

Appendix 14.
Revised Wood Consumption Estimates for Second Runs

Table 14.1. Base scenario roundwood consumption estimates for northern region: Aspen group (1000's of cords per year).

Consumer	Period						90-99 Ave.	2000+ Ave.
	1990	1991	1992	1993- 94	1995- 96	1997- 99		
Northwood,Solway	220	220	245	245	245	245	240	245
Potlatch,Bemidji	170	200	300	300	300	275	270	275
Superwood, Bemidji	30	30	20	20	20	20	22	20
Sawlog & Spec., Bemidji	35	35	35	35	35	35	35	35
Fuelwood, Bemidji	5	5	5	5	5	5	5	5
----- subtotal Bemidji	460	490	605	605	605	580	572	580
Champion, Sartell	70	70	70	70	70	70	70	70
Hennipin, Little Falls	20	20	20	20	20	20	20	20
Mac. Bloedel, Crosby			65	100	120	120	87	120
Potlatch, Brainerd							0	
Sawlog & Spec.,Brainerd	35	35	35	35	35	35	35	35
Fuelwood, Brainerd	17	17	17	17	17	17	17	17
Export, Brainerd	27	27	27	27	27	27	27	27
----- subtotal Brainerd	169	169	234	269	289	289	256	289
Potlatch, Cook	175	175	175	175	175	165	172	165
Sawlogs, Cook	35	35	35	35	35	35	35	35
Fuelwood, Cook	3	3	3	3	3	3	3	3
----- subtotal Cook	213	213	213	213	213	203	210	203
Diamond, Cloquet	12	12	12	12	12	12	12	12
Lake Superior Paper								
Lou. Pacific, T.Harbers	100	100	100	100	100	100	100	100
Potlatch, Cloquet	265	265	265	265	265	265	265	265
Superwood, Duluth	75	75	70	70	70	70	71	70
Sawlogs & Spec., Duluth	35	35	35	35	35	35	35	35
Fuelwood, Duluth	3	3	3	3	3	3	3	3
Export, Duluth	20	20	20	20	20	20	20	20
----- subtotal Duluth	510	510	505	505	505	505	506	505
Blandin, Grand Rapids	85	100	110	150	150	150	135	150
Potlatch, Grand Rapids	265	265	265	265	265	245	259	245
Sawlog & Spec., G Rap.	35	35	35	35	35	35	35	35
Fuelwood, Gr. Rapids	4	4	4	4	4	4	4	4
----- subtotal Grand Rapids	389	404	414	454	454	434	433	434
Boise Cascade, I. Falls	150	275	355	380	395	395	352	395
Int. Biltrite, I. Falls	25	25	25	25	25	25	25	25
Sawlog & Spec. I. Falls	35	35	35	35	35	35	35	35
Fuelwood, Int. Falls	3	3	3	3	3	3	3	3
----- subtotal Int. Falls	213	338	418	443	458	458	415	458
Total	1,954	2,124	2,389	2,489	2,524	2,469	2,392	2,469

Table 14.2. Base scenario roundwood consumption estimates for northern region: Spruce-fir group (1000's of cords per year).

Consumer	Period						1990-99 Ave.	2000+ Ave.
	1990	1991	1992	1993-94	1995-96	1997-99		
Northwood, Solway								
Potlatch OSB, Bemidji								
Superwood, Bemidji								
Sawlogs, Bemidji	5	6	6	6	6	6	6	6
Fuelwood, Bemidji								
----- subtotal Bemidji	5	6	6	6	6	6	6	6
Champion, Sartell	65	65	65	65	65	65	65	65
Hennipin, Little Falls								
Mac. Bloedel, Crosby								
Potlatch, Brainerd								
Sawlogs, Brainerd	5	5	5	5	5	5	5	5
Fuelwood, Brainerd								
Export, Brainerd								
----- subtotal Brainerd	70	70	70	70	70	70	70	70
Potlatch, Cook								
Sawlogs, Cook	5	5	5	5	5	5	5	5
Fuelwood, Cook								
----- subtotal Cook	5	5	5	5	5	5	5	5
Diamond, Cloquet								
Lake Superior Paper	137	137	137	137	137	137	137	137
Lou. Pacific, T.Harbers								
Potlatch, Cloquet								
Superwood, Duluth								
Sawlogs, Duluth	5	5	5	5	5	5	5	5
Fuelwood, Duluth								
Export, Duluth	65	65	65	65	65	65	65	65
----- subtotal Duluth	207	207	207	207	207	207	207	207
Blandin, Grand Rapids	80	80	100	100	100	100	96	100
Potlatch, Grand Rapids								
Sawlogs, Grand Rapids	5	5	5	5	5	5	5	5
Fuelwood, Gr. Rapids								
----- subtotal Grand Rapids	85	85	105	105	105	105	101	105
Boise Cascade, I. Falls	20	15	15	10	10	10	12	10
Int. Biltrite, I. Falls								
Sawlogs, Int. Falls	5	5	5	5	5	5	5	5
Fuelwood, Int. Falls								
----- subtotal Int. Falls	25	20	20	15	15	15	17	15
Total	397	393	413	408	408	408	406	408

Table 14.3. Base scenario roundwood consumption estimates for northern region: Pine group (1000's of cords per year).

Consumer	Period						90-99 Ave.	2000+ Ave.
	1990	1991	1992	1993- 94	1995- 96	1997- 99		
Northwood, Solway								
Potlatch OSB, Bemidji				15	15	30	15	30
Potlatch Sawmill, Bemidji	6	80	80	80	80	80	73	80
Superwood, Bemidji								
Other R & W Saw, Bem.	23	23	23	23	23	23	23	23
Other Sawlogs, Bemidji	11	11	11	11	11	11	11	11
subtotal Bemidji	40	114	114	129	129	144	122	144
Champion, Sartell								
Hennipin, Little Falls								
Mac. Bloedel, Crosby					5	5	3	5
Potlatch, Brainerd								
R & W Sawlogs, Brainerd	23	23	23	23	23	23	23	23
Other Sawlogs, Brainerd	11	11	11	11	11	11	11	11
Export, Brainerd	15	15	15	15	15	15	15	15
subtotal Brainerd	49	49	49	49	54	54	52	54
Potlatch, Cook								
R & W Sawlogs, Cook	23	23	23	23	23	23	23	23
Other Sawlogs, Cook	11	11	11	11	11	11	11	11
subtotal Cook	34	34	34	34	34	34	34	34
Diamond, Cloquet								
Lake Superior Paper								
Lou. Pacific, T.Harbers								
Potlatch, Cloquet	45	45	45	45	45	45	45	45
Superwood, Duluth								
R & W Sawlogs, Duluth	23	23	23	23	23	23	23	23
Other Sawlogs, Duluth	11	11	11	11	11	11	11	11
Export, Duluth	20	20	20	20	20	20	20	20
subtotal Duluth	99	99	99	99	99	99	99	99
Blandin, Grand Rapids								
Potlatch, Grand Rapids						10	3	10
R & W Sawlogs G.Rapids	23	23	23	23	23	23	23	23
Other Sawlogs, G. Rapids	11	11	11	11	11	11	11	11
subtotal Grand Rapids	34	34	34	34	34	44	37	44
Boise Cascade, I. Falls	75	65	55	40	30	30	43	30
Int. Biltrite, I. Falls								
R & W Sawlogs, I. Falls	23	23	23	23	23	23	23	23
Other Sawlogs, I. Falls	11	11	11	11	11	11	11	11
subtotal Int. Falls	109	99	89	74	64	64	77	64
Total	365	429	419	419	414	439	421	439

Table 14.4. Base scenario roundwood consumption estimates for northern region: Northern hardwoods group (1000's of cords per year).

