



Province of Alberta

FORESTS ACT

SCALING REGULATION

Alberta Regulation 195/2002

With amendments up to and including Alberta Regulation 99/2012

Office Consolidation

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(Consolidated up to 99/2012)

ALBERTA REGULATION 195/2002

Forests Act

SCALING REGULATION

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Schedules

Interpretation

1(1) In this Regulation,

- (a) "authorization holder" means a person that has been issued a scale site authorization under section 12;
- (b) "check scale" means a scale conducted by a forest officer or a person authorized by the Minister to check the accuracy of another scale;
- (b.1) "Department" means the Department administered by the Minister;
- (c) "form TM 32" means form TM 32 prescribed by the *Timber Regulation*;
- (d) "form TM 35" means form TM 35 prescribed by the *Timber Regulation*;

- (e) “form TM 44” means form TM 44 prescribed by the *Timber Regulation*;
- (f) “mass scaling” means scaling conducted using the scaling method set out in section 3(1)(b);
- (g) “payment period” means payment period as defined in the *Timber Management Regulation*;
- (h) “scale” means to measure or estimate the volume of felled timber;
- (i) “timber operation” means timber operation as defined in the *Timber Management Regulation*.

(2) This Regulation applies to scaling conducted to provide the Department with an accounting of harvested timber.

AR 195/2002 s1;41/2010

Scaling

2 A person who scales timber shall do so in accordance with the procedures established by the Minister.

Scaling methods

3(1) A person who scales timber shall determine the volume of the timber in cubic metres by using one of the following methods:

- (a) by measuring the dimensions of each piece of timber and applying
 - (i) the Alberta Cubic Metre Scale, or the formula used to derive the Alberta Cubic Metre Scale, set out in
 - (A) Schedule 1 if the timber is coniferous, or
 - (B) Schedule 2 if the timber is deciduous,
- or
- (ii) the following formula, where authorized or directed by the Minister:

$$V = \frac{(A_1 + A_2)}{2} \times L$$

where

“V” is the volume of the piece of timber;

“A₁” is the area of the small end of the timber in square metres;

“A₂” is the area of the large end of the timber in square metres;

“L” is the length of the timber in metres;

- (b) by weighing the timber and applying
 - (i) a mass to volume ratio derived from scaling sample loads of timber in accordance with section 4, or
 - (ii) a fixed mass to volume ratio approved by the Minister;
- (c) by applying any other method established by the Minister where authorized or directed by the Minister.

(2) A person who scales timber using the methods set out in subsection (1)(a) or (c) may make deductions from the gross scaled volume to account for defects contained in that timber, in accordance with the procedures established by the Minister.

Sample scaling

4(1) The authorization holder for a scale site at which timber is mass scaled shall ensure that loads of timber are selected for sample scaling in accordance with scaling sampling plans approved by the Minister and the scaling sampling procedures established by the Minister.

(2) If a load of timber is selected for sample scaling under subsection (1), the authorization holder

- (a) shall, within 30 days after the load of timber was selected, ensure that a person holding a valid scaler’s permit
 - (i) scales the timber using the scaling method set out in section 3(1)(a) or (c), and
 - (ii) records the information collected by that person in accordance with section 5(1)(a) or (c),

and

- (b) shall ensure that a form TM 35 and a form TM 44 are completed in accordance with section 5(1)(b).

Recording information

5(1) A person scaling timber using the method set out in

- (a) section 3(1)(a) shall record the information collected on form TM 32 in accordance with the procedures established by the Minister;
- (b) section 3(1)(b) shall record the information collected on form TM 35 and form TM 44, in accordance with the procedures established by the Minister;
- (c) section 3(1)(c) shall record the information collected in a manner and form satisfactory to the director.

(2) Notwithstanding subsection (1), information that must be recorded in a form under subsection (1) may be recorded in an electronic format approved by the Minister.

