBPS	65	142.8	154.7	152.7
SBS	1005	235.8	245.2	259.9
<i>All samples</i>	1132	229.1	238.4	251.6

Table 14.8: TSP samples in Lakes TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
ESSF	62	7.2	3.4%	10.4	5.0%	3.2	1.5%
SBPS	65	11.9	8.3%	9.9	6.9%	-2.0	-1.3%
SBS	1005	9.4	4.0%	24.1	10.2%	14.7	6.0%
<i>All samples</i>	1132	9.4	4.1%	22.5	9.8%	13.1	5.5%

## 15 Lillooet (TSA 15)

### 15.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 15.1: TSP samples in Lillooet TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	141	52.9	42.7	-19.2%
C	5	76.0	66.0	-13.3%
Decid	5	25.7	26.8	4.4%
F	388	34.6	32.3	-6.5%
H	6	55.1	54.0	-1.9%
PA	42	44.4	33.3	-25.0%
PL	203	38.5	32.3	-16.0%
PY	41	14.3	15.7	9.5%
S	139	55.0	42.6	-22.4%
<i>All samples</i>	970	40.8	34.9	-14.5%

Table 15.2: TSP samples in Lillooet TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	141	1326	1002	-24.4%
C	5	864	818	-5.3%
Decid	5	527	706	34.0%
F	388	668	687	2.8%
H	6	1276	1019	-20.1%
PA	42	1478	1175	-20.5%
PL	203	1539	1517	-1.5%
PY	41	222	329	48.4%
S	139	1091	832	-23.7%
<i>All samples</i>	970	1027	936	-8.8%

Table 15.3: TSP samples in Lillooet TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	141	358.3	370.9	307.7
C	5	561.9	636.9	530.7
Decid	5	188.0	198.0	212.0
F	388	234.2	243.6	230.3
H	6	420.6	437.5	419.6
PA	42	218.1	230.4	181.6
PL	203	192.9	206.6	177.5
PY	41	84.7	88.0	91.9
S	139	446.4	454.1	366.6
All samples	970	269.6	280.4	244.7

Table 15.4: TSP samples in Lillooet TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	141	12.7	3.5%	-50.5	-14.1%	-63.2	-17.0%
C	5	75.0	13.4%	-31.2	-5.6%	-106.3	-16.7%
Decid	5	10.1	5.4%	24.0	12.8%	14.0	7.1%
F	388	9.4	4.0%	-3.9	-1.7%	-13.3	-5.4%
H	6	16.9	4.0%	-1.0	-0.2%	-17.9	-4.1%
PA	42	12.3	5.6%	-36.5	-16.7%	-48.8	-21.2%
PL	203	13.6	7.1%	-15.5	-8.0%	-29.1	-14.1%
PY	41	3.3	3.9%	7.3	8.6%	4.0	4.5%
S	139	7.8	1.7%	-79.8	-17.9%	-87.5	-19.3%
All samples	970	10.8	4.0%	-24.9	-9.2%	-35.7	-12.7%

## 15.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 15.5: TSP samples in Lillooet TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	39	56.8	67.6	77.0
61-120 yr	299	214.9	226.9	206.6
121 + yrs	632	308.6	318.8	273.1
All samples	970	269.6	280.4	244.7

Table 15.6: TSP samples in Lillooet TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	39	10.7	18.9%	20.1	35.4%	9.4	13.9%
61-120 yr	299	12.0	5.6%	-8.3	-3.9%	-20.3	-9.0%
121 + yrs	632	10.2	3.3%	-35.5	-11.5%	-45.7	-14.3%
All samples	970	10.8	4.0%	-24.9	-9.2%	-35.7	-12.7%

### 15.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 15.7: TSP samples in Lillooet TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	17	261.6	272.8	210.7
CWH	28	455.7	521.3	497.5
ESSF	392	320.2	330.0	272.7
IDF	380	215.9	224.0	204.5
MS	109	307.7	318.7	282.8
PP	44	72.8	79.4	100.9
<i>All samples</i>	970	269.6	280.4	244.7

Table 15.8: TSP samples in Lillooet TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	17	11.2	4.3%	-50.9	-19.5%	-62.1	-22.8%
CWH	28	65.6	14.4%	41.8	9.2%	-23.8	-4.6%
ESSF	392	9.9	3.1%	-47.5	-14.8%	-57.3	-17.4%
IDF	380	8.0	3.7%	-11.5	-5.3%	-19.5	-8.7%
MS	109	11.0	3.6%	-24.9	-8.1%	-35.9	-11.3%
PP	44	6.6	9.0%	28.1	38.6%	21.5	27.1%
<i>All samples</i>	970	10.8	4.0%	-24.9	-9.2%	-35.7	-12.7%

## 16 Mackenzie (TSA 16)

### 16.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 16.1: TSP samples in Mackenzie TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	259	32.3	33.7	4.4%
Decid	193	27.4	26.0	-5.1%
PL	484	31.5	32.9	4.3%
S	522	35.7	37.0	3.6%
<i>All samples</i>	1458	32.6	33.6	3.0%

Table 16.2: TSP samples in Mackenzie TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	259	1154	1052	-8.8%
Decid	193	1240	924	-25.5%
PL	484	1467	1241	-15.4%
S	522	969	903	-6.9%
<i>All samples</i>	1458	1203	1044	-13.2%

Table 16.3: TSP samples in Mackenzie TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	259	170.1	173.0	181.7
Decid	193	144.1	147.2	148.9
PL	484	211.1	216.6	235.7
S	522	266.6	270.2	286.3
All samples	1458	214.8	218.9	232.7

Table 16.4: TSP samples in Mackenzie TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	259	2.9	1.7%	11.6	6.8%	8.7	5.0%
Decid	193	3.1	2.2%	4.8	3.3%	1.7	1.1%
PL	484	5.5	2.6%	24.6	11.6%	19.0	8.8%
S	522	3.5	1.3%	19.6	7.4%	16.1	6.0%
All samples	1458	4.0	1.9%	17.9	8.3%	13.8	6.3%

## 16.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 16.5: TSP samples in Mackenzie TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	165	66.4	68.7	90.5
61-120 yr	662	225.7	228.9	238.8
121 + yrs	631	242.2	247.6	263.5
All samples	1458	214.8	218.9	232.7

Table 16.6: TSP samples in Mackenzie TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	165	2.2	3.4%	24.1	36.2%	21.8	31.7%
61-120 yr	662	3.2	1.4%	13.1	5.8%	9.9	4.3%
121 + yrs	631	5.4	2.2%	21.3	8.8%	15.9	6.4%
All samples	1458	4.0	1.9%	17.9	8.3%	13.8	6.3%



### 16.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 16.7: TSP samples in Mackenzie TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	17	119.3	129.0	147.0
BWBS	453	217.7	221.9	230.1
ESSF	375	229.5	232.1	257.2
SBS	407	243.5	248.5	262.1
SWB	206	133.1	136.9	142.7
<i>All samples</i>	1458	214.8	218.9	232.7

Table 16.8: TSP samples in Mackenzie TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	17	9.7	8.1%	27.8	23.3%	18.1	14.0%
BWBS	453	4.2	1.9%	12.4	5.7%	8.2	3.7%
ESSF	375	2.6	1.1%	27.7	12.1%	25.1	10.8%
SBS	407	5.0	2.1%	18.6	7.7%	13.6	5.5%
SWB	206	3.9	2.9%	9.7	7.3%	5.8	4.2%
<i>All samples</i>	1458	4.0	1.9%	17.9	8.3%	13.8	6.3%

## 17 Robson Valley (TSA 17)

### 17.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 17.1: TSP samples in Robson Valley TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	224	39.9	41.1	2.8%
C	123	84.4	82.0	-2.9%
Decid	64	22.6	23.0	2.0%
F	38	44.6	40.9	-8.3%
H	91	55.5	52.5	-5.4%
PL	112	35.5	35.5	0.0%
S	231	40.0	42.8	7.0%
<i>All samples</i>	883	46.1	46.4	0.5%

Table 17.2: TSP samples in Robson Valley TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	224	992	931	-6.1%
C	123	776	632	-18.5%
Decid	64	1042	979	-6.1%
F	38	1252	982	-21.6%
H	91	1055	923	-12.5%
PL	112	1349	1276	-5.4%
S	231	829	788	-5.0%
<i>All samples</i>	883	986	901	-8.7%

Table 17.3: TSP samples in Robson Valley TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	224	274.6	280.5	289.0
C	123	468.1	478.8	463.1
Decid	64	101.9	108.6	114.9
F	38	314.3	315.4	296.0
H	91	323.5	348.1	325.7
PL	112	251.2	257.5	260.7
S	231	325.6	339.6	369.6
All samples	883	306.2	316.7	322.2

Table 17.4: TSP samples in Robson Valley TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	224	5.9	2.1%	14.4	5.3%	8.6	3.1%
C	123	10.7	2.3%	-5.0	-1.1%	-15.7	-3.3%
Decid	64	6.7	6.6%	13.0	12.8%	6.3	5.8%
F	38	1.1	0.3%	-18.2	-5.8%	-19.3	-6.1%
H	91	24.5	7.6%	2.1	0.7%	-22.4	-6.4%
PL	112	6.2	2.5%	9.4	3.7%	3.2	1.2%
S	231	14.0	4.3%	44.0	13.5%	30.0	8.8%
All samples	883	10.5	3.4%	16.0	5.2%	5.5	1.8%

## 17.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 17.5: TSP samples in Robson Valley TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	100	109.4	114.2	123.2
61-120 yr	195	285.4	290.0	275.3
121 + yrs	588	346.5	360.0	371.6
All samples	883	306.2	316.7	322.2

Table 17.6: TSP samples in Robson Valley TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	100	4.8	4.4%	13.9	12.7%	9.1	7.9%
61-120 yr	195	4.6	1.6%	-10.1	-3.5%	-14.7	-5.1%
121 + yrs	588	13.4	3.9%	25.1	7.2%	11.7	3.2%
All samples	883	10.5	3.4%	16.0	5.2%	5.5	1.8%