Consumer	Period						1990-99 Ave.	2000+ Ave.
	1990	1991	1992	1993-94	1995-96	1997-99		
Northwood, Solway							0	
Potlatch, Bemidji			10	10	10	10	8	10
Superwood, Bemidji			10	10	10	10	8	10
Sawlogs, Bemidji	22	22	22	22	22	22	22	22
Fuelwood, Bemidji	42	43	45	45	46	47	45	47
subtotal Bemidji	64	65	87	87	88	89	83	89
Champion, Sartell							0	
Hennipin, Little Falls							0	
Mac. Bloedel, Crosby					10	10	5	10
Potlatch, Brainerd							0	
Sawlogs, Brainerd	22	22	22	22	22	22	22	22
Fuelwood, Brainerd	155	159	163	163	164	165	163	166
Export, Brainerd							0	
subtotal Brainerd	177	181	185	185	196	197	190	198
Potlatch, Cook						10	3	10
Sawlogs, Cook	22	22	22	22	22	22	22	22
Fuelwood, Cook	24	24	25	25	26	27	26	27
subtotal Cook	46	46	47	47	48	59	51	59
Diamond, Cloquet	6	6	6	6	6	6	6	6
Lake Superior Paper							0	
Lou. Pacific, T.Harbers							0	
Potlatch, Cloquet							0	
Superwood, Duluth	20	20	25	25	25	25	24	25
Sawlogs, Duluth	22	22	22	22	22	22	22	22
Fuelwood, Duluth	24	24	25	25	26	27	26	27
Export, Duluth	15	15	15	15	15	15	15	15
subtotal Duluth	87	87	93	93	94	95	93	95
Blandin, Grand Rapids							0	
Potlatch, Grand Rapids						10	3	10
Sawlogs, Grand Rapids	22	22	22	22	22	22	22	22
Fuelwood, Gr. Rapids	33	34	35	35	36	37	36	37
subtotal Grand Rapids	55	56	57	57	58	69	61	69
Boise Cascade, I. Falls							0	
Int. Biltrite, I. Falls							0	
Sawlogs, Int. Falls	22	22	22	22	22	22	22	22
Fuelwood, Int. Falls	24	24	25	25	26	27	26	27
subtotal Int. Falls	46	46	47	47	48	49	48	49
Total	475	481	516	516	532	558	526	559

Table 14.5. Medium scenario roundwood consumption estimates for northern region: Aspen group (1000's of cords/year).

Consumer	Period						1990-99 Ave.	2000+ Ave.
	1990	1991	1992	1993-94	1995-96	1997-99		
Northwood,Solway	220	220	245	245	245	245	240	245
Potlatch,Bemidji	170	200	300	300	300	275	270	275
Superwood, Bemidji	30	30	20	20	20	20	22	20
Sawlog & Spec., Bemidji	35	35	35	35	35	35	35	35
Fuelwood, Bemidji	5	5	5	5	5	5	5	5
subtotal Bemidji	460	490	605	605	605	580	572	580
Champion, Sartell	70	70	70	70	70	70	70	100
Hennipin, Little Falls	20	20	20	20	20	20	20	20
Mac. Bloedel, Crosby			65	100	120	120	87	120
Potlatch, Brainerd								
Sawlog & Spec.,Brainerd	35	35	35	35	35	35	35	35
Fuelwood, Brainerd	17	17	17	17	17	17	17	17
Export, Brainerd	27	27	27	27	27	27	27	27
subtotal Brainerd	169	169	234	269	289	289	256	319
Potlatch, Cook	175	175	175	175	175	165	172	165
Sawlogs, Cook	35	35	35	35	35	35	35	35
Fuelwood, Cook	3	3	3	3	3	3	3	3
subtotal Cook	213	213	213	213	213	203	210	203
Diamond, Cloquet	12	12	12	12	12	12	12	12
Lake Superior Paper								
Lou. Pacific, T.Harbers	100	100	100	100	100	100	100	100
Potlatch, Cloquet	265	265	265	265	265	350	291	350
Superwood, Duluth	75	75	70	70	70	70	71	70
Sawlogs & Spec., Duluth	35	35	35	35	35	35	35	35
Fuelwood, Duluth	3	3	3	3	3	3	3	3
Export, Duluth	20	20	20	20	20	20	20	20
subtotal Duluth	510	510	505	505	505	590	532	590
Blandin, Grand Rapids	85	100	110	150	150	150	135	235
Potlatch, Grand Rapids	265	265	265	265	265	245	259	245
Sawlog & Spec., G Rap.	35	35	35	35	35	35	35	35
Fuelwood, Gr. Rapids	4	4	4	4	4	4	4	4
subtotal Grand Rapids	389	404	414	454	454	434	433	519
Boise Cascade, I. Falls	150	275	355	380	395	395	352	395
Int. Biltrite, I. Falls	25	25	25	25	25	25	25	25
Sawlog & Spec. I. Falls	35	35	35	35	35	35	35	35
Fuelwood, Int. Falls	3	3	3	3	3	3	3	3
subtotal Int. Falls	213	338	418	443	458	458	415	458
Total	1,954	2,124	2,389	2,489	2,524	2,554	2,418	2,669

Table 14.6. Medium scenario roundwood consumption estimates for northern region: Spruce-fir group (1000's of cords/year).