AR 195/2002 s5;41/2010

Submitting records to Minister

6(1) The authorization holder for a scale site shall ensure that the records referred to in section 5 are provided to the Minister within 21 days following

- (a) the end of each month within which timber was scaled at that site, or
- (b) the end of each payment period within which timber was scaled at that site if the timber dues for that timber will be calculated in accordance with Schedule 4 of the *Timber Management Regulation*.

(2) If a scale site receives an annual volume of more than 70 000 cubic metres of timber, as determined by the director, the authorization holder for that site shall ensure that the records provided to the director under subsection (1) are provided in an electronic format approved by the director.

AR 195/2002 s6;41/2010

Production of records

7 A person who scales timber shall produce the person's scaling records and notes to a forest officer on demand.

Check scaling

8(1) The authorization holder for a scale site at which timber is mass scaled shall ensure that the 4 most recently scaled sample loads of timber are retained at the site and made accessible for check scaling.

- (2) Notwithstanding subsection (1), a forest officer may permit an authorization holder to retain fewer than 4 sample loads at the scale site.
- (3) If directed to do so by a forest officer, the authorization holder for a scale site at which timber is not mass scaled shall ensure that scaled timber is retained as directed by the forest officer and made accessible for check scaling.

Permit and authorization required

- 9(1)** No person may scale timber using the method set out in section 3(1)(a) or (c) unless
- (a) that person holds a valid scaler's permit, and
 - (b) the timber is at a scale site for which a scale site authorization issued under section 12 is in effect.
- (2) No person may scale timber using the method referred to in section 3(1)(b) unless
- (a) the timber is at a scale site for which a scale site authorization issued under section 12 is in effect, and
 - (b) the weighing equipment at that site meets the standards established by the Minister.

Scaler's permit

- 10(1)** The Minister may establish classes of scaler's permits and may specify the scope of authority that may be exercised by the holder of each class of permit.
- (2) An application for a scaler's permit must be made in the form specified by the Minister and be accompanied by the required fee.
- (3) The director may issue a scaler's permit to an applicant who has
- (a) attained the age of 18 years,
 - (b) subject to subsection (4), completed an instruction course approved by the Minister,
 - (c) subject to subsection (4), completed an examination set by the Minister to a level satisfactory to the director, and
 - (d) met any other requirements established by the director.

(4) An applicant who satisfies the director that he or she holds a timber scaling certificate, or the equivalent, issued outside Alberta is not required to meet subsection (3)(b) and (c) if

- (a) he or she has completed a scale that is check scaled, and
- (b) the check scale confirms his or her proficiency in the scaling methods used in Alberta.

AR 195/2002 s10;41/2010;99/2012

Term of permit

11(1) A scaler's permit expires on the date specified on the permit.

(2) Notwithstanding subsection (1), the director may cancel or suspend a scaler's permit

- (a) if the holder of the permit contravenes the Act or the regulations under the Act, or
- (b) if, in the director's opinion, it is in the public interest to cancel or suspend the permit.

AR 195/2002 s11;41/2010

Scale site authorization

12(1) The owner of a timber operation may apply in writing to the director for authorization to scale timber at a site under the owner's control.

(2) If the director is satisfied that a complete and accurate scale can be performed at the site, the director may issue a scale site authorization to the applicant and may attach conditions to the authorization.

(3) The director may cancel or suspend a scale site authorization

- (a) if the authorization holder contravenes the Act or the regulations under the Act,
- (b) if the authorization holder has failed to comply with a condition attached to the authorization, or
- (c) if, in the director's opinion, it is in the public interest to cancel or suspend the authorization.

AR 195/2002 s12;41/2010

Repeal

13 The *Scaling Regulation* (AR 403/92) is repealed.

Expiry

14 For the purpose of ensuring that this Regulation is reviewed for ongoing relevancy and necessity, with the option that it may be repassed in its present or an amended form following a review, this Regulation expires on June 30, 2021.