### 17.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 17.7: TSP samples in Robson Valley TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	6	263.1	258.8	251.1
ESSF	404	301.3	312.6	333.5
ICH	365	333.2	343.7	330.6
SBS	108	235.6	243.9	255.5
<i>All samples</i>	883	306.2	316.7	322.2

Table 17.8: TSP samples in Robson Valley TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	6	-4.3	-1.6%	-12.0	-4.6%	-7.7	-3.0%
ESSF	404	11.3	3.8%	32.2	10.7%	20.9	6.7%
ICH	365	10.5	3.2%	-2.6	-0.8%	-13.1	-3.8%
SBS	108	8.3	3.5%	19.9	8.5%	11.6	4.8%
<i>All samples</i>	883	10.5	3.4%	16.0	5.2%	5.5	1.8%

## 18 Merritt (TSA 18)

### 18.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 18.1: TSP samples in Merritt TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	122	47.0	42.6	-9.4%
C	4	72.6	58.1	-20.0%
Decid	17	24.7	20.7	-16.5%
F	508	25.5	30.2	18.5%
H	5	70.6	65.8	-6.8%
L	1	12.2	28.9	136.4%
PA	1	38.7	39.0	0.8%
PL	597	35.1	34.3	-2.4%
PY	48	14.8	17.2	16.7%
S	212	43.2	41.9	-3.0%
<i>All samples</i>	1515	33.4	34.1	2.1%

Table 18.2: TSP samples in Merritt TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	122	1213	1017	-16.1%
C	4	790	761	-3.8%
Decid	17	1031	778	-24.6%
F	508	631	717	13.7%
H	5	739	666	-10.0%
L	1	284	720	153.5%
PA	1	914	1106	21.0%
PL	597	1587	1377	-13.2%
PY	48	373	345	-7.5%
S	212	936	845	-9.8%
<i>All samples</i>	1515	1094	1009	-7.8%

Table 18.3: TSP samples in Merritt TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	122	322.4	336.5	309.2
C	4	573.4	612.9	500.2
Decid	17	112.9	110.5	98.5
F	508	169.2	181.8	212.9
H	5	708.9	742.2	678.3
L	1	100.2	100.4	228.0
PA	1	209.2	212.1	215.5
PL	597	232.1	248.4	249.5
PY	48	83.3	89.5	112.1
S	212	366.9	387.0	377.3
All samples	1515	233.5	248.4	255.9

Table 18.4: TSP samples in Merritt TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	122	14.1	4.4%	-13.3	-4.1%	-27.4	-8.1%
C	4	39.4	6.9%	-73.2	-12.8%	-112.7	-18.4%
Decid	17	-2.4	-2.1%	-14.4	-12.7%	-12.0	-10.9%
F	508	12.6	7.5%	43.7	25.8%	31.0	17.1%
H	5	33.3	4.7%	-30.7	-4.3%	-63.9	-8.6%
L	1	0.2	0.2%	127.8	127.4%	127.6	127.1%
PA	1	2.9	1.4%	6.3	3.0%	3.4	1.6%
PL	597	16.2	7.0%	17.3	7.5%	1.1	0.4%
PY	48	6.2	7.4%	28.8	34.6%	22.6	25.3%
S	212	20.1	5.5%	10.5	2.8%	-9.7	-2.5%
All samples	1515	15.0	6.4%	22.4	9.6%	7.4	3.0%

## 18.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 18.5: TSP samples in Merritt TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	157	57.5	64.3	84.1
61-120 yr	674	219.6	233.6	233.0
121 + yrs	684	287.5	305.3	317.9
All samples	1515	233.5	248.4	255.9

Table 18.6: TSP samples in Merritt TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	157	6.8	11.9%	26.7	46.4%	19.8	30.9%
61-120 yr	674	14.0	6.4%	13.4	6.1%	-0.6	-0.3%
121 + yrs	684	17.8	6.2%	30.4	10.6%	12.5	4.1%
All samples	1515	15.0	6.4%	22.4	9.6%	7.4	3.0%



### 18.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 18.7: TSP samples in Merritt TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	7	717.2	784.9	682.2
ESSF	323	344.8	356.5	334.9
IDF	673	155.6	166.2	188.7
MS	490	267.1	289.8	296.2
PP	22	76.7	85.9	116.9
<i>All samples</i>	1515	233.5	248.4	255.9

Table 18.8: TSP samples in Merritt TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	7	67.7	9.4%	-35.0	-4.9%	-102.7	-13.1%
ESSF	323	11.7	3.4%	-9.9	-2.9%	-21.6	-6.1%
IDF	673	10.6	6.8%	33.1	21.3%	22.6	13.6%
MS	490	22.7	8.5%	29.1	10.9%	6.4	2.2%
PP	22	9.1	11.9%	40.1	52.3%	31.0	36.1%
<i>All samples</i>	1515	15.0	6.4%	22.4	9.6%	7.4	3.0%

## 19 Mid Coast (TSA 19)

### 19.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 19.1: TSP samples in Mid Coast TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	95	65.8	67.1	2.0%
C	660	82.6	79.9	-3.2%
Decid	22	48.3	41.0	-15.2%
F	109	72.6	64.5	-11.1%
H	593	68.2	67.3	-1.2%
PL	6	29.8	37.8	27.1%
S	27	83.0	67.7	-18.4%
Y	12	71.3	61.5	-13.7%
<i>All samples</i>	1524	74.4	72.0	-3.2%

Table 19.2: TSP samples in Mid Coast TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	95	633	586	-7.3%
C	660	884	744	-15.8%
Decid	22	876	563	-35.7%
F	109	945	668	-29.3%
H	593	762	615	-19.3%
PL	6	1251	1464	17.0%
S	27	450	359	-20.3%
Y	12	1371	979	-28.6%
<i>All samples</i>	1524	823	674	-18.1%

Table 19.3: TSP samples in Mid Coast TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	95	736.8	801.3	814.8
C	660	538.9	621.6	601.7
Decid	22	389.5	435.6	370.2
F	109	651.4	745.1	663.5
H	593	649.2	743.0	732.7
PL	6	174.7	186.6	244.3
S	27	1063.3	1193.5	985.1
Y	12	412.0	452.6	404.1
All samples	1524	606.9	693.3	670.9

Table 19.4: TSP samples in Mid Coast TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	95	64.5	8.7%	78.0	10.6%	13.5	1.7%
C	660	82.7	15.3%	62.7	11.6%	-20.0	-3.2%
Decid	22	46.1	11.8%	-19.3	-5.0%	-65.4	-15.0%
F	109	93.7	14.4%	12.1	1.9%	-81.6	-10.9%
H	593	93.8	14.4%	83.5	12.9%	-10.2	-1.4%
PL	6	11.8	6.8%	69.6	39.8%	57.7	31.0%
S	27	130.3	12.3%	-78.2	-7.4%	-208.4	-17.5%
Y	12	40.6	9.9%	-7.9	-1.9%	-48.6	-10.7%
All samples	1524	86.4	14.2%	63.9	10.5%	-22.4	-3.2%

## 19.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 19.5: TSP samples in Mid Coast TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	22	243.6	279.3	272.2
61-120 yr	150	518.7	543.4	521.5
121 + yrs	1352	622.6	716.7	693.9
All samples	1524	606.9	693.3	670.9

Table 19.6: TSP samples in Mid Coast TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	22	35.6	14.6%	28.6	11.7%	-7.0	-2.5%
61-120 yr	150	24.7	4.8%	2.9	0.6%	-21.9	-4.0%
121 + yrs	1352	94.0	15.1%	71.3	11.5%	-22.7	-3.2%
All samples	1524	86.4	14.2%	63.9	10.5%	-22.4	-3.2%

### 19.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 19.7: TSP samples in Mid Coast TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	1507	608.2	695.2	672.8
ESSF	6	195.4	202.1	275.7
MH	11	656.6	697.4	617.2
<i>All samples</i>	1524	606.9	693.3	670.9

Table 19.8: TSP samples in Mid Coast TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	1507	87.0	14.3%	64.6	10.6%	-22.4	-3.2%
ESSF	6	6.7	3.4%	80.3	41.1%	73.6	36.4%
MH	11	40.9	6.2%	-39.4	-6.0%	-80.2	-11.5%
<i>All samples</i>	1524	86.4	14.2%	63.9	10.5%	-22.4	-3.2%

## 20 Morice (TSA 20)

### 20.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 20.1: TSP samples in Morice TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	638	48.3	44.2	-8.5%
Decid	64	21.4	25.8	20.6%
H	83	62.9	56.1	-10.9%
PA	3	32.6	37.2	14.4%
PL	540	41.7	40.0	-4.2%
S	391	39.1	40.5	3.4%
<i>All samples</i>	1719	43.8	41.9	-4.4%

Table 20.2: TSP samples in Morice TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	638	1061	955	-10.0%
Decid	64	820	913	11.3%
H	83	1120	959	-14.4%
PA	3	1044	1068	2.2%
PL	540	1254	1166	-7.0%
S	391	915	929	1.5%
<i>All samples</i>	1719	1082	1014	-6.3%

Table 20.3: TSP samples in Morice TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	638	340.8	346.3	321.4
Decid	64	112.7	117.3	142.0
H	83	397.5	427.7	386.8
PA	3	152.2	171.7	189.2
PL	540	328.5	341.0	332.0
S	391	319.1	323.6	338.8
All samples	1719	325.9	334.6	324.9

Table 20.4: TSP samples in Morice TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	638	5.5	1.6%	-19.4	-5.7%	-24.9	-7.2%
Decid	64	4.6	4.1%	29.2	25.9%	24.7	21.0%
H	83	30.1	7.6%	-10.8	-2.7%	-40.9	-9.6%
PA	3	19.5	12.8%	37.0	24.3%	17.5	10.2%
PL	540	12.5	3.8%	3.5	1.1%	-9.0	-2.6%
S	391	4.5	1.4%	19.7	6.2%	15.2	4.7%
All samples	1719	8.7	2.7%	-1.0	-0.3%	-9.6	-2.9%