Consumer	Period						1990-99 Ave.	2000+ Ave.
	1990	1991	1992	1993-94	1995-96	1997-99		
Northwood, Solway								
Potlatch OSB, Bemidji								
Superwood, Bemidji								
Sawlogs, Bemidji	5	6	6	6	6	6	6	6
Fuelwood, Bemidji								
subtotal Bemidji	5	6	6	6	6	6	6	6
Champion, Sartell	65	65	65	65	65	65	65	95
Hennipin, Little Falls								
Mac. Bloedel, Crosby								
Potlatch, Brainerd								
Sawlogs, Brainerd	5	5	5	5	5	5	5	5
Fuelwood, Brainerd								
Export, Brainerd								
subtotal Brainerd	70	70	70	70	70	70	70	100
Potlatch, Cook								
Sawlogs, Cook	5	5	5	5	5	5	5	5
Fuelwood, Cook								
subtotal Cook	5	5	5	5	5	5	5	5
Diamond, Cloquet								
Lake Superior Paper	137	137	137	137	137	137	137	297
Lou. Pacific, T.Harbers								
Potlatch, Cloquet								
Superwood, Duluth								
Sawlogs, Duluth	5	5	5	5	5	5	5	5
Fuelwood, Duluth								
Export, Duluth	65	65	65	65	65	65	65	65
subtotal Duluth	207	207	207	207	207	207	207	367
Blandin, Grand Rapids	80	80	100	100	100	100	96	145
Potlatch, Grand Rapids								
Sawlogs, Grand Rapids	5	5	5	5	5	5	5	5
Fuelwood, Gr. Rapids								
subtotal Grand Rapids	85	85	105	105	105	105	101	150
Boise Cascade, I. Falls	20	15	15	10	10	10	12	10
Int. Biltrite, I. Falls								
Sawlogs, Int. Falls	5	5	5	5	5	5	5	5
Fuelwood, Int. Falls								
subtotal Int. Falls	25	20	20	15	15	15	17	15
Total	397	393	413	408	408	408	406	643

Table 14.7. Medium scenario roundwood consumption estimates for northern region: Pine group (1000's of cords/year).

Consumer	Period						1990-99 Ave.	2000+ Ave.
	1990	1991	1992	1993-94	1995-96	1997-99		
Northwood, Solway								
Potlatch OSB, Bemidji				15	15	30	15	30
Potlatch Sawmill, Bemidji	6	80	80	80	80	80	73	80
Superwood, Bemidji								
Other R & W Saw, Bem.	23	23	23	23	23	23	23	23
Other Sawlogs, Bemidji	11	11	11	11	11	11	11	11

subtotal Bemidji	40	114	114	129	129	144	122	144
Champion, Sartell								
Hennipin, Little Falls								
Mac. Bloedel, Crosby					5	5	3	5
Potlatch, Brainerd								
R & W Sawlogs, Brainerd	23	23	23	23	23	23	23	23
Other Sawlogs, Brainerd	11	11	11	11	11	11	11	11
Export, Brainerd	15	15	15	15	15	15	15	15

subtotal Brainerd	49	49	49	49	54	54	52	54
Potlatch, Cook								
R & W Sawlogs, Cook	23	23	23	23	23	23	23	23
Other Sawlogs, Cook	11	11	11	11	11	11	11	11

subtotal Cook	34	34	34	34	34	34	34	34
Diamond, Cloquet								
Lake Superior Paper								
Lou. Pacific, T.Harbers								
Potlatch, Cloquet	45	45	45	45	45	110	65	110
Superwood, Duluth								
R & W Sawlogs, Duluth	23	23	23	23	23	23	23	23
Other Sawlogs, Duluth	11	11	11	11	11	11	11	11
Export, Duluth	20	20	20	20	20	20	20	20

subtotal Duluth	99	99	99	99	99	164	119	164
Blandin, Grand Rapids								
Potlatch, Grand Rapids						10	3	10
R & W Sawlogs G.Rapids	23	23	23	23	23	23	23	23
Other Sawlogs, G. Rapids	11	11	11	11	11	11	11	11

subtotal Grand Rapids	34	34	34	34	34	44	37	44
Boise Cascade, I. Falls	75	65	55	40	30	30	43	30
Int. Bilrite, I. Falls								
R & W Sawlogs, I. Falls	23	23	23	23	23	23	23	23
Other Sawlogs, I. Falls	11	11	11	11	11	11	11	11

subtotal Int. Falls	109	99	89	74	64	64	77	64
Total	365	429	419	419	414	504	441	504

Table 14.8. Medium scenario roundwood consumption estimates for northern region: Northern hardwoods group (1000's of cords/year).

Consumer	Period						1990-99 Ave.	2000+ Ave.
	1990	1991	1992	1993-94	1995-96	1997-99		
Northwood, Solway							0	
Potlatch, Bemidji			10	10	10	10	8	10
Superwood, Bemidji			10	10	10	10	8	10
Sawlogs, Bemidji	22	22	22	22	22	22	22	22
Fuelwood, Bemidji	42	43	45	45	46	47	45	47
-----	-----	-----	-----	-----	-----	-----	-----	-----
subtotal Bemidji	64	65	87	87	88	89	83	89
Champion, Sartell							0	
Hennipin, Little Falls							0	
Mac. Bloedel, Crosby					10	10	5	10
Potlatch, Brainerd							0	
Sawlogs, Brainerd	22	22	22	22	22	22	22	22
Fuelwood, Brainerd	155	159	163	163	164	165	163	166
Export, Brainerd							0	
-----	-----	-----	-----	-----	-----	-----	-----	-----
subtotal Brainerd	177	181	185	185	196	197	190	198
Potlatch, Cook						10	3	10
Sawlogs, Cook	22	22	22	22	22	22	22	22
Fuelwood, Cook	24	24	25	25	26	27	26	27
-----	-----	-----	-----	-----	-----	-----	-----	-----
subtotal Cook	46	46	47	47	48	59	51	59
Diamond, Cloquet	6	6	6	6	6	6	6	6
Lake Superior Paper							0	
Lou. Pacific, T.Harbers							0	
Potlatch, Cloquet						260	78	260
Superwood, Duluth	20	20	25	25	25	25	24	25
Sawlogs, Duluth	22	22	22	22	22	22	22	22
Fuelwood, Duluth	24	24	25	25	26	27	26	27
Export, Duluth	15	15	15	15	15	15	15	15
-----	-----	-----	-----	-----	-----	-----	-----	-----
subtotal Duluth	87	87	93	93	94	355	171	355
Blandin, Grand Rapids							0	
Potlatch, Grand Rapids						10	3	10
Sawlogs, Grand Rapids	22	22	22	22	22	22	22	22
Fuelwood, Gr. Rapids	33	34	35	35	36	37	36	37
-----	-----	-----	-----	-----	-----	-----	-----	-----
subtotal Grand Rapids	55	56	57	57	58	69	61	69
Boise Cascade, I. Falls							0	
Int. Biltrite, I. Falls							0	
Sawlogs, Int. Falls	22	22	22	22	22	22	22	22
Fuelwood, Int. Falls	24	24	25	25	26	27	26	27
-----	-----	-----	-----	-----	-----	-----	-----	-----
subtotal Int. Falls	46	46	47	47	48	49	48	49
-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	475	481	516	516	532	818	604	819

Table 14.9. Scheduled harvest of aspen by market over time in the northern region for various constant timber price levels (thousands of cords per year).