AR 195/2002 s14;99/2012

Schedule 1
Alberta Cubic Metre Scale
(Coniferous)

m³ (1000x)

Top Diameter (cm) - Inside Bark

L e n g t h	Lgth	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
	0.6	3	5	7	10	13	16	19	23	28	33	38	43	49	56	62	70	77	85	94	103	112	122	132	143	154	165	177	190	203	216	230	244	259	275	290
0.8	5	7	10	13	17	21	26	31	37	44	51	58	66	75	84	94	104	115	126	138	151	164	178	193	208	224	240	257	275	293	312	332	353	374	396	
1.0	6	9	12	17	21	27	33	40	47	55	64	73	83	94	106	118	131	145	159	175	191	208	226	244	263	284	305	327	349	373	398	423	450	477	505	
1.2	7	11	15	20	26	33	40	48	57	67	77	89	101	114	128	143	159	175	193	212	232	252	274	297	320	345	371	398	426	456	486	517	550	584	619	
I n d i c a t o r	1.4	9	13	18	24	31	38	47	56	67	78	91	104	118	134	150	168	187	207	228	250	273	298	323	351	379	409	440	472	506	541	577	615	655	696	738
	1.6	11	15	21	28	36	44	54	65	77	90	104	120	136	154	173	194	215	238	263	288	315	344	374	406	439	474	510	548	587	629	672	716	763	811	862
	1.8	12	18	24	32	41	50	61	74	87	102	118	136	154	175	196	220	244	270	298	328	359	392	426	462	500	540	582	626	672	720	769	821	875	932	990
	2.0	14	20	27	36	46	57	69	83	98	114	132	152	173	196	220	246	274	303	335	368	403	440	479	520	564	609	657	707	759	813	870	930	992	1056	1124
	2.2	16	23	31	40	51	63	77	92	108	127	146	168	191	217	244	273	304	336	371	409	448	489	533	580	628	679	733	789	848	910	975	1042	1112	1186	1262
	2.4	18	26	34	44	56	69	84	101	119	139	161	185	210	238	268	300	334	370	409	450	494	540	589	640	695	752	812	875	941	1010	1082	1158	1237	1320	1406
M e t e r	2.6	21	28	38	49	62	76	92	110	130	152	176	201	230	260	292	327	365	405	447	493	541	592	646	702	763	826	892	962	1036	1113	1194	1278	1367	1459	1556
	2.8	23	31	42	53	67	83	100	120	141	165	190	219	249	282	317	355	396	440	486	536	589	644	704	766	832	902	975	1052	1134	1219	1308	1402	1501	1603	1711
	3.0	25	34	45	58	73	89	108	129	152	178	205	236	269	304	343	384	428	476	526	580	637	698	763	831	904	980	1060	1145	1234	1328	1427	1530	1639	1753	1872
	3.2	28	38	49	63	79	96	117	139	164	191	221	253	289	327	368	413	461	512	567	625	687	753	823	898	977	1060	1148	1241	1338	1441	1549	1663	1782	1907	2038
	3.4	31	41	53	68	85	104	125	149	175	204	236	271	309	350	394	442	494	549	608	671	738	809	885	966	1051	1142	1237	1338	1445	1557	1675	1799	1930	2067	2210
	3.6	33	44	58	73	91	111	133	159	187	218	252	289	329	373	421	472	527	586	650	717	790	867	949	1036	1128	1226	1330	1439	1555	1677	1805	1940	2082	2232	2389

Schedule 1 (Continued)

**Alberta Cubic Metre Scale
(Coniferous)**

m³ (1000x)