## 20.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 20.5: TSP samples in Morice TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	119	78.7	85.3	99.8
61-120 yr	594	294.0	297.3	294.2
121 + yrs	1006	374.0	386.1	369.8
All samples	1719	325.9	334.6	324.9

Table 20.6: TSP samples in Morice TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	119	6.6	8.4%	21.1	26.9%	14.5	17.0%
61-120 yr	594	3.3	1.1%	0.1	0.1%	-3.1	-1.1%
121 + yrs	1006	12.1	3.2%	-4.2	-1.1%	-16.3	-4.2%
All samples	1719	8.7	2.7%	-1.0	-0.3%	-9.6	-2.9%



## 20.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 20.7: TSP samples in Morice TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	5	477.9	453.6	368.9
CWH	83	462.0	513.9	481.6
ESSF	317	333.0	329.5	315.6
SBS	1314	315.0	324.0	317.1
<i>All samples</i>	1719	325.9	334.6	324.9

Table 20.8: TSP samples in Morice TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	5	-24.4	-5.1%	-109.1	-22.8%	-84.7	-18.7%
CWH	83	51.9	11.2%	19.6	4.2%	-32.3	-6.3%
ESSF	317	-3.5	-1.0%	-17.4	-5.2%	-14.0	-4.2%
SBS	1314	9.0	2.9%	2.1	0.7%	-6.9	-2.1%
<i>All samples</i>	1719	8.7	2.7%	-1.0	-0.3%	-9.6	-2.9%

## 21 North Coast (TSA 21)

### 21.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 21.1: TSP samples in North Coast TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	19	69.4	71.3	2.6%
C	282	74.4	75.5	1.4%
Decid	6	37.4	34.5	-7.7%
H	324	64.3	68.4	6.3%
PL	2	29.4	34.7	17.9%
S	39	68.4	69.2	1.3%
Y	40	61.2	56.4	-7.8%
<i>All samples</i>	712	68.2	70.3	3.1%

Table 21.2: TSP samples in North Coast TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	19	661	507	-23.3%
C	282	902	804	-10.9%
Decid	6	812	613	-24.6%
H	324	712	608	-14.7%
PL	2	958	1472	53.7%
S	39	500	436	-12.8%
Y	40	1086	1045	-3.7%
<i>All samples</i>	712	797	700	-12.1%

Table 21.3: TSP samples in North Coast TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	19	756.3	894.4	899.1
C	282	440.0	523.6	526.9
Decid	6	304.6	317.2	300.2
H	324	567.4	682.3	721.5
PL	2	82.8	103.0	127.5
S	39	786.5	945.2	960.1
Y	40	292.6	344.4	331.2
All samples	712	515.0	615.8	635.1

Table 21.4: TSP samples in North Coast TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	19	138.1	18.3%	142.8	18.9%	4.7	0.5%
C	282	83.7	19.0%	86.9	19.8%	3.2	0.6%
Decid	6	12.5	4.1%	-4.4	-1.5%	-17.0	-5.3%
H	324	114.8	20.2%	154.1	27.2%	39.3	5.8%
PL	2	20.1	24.3%	44.7	53.9%	24.6	23.8%
S	39	158.7	20.2%	173.6	22.1%	14.9	1.6%
Y	40	51.8	17.7%	38.7	13.2%	-13.2	-3.8%
All samples	712	100.9	19.6%	120.1	23.3%	19.3	3.1%

## 21.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 21.5: TSP samples in North Coast TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	28	190.1	235.5	230.1
61-120 yr	20	448.5	529.4	472.8
121 + yrs	664	530.7	634.4	657.0
All samples	712	515.0	615.8	635.1

Table 21.6: TSP samples in North Coast TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	28	45.4	23.9%	40.1	21.1%	-5.3	-2.3%
61-120 yr	20	80.8	18.0%	24.2	5.4%	-56.6	-10.7%
121 + yrs	664	103.8	19.6%	126.4	23.8%	22.6	3.6%
All samples	712	100.9	19.6%	120.1	23.3%	19.3	3.1%

## 21.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 21.7: TSP samples in North Coast TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	706	516.0	616.7	635.0
MH	6	396.4	505.6	639.5
All samples	712	515.0	615.8	635.1

Table 21.8: TSP samples in North Coast TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	706	100.8	19.5%	119.1	23.1%	18.3	3.0%
MH	6	109.2	27.5%	243.1	61.3%	133.9	26.5%
All samples	712	100.9	19.6%	120.1	23.3%	19.3	3.1%

## 22 Okanagan (TSA 22)

### 22.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 22.1: TSP samples in Okanagan TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	339	34.8	41.5	19.2%
C	514	66.7	68.4	2.6%
Decid	55	26.8	26.5	-1.0%
F	938	33.7	34.8	3.1%
H	267	55.2	57.7	4.6%
L	73	33.5	32.1	-4.2%
PL	746	38.1	36.0	-5.5%
PW	14	34.8	34.0	-2.2%
PY	55	12.2	18.0	48.2%
S	330	40.4	43.1	6.6%
<i>All samples</i>	3331	41.8	43.1	3.1%

Table 22.2: TSP samples in Okanagan TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	339	902	969	7.3%
C	514	874	769	-12.0%
Decid	55	1174	1017	-13.3%
F	938	1036	876	-15.5%
H	267	958	729	-24.0%
L	73	1102	888	-19.4%
PL	746	1679	1347	-19.8%
PW	14	1735	1326	-23.6%
PY	55	209	336	60.6%
S	330	919	857	-6.8%
<i>All samples</i>	3331	1117	956	-14.4%

Table 22.3: TSP samples in Okanagan TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	339	250.8	261.3	304.0
C	514	423.4	406.5	414.4
Decid	55	165.0	172.5	169.6
F	938	229.8	237.6	249.7
H	267	362.4	375.0	383.5
L	73	229.9	243.6	237.9
PL	746	274.6	273.0	271.8
PW	14	205.1	223.0	222.2
PY	55	85.2	87.4	128.8
S	330	326.1	340.6	367.2
All samples	3331	288.5	291.7	304.3

Table 22.4: TSP samples in Okanagan TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	339	10.5	4.2%	53.2	21.2%	42.7	16.3%
C	514	-16.9	-4.0%	-9.0	-2.1%	7.8	1.9%
Decid	55	7.5	4.6%	4.6	2.8%	-3.0	-1.7%
F	938	7.8	3.4%	19.9	8.6%	12.1	5.1%
H	267	12.6	3.5%	21.1	5.8%	8.5	2.3%
L	73	13.7	6.0%	8.0	3.5%	-5.7	-2.3%
PL	746	-1.7	-0.6%	-2.8	-1.0%	-1.1	-0.4%
PW	14	17.9	8.7%	17.0	8.3%	-0.9	-0.4%
PY	55	2.2	2.6%	43.6	51.2%	41.3	47.3%
S	330	14.5	4.4%	41.1	12.6%	26.6	7.8%
All samples	3331	3.3	1.1%	15.8	5.5%	12.5	4.3%

## 22.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 22.5: TSP samples in Okanagan TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	294	106.6	109.5	120.0
61-120 yr	1340	273.5	274.4	269.9
121 + yrs	1697	331.8	337.0	363.3
All samples	3331	288.5	291.7	304.3

Table 22.6: TSP samples in Okanagan TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	294	2.8	2.7%	13.4	12.6%	10.6	9.7%
61-120 yr	1340	0.9	0.3%	-3.6	-1.3%	-4.5	-1.6%
121 + yrs	1697	5.2	1.6%	31.5	9.5%	26.3	7.8%
All samples	3331	3.3	1.1%	15.8	5.5%	12.5	4.3%



## 22.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 22.7: TSP samples in Okanagan TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	12	229.3	244.2	227.9
ESSF	717	297.5	305.1	332.8
ICH	1391	343.0	340.3	344.5
IDF	611	178.9	186.6	194.2
MS	457	300.2	305.4	318.0
PP	143	148.4	161.7	202.3
<i>All samples</i>	3331	288.5	291.7	304.3

Table 22.8: TSP samples in Okanagan TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	12	14.8	6.5%	-1.4	-0.6%	-16.3	-6.7%
ESSF	717	7.6	2.6%	35.4	11.9%	27.7	9.1%
ICH	1391	-2.7	-0.8%	1.5	0.4%	4.2	1.2%
IDF	611	7.7	4.3%	15.3	8.5%	7.6	4.1%
MS	457	5.2	1.7%	17.8	5.9%	12.6	4.1%
PP	143	13.3	9.0%	54.0	36.4%	40.6	25.1%
<i>All samples</i>	3331	3.3	1.1%	15.8	5.5%	12.5	4.3%

## 23 100 Mile House (TSA 23)

### 23.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 23.1: TSP samples in 100 Mile House TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	21	37.6	38.4	2.1%
C	18	64.7	72.0	11.2%
Decid	94	21.6	22.1	2.1%
F	421	24.7	30.7	24.3%
PA	1	41.6	24.1	-42.1%
PL	490	22.4	27.4	22.2%
PY	12	9.9	18.6	88.4%
S	79	36.0	37.6	4.5%
<i>All samples</i>	1136	25.0	29.7	18.9%

Table 23.2: TSP samples in 100 Mile House TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	21	1456	1249	-14.2%
C	18	1086	841	-22.6%
Decid	94	1042	889	-14.7%
F	421	718	742	3.3%
PA	1	1244	1151	-7.4%
PL	490	1054	1224	16.2%
PY	12	137	312	127.4%
S	79	1085	954	-12.1%
<i>All samples</i>	1136	929	984	5.9%

Table 23.3: TSP samples in 100 Mile House TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	21	225.5	233.4	237.7
C	18	374.2	410.6	425.0
Decid	94	98.9	101.9	109.5
F	421	151.6	162.2	206.1
PA	1	128.7	132.8	71.3
PL	490	138.6	151.7	185.2
PY	12	56.3	59.8	115.1
S	79	264.7	279.6	299.3
All samples	1136	153.3	165.0	198.6