Market	Delivered Price (\$/cd) ^a	Period	Average
			for all years

	1990-99	2000-09	2010-19	2020-29	2030-39	2040-49		
Bemidji	25	84	132	153	148	144	124	131
	30	645	380	269	272	155	405	354
	35	1188	349	237	330	131	1237	579
	40	1391	252	267	308	378	1383	663
	50	1490	259	283	313	543	1281	695
	60	1510	245	279	307	646	1156	691
	65	1510	245	278	307	966	716	670
	70	1513	241	278	307	1203	369	652
	75	1513	241	278	307	1232	334	651
	100	1517	235	278	307	1280	264	647
Brainerd	25	39	131	70	103	77	74	82
	30	332	195	178	195	115	306	220
	35	621	187	167	186	53	812	338
	40	716	159	178	143	141	969	384
	50	756	143	172	131	268	897	395
	60	760	140	168	131	330	810	390
	65	760	141	166	131	658	324	363
	70	760	141	166	131	723	228	358
	75	760	141	166	131	743	197	356
	100	765	136	163	131	756	182	356
Cook	25	60	118	87	79	62	105	85
	30	474	204	106	193	149	380	251
	35	761	127	185	208	72	1054	401
	40	816	117	197	180	270	886	411
	50	831	117	188	168	307	883	416
	60	833	117	189	164	332	850	414
	65	836	117	187	163	695	324	387
	70	838	118	187	164	779	206	382
	75	838	118	187	164	779	206	382
	100	841	117	186	163	783	206	383
Duluth	25	12	47	52	110	112	77	68
	30	244	253	200	204	164	234	217
	35	556	264	182	233	108	886	372
	40	740	250	205	200	237	1114	458
	50	887	205	189	222	325	1348	529
	60	891	210	178	222	529	1093	521
	65	893	210	177	222	828	649	497
	70	895	207	178	220	966	445	485
	75	895	209	175	221	1037	342	480
	100	895	211	172	221	1061	317	480
Grand Rapids	25	68	182	112	114	145	181	134
	30	564	277	190	316	206	341	316
	35	790	217	235	255	98	982	430
	40	835	208	211	234	443	677	435
	50	874	174	198	235	499	668	441
	60	878	174	193	235	580	557	436
	65	879	173	194	233	827	214	420
	70	879	173	194	233	831	210	420
	75	879	174	194	233	831	211	420
	100	880	173	191	233	832	211	420

^a Prices are assumed to be equal for all species and markets over time with wood delivered to the closest market

Table 14.9. Scheduled harvest of aspen by market over time in the northern region for various constant timber price levels (thousands of cords per year) (continued).

Market	Delivered Price (\$/cd) ^a	Period						Average for all years
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49	
I. Falls	25	10	29	40	41	41	47	35
	30	156	67	88	93	117	137	110
	35	262	106	157	157	75	342	183
	40	356	126	176	156	133	395	224
	50	409	129	159	131	171	447	241
	60	416	127	154	127	188	427	240
	65	420	124	152	127	309	264	233
	70	421	122	152	127	356	208	231
	75	423	120	152	126	404	147	229
	100	426	120	145	128	417	145	230
Total, all markets	25	273	639	514	595	581	608	535
	30	2,415	1,376	1,031	1,273	906	1,803	1,468
	35	4,178	1,250	1,163	1,369	537	5,313	2,303
	40	4,854	1,112	1,234	1,221	1,602	5,424	2,575
	50	5,247	1,027	1,189	1,200	2,113	5,524	2,717
	60	5,288	1,013	1,161	1,186	2,605	4,893	2,692
	65	5,298	1,010	1,154	1,183	4,283	2,491	2,570
	70	5,306	1,002	1,155	1,182	4,858	1,666	2,528
	75	5,308	1,003	1,152	1,182	5,026	1,437	2,518
	100	5,324	992	1,135	1,183	5,129	1,325	2,516

^a Prices are assumed to be equal for all species and markets over time with wood delivered to the closest market

Table 14.10. Scheduled harvest of spruce-fir by market over time in the northern region for various constant timber price levels (thousands of cords per year).

Market	Delivered Price (\$/cd) ^a	Period						Average for all Years
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49	
Brainerd	25	0	3	4	5	3	2	3
	30	23	19	19	19	33	38	25
	35	74	37	29	30	9	139	53
	40	104	27	21	29	23	162	61
	50	108	27	21	23	38	152	62
	75	110	28	17	23	118	71	61
	100	112	24	17	22	120	70	61
Duluth	25	4	10	25	46	87	32	34
	30	128	100	107	88	108	95	104
	35	337	156	116	115	135	223	180
	40	504	164	169	135	155	253	230
	50	653	131	154	135	150	304	255
	75	674	137	143	140	244	220	260
	100	684	138	137	141	247	221	261
Grand Rapids	25	18	46	52	44	75	104	57
	30	274	191	160	221	196	205	208
	35	674	226	225	269	142	380	319
	40	877	238	220	242	209	365	359
	50	991	249	215	262	227	363	385
	75	1028	258	207	263	362	249	395
	100	1038	257	207	263	370	252	398
Total, all markets	25	22	59	81	95	165	138	94
	30	425	310	286	328	337	338	337
	35	1,085	419	370	414	286	742	552
	40	1,485	429	410	406	387	780	650
	50	1,752	407	390	420	415	819	702
	75	1,812	423	367	426	724	540	716
	100	1,834	419	361	426	737	543	720

^a Prices are assumed to be equal for all species and markets over time with wood delivered to the closest market

Table 14.11. Scheduled harvest of pine by market over time in the northern region for various constant timber price levels (thousands of cords per year).

Market	Delivered Price (\$/cd) ^a	Period						Average for all Years
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49	
Bemidji	25	33	111	117	129	205	198	132
	30	273	255	200	295	437	321	297
	35	614	318	251	286	368	415	375
	40	765	313	217	290	392	459	406
	50	820	283	201	329	370	455	410
	75	837	283	202	308	517	300	408
Duluth	100	840	282	200	306	526	291	408
	25	2	7	21	54	77	61	37
	30	76	51	64	143	117	196	108
	35	195	133	141	225	152	353	200
	40	307	148	172	219	152	404	234
	50	376	136	165	213	134	478	250
I Falls	75	384	142	158	199	295	307	248
	100	386	151	142	199	298	306	247
	25	1	8	18	12	9	52	17
	30	62	71	68	80	90	175	91
	35	217	116	59	107	110	214	137
	40	299	101	69	93	121	258	157
Total, all markets	50	345	90	56	99	125	272	165
	75	354	87	57	96	202	189	164
	100	357	85	57	96	203	195	166
	25	36	126	156	195	291	311	186
	30	411	377	332	518	644	692	496
	35	1,026	567	451	618	630	982	712
Total, all markets	40	1,371	562	458	602	665	1,121	797
	50	1,541	509	422	641	629	1,205	825
	75	1,575	512	417	603	1,014	796	820
	100	1,583	518	399	601	1,027	792	821

^a Prices are assumed to be equal for all species and markets over time with wood delivered to the closest market

Table 14.12. Scheduled harvest of northern hardwoods by market in the northern region over time for various constant timber price levels (thousands of cords per year).