Top Diameter (cm) - Inside Bark

Lgth	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	
L	3.8	36	48	62	78	97	118	142	169	199	232	268	307	350	397	448	502	561	624	692	765	842	925	1013	1107	1207	1312	1424	1542	1667	1799	1939	2086	2240	2403	2573
e	4.0	40	52	66	84	103	126	151	179	211	246	284	326	371	421	475	533	596	663	735	813	896	985	1079	1180	1287	1400	1521	1648	1783	1926	2077	2235	2403	2579	2764
n	4.2	43	56	71	89	110	133	160	190	223	260	300	344	393	445	502	564	631	702	780	862	951	1046	1147	1254	1369	1491	1620	1757	1902	2056	2218	2390	2571	2761	2962
g	4.4	46	60	76	95	116	141	169	201	235	274	317	363	414	470	530	596	666	742	824	912	1007	1108	1215	1330	1453	1583	1722	1869	2025	2190	2364	2549	2744	2949	3166
t	4.6	50	64	81	101	123	149	179	211	248	289	333	382	436	495	558	628	702	783	870	963	1064	1171	1286	1408	1539	1678	1826	1984	2150	2327	2515	2713	2922	3143	3376
h	4.8	54	68	86	106	130	157	188	222	261	303	350	402	458	520	587	660	739	824	916	1015	1121	1235	1357	1488	1627	1775	1933	2101	2279	2469	2669	2882	3106	3343	3594
I	5.0	57	73	91	113	137	166	198	234	274	318	367	422	481	546	616	693	776	866	963	1068	1180	1301	1430	1569	1717	1875	2043	2222	2412	2614	2828	3055	3295	3550	3818
n	5.2	62	77	96	119	145	174	207	245	287	333	385	441	504	572	646	727	814	909	1011	1122	1241	1368	1505	1652	1809	1976	2155	2345	2548	2763	2991	3234	3490	3762	4049
	5.4	66	82	102	125	152	183	217	256	300	349	402	462	527	598	676	761	853	952	1060	1176	1302	1437	1581	1736	1903	2080	2270	2472	2687	2916	3159	3418	3691	3981	4288
	5.6	70	87	108	132	159	191	227	268	313	364	420	482	550	625	706	795	891	996	1110	1232	1364	1506	1659	1823	1999	2186	2387	2602	2830	3073	3332	3606	3898	4207	4534
	5.8	75	92	114	138	167	200	238	280	327	380	438	503	574	652	737	830	931	1041	1160	1289	1428	1577	1738	1911	2097	2295	2508	2735	2977	3234	3509	3801	4110	4439	4787
	6.0	80	98	120	145	175	209	248	292	341	396	457	524	598	679	768	865	971	1086	1211	1346	1492	1649	1819	2001	2197	2406	2631	2871	3127	3400	3691	4000	4329	4678	5048
M	6.2	85	103	126	152	183	218	259	304	355	412	475	545	622	707	800	901	1012	1132	1263	1405	1558	1723	1901	2093	2299	2520	2757	3010	3281	3569	3877	4205	4554	4924	5317
e	6.4	90	109	132	159	191	228	269	316	369	428	494	566	647	735	832	938	1053	1179	1316	1464	1625	1798	1985	2187	2404	2636	2886	3153	3438	3743	4069	4415	4784	5177	5593
t	6.6	95	115	139	167	200	237	280	329	384	445	513	588	672	763	864	975	1095	1227	1370	1525	1693	1875	2071	2282	2510	2755	3017	3299	3600	3922	4265	4631	5022	5437	5878
r	6.8	101	121	145	174	208	247	291	342	398	461	532	610	697	792	897	1012	1138	1275	1424	1586	1762	1952	2158	2380	2619	2876	3152	3448	3765	4104	4467	4853	5265	5704	6170
e	7.0	106	127	152	182	217	257	303	354	413	478	551	633	722	821	930	1050	1181	1324	1479	1649	1833	2032	2247	2480	2730	3000	3290	3601	3935	4292	4673	5081	5515	5978	6471
s	7.2	112	134	159	190	226	267	314	368	428	496	571	655	748	851	964	1088	1225	1373	1536	1712	1904	2112	2338	2581	2844	3126	3431	3757	4108	4483	4885	5314	5772	6260	6780