Table 23.4: TSP samples in 100 Mile House TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	21	7.9	3.5%	12.2	5.4%	4.3	1.8%
C	18	36.4	9.7%	50.8	13.6%	14.4	3.5%
Decid	94	3.1	3.1%	10.6	10.8%	7.5	7.4%
F	421	10.6	7.0%	54.5	36.0%	43.9	27.1%
PA	1	4.1	3.2%	-57.4	-44.6%	-61.5	-46.3%
PL	490	13.1	9.5%	46.7	33.7%	33.6	22.1%
PY	12	3.5	6.1%	58.8	104.4%	55.3	92.6%
S	79	14.9	5.6%	34.6	13.1%	19.7	7.0%
All samples	1136	11.6	7.6%	45.2	29.5%	33.6	20.4%

## 23.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 23.5: TSP samples in 100 Mile House TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	227	71.0	80.7	100.3
61-120 yr	533	170.3	181.1	204.8
121 + yrs	376	179.0	193.1	249.0
All samples	1136	153.3	165.0	198.6

Table 23.6: TSP samples in 100 Mile House TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	227	9.7	13.7%	29.3	41.3%	19.6	24.3%
61-120 yr	533	10.7	6.3%	34.5	20.2%	23.8	13.1%
121 + yrs	376	14.1	7.9%	70.0	39.1%	56.0	29.0%
All samples	1136	11.6	7.6%	45.2	29.5%	33.6	20.4%

### 23.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 23.7: TSP samples in 100 Mile House TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
ESSF	64	237.0	240.9	260.0
ICH	86	277.6	294.0	290.9
IDF	651	111.2	122.2	167.4
MS	38	211.7	242.6	259.6
SBPS	152	157.8	173.4	196.8
SBS	145	212.2	217.8	242.5
<i>All samples</i>	1136	153.3	165.0	198.6

Table 23.8: TSP samples in 100 Mile House TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
ESSF	64	4.0	1.7%	23.1	9.7%	19.1	7.9%
ICH	86	16.4	5.9%	13.3	4.8%	-3.1	-1.1%
IDF	651	11.0	9.9%	56.2	50.6%	45.2	37.0%
MS	38	30.9	14.6%	47.8	22.6%	17.0	7.0%
SBPS	152	15.6	9.9%	39.1	24.8%	23.4	13.5%
SBS	145	5.7	2.7%	30.3	14.3%	24.6	11.3%
<i>All samples</i>	1136	11.6	7.6%	45.2	29.5%	33.6	20.4%

## 24 Prince George (TSA 24)

### 24.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 24.1: TSP samples in Prince George TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	872	33.2	38.5	16.0%
C	154	85.5	85.5	0.0%
Decid	407	28.4	27.9	-1.8%
F	223	43.2	39.1	-9.6%
H	74	53.6	48.5	-9.5%
PL	1794	34.6	35.8	3.6%
S	2491	36.9	39.6	7.5%
<i>All samples</i>	6015	36.8	38.8	5.6%

Table 24.2: TSP samples in Prince George TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	872	893	977	9.3%
C	154	746	667	-10.5%
Decid	407	1001	916	-8.6%
F	223	1167	860	-26.3%
H	74	1049	1028	-2.0%
PL	1794	1345	1208	-10.2%
S	2491	811	847	4.5%
<i>All samples</i>	6015	1010	976	-3.3%

Table 24.3: TSP samples in Prince George TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	872	219.6	228.5	262.5
C	154	458.2	510.9	515.2
Decid	407	166.2	168.7	170.3
F	223	320.7	329.1	311.6
H	74	284.4	317.4	291.8
PL	1794	251.9	264.9	281.4
S	2491	301.8	309.1	337.5
All samples	6015	270.3	280.7	301.6

Table 24.4: TSP samples in Prince George TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	872	8.9	4.1%	42.9	19.5%	34.0	14.9%
C	154	52.8	11.5%	57.1	12.5%	4.3	0.8%
Decid	407	2.5	1.5%	4.1	2.5%	1.6	0.9%
F	223	8.4	2.6%	-9.1	-2.8%	-17.5	-5.3%
H	74	33.0	11.6%	7.5	2.6%	-25.5	-8.0%
PL	1794	13.0	5.2%	29.5	11.7%	16.5	6.2%
S	2491	7.3	2.4%	35.7	11.8%	28.4	9.2%
All samples	6015	10.4	3.8%	31.3	11.6%	20.9	7.4%

## 24.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 24.5: TSP samples in Prince George TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	826	95.2	99.6	115.5
61-120 yr	2225	283.3	289.0	293.3
121 + yrs	2964	309.3	325.0	359.7
All samples	6015	270.3	280.7	301.6

Table 24.6: TSP samples in Prince George TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	826	4.4	4.6%	20.3	21.3%	15.9	16.0%
61-120 yr	2225	5.7	2.0%	9.9	3.5%	4.2	1.5%
121 + yrs	2964	15.6	5.1%	50.3	16.3%	34.7	10.7%
All samples	6015	10.4	3.8%	31.3	11.6%	20.9	7.4%



## 24.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 24.7: TSP samples in Prince George TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	7	195.7	200.7	207.2
BWBS	28	227.8	240.8	264.9
ESSF	751	237.9	244.4	289.2
ICH	236	352.8	390.8	393.7
SBPS	43	206.0	214.6	197.5
SBS	4942	272.5	282.2	300.6
SWB	8	85.8	97.7	100.5
<i>All samples</i>	6015	270.3	280.7	301.6

Table 24.8: TSP samples in Prince George TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	7	5.0	2.6%	11.5	5.9%	6.5	3.2%
BWBS	28	13.1	5.7%	37.1	16.3%	24.0	10.0%
ESSF	751	6.5	2.7%	51.3	21.6%	44.8	18.3%
ICH	236	38.0	10.8%	40.9	11.6%	2.9	0.7%
SBPS	43	8.7	4.2%	-8.5	-4.1%	-17.2	-8.0%
SBS	4942	9.7	3.6%	28.1	10.3%	18.4	6.5%
SWB	8	12.0	13.9%	14.7	17.1%	2.7	2.8%
<i>All samples</i>	6015	10.4	3.8%	31.3	11.6%	20.9	7.4%

## 25 Queen Charlotte Islands (TSA 25)

### 25.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 25.1: TSP samples in Queen Charlotte Islands TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
C	136	77.8	73.5	-5.5%
Decid	1	42.7	23.1	-46.0%
H	119	69.5	70.8	1.8%
PL	3	72.2	39.4	-45.4%
S	20	80.8	69.1	-14.5%
Y	13	67.1	53.2	-20.7%
<i>All samples</i>	292	73.9	70.6	-4.5%

Table 25.2: TSP samples in Queen Charlotte Islands TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
C	136	923	794	-13.9%
Decid	1	1026	698	-31.9%
H	119	493	558	13.2%
PL	3	2753	1274	-53.7%
S	20	508	482	-5.1%
Y	13	1173	1060	-9.6%
<i>All samples</i>	292	750	693	-7.5%

Table 25.3: TSP samples in Queen Charlotte Islands TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
C	136	603.1	546.8	521.8
Decid	1	232.7	244.1	135.2
H	119	818.4	753.7	789.4
PL	3	409.8	365.0	199.2
S	20	1076.7	1028.9	916.7
Y	13	427.3	339.6	303.2
All samples	292	712.2	652.0	643.6

Table 25.4: TSP samples in Queen Charlotte Islands TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
C	136	-56.3	-9.3%	-81.3	-13.5%	-25.0	-4.6%
Decid	1	11.4	4.9%	-97.5	-41.9%	-108.9	-44.6%
H	119	-64.8	-7.9%	-29.0	-3.5%	35.8	4.7%
PL	3	-44.8	-10.9%	-210.6	-51.4%	-165.8	-45.4%
S	20	-47.8	-4.4%	-160.0	-14.9%	-112.2	-10.9%
Y	13	-87.7	-20.5%	-124.0	-29.0%	-36.3	-10.7%
All samples	292	-60.2	-8.5%	-68.6	-9.6%	-8.4	-1.3%

## 25.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 25.5: TSP samples in Queen Charlotte Islands TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	4	527.6	579.7	433.6
61-120 yr	29	674.6	661.7	537.5
121 + yrs	259	719.2	652.0	658.7
All samples	292	712.2	652.0	643.6

Table 25.6: TSP samples in Queen Charlotte Islands TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	4	52.1	9.9%	-94.0	-17.8%	-146.1	-25.2%
61-120 yr	29	-13.0	-1.9%	-137.1	-20.3%	-124.2	-18.8%
121 + yrs	259	-67.2	-9.3%	-60.6	-8.4%	6.7	1.0%
All samples	292	-60.2	-8.5%	-68.6	-9.6%	-8.4	-1.3%

### 25.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 25.7: TSP samples in Queen Charlotte Islands TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	292	712.2	652.0	643.6
All samples	292	712.2	652.0	643.6

Table 25.8: TSP samples in Queen Charlotte Islands TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	292	-60.2	-8.5%	-68.6	-9.6%	-8.4	-1.3%
All samples	292	-60.2	-8.5%	-68.6	-9.6%	-8.4	-1.3%

## 26 Quesnel (TSA 26)

### 26.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 26.1: TSP samples in Quesnel TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	151	34.6	37.4	8.1%
C	21	61.8	66.7	7.9%
Decid	60	25.6	26.1	1.7%
F	174	35.7	39.0	9.1%
H	14	54.3	50.6	-6.7%
PL	730	32.7	33.8	3.5%
S	458	38.2	39.4	3.3%
<i>All samples</i>	1608	35.1	36.6	4.4%

Table 26.2: TSP samples in Quesnel TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	151	1179	1164	-1.3%
C	21	906	818	-9.7%
Decid	60	1021	892	-12.6%
F	174	769	772	0.3%
H	14	931	1028	10.4%
PL	730	1246	1168	-6.3%
S	458	974	918	-5.7%
<i>All samples</i>	1608	1095	1037	-5.3%