Market	Delivered Price (\$/cd) ^a	Period						Average for all Years
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49	
Bemidji	25	65	101	112	128	97	127	105
	30	429	322	239	196	96	176	243
	35	845	338	173	171	86	311	321
	40	988	299	149	173	96	311	336
	50	1062	271	140	152	124	308	343
	75	1082	260	144	145	275	165	345
	100	1086	257	144	146	283	156	345
Brainerd	25	68	122	110	155	182	192	138
	30	503	359	413	286	231	340	355
	35	1041	416	323	236	173	369	426
	40	1327	373	283	175	151	336	441
	50	1439	303	263	158	153	345	444
	75	1474	281	243	157	256	234	441
	100	1476	279	241	158	260	232	441
Cook	25	14	24	27	19	10	21	19
	30	167	93	58	60	47	94	87
	35	306	87	49	50	38	222	125
	40	360	63	44	44	71	217	133
	50	375	57	43	41	79	227	137
	75	383	59	44	37	180	123	138
	100	386	57	44	37	181	128	139
Duluth	25	12	38	37	77	116	79	60
	30	235	233	206	164	150	144	189
	35	562	260	190	196	122	284	269
	40	740	252	203	167	130	359	309
	50	848	227	189	175	145	434	336
	75	873	226	182	175	296	284	339
	100	878	225	182	176	301	283	341
Grand Rapids	25	39	150	113	106	100	131	107
	30	459	291	228	188	128	129	237
	35	673	267	201	119	73	241	262
	40	716	242	188	122	134	202	267
	50	742	234	177	119	144	207	271
	75	754	233	173	121	210	133	271
	100	757	229	173	121	209	133	270
I. Falls	25	0	9	4	17	4	17	9
	30	36	25	32	18	27	39	30
	35	86	26	34	31	24	75	46
	40	103	40	36	32	40	95	58
	50	130	35	28	28	46	114	64
	75	137	40	27	27	94	69	66
	100	142	39	27	28	97	70	67
Total, all markets	25	198	444	403	502	509	567	438
	30	1,829	1,323	1,176	912	679	922	1,141
	35	3,513	1,394	970	803	516	1,502	1,449
	40	4,234	1,269	903	713	622	1,520	1,544
	50	4,596	1,127	840	673	691	1,635	1,595
	75	4,703	1,099	813	662	1,311	1,008	1,600
	100	4,725	1,086	811	666	1,331	1,002	1,603

^a Prices are assumed to be equal for all species and markets over time with wood delivered to the closest market

Table 14.13. Roundwood harvest over time in the southern region for various constant timber price levels (thousands of cords per year)

Product	Price Level (\$/cd) ^a	Period						Average All Years
		1990-99	2000-09	2010-19	2020-20	2030-39	2040-49	
Other wood	15	0	0	0	0	0	0	0
	20	67	58	140	322	444	499	255
	25	366	342	419	430	284	422	377
	30	503	366	424	380	242	426	390
	35	554	379	441	356	362	331	404
	40	572	386	439	375	356	317	408
	50	589	386	438	383	336	321	409
	75	601	402	417	414	353	349	423
100	609	397	419	411	340	356	422	
Oak Sawlogs	15	0	0	0	0	0	0	0
	20	5	15	46	70	100	51	48
	25	74	65	98	49	37	16	57
	30	92	69	94	48	28	12	57
	35	97	68	93	48	29	10	58
	40	99	70	85	54	28	9	58
	50	102	68	83	57	24	12	58
	75	105	66	78	65	24	11	58
100	105	68	73	69	24	11	58	
All Products	15	0	0	0	0	0	0	0
	20	72	73	186	392	544	550	303
	25	440	407	517	479	321	438	434
	30	595	435	518	428	270	438	447
	35	651	447	534	404	391	341	462
	40	671	456	524	429	384	326	466
	50	691	454	521	440	360	333	467
	75	706	468	495	479	377	360	481
100	714	465	492	480	364	367	480	

^a Prices are assumed to be equal for all species and markets over time with wood delivered to the closest market

Table 14.14. Scheduled harvest of aspen for the northern region under the base scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	Aspen pulp	317.7	304.3	293.6	318.7	322.0	330.8
	Aspen saw	249.4	222.1	147.6	112.2	120.9	107.4
	Total	567.2	526.4	441.3	430.9	442.8	438.1
	Target	572	522	435	435	435	435
Brainerd	Aspen pulp	125.9	135.7	131.3	143.9	151.2	143.9
	Aspen saw	129.1	126.7	87.0	74.7	67.6	67.4
	Total	255.0	262.4	218.4	218.6	218.8	211.3
	Target	256	260.1	216.75	216.75	216.75	216.75
Cook	Aspen pulp	118.4	87.4	114.1	128.9	103.3	115.5
	Aspen saw	108.1	79.3	40.0	35.6	43.7	41.6
	Total	226.6	166.7	154.1	164.5	147.0	157.1
	Target	210	182.7	152.25	152.25	152.25	152.25
Duluth	Aspen pulp	272.0	266.9	243.6	262.5	261.3	281.6
	Aspen saw	233.2	181.6	139.1	122.3	116.8	97.7
	Total	505.2	448.5	382.7	384.8	378.1	379.2
	Target	506	454.5	378.75	378.75	378.75	378.75
Grand Rapids	Aspen pulp	208.5	205.7	230.8	257.2	241.2	244.5
	Aspen saw	222.1	184.5	96.2	62.6	91.8	82.9
	Total	430.7	390.2	327.0	319.8	333.0	327.4
	Target	433	390.6	325.5	325.5	325.5	325.5
I. Falls	Aspen pulp	255.2	281.2	263.4	267.9	255.6	259.1
	Aspen saw	141.9	162.3	77.8	67.9	91.4	84.4
	Total	397.1	443.4	341.2	335.8	347.0	343.5
	Target	415	412.2	343.5	343.5	343.5	343.5
All Markets	Aspen pulp	1,297.7	1,281.2	1,276.8	1,379.1	1,334.60	1,375.4
	Aspen saw	1,083.8	956.5	587.7	475.3	532.20	481.4
	Total	2,381.8	2,237.6	1,864.7	1,854.4	1,866.70	1,856.6
	Target	2,392	2,222.1	1,851.75	1,851.75	1,851.75	1,851.75