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Schedule 14

SCALING REGULATION

AR 195/2002

Schedule 2
Alberta Cubic Metre Scale
(Deciduous)

m³ (1000x)

Top Diameter (cm) - Inside Bark

L e n g t h	Lgth	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
	0.6	3	5	7	10	12	16	19	23	28	32	38	43	49	56	63	70	78	86	94	103	113	123	133	144	155	167	179	192	205	219	233	248	263	279	295
0.8	5	7	10	13	17	21	26	31	37	44	51	58	66	75	84	94	104	115	127	139	152	166	180	195	210	226	243	261	279	298	318	338	359	381	404	
1.0	6	9	12	16	21	27	33	39	47	55	64	73	83	94	106	118	132	146	161	176	193	210	228	247	267	288	310	332	356	381	406	433	460	489	519	
1.2	7	11	15	20	26	32	40	48	57	66	77	88	101	114	128	143	159	177	195	214	234	255	278	301	326	352	378	407	436	467	498	532	566	602	639	
1.4	9	13	18	24	30	38	46	56	66	78	90	104	118	134	151	169	188	208	230	252	276	302	329	357	386	417	450	484	519	556	595	635	677	720	766	
1.6	11	15	21	27	35	44	54	64	76	89	104	119	136	154	174	194	217	240	265	292	320	350	381	414	449	485	523	563	605	649	695	743	792	844	898	
1.8	12	18	24	31	40	50	61	73	86	101	118	135	154	175	197	221	246	273	302	332	364	399	435	473	513	555	599	646	695	746	799	855	913	974	1038	
2.0	14	20	27	35	45	56	68	82	97	113	131	151	173	196	221	247	276	306	339	373	410	449	490	533	579	627	678	731	788	846	908	972	1040	1110	1184	
M e t r e s	2.2	16	22	30	39	50	62	75	90	107	125	146	167	191	217	245	274	306	340	377	415	457	500	547	596	647	702	760	820	884	951	1021	1094	1171	1252	1336
	2.4	18	25	34	44	55	68	83	99	118	138	160	184	210	238	269	302	337	375	415	458	504	553	605	660	718	779	844	912	983	1059	1138	1221	1309	1400	1496
	2.6	20	28	37	48	60	74	90	108	128	150	174	201	229	260	294	330	369	410	455	502	553	607	665	725	790	858	930	1006	1087	1171	1260	1354	1452	1555	1663
	2.8	22	31	41	52	66	81	98	118	139	163	189	217	248	282	319	358	401	446	495	547	603	663	726	793	864	940	1020	1104	1194	1288	1387	1491	1601	1716	1837
	3.0	25	34	44	57	71	88	106	127	150	176	204	234	268	305	344	387	433	483	536	593	654	719	789	863	941	1024	1112	1206	1304	1408	1518	1634	1756	1885	2019
	3.2	27	37	48	61	77	94	114	136	161	188	219	252	288	327	370	416	466	520	578	640	707	778	853	934	1020	1111	1208	1310	1419	1534	1655	1783	1918	2060	2209
	3.4	30	40	52	66	82	101	122	146	172	202	234	269	308	350	396	446	500	558	621	688	760	837	919	1007	1101	1200	1306	1418	1537	1663	1796	1937	2085	2242	2407
	3.6	33	43	56	71	88	108	130	155	184	215	249	287	329	374	423	477	534	597	664	737	815	898	987	1082	1184	1292	1407	1530	1659	1797	1943	2097	2260	2432	2613
	3.8	36	47	60	76	94	115	139	165	195	228	265	305	349	398	450	507	569	636	709	787	870	960	1057	1160	1270	1387	1512	1645	1786	1936	2095	2263	2441	2629	2828

Schedule 2 (Continued)

**Alberta Cubic Metre Scale
(Deciduous)**

m³ (1000x)