Table 26.3: TSP samples in Quesnel TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	151	202.6	215.4	230.3
C	21	399.1	457.2	466.4
Decid	60	136.4	137.3	147.9
F	174	281.8	283.4	313.1
H	14	330.8	321.1	297.9
PL	730	241.4	253.0	269.8
S	458	294.4	304.4	322.3
All samples	1608	256.2	266.3	284.0

Table 26.4: TSP samples in Quesnel TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	151	12.8	6.3%	27.7	13.7%	14.9	6.9%
C	21	58.1	14.6%	67.3	16.9%	9.2	2.0%
Decid	60	0.8	0.6%	11.5	8.4%	10.6	7.7%
F	174	1.6	0.6%	31.4	11.1%	29.8	10.5%
H	14	-9.7	-2.9%	-33.0	-10.0%	-23.3	-7.2%
PL	730	11.6	4.8%	28.4	11.8%	16.8	6.6%
S	458	9.9	3.4%	27.9	9.5%	17.9	5.9%
All samples	1608	10.2	4.0%	27.8	10.9%	17.7	6.6%

## 26.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 26.5: TSP samples in Quesnel TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	171	118.9	122.9	130.9
61-120 yr	772	244.5	251.2	259.5
121 + yrs	665	305.0	320.8	351.8
All samples	1608	256.2	266.3	284.0

Table 26.6: TSP samples in Quesnel TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	171	4.1	3.4%	12.0	10.1%	7.9	6.4%
61-120 yr	772	6.7	2.7%	15.0	6.1%	8.3	3.3%
121 + yrs	665	15.8	5.2%	46.8	15.4%	31.0	9.7%
All samples	1608	10.2	4.0%	27.8	10.9%	17.7	6.6%



## 26.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 26.7: TSP samples in Quesnel TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
ESSF	320	244.2	258.7	286.4
ICH	27	289.5	306.7	336.8
IDF	37	229.8	226.7	265.7
MS	96	195.6	206.0	224.3
SBPS	404	225.7	235.0	245.6
SBS	724	286.6	295.7	311.3
<i>All samples</i>	1608	256.2	266.3	284.0

Table 26.8: TSP samples in Quesnel TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
ESSF	320	14.5	5.9%	42.1	17.3%	27.7	10.7%
ICH	27	17.2	5.9%	47.4	16.4%	30.1	9.8%
IDF	37	-3.2	-1.4%	35.8	15.6%	39.0	17.2%
MS	96	10.3	5.3%	28.7	14.7%	18.3	8.9%
SBPS	404	9.3	4.1%	19.9	8.8%	10.6	4.5%
SBS	724	9.1	3.2%	24.7	8.6%	15.6	5.3%
<i>All samples</i>	1608	10.2	4.0%	27.8	10.9%	17.7	6.6%

## 27 Revelstoke (TSA 27)

### 27.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 27.1: TSP samples in Revelstoke TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	45	33.3	43.8	31.3%
C	127	76.7	79.6	3.8%
Decid	10	23.0	19.5	-15.3%
F	50	37.0	35.7	-3.6%
H	109	53.5	54.0	0.9%
PL	1	17.2	24.1	40.0%
PW	6	21.1	28.5	34.8%
S	17	40.6	50.2	23.6%
<i>All samples</i>	365	54.8	57.5	5.0%

Table 27.2: TSP samples in Revelstoke TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	45	533	997	87.0%
C	127	550	636	15.6%
Decid	10	1396	1177	-15.7%
F	50	1366	1168	-14.5%
H	109	822	800	-2.7%
PL	1	663	1727	160.7%
PW	6	929	1355	45.8%
S	17	453	803	77.4%
<i>All samples</i>	365	766	840	9.6%

Table 27.3: TSP samples in Revelstoke TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	45	254.1	250.2	313.1
C	127	464.3	464.2	512.6
Decid	10	95.4	100.0	80.3
F	50	230.0	225.0	228.5
H	109	370.2	359.5	364.4
PL	1	86.5	87.3	88.8
PW	6	119.2	124.7	162.6
S	17	364.1	364.0	452.6
All samples	365	356.7	352.5	383.3

Table 27.4: TSP samples in Revelstoke TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	45	-3.8	-1.5%	59.0	23.2%	62.8	25.1%
C	127	-0.2	0.0%	48.3	10.4%	48.5	10.4%
Decid	10	4.5	4.7%	-15.1	-15.9%	-19.7	-19.7%
F	50	-5.0	-2.2%	-1.5	-0.7%	3.5	1.5%
H	109	-10.7	-2.9%	-5.8	-1.6%	4.9	1.4%
PL	1	0.8	0.9%	2.3	2.6%	1.5	1.7%
PW	6	5.5	4.6%	43.3	36.3%	37.9	30.4%
S	17	0.0	0.0%	88.5	24.3%	88.5	24.3%
All samples	365	-4.2	-1.2%	26.6	7.4%	30.8	8.7%

## 27.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 27.5: TSP samples in Revelstoke TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	47	118.1	125.3	116.1
61-120 yr	98	284.6	276.1	299.4
121 + yrs	220	439.8	435.1	477.8
All samples	365	356.7	352.5	383.3

Table 27.6: TSP samples in Revelstoke TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	47	7.2	6.1%	-2.0	-1.7%	-9.2	-7.3%
61-120 yr	98	-8.5	-3.0%	14.8	5.2%	23.3	8.4%
121 + yrs	220	-4.7	-1.1%	37.9	8.6%	42.6	9.8%
All samples	365	-4.2	-1.2%	26.6	7.4%	30.8	8.7%

### 27.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 27.7: TSP samples in Revelstoke TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
ESSF	81	350.4	365.8	384.0
ICH	284	358.5	348.7	383.1
All samples	365	356.7	352.5	383.3

Table 27.8: TSP samples in Revelstoke TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
ESSF	81	15.4	4.4%	33.6	9.6%	18.2	5.0%
ICH	284	-9.8	-2.7%	24.5	6.8%	34.4	9.9%
All samples	365	-4.2	-1.2%	26.6	7.4%	30.8	8.7%

## 28 Williams Lake (TSA 29)

### 28.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 28.1: TSP samples in Williams Lake TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	73	36.0	39.8	10.5%
C	156	78.2	80.4	2.9%
Decid	139	21.4	22.4	4.7%
F	772	30.4	32.5	6.8%
H	40	51.3	48.3	-5.8%
PA	4	58.8	40.1	-31.9%
PL	1071	26.0	29.4	12.9%
PW	1	25.5	30.5	19.5%
S	348	36.2	37.7	4.0%
<i>All samples</i>	2604	32.3	34.7	7.4%

Table 28.2: TSP samples in Williams Lake TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	73	978	1064	8.8%
C	156	799	695	-13.0%
Decid	139	901	870	-3.4%
F	772	827	765	-7.5%
H	40	1329	932	-29.9%
PA	4	1599	1045	-34.6%
PL	1071	1152	1302	13.0%
PW	1	915	2045	123.5%
S	348	957	934	-2.4%
<i>All samples</i>	2604	994	1022	2.9%

Table 28.3: TSP samples in Williams Lake TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	73	221.5	236.7	255.2
C	156	437.5	481.8	486.9
Decid	139	104.8	108.0	116.1
F	772	189.3	201.6	222.5
H	40	250.1	294.5	276.4
PA	4	328.2	308.7	222.2
PL	1071	150.2	165.0	188.0
PW	1	80.3	100.9	99.4
S	348	257.6	272.3	287.9
All samples	2604	194.7	210.3	228.9

Table 28.4: TSP samples in Williams Lake TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	73	15.2	6.8%	33.6	15.2%	18.5	7.8%
C	156	44.3	10.1%	49.3	11.3%	5.0	1.0%
Decid	139	3.2	3.0%	11.3	10.8%	8.2	7.6%
F	772	12.2	6.5%	33.1	17.5%	20.9	10.4%
H	40	44.4	17.7%	26.4	10.5%	-18.0	-6.1%
PA	4	-19.6	-6.0%	-106.1	-32.3%	-86.5	-28.0%
PL	1071	14.8	9.8%	37.8	25.2%	23.0	13.9%
PW	1	20.6	25.7%	19.1	23.8%	-1.5	-1.5%
S	348	14.6	5.7%	30.3	11.8%	15.7	5.8%
All samples	2604	15.6	8.0%	34.2	17.5%	18.6	8.8%

## 28.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 28.5: TSP samples in Williams Lake TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	274	76.0	82.8	96.7
61-120 yr	1102	171.1	181.9	196.9
121 + yrs	1228	242.5	264.3	287.1
All samples	2604	194.7	210.3	228.9

Table 28.6: TSP samples in Williams Lake TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	274	6.7	8.9%	20.7	27.2%	13.9	16.8%
61-120 yr	1102	10.9	6.3%	25.9	15.1%	15.0	8.2%
121 + yrs	1228	21.8	9.0%	44.6	18.4%	22.9	8.6%
All samples	2604	15.6	8.0%	34.2	17.5%	18.6	8.8%



### 28.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 28.7: TSP samples in Williams Lake TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	7	172.8	183.3	207.2
BG	4	127.4	135.9	146.9
CWH	5	571.1	660.1	564.7
ESSF	254	275.5	293.4	313.2
ICH	336	296.4	325.0	328.0
IDF	811	144.6	158.1	184.0
MS	250	180.7	199.5	209.4
SBPS	539	133.9	148.0	165.5
SBS	398	247.0	253.7	278.1
<i>All samples</i>	2604	194.7	210.3	228.9