Table 14.15. Scheduled harvest of spruce-fir for the northern region under the base scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Brainerd	S-fir pulp	40.3	31.5	28.3	22.5	26.3	19.4
	S-fir saw	28.9	39.1	42.8	41.9	46.9	48.4
	Total	69.2	70.6	71.1	64.4	73.2	67.8
	Target	70	70	70	70	70	70
Duluth	S-fir pulp	126.8	110.9	96.5	88.2	91.1	79.4
	S-fir saw	94.1	106.3	122.9	131.3	127.2	141.0
	Total	220.9	217.2	219.3	219.5	218.4	220.3
	Target	220.5	219.5	219.5	219.5	219.5	219.5
Grand Rapids	S-fir pulp	73.1	61.9	51.3	46.2	42.1	45.7
	S-fir saw	42.1	58.9	63.9	71.2	78.4	75.0
	Total	115.2	120.7	115.2	117.4	120.5	120.7
	Target	115.5	118.5	118.5	118.5	118.5	118.5
All Markets	S-fir pulp	240.2	204.3	176.1	156.9	159.5	144.5
	S-fir saw	165.1	204.3	229.6	244.4	252.5	264.4
	Total	405.3	408.5	405.6	401.3	412.1	408.8
	Target	406	408	408	408	408	408

Table 14.16. Scheduled harvest of pine for the northern region under the base scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	Pine pulp	28.9	39.8	35.6	30.3	38.0	46.1
	R&W saw	118.2	99.8	111.3	122.4	124.6	106.4
	Other saw	13.4	49.0	39.4	31.1	27.4	38.6
	Total	160.5	188.6	186.3	183.8	189.9	191.1
	Target	159	188	188	188	188	188
Duluth	Pine pulp	27.3	31.1	26.8	26.3	43.2	46.9
	R&W saw	111.7	98.9	107.2	123.3	68.9	57.6
	Other saw	11.8	23.2	16.5	9.0	40.5	48.0
	Total	150.8	153.2	150.5	158.7	152.6	152.4
	Target	151	153	153	153	153	153
I. Falls	Pine pulp	20.9	22.1	17.4	17.4	26.9	26.5
	R&W saw	73.2	60.0	65.4	65.8	49.5	48.9
	Other saw	9.4	17.3	15.6	12.2	23.2	23.3
	Total	103.5	99.3	98.5	95.4	99.6	98.7
	Target	111	98	98	98	98	98
All Markets	Pine pulp	77.1	93	79.8	74	108.1	119.5
	R&W saw	303.1	258.7	283.9	311.5	243	212.9
	Other saw	34.6	89.5	71.5	52.3	91.1	109.9
	Total	414.8	441.1	435.3	437.9	442.1	442.2
	Target	421	439	439	439	439	439

Table 14.17. Scheduled harvest of northern hardwoods for the northern region under the base scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	pulp	65.8	95.6	150.0	139.6	135.9	140.2
	R Oak saw	5.8	12.8	22.0	26.4	16.9	15.4
	Other saw	14.2	31.4	65.0	70.2	75.1	88.9
	Total	85.9	139.7	236.9	236.2	227.9	244.5
	Target	83	147	234	234	234	234
Brainerd	pulp	132.9	137.8	143.8	137.2	137.2	131.9
	R Oak saw	36.1	47.8	75.6	67.9	53.6	30.5
	Other saw	21.7	39.9	53.7	59.9	82.8	102.2
	Total	190.7	225.4	273.1	265.0	273.6	264.5
	Target	190	226.9	270.25	270.25	270.25	270.25
Cook	pulp	42.0	56.2	79.2	76.0	79.1	72.3
	R Oak saw	0.2	0.0	1.1	0.7	0.0	2.0
	Other saw	7.2	15.5	23.3	33.3	30.5	36.6
	Total	49.4	71.8	103.7	110.0	109.5	110.9
	Target	51	79.3	109.75	109.75	109.75	109.75
Duluth	pulp	74.0	102.2	147.9	131.1	124.1	117.0
	R Oak saw	1.8	6.1	19.0	22.8	20.5	9.4
	Other saw	17.1	38.3	53.3	67.3	75.7	87.3
	Total	93.0	146.5	220.2	221.2	220.3	213.7
	Target	93	145.5	221.25	221.25	221.25	221.25
Grand Rapids	pulp	50.7	81.4	112.7	107.8	106.8	105.3
	R Oak saw	1.8	7.5	17.8	15.1	11.3	1.8
	Other saw	8.5	23.4	47.4	56.9	59.1	72.2
	Total	61.0	112.3	177.9	179.8	177.2	179.2
	Target	61	112.4	177.5	177.5	177.5	177.5
I. Falls	pulp	41.1	78.9	112.8	106.3	112.4	110.0
	R Oak saw	0.0	0.1	1.2	0.4	0.6	0.4
	Other saw	9.7	26.8	51.1	56.1	49.9	51.7
	Total	50.8	105.7	165.0	162.8	162.9	162.1
	Target	48	94.8	163.5	163.5	163.5	163.5
All Markets	pulp	406.5	552.1	746.4	698	695.5	676.7
	R Oak saw	45.7	74.3	136.7	133.3	102.9	59.5
	Other saw	78.4	175.3	293.8	343.7	373.1	438.9
	Total	530.8	801.4	1,176.8	1,175.	1,171.4	1,174.9
	Target	526	805.9	1,176.25	1,176.25	1,176.25	1,176.25

Table 14.18. Scheduled harvest of aspen for the northern region under the medium scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	Aspen pulp	320.7	304.0	290.8	328.2	312.1	324.6
	Aspen saw	251.4	230.7	139.5	96.0	110.6	105.6
	Total	572.2	534.7	430.3	424.2	422.7	430.2
	Target	572	522	435	435	435	435
Brainerd	Aspen pulp	120.6	142.8	151.4	142.4	158.6	167.6
	Aspen saw	132.4	136.7	88.0	82.3	77.0	69.1
	Total	253.0	279.6	239.4	224.7	235.6	236.6
	Target	256	287.1	239.25	239.25	239.25	239.25
Cook	Aspen pulp	94.5	93.1	105.2	120.5	105.2	108.9
	Aspen saw	92.6	88.3	45.7	27.5	44.3	37.3
	Total	187.1	181.4	150.9	148.0	149.5	146.2
	Target	210	182.7	152.25	152.25	152.25	152.25
Duluth	Aspen pulp	278.1	303.2	278.8	301.1	310.7	325.1
	Aspen saw	248.8	228.3	157.0	125.2	125.0	113.8
	Total	526.9	531.5	435.8	426.3	435.7	438.9
	Target	532	531	442.5	442.5	442.5	442.5
Grand Rapids	Aspen pulp	208.3	232.5	265.7	320.2	273.5	296.2
	Aspen saw	227.4	222.0	128.4	63.6	95.9	100.5
	Total	435.7	454.5	394.1	383.8	369.5	396.6
	Target	433	467.1	389.25	389.25	389.25	389.25
I. Falls	Aspen pulp	271.8	258.3	258.1	271.7	241.4	260.8
	Aspen saw	164.4	140.1	80.4	68.9	87.1	82.2
	Total	436.2	398.4	338.5	340.6	328.5	343.0
	Target	415	412.2	343.5	343.5	343.5	343.5
All Markets	Aspen pulp	1,294	1,333.9	1,350.	1,484.1	1,401.5	1,483.2
	Aspen saw	1,117	1,046.1	639.	463.5	539.9	508.5
	Total	2,411.1	2,380.1	1,989.	1,947.6	1,941.5	1,991.5
	Target	2,418	2,402.1	2,001.75	2,001.75	2,001.75	2,001.75

