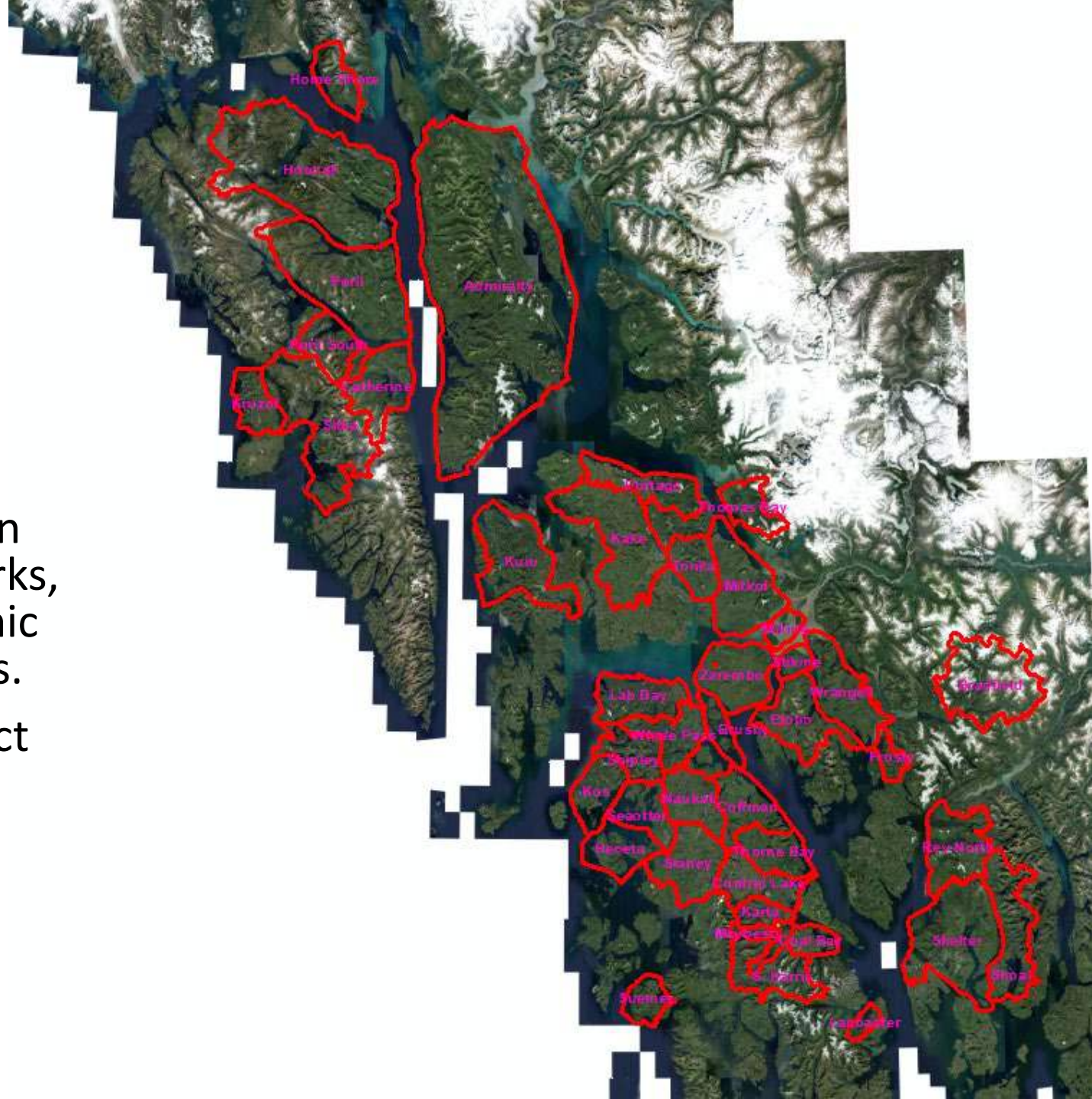
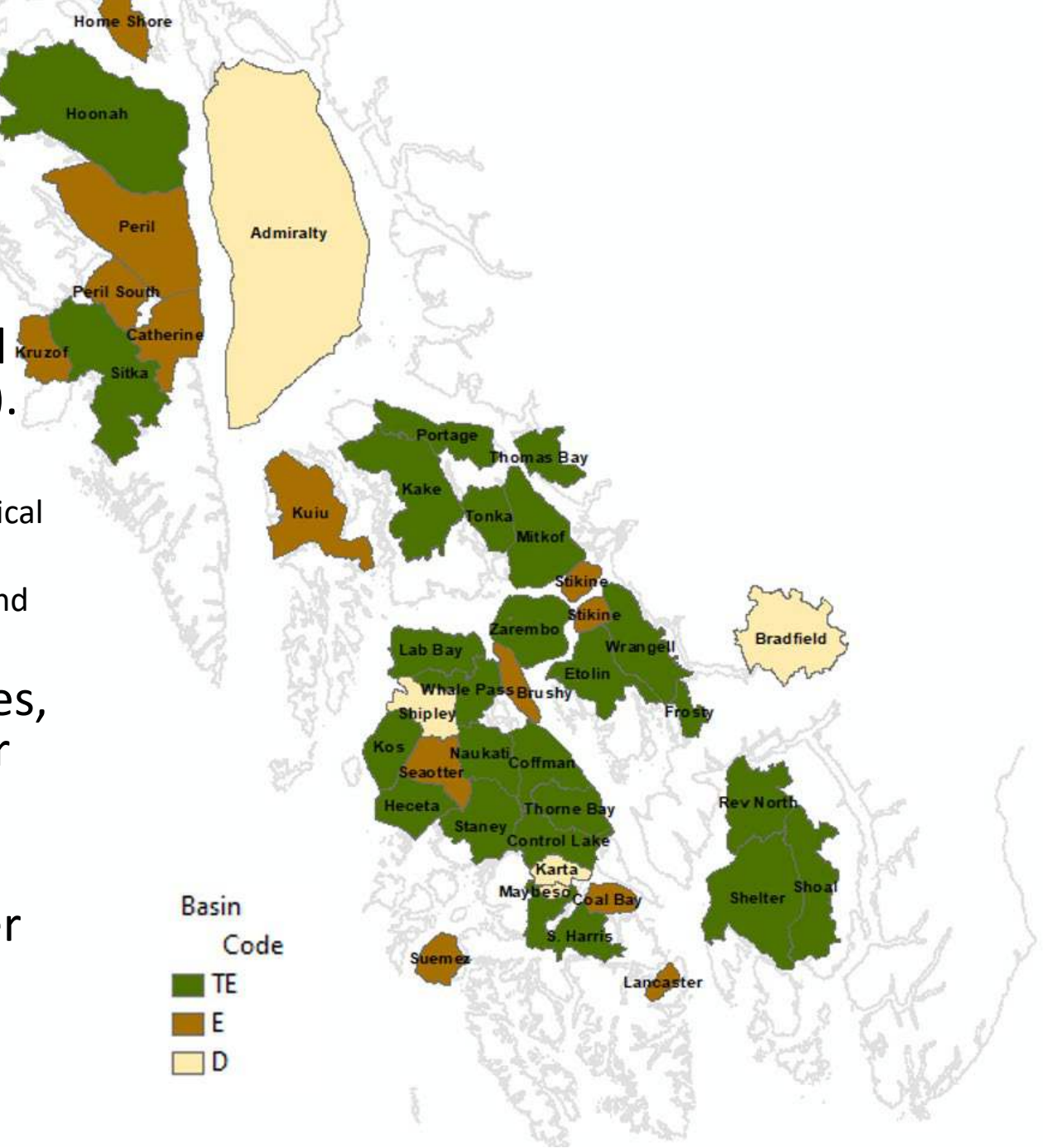
Basin delineations[1]:

- A total of 52 working basins were established across the forest that looked to group YG stands into operational areas.
- Basin delineations relied heavily on management activity, road networks, log transfer facilities and geographic location in establishing boundaries.