Table 28.8: TSP samples in Williams Lake TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	7	10.5	6.1%	34.4	19.9%	23.8	13.0%
BG	4	8.5	6.7%	19.5	15.3%	11.1	8.1%
CWH	5	89.0	15.6%	-6.4	-1.1%	-95.4	-14.5%
ESSF	254	17.8	6.5%	37.7	13.7%	19.8	6.8%
ICH	336	28.6	9.6%	31.6	10.6%	3.0	0.9%
IDF	811	13.5	9.3%	39.4	27.2%	25.9	16.4%
MS	250	18.8	10.4%	28.7	15.9%	9.9	5.0%
SBPS	539	14.1	10.5%	31.6	23.6%	17.5	11.8%
SBS	398	6.7	2.7%	31.1	12.6%	24.4	9.6%
<i>All samples</i>	2604	15.6	8.0%	34.2	17.5%	18.6	8.8%

## 29 Fraser (TSA 30)

### 29.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 29.1: TSP samples in Fraser TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	187	67.7	63.9	-5.6%
C	202	83.6	79.7	-4.7%
Decid	61	27.6	29.3	6.5%
F	235	58.2	53.7	-7.7%
H	418	65.5	65.4	-0.1%
PL	32	33.1	34.2	3.3%
PW	1	26.2	47.3	80.7%
S	21	64.8	50.8	-21.6%
Y	19	76.5	73.9	-3.3%
<i>All samples</i>	1176	64.8	62.4	-3.6%

Table 29.2: TSP samples in Fraser TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	187	879	682	-22.4%
C	202	626	622	-0.6%
Decid	61	770	543	-29.5%
F	235	962	774	-19.6%
H	418	823	703	-14.5%
PL	32	1784	1246	-30.2%
PW	1	1533	1250	-18.5%
S	21	806	653	-19.0%
Y	19	812	773	-4.8%
<i>All samples</i>	1176	849	707	-16.7%

Table 29.3: TSP samples in Fraser TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	187	657.9	715.3	692.6
C	202	697.9	740.4	720.4
Decid	61	202.9	213.9	233.6
F	235	489.1	530.5	497.4
H	418	555.6	624.9	634.0
PL	32	177.6	198.0	220.0
PW	1	129.1	136.1	284.4
S	21	645.9	663.4	524.8
Y	19	517.3	571.2	566.5
All samples	1176	555.0	606.7	595.5

Table 29.4: TSP samples in Fraser TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	187	57.5	8.7%	34.7	5.3%	-22.8	-3.2%
C	202	42.5	6.1%	22.5	3.2%	-20.0	-2.7%
Decid	61	11.0	5.4%	30.8	15.2%	19.8	9.3%
F	235	41.4	8.5%	8.3	1.7%	-33.1	-6.2%
H	418	69.3	12.5%	78.4	14.1%	9.1	1.5%
PL	32	20.3	11.5%	42.4	23.8%	22.0	11.1%
PW	1	7.0	5.4%	155.3	120.3%	148.3	109.0%
S	21	17.5	2.7%	-121.1	-18.8%	-138.6	-20.9%
Y	19	54.0	10.4%	49.3	9.5%	-4.7	-0.8%
All samples	1176	51.7	9.3%	40.4	7.3%	-11.3	-1.9%

## 29.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 29.5: TSP samples in Fraser TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	107	166.5	175.8	206.1
61-120 yr	232	377.8	403.7	389.7
121 + yrs	837	653.8	718.1	702.3
All samples	1176	555.0	606.7	595.5

Table 29.6: TSP samples in Fraser TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	107	9.3	5.6%	39.6	23.8%	30.3	17.2%
61-120 yr	232	25.9	6.9%	11.9	3.1%	-14.0	-3.5%
121 + yrs	837	64.2	9.8%	48.5	7.4%	-15.8	-2.2%
All samples	1176	51.7	9.3%	40.4	7.3%	-11.3	-1.9%

### 29.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 29.7: TSP samples in Fraser TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	1	413.4	401.3	316.6
CWH	940	574.5	635.8	625.3
ESSF	69	477.3	483.9	425.6
IDF	70	326.7	344.7	309.0
MH	96	588.0	603.9	637.3
<i>All samples</i>	1176	555.0	606.7	595.5

Table 29.8: TSP samples in Fraser TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	1	-12.1	-2.9%	-96.8	-23.4%	-84.7	-21.1%
CWH	940	61.2	10.7%	50.8	8.8%	-10.5	-1.6%
ESSF	69	6.6	1.4%	-51.7	-10.8%	-58.3	-12.1%
IDF	70	18.0	5.5%	-17.6	-5.4%	-35.6	-10.3%
MH	96	16.0	2.7%	49.3	8.4%	33.3	5.5%
<i>All samples</i>	1176	51.7	9.3%	40.4	7.3%	-11.3	-1.9%

## 30 Soo (TSA 31)

### 30.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 30.1: TSP samples in Soo TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	64	67.4	67.6	0.4%
C	73	82.6	83.7	1.3%
Decid	13	32.7	35.1	7.3%
F	231	52.2	53.4	2.2%
H	182	66.9	67.0	0.2%
PL	5	20.6	31.8	53.9%
S	1	52.4	57.4	9.4%
Y	5	56.0	68.8	22.9%
<i>All samples</i>	574	61.7	62.7	1.5%

Table 30.2: TSP samples in Soo TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	64	675	646	-4.2%
C	73	582	587	0.9%
Decid	13	658	492	-25.2%
F	231	919	727	-20.9%
H	182	772	684	-11.4%
PL	5	1221	1431	17.2%
S	1	647	649	0.3%
Y	5	645	777	20.5%
<i>All samples</i>	574	797	688	-13.6%

Table 30.3: TSP samples in Soo TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	64	644.6	679.5	688.6
C	73	737.8	787.9	812.1
Decid	13	276.5	292.6	316.6
F	231	439.3	468.5	491.8
H	182	585.7	654.1	656.2
PL	5	95.9	104.6	161.1
S	1	497.5	572.7	608.3
Y	5	353.5	442.0	526.7
All samples	574	539.2	584.3	600.3

Table 30.4: TSP samples in Soo TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	64	34.9	5.4%	43.9	6.8%	9.0	1.3%
C	73	50.2	6.8%	74.3	10.1%	24.1	3.1%
Decid	13	16.1	5.8%	40.0	14.5%	23.9	8.2%
F	231	29.2	6.6%	52.6	12.0%	23.4	5.0%
H	182	68.4	11.7%	70.5	12.0%	2.1	0.3%
PL	5	8.7	9.0%	65.2	67.9%	56.5	54.0%
S	1	75.2	15.1%	110.8	22.3%	35.6	6.2%
Y	5	88.5	25.0%	173.2	49.0%	84.7	19.2%
All samples	574	45.1	8.4%	61.0	11.3%	16.0	2.7%

### 30.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 30.5: TSP samples in Soo TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	47	224.9	237.8	251.0
61-120 yr	103	370.0	391.9	398.5
121 + yrs	424	615.2	669.4	688.0
All samples	574	539.2	584.3	600.3

Table 30.6: TSP samples in Soo TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	47	12.9	5.7%	26.1	11.6%	13.2	5.5%
61-120 yr	103	21.9	5.9%	28.5	7.7%	6.7	1.7%
121 + yrs	424	54.3	8.8%	72.8	11.8%	18.5	2.8%
All samples	574	45.1	8.4%	61.0	11.3%	16.0	2.7%



### 30.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 30.7: TSP samples in Soo TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	475	541.0	594.4	616.2
ESSF	4	452.8	434.6	421.7
IDF	50	430.5	430.3	397.2
MH	45	649.2	662.3	673.0
<i>All samples</i>	574	539.2	584.3	600.3

Table 30.8: TSP samples in Soo TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	475	53.4	9.9%	75.3	13.9%	21.9	3.7%
ESSF	4	-18.3	-4.0%	-31.2	-6.9%	-12.9	-3.0%
IDF	50	-0.3	-0.1%	-33.3	-7.7%	-33.0	-7.7%
MH	45	13.1	2.0%	23.9	3.7%	10.8	1.6%
<i>All samples</i>	574	45.1	8.4%	61.0	11.3%	16.0	2.7%

## 31 Kingcome (TSA 33)

### 31.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 31.1: TSP samples in Kingcome TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	56	66.8	66.8	0.0%
C	569	85.9	83.5	-2.8%
Decid	37	39.2	36.3	-7.4%
F	21	72.8	56.4	-22.5%
H	250	60.6	61.9	2.1%
PA	1	40.2	23.2	-42.3%
PL	16	26.9	29.8	10.6%
S	19	60.5	60.7	0.3%
Y	39	72.1	64.3	-10.8%
<i>All samples</i>	1008	74.6	72.8	-2.4%

Table 31.2: TSP samples in Kingcome TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	56	635	594	-6.5%
C	569	938	771	-17.9%
Decid	37	689	541	-21.5%
F	21	1036	713	-31.1%
H	250	954	665	-30.3%
PA	1	2027	1404	-30.8%
PL	16	1392	1312	-5.7%
S	19	656	614	-6.4%
Y	39	1094	956	-12.6%
<i>All samples</i>	1008	927	739	-20.4%

Table 31.3: TSP samples in Kingcome TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	56	734.0	777.4	796.4
C	569	537.5	602.3	587.0
Decid	37	353.9	373.7	344.9
F	21	700.6	709.3	564.3
H	250	625.7	686.3	710.4
PA	1	133.5	130.8	70.8
PL	16	151.2	175.9	202.3
S	19	677.1	750.0	763.6
Y	39	417.6	447.8	414.5
All samples	1008	558.4	616.3	609.9

Table 31.4: TSP samples in Kingcome TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	56	43.3	5.9%	62.4	8.5%	19.0	2.5%
C	569	64.8	12.1%	49.5	9.2%	-15.3	-2.5%
Decid	37	19.9	5.6%	-9.0	-2.5%	-28.8	-7.7%
F	21	8.7	1.2%	-136.2	-19.4%	-144.9	-20.4%
H	250	60.5	9.7%	84.6	13.5%	24.1	3.5%
PA	1	-2.7	-2.0%	-62.7	-46.9%	-60.0	-45.9%
PL	16	24.6	16.3%	51.1	33.8%	26.5	15.1%
S	19	73.0	10.8%	86.6	12.8%	13.6	1.8%
Y	39	30.1	7.2%	-3.2	-0.8%	-33.3	-7.4%
All samples	1008	57.8	10.4%	51.5	9.2%	-6.3	-1.0%