Table 14.19. Scheduled harvest of spruce-fir for the northern region under the medium scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Brainerd	S-fir pulp	41.1	44.5	40.6	41.9	42.6	35.1
	S-fir saw	28.4	55.9	58.6	57.6	54.0	64.9
	Total	69.4	100.3	99.2	99.5	96.6	100.0
	Target	70	100	100	100	100	100
Duluth	S-fir pulp	129.0	205.7	189.8	182.2	166.8	142.6
	S-fir saw	91.7	171.8	188.2	194.7	198.9	219.2
	Total	220.6	377.5	378.1	376.9	365.6	361.7
	Target	220.5	379.5	379.5	379.5	379.5	379.5
Grand Rapids	S-fir pulp	74.5	94.7	80.3	73.6	83.8	76.8
	S-fir saw	41.4	67.2	82.4	90.5	72.9	80.3
	Total	115.9	161.9	162.7	164.1	156.7	157.1
	Target	115.5	163.5	163.5	163.5	163.5	163.5
All Markets	S-fir pulp	244.6	344.9	310.7	297.7	293.2	254.5
	S-fir saw	161.5	294.9	329.2	342.8	325.8	364.4
	Total	405.9	639.7	640	640.5	618.9	618.8
	Target	406	643	643	643	643	643

Table 14.20. Scheduled harvest of pine for the northern region under the medium scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	Pine pulp	30.6	44.2	38.7	33.5	40.5	50.9
	R&W saw	100.5	85.4	88.8	120.8	119.6	81.7
	Other saw	21.1	58.9	56.3	35.5	29.3	53.2
	Total	152.2	188.5	183.7	189.7	189.4	185.8
	Target	159	188	188	188	188	188
Duluth	Pine pulp	32.0	49.7	47.1	43.3	71.2	74.6
	R&W saw	119.1	123.6	125.2	146.3	84.0	64.1
	Other saw	14.4	45.4	43.7	25.4	68.8	80.7
	Total	165.5	218.7	216.0	215.0	224.0	219.5
	Target	171	218	218	218	218	218
I. Falls	Pine pulp	26.4	22.9	24.0	24.3	29.6	33.4
	R&W saw	87.1	46.6	41.8	57.7	39.4	30.0
	Other saw	13.2	21.5	33.7	14.2	24.8	34.6
	Total	126.8	91.0	99.4	96.3	93.8	98.1
	Target	111	98	98	98	98	98
All Markets	Pine pulp	62.6	93.9	85.8	76.8	111.7	125.5
	R&W saw	219.6	209.	214.	267.1	203.6	145.8
	Other saw	35.5	104.3	100.	60.9	98.1	133.9
	Total	317.7	407.2	399.7	404.7	413.4	405.3
	Target	330	406	406	406	406	406

Table 14.21. Scheduled harvest of northern hardwoods for the northern region under the medium scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	pulp	66.6	102.2	147.7	142.5	141.4	124.6
	R Oak saw	5.3	12.7	20.5	23.4	14.2	15.0
	Other saw	15.3	34.0	64.0	73.4	73.6	88.9
	Total	87.2	148.9	232.2	239.3	229.2	228.6
	Target	83	147	234	234	234	234
Brainerd	pulp	141.8	134.8	146.4	146.0	144.9	146.9
	R Oak saw	29.8	45.5	82.6	60.7	55.7	22.9
	Other saw	25.1	44.3	50.0	69.9	88.5	111.3
	Total	196.7	224.6	279.0	276.5	289.0	281.1
	Target	190	229.9	277.75	277.75	277.75	277.75
Cook	pulp	43.2	61.2	82.6	82.7	79.8	77.2
	R Oak saw	0.0	0.3	0.6	0.0	1.4	0.2
	Other saw	9.4	18.8	27.3	32.0	28.5	31.8
	Total	52.6	80.2	110.5	114.7	109.7	109.3
	Target	51	79.3	109.75	109.75	109.75	109.75
Duluth	pulp	137.3	293.0	310.6	297.8	295.0	266.4
	R Oak saw	4.0	19.2	50.3	36.9	22.1	16.6
	Other saw	35.9	104.2	138.2	175.5	188.0	219.7
	Total	177.2	416.4	499.1	510.2	505.1	502.7
	Target	171	414	502.5	502.5	502.5	502.5
Grand Rapids	pulp	54.7	92.0	128.9	121.6	120.4	128.3
	R Oak saw	1.2	8.6	20.8	12.8	9.8	1.4
	Other saw	8.3	22.3	52.0	63.0	67.3	71.5
	Total	64.2	122.9	201.7	197.4	197.5	201.2
	Target	61	120.9	198.75	198.75	198.75	198.75
I. Falls	pulp	40.3	65.9	116.1	106.9	113.6	109.7
	R Oak saw	0.1	0.1	0.9	0.8	0.0	0.4
	Other saw	10.1	28.2	49.5	55.8	49.8	55.0
	Total	50.6	94.1	166.5	163.4	163.3	165.1
	Target	48	94.8	163.5	163.5	163.5	163.5
All Markets	pulp	483.9	749.1	932.3	897.5	895.1	853.1
	R Oak saw	40.4	86.4	175.7	134.6	103.2	56.5
	Other saw	104.1	251.8	381.	469.6	495.7	578.2
	Total	628.5	1,087.1	1,489.	1,501.5	1,493.8	1,488.
	Target	604	1,085.9	1,486.25	1,486.25	1,486.25	1,486.25