Top Diameter (cm) - Inside Bark

Lgth	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	
L e n g t h	4.0	39	50	64	81	100	122	147	175	207	242	281	323	370	422	478	539	605	677	754	838	928	1024	1128	1239	1357	1484	1619	1763	1916	2079	2252	2435	2629	2834	3051
	4.2	42	54	69	86	106	129	156	185	218	255	296	342	391	446	506	570	641	717	800	890	986	1089	1201	1320	1448	1584	1730	1886	2051	2227	2414	2613	2824	3047	3283
	4.4	45	58	73	91	113	137	164	195	230	269	313	360	413	471	534	603	678	759	847	943	1045	1156	1275	1403	1540	1687	1844	2012	2190	2380	2583	2797	3026	3267	3523
	4.6	48	62	78	97	119	144	173	206	242	283	329	379	435	496	563	635	715	801	895	997	1106	1225	1352	1489	1636	1793	1961	2141	2334	2538	2756	2988	3235	3496	3773
	4.8	52	66	83	102	125	152	182	216	255	298	345	398	457	521	592	669	753	845	944	1052	1168	1294	1430	1576	1733	1902	2082	2275	2481	2702	2936	3186	3451	3734	4033
l i n e s	5.0	56	70	88	108	132	160	191	227	267	312	362	418	479	547	621	703	791	888	994	1108	1232	1366	1510	1666	1833	2013	2206	2413	2634	2870	3122	3390	3676	3979	4302
	5.2	60	75	93	114	139	168	200	238	280	327	379	437	502	573	651	737	831	933	1044	1165	1297	1439	1592	1758	1936	2128	2334	2555	2791	3043	3313	3601	3908	4234	4581
	5.4	64	79	98	120	146	176	210	248	292	341	396	457	525	599	681	772	870	978	1096	1224	1363	1513	1676	1852	2042	2246	2465	2700	2953	3222	3511	3819	4147	4497	4869
	5.6	68	84	103	126	153	184	219	259	305	356	414	477	548	626	712	807	911	1025	1149	1284	1430	1590	1762	1948	2150	2366	2600	2850	3119	3407	3715	4044	4395	4770	5168
	5.8	72	89	108	132	160	192	229	271	318	371	431	498	571	653	744	843	952	1071	1202	1344	1499	1667	1850	2047	2260	2490	2738	3004	3290	3597	3925	4276	4651	5051	5478
M e t e r e s	6.0	77	94	114	138	167	200	238	282	331	387	449	518	595	681	775	879	994	1119	1257	1406	1570	1747	1940	2148	2374	2618	2880	3163	3467	3793	4142	4516	4916	5342	5797
	6.2	82	99	120	145	174	209	248	293	344	402	467	539	619	709	807	916	1036	1168	1312	1469	1641	1828	2031	2252	2490	2748	3026	3326	3648	3994	4365	4763	5188	5643	6128
	6.4	87	104	126	152	182	217	258	305	358	418	485	560	644	737	840	954	1079	1217	1368	1534	1714	1911	2125	2357	2609	2881	3176	3493	3834	4201	4595	5018	5470	5953	6470
	6.6	92	110	132	158	190	226	268	317	372	434	503	581	669	765	873	992	1123	1267	1426	1599	1789	1996	2221	2466	2731	3018	3329	3664	4026	4414	4832	5280	5760	6273	6822
	6.8	97	115	138	165	198	235	279	329	385	449	522	603	694	794	907	1031	1168	1318	1484	1666	1865	2082	2319	2576	2856	3159	3487	3841	4222	4633	5075	5550	6059	6604	7186
S	7.0	103	121	144	172	205	244	289	341	399	466	541	625	719	824	940	1070	1213	1370	1544	1734	1943	2170	2419	2690	2984	3303	3648	4021	4424	4859	5326	5828	6367	6944	7562
	7.2	108	127	151	179	214	253	300	353	413	482	560	647	744	854	975	1110	1259	1423	1604	1803	2022	2260	2521	2805	3114	3450	3813	4207	4632	5090	5584	6115	6684	7295	7949



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