### 31.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 31.5: TSP samples in Kingcome TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	97	343.7	364.6	329.8
61-120 yr	80	537.6	562.4	537.6
121 + yrs	831	585.5	650.8	649.6
All samples	1008	558.4	616.3	609.9

Table 31.6: TSP samples in Kingcome TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	97	20.8	6.1%	-13.9	-4.1%	-34.8	-9.5%
61-120 yr	80	24.8	4.6%	0.1	0.0%	-24.7	-4.4%
121 + yrs	831	65.3	11.2%	64.1	10.9%	-1.3	-0.2%
All samples	1008	57.8	10.4%	51.5	9.2%	-6.3	-1.0%

### 31.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 31.7: TSP samples in Kingcome TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	2	145.6	138.9	134.3
CWH	960	568.5	629.9	626.0
ESSF	10	409.1	387.1	318.2
IDF	16	400.3	372.4	316.0
MH	6	448.5	428.4	341.0
MS	10	329.9	347.2	276.9
SBPS	4	82.4	87.9	128.6
<i>All samples</i>	1008	558.4	616.3	609.9

Table 31.8: TSP samples in Kingcome TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	2	-6.7	-4.6%	-11.3	-7.7%	-4.6	-3.3%
CWH	960	61.4	10.8%	57.5	10.1%	-3.9	-0.6%
ESSF	10	-22.0	-5.4%	-90.8	-22.2%	-68.8	-17.8%
IDF	16	-27.9	-7.0%	-84.3	-21.1%	-56.4	-15.1%
MH	6	-20.1	-4.5%	-107.5	-24.0%	-87.3	-20.4%
MS	10	17.3	5.3%	-53.0	-16.1%	-70.4	-20.3%
SBPS	4	5.5	6.6%	46.2	56.0%	40.7	46.3%
<i>All samples</i>	1008	57.8	10.4%	51.5	9.2%	-6.3	-1.0%

## 32 Strathcona (TSA 37)

### 32.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 32.1: TSP samples in Strathcona TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	18	75.9	72.0	-5.2%
C	159	91.4	88.1	-3.5%
Decid	15	34.3	27.8	-19.0%
F	120	47.1	44.9	-4.7%
H	237	63.9	59.7	-6.7%
PL	1	20.2	26.5	30.7%
S	3	36.4	38.6	6.0%
Y	36	82.3	74.9	-8.9%
<i>All samples</i>	589	68.4	64.7	-5.5%

Table 32.2: TSP samples in Strathcona TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	18	696	596	-14.4%
C	159	631	589	-6.7%
Decid	15	1289	775	-39.9%
F	120	1075	1022	-4.9%
H	237	1036	776	-25.1%
PL	1	1359	1588	16.9%
S	3	680	734	7.9%
Y	36	803	757	-5.8%
<i>All samples</i>	589	915	770	-15.9%

Table 32.3: TSP samples in Strathcona TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	18	787.2	852.9	814.4
C	159	766.3	814.3	798.8
Decid	15	233.0	276.5	224.2
F	120	379.6	402.5	383.2
H	237	565.5	611.6	581.0
PL	1	70.6	63.4	88.4
S	3	371.2	431.8	408.6
Y	36	564.0	591.8	573.0
All samples	589	578.2	619.5	595.3

Table 32.4: TSP samples in Strathcona TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	18	65.7	8.4%	27.2	3.5%	-38.5	-4.5%
C	159	48.0	6.3%	32.4	4.2%	-15.6	-1.9%
Decid	15	43.5	18.7%	-8.8	-3.8%	-52.3	-18.9%
F	120	22.9	6.0%	3.6	1.0%	-19.3	-4.8%
H	237	46.1	8.2%	15.5	2.7%	-30.6	-5.0%
PL	1	-7.2	-10.1%	17.8	25.3%	25.0	39.4%
S	3	60.6	16.3%	37.4	10.1%	-23.2	-5.4%
Y	36	27.7	4.9%	8.9	1.6%	-18.8	-3.2%
All samples	589	41.3	7.1%	17.1	3.0%	-24.2	-3.9%

### 32.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 32.5: TSP samples in Strathcona TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	162	214.7	231.0	215.5
61-120 yr	39	567.4	572.7	599.4
121 + yrs	388	731.1	786.5	753.5
All samples	589	578.2	619.5	595.3

Table 32.6: TSP samples in Strathcona TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	162	16.3	7.6%	0.8	0.4%	-15.5	-6.7%
61-120 yr	39	5.3	0.9%	31.9	5.6%	26.7	4.7%
121 + yrs	388	55.3	7.6%	22.4	3.1%	-32.9	-4.2%
All samples	589	41.3	7.1%	17.1	3.0%	-24.2	-3.9%



### 32.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 32.7: TSP samples in Strathcona TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
CWH	577	578.2	619.4	596.1
MH	12	578.7	624.5	560.7
All samples	589	578.2	619.5	595.3

Table 32.8: TSP samples in Strathcona TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
CWH	577	41.2	7.1%	17.8	3.1%	-23.4	-3.8%
MH	12	45.9	7.9%	-18.0	-3.1%	-63.9	-10.2%
All samples	589	41.3	7.1%	17.1	3.0%	-24.2	-3.9%

## 33 Sunshine Coast (TSA 39)

### 33.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 33.1: TSP samples in Sunshine Coast TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	61	67.4	66.3	-1.7%
C	235	71.6	79.3	10.7%
Decid	71	33.6	31.8	-5.4%
F	223	55.0	59.0	7.3%
H	357	58.1	61.1	5.2%
PL	8	24.9	33.4	34.1%
S	2	52.1	62.4	19.8%
Y	31	81.6	72.8	-10.8%
<i>All samples</i>	988	59.9	63.3	5.7%

Table 33.2: TSP samples in Sunshine Coast TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	61	769	707	-8.0%
C	235	668	649	-3.0%
Decid	71	753	591	-21.6%
F	223	850	759	-10.7%
H	357	833	768	-7.8%
PL	8	1385	1400	1.1%
S	2	328	571	74.0%
Y	31	851	770	-9.5%
<i>All samples</i>	988	792	726	-8.4%

Table 33.3: TSP samples in Sunshine Coast TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	61	666.2	716.9	715.8
C	235	621.1	684.6	750.2
Decid	71	295.3	301.2	285.3
F	223	484.8	533.6	576.0
H	357	503.9	559.3	586.5
PL	8	117.2	116.2	170.2
S	2	552.8	637.6	791.8
Y	31	545.9	611.7	564.8
All samples	988	520.7	572.7	605.8

Table 33.4: TSP samples in Sunshine Coast TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	61	50.7	7.6%	49.6	7.4%	-1.1	-0.1%
C	235	63.6	10.2%	129.1	20.8%	65.6	9.6%
Decid	71	5.9	2.0%	-10.0	-3.4%	-15.9	-5.3%
F	223	48.9	10.1%	91.3	18.8%	42.4	7.9%
H	357	55.5	11.0%	82.6	16.4%	27.1	4.9%
PL	8	-0.9	-0.8%	53.0	45.3%	54.0	46.4%
S	2	84.7	15.3%	238.9	43.2%	154.2	24.2%
Y	31	65.8	12.1%	18.9	3.5%	-46.9	-7.7%
All samples	988	52.0	10.0%	85.0	16.3%	33.0	5.8%

### 33.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 33.5: TSP samples in Sunshine Coast TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	172	265.7	282.8	279.4
61-120 yr	238	420.4	449.3	529.6
121 + yrs	578	638.0	709.8	734.3
All samples	988	520.7	572.7	605.8

Table 33.6: TSP samples in Sunshine Coast TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	172	17.1	6.4%	13.7	5.1%	-3.4	-1.2%
61-120 yr	238	28.9	6.9%	109.2	26.0%	80.3	17.9%
121 + yrs	578	71.9	11.3%	96.3	15.1%	24.4	3.4%
All samples	988	52.0	10.0%	85.0	16.3%	33.0	5.8%

### 33.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 33.7: TSP samples in Sunshine Coast TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	2	220.2	262.2	235.0
CDF	15	412.3	469.8	588.2
CWH	912	526.3	579.3	612.1
ESSF	2	299.4	246.6	213.1
IDF	7	282.2	273.0	232.2
MH	50	506.7	551.5	578.6
<i>All samples</i>	988	520.7	572.7	605.8

Table 33.8: TSP samples in Sunshine Coast TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	2	41.9	19.0%	14.8	6.7%	-27.2	-10.4%
CDF	15	57.5	14.0%	176.0	42.7%	118.5	25.2%
CWH	912	53.0	10.1%	85.8	16.3%	32.8	5.7%
ESSF	2	-52.9	-17.7%	-86.3	-28.8%	-33.5	-13.6%
IDF	7	-9.3	-3.3%	-50.0	-17.7%	-40.7	-14.9%
MH	50	44.8	8.8%	71.9	14.2%	27.1	4.9%
<i>All samples</i>	988	52.0	10.0%	85.0	16.3%	33.0	5.8%

## 34 Fort St. John (TSA 40)

### 34.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 34.1: TSP samples in Fort St. John TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	11	39.5	34.9	-11.6%
Decid	355	30.4	27.8	-8.8%
L	10	11.0	12.9	17.0%
PL	296	33.3	27.5	-17.3%
S	816	37.3	34.2	-8.3%
<i>All samples</i>	1488	34.7	31.2	-10.1%

Table 34.2: TSP samples in Fort St. John TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	11	1417	1127	-20.5%
Decid	355	1045	815	-22.0%
L	10	834	811	-2.7%
PL	296	1575	1160	-26.3%
S	816	1179	898	-23.8%
<i>All samples</i>	1488	1225	931	-24.0%