Table 14.22. Scheduled harvest of aspen for the northern region under the highest scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	Aspen pulp	319.7	298.2	251.2	335.9	326.5	327.6
	Aspen saw	249.1	219.6	167.4	99.4	121.1	121.3
	Total	568.8	517.8	418.6	435.3	447.6	448.9
	Target	572	522	450	450	450	450
Brainerd	Aspen pulp	120.6	151.0	160.5	181.8	210.6	204.6
	Aspen saw	133.8	135.3	131.9	112.4	85.8	96.0
	Total	254.3	286.3	292.4	294.1	296.4	300.5
	Target	256	287.1	300	300	300	300
Cook	Aspen pulp	99.2	108.8	184.6	230.8	233.8	217.2
	Aspen saw	95.1	103.4	104.7	55.5	89.5	76.8
	Total	194.3	212.1	289.4	286.3	323.3	294.0
	Target	210	182.7	300	300	300	300
Duluth	Aspen pulp	276.1	295.5	274.9	295.8	315.2	317.6
	Aspen saw	253.3	228.7	168.7	140.4	127.4	126.0
	Total	529.4	524.1	443.7	436.2	442.6	443.6
	Target	532	531	450	450	450	450
Grand Rapids	Aspen pulp	201.2	237.4	251.7	311.4	289.4	285.8
	Aspen saw	226.6	219.6	144.6	81.4	103.2	107.6
	Total	427.8	457.0	396.4	392.9	392.6	393.5
	Target	433	467.1	400	400	400	400
I. Falls	Aspen pulp	260.3	254.0	318.4	309.8	278.2	287.1
	Aspen saw	163.0	136.5	99.1	88.9	84.8	107.7
	Total	423.4	390.5	417.4	398.6	363.1	394.7
	Target	415	412.2	400	400	400	400
All Markets	Aspen pulp	1,277.1	1,344.9	1,441.3	1,665.5	1,653.7	1,639.9
	Aspen saw	1,120.9	1,043.1	816.4	578.	611.8	635.4
	Total	2,398.	2,387.8	2,257.9	2,243.4	2,265.6	2,275.2
	Target	2,418	2,402.1	2,300	2,300	2,300	2,300

Table 14.23. Scheduled harvest of spruce-fir for the northern region under the highest scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Brainerd	S-fir pulp	42.7	39.2	62.8	59.7	70.8	52.7
	S-fir saw	29.3	52.1	87.1	89.3	79.5	97.3
	Total	72.0	91.2	149.9	149.1	150.3	150.0
	Target	70	100	150	150	150	150
Duluth	S-fir pulp	132.4	208.4	186.5	177.3	174.3	153.7
	S-fir saw	88.7	170.0	209.0	224.3	218.3	236.9
	Total	221.1	378.3	395.5	401.5	392.6	390.6
	Target	220.5	379.5	400	400	400	400
Grand Rapids	S-fir pulp	72.3	97.4	150.6	136.1	154.7	145.6
	S-fir saw	42.3	79.5	146.9	161.2	143.7	140.5
	Total	114.5	176.9	297.4	297.3	298.4	286.1
	Target	115.5	163.5	300	300	300	300
All Markets	S-fir pulp	247.4	345.0	399.9	373.1	399.8	352.
	S-fir saw	160.3	301.6	443.	474.8	441.5	474.7
	Total	407.6	646.4	842.8	847.9	841.3	826.7
	Target	406	643	850	850	850	850

Table 14.24. Scheduled harvest of pine for the northern region under the highest scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	Pine pulp	30.7	51.0	88.4	76.7	79.6	141.9
	R&W saw	90.6	80.6	151.0	196.4	227.9	93.7
	Other saw	24.1	57.8	127.9	97.1	53.7	134.7
	Total	145.4	189.4	367.3	370.3	361.1	370.4
	Target	159	188	370	370	370	370
Duluth	Pine pulp	34.2	57.2	88.8	91.4	127.4	151.2
	R&W saw	113.0	105.2	200.3	201.6	114.8	79.8
	Other saw	23.4	58.0	76.9	72.5	106.0	132.0
	Total	170.6	220.4	366.0	365.5	348.2	363.0
	Target	171	218	370	370	370	370
I Falls	Pine pulp	27.5	22.7	62.3	77.1	79.4	101.3
	R&W saw	77.9	47.7	135.9	114.2	123.4	45.4
	Other saw	18.2	24.3	61.0	66.7	59.8	94.0
	Total	123.6	94.8	259.2	257.9	262.6	240.7
	Target	111	98	260	260	260	260
All Markets	Pine pulp	92.4	130.9	239.5	245.2	286.4	394.4
	R&W saw	281.5	233.5	487.2	512.2	466.1	218.9
	Other saw	65.7	140.1	265.8	236.3	219.5	360.7
	Total	439.6	504.6	992.5	993.7	971.9	974.1
	Target	441	504	1,000	1,000	1,000	1,000

Table 14.25 Scheduled harvest of northern hardwoods for the northern region under the highest scenario (1000's of cords per year).

Market	Category	Period					
		1990-99	2000-09	2010-19	2020-29	2030-39	2040-49
Bemidji	pulp	63.0	105.0	246.8	213.8	216.6	200.0
	R Oak saw	4.8	10.0	33.6	29.0	16.4	8.2
	Other saw	16.4	32.6	117.7	114.8	155.8	146.9
	Total	84.1	147.6	398.1	357.6	388.8	355.1
	Target	83	147	400	400	400	400
Brainerd	pulp	128.8	146.0	310.1	310.9	287.5	282.9
	R Oak saw	35.5	33.7	152.8	84.4	30.2	19.8
	Other saw	26.5	48.6	121.2	202.2	250.3	251.1
	Total	190.9	228.3	584.1	597.5	568.0	553.9
	Target	190	229.9	600	600	600	600
Cook	pulp	39.2	63.0	177.8	174.3	168.8	168.0
	R Oak saw	0.0	0.0	1.1	0.8	0.8	2.0
	Other saw	10.0	19.2	53.2	68.3	66.4	62.0
	Total	49.2	82.2	232.1	243.4	236.0	232.1
	Target	51	79.3	250	250	250	250
Duluth	pulp	132.9	290.3	348.7	319.0	300.4	287.2
	R Oak saw	2.6	12.4	39.3	31.7	20.1	9.5
	Other saw	35.9	108.3	151.8	179.6	198.7	208.7
	Total	171.4	411.0	539.8	530.3	519.1	505.4
	Target	171	414	550	550	550	550
Grand Rapids	pulp	49.8	90.7	241.1	236.3	233.7	233.3
	R Oak saw	0.9	3.6	30.2	25.9	10.5	6.9
	Other saw	10.8	27.3	122.7	125.6	133.9	130.6
	Total	61.5	121.6	393.9	387.8	378.0	370.7
	Target	61	120.9	400	400	400	400
I. Falls	pulp	39.3	66.3	174.0	158.0	164.1	166.7
	R Oak saw	0.0	0.0	0.9	0.8	2.5	0.0
	Other saw	9.3	30.0	81.2	85.5	70.7	84.9
	Total	48.5	96.4	256.1	244.2	237.4	251.6
	Target	48	94.8	250	250	250	250
All Markets	pulp	453.0	761.3	1,498.5	1,412.3	1,371.1	1,338.1
	R Oak saw	43.8	59.7	257.9	172.6	80.5	46.4
	Other saw	108.9	266.	647.8	776.	875.8	884.2
	Total	605.6	1,087.1	2,404.1	2,360.8	2,327.3	2,268.8
	Target	604	1,085.9	2,450	2,450	2,450	2,450