Table 34.3: TSP samples in Fort St. John TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	11	217.6	226.9	203.6
Decid	355	180.1	178.7	170.8
L	10	30.4	28.0	35.6
PL	296	216.6	212.1	184.5
S	816	264.3	264.8	258.7
All samples	1488	232.8	231.9	221.1

Table 34.4: TSP samples in Fort St. John TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	11	9.3	4.3%	-14.0	-6.4%	-23.3	-10.3%
Decid	355	-1.3	-0.7%	-9.3	-5.2%	-8.0	-4.5%
L	10	-2.4	-8.0%	5.2	17.2%	7.7	27.4%
PL	296	-4.5	-2.1%	-32.1	-14.8%	-27.6	-13.0%
S	816	0.5	0.2%	-5.6	-2.1%	-6.1	-2.3%
All samples	1488	-0.9	-0.4%	-11.7	-5.0%	-10.8	-4.7%

### 34.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 34.5: TSP samples in Fort St. John TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	131	65.7	67.2	81.7
61-120 yr	914	230.9	228.4	211.2
121 + yrs	443	286.0	287.9	282.8
All samples	1488	232.8	231.9	221.1

Table 34.6: TSP samples in Fort St. John TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	131	1.4	2.2%	15.9	24.3%	14.5	21.6%
61-120 yr	914	-2.6	-1.1%	-19.8	-8.6%	-17.2	-7.5%
121 + yrs	443	1.9	0.7%	-3.3	-1.1%	-5.2	-1.8%
All samples	1488	-0.9	-0.4%	-11.7	-5.0%	-10.8	-4.7%



### 34.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 34.7: TSP samples in Fort St. John TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
AT	4	98.0	113.8	143.7
BWBS	1278	237.6	235.9	226.9
ESSF	125	262.0	269.4	248.5
SWB	81	118.5	117.6	90.9
<i>All samples</i>	1488	232.8	231.9	221.1

Table 34.8: TSP samples in Fort St. John TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
AT	4	15.8	16.2%	45.7	46.7%	29.9	26.3%
BWBS	1278	-1.8	-0.7%	-10.7	-4.5%	-9.0	-3.8%
ESSF	125	7.4	2.8%	-13.5	-5.1%	-20.9	-7.8%
SWB	81	-0.9	-0.8%	-27.6	-23.3%	-26.7	-22.7%
<i>All samples</i>	1488	-0.9	-0.4%	-11.7	-5.0%	-10.8	-4.7%

## 35 Dawson Creek (TSA 41)

### 35.1 TSP Comparisons by Leading Species

The following tables show trends by leading species among the TSP samples in this TSA.

Table 35.1: TSP samples in Dawson Creek TSA: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
B	73	35.9	35.8	-0.4%
Decid	438	32.0	27.8	-13.2%
L	6	12.0	14.0	16.6%
PL	318	33.7	31.8	-5.4%
S	523	37.6	36.8	-2.1%
<i>All samples</i>	1358	34.7	32.6	-6.0%

Table 35.2: TSP samples in Dawson Creek TSA: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Leading species	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
B	73	1031	1105	7.2%
Decid	438	1023	810	-20.8%
L	6	924	930	0.6%
PL	318	1310	1274	-2.8%
S	523	980	958	-2.3%
<i>All samples</i>	1358	1074	992	-7.6%

Table 35.3: TSP samples in Dawson Creek TSA by leading species: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Leading species	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
B	73	204.8	207.9	208.3
Decid	438	193.6	195.6	174.9
L	6	19.7	22.3	31.2
PL	318	218.5	217.0	211.1
S	523	257.0	265.0	269.9
All samples	1358	223.7	227.2	221.1

Table 35.4: TSP samples in Dawson Creek TSA by leading species: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Leading species	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
B	73	3.1	1.5%	3.5	1.7%	0.4	0.2%
Decid	438	2.0	1.0%	-18.8	-9.7%	-20.7	-10.6%
L	6	2.6	13.0%	11.4	58.0%	8.9	39.8%
PL	318	-1.4	-0.7%	-7.3	-3.4%	-5.9	-2.7%
S	523	8.0	3.1%	12.9	5.0%	4.9	1.9%
All samples	1358	3.6	1.6%	-2.6	-1.1%	-6.1	-2.7%

### 35.2 Comparisons by Maturity Class

The following tables show trends by maturity class among the TSP samples in this TSA.

Table 35.5: TSP samples in Dawson Creek TSA by maturity class: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Maturity Class	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
<=60 yrs	180	94.8	97.5	104.2
61-120 yr	730	239.9	240.6	220.4
121 + yrs	448	249.0	257.6	269.3
All samples	1358	223.7	227.2	221.1

Table 35.6: TSP samples in Dawson Creek TSA by maturity class: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

Maturity Class	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA&TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA&TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
<=60 yrs	180	2.6	2.8%	9.3	9.8%	6.7	6.9%
61-120 yr	730	0.7	0.3%	-19.5	-8.1%	-20.2	-8.4%
121 + yrs	448	8.6	3.5%	20.3	8.2%	11.7	4.5%
All samples	1358	3.6	1.6%	-2.6	-1.1%	-6.1	-2.7%

### 35.3 Comparisons by BEC

The following tables show trends by biogeoclimatic zone among the TSP samples in this TSA.

Table 35.7: TSP samples in Dawson Creek TSA by BEC: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

BEC	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
BWBS	787	219.7	222.3	204.7
ESSF	425	229.1	233.5	236.7
SBS	146	229.4	236.0	264.5
All samples	1358	223.7	227.2	221.1

Table 35.8: TSP samples in Dawson Creek TSA by BEC: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

BEC	n	Mean volume/ha difference & % difference					
		Ground vs. VDYP7 VRISTART (BA & TPH from ground)		Ground vs. VDYP7 FIPSTART (no BA & TPH supplied)		VDYP7: VRISTART vs. FIPSTART	
		B - A	(B-A)/A *100%	C - A	(B-A)/A *100%	C - B	(C-B)/B *100%
BWBS	787	2.6	1.2%	-15.0	-6.8%	-17.6	-7.9%
ESSF	425	4.4	1.9%	7.6	3.3%	3.2	1.4%
SBS	146	6.6	2.9%	35.1	15.3%	28.5	12.1%
All samples	1358	3.6	1.6%	-2.6	-1.1%	-6.1	-2.7%

## 36 Miscellaneous Units (unassigned TSAs)

### 36.1 TSP Comparisons

The following tables show overall trends in among the TSP samples for which no TSA could be assigned<sup>1</sup> and TSAs in which there were fewer than 40 TSP samples. There were a total of 1918 TSPs with no TSA assigned, 35 TSPs in TSA 6, 34 in TSA 38, 16 in TSA 32 and 8 in TSA 34. Comparisons of basal area/ha, trees/ha and volume/ha are shown in the tables below.

Table 36.1: TSP samples in Miscellaneous Units: Comparison of basal area/ha (BA) from TSP ground sample with basal area/ha (BA) estimated in VDYP7's FIPSTART module.

Unit	n	Mean basal area/ha (BA)		% difference
		BA from ground "A"	BA from FIPSTART "B"	(B-A)/A*100%
34	8	61.0	71.7	17.6%
32	16	36.5	53.6	46.9%
38	34	74.1	72.6	-2.0%
06	35	35.0	41.4	18.4%
Unassigned	1918	67.3	64.9	-3.6%

Table 36.2: TSP samples in Miscellaneous Units: Comparison of trees/ha (TPH) from TSP ground sample with trees/ha (TPH) estimated in VDYP7's FIPSTART module.

Unit	n	Mean trees/ha (TPH)		% difference
		TPH from ground "A"	TPH from FIPSTART "B"	(B-A)/A*100%
34	8	935	835	-10.7%
32	16	470	766	63.1%
38	34	717	612	-14.6%
06	35	864	950	9.9%
Unassigned	1918	793	704	-11.2%

Table 36.3: TSP samples in Miscellaneous Units: Comparison of TSP ground sample compiled volume/ha ("A"), with VDYP7 volume/ha generated from VRISTART using TSP ground estimates of BA and TPH ("B"), and VDYP7 volume/ha based on BA and TPH generated by FIPSTART with no BA or TPH supplied ("C").

Unit	n	Mean ground volume/ha "A"	Mean VDYP7 volume/ha	
			VRISTART (BA & TPH from ground) "B"	FIPSTART (no BA & TPH supplied) "C"
34	8	445.9	461.7	543.7
32	16	280.0	318.6	475.5
38	34	672.5	701.7	700.5
06	35	269.7	267.7	311.6
Unassigned	1918	609.51	651.69	644.48

<sup>1</sup> Includes TSPs in TFLs, on federal land, private land, etc.

Table 2.4: TSP samples in Miscellaneous Units: Mean Volume differences and % differences among: "A" TSP mean ground sample compiled volume/ha; "B" VDYP7 mean volume/ha generated from TSP attributes; and "C" VDYP7 mean volume/ha from TSP attributes except for BA and TPH, which are generated in the FIPSTART module.

<i>Unit</i>	<i>n</i>	<i>Mean volume/ha difference &amp; % difference</i>					
		Ground vs. VDYP7 VRISTART <i>(BA&amp;TPH from ground)</i>		Ground vs. VDYP7 FIPSTART <i>(no BA&amp;TPH supplied)</i>		VDYP7: VRISTART vs. FIPSTART	
		<b><i>B - A</i></b>	<b><i>(B-A)/A *100%</i></b>	<b><i>C - A</i></b>	<b><i>(B-A)/A *100%</i></b>	<b><i>C - B</i></b>	<b><i>(C-B)/B *100%</i></b>
34	8	15.7	3.5%	97.7	21.9%	82.0	17.8%
32	16	38.6	13.8%	195.5	69.9%	156.9	49.2%
38	34	29.2	4.3%	28.0	4.2%	-1.2	-0.2%
06	35	-2.0	-0.8%	41.9	15.5%	44.0	16.4%
Unassigned	1918	42.2	6.9%	35.0	5.7%	-7.2	-1.1%