- working basins aim to form distinct operational areas for analyses.

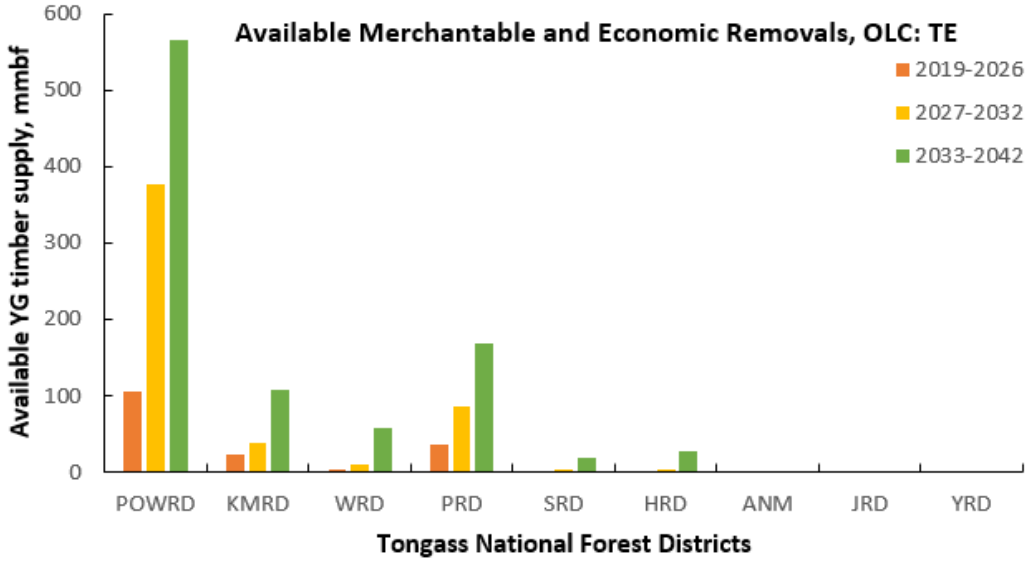


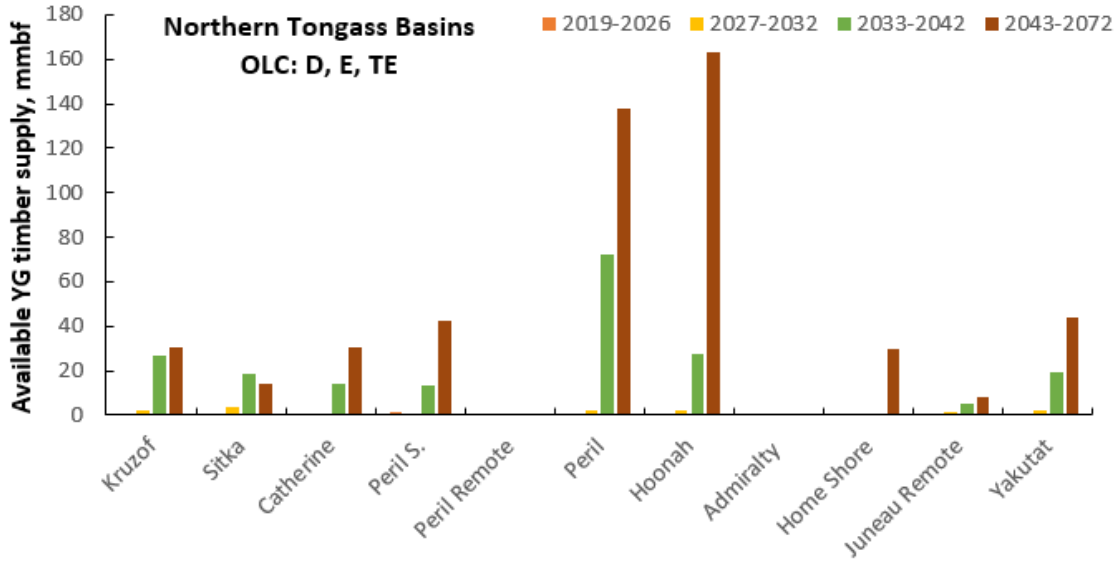
Basin delineations[II]:

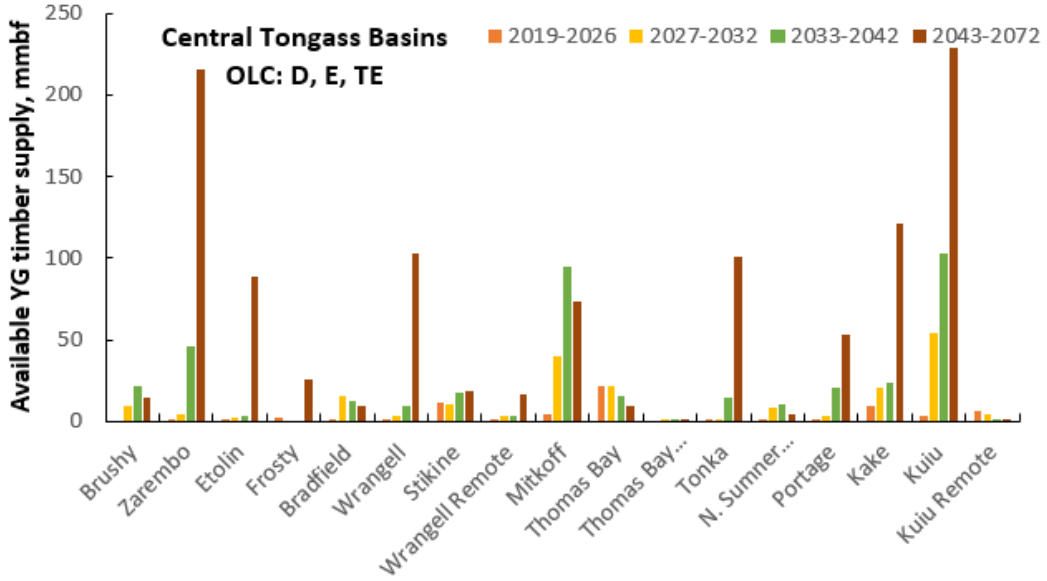
- Basin delineation can be further filtered into operational likelihood classes (OLC).
  - Deferred (D): Basin most likely to be deferred.
  - Economic (E): Basin with a high likelihood of logistical challenges due to infrastructure and location.
  - Techno-Economic (TE): Basin that is economic and logistically most feasible.
- With a focus on basin and OLC categories, we can link our volume estimates to our most feasible areas (TE) or identify infrastructure needs (E).
- Basin and OLC categories may be further refined to account for other land ownership, infrastructure, or as further information is available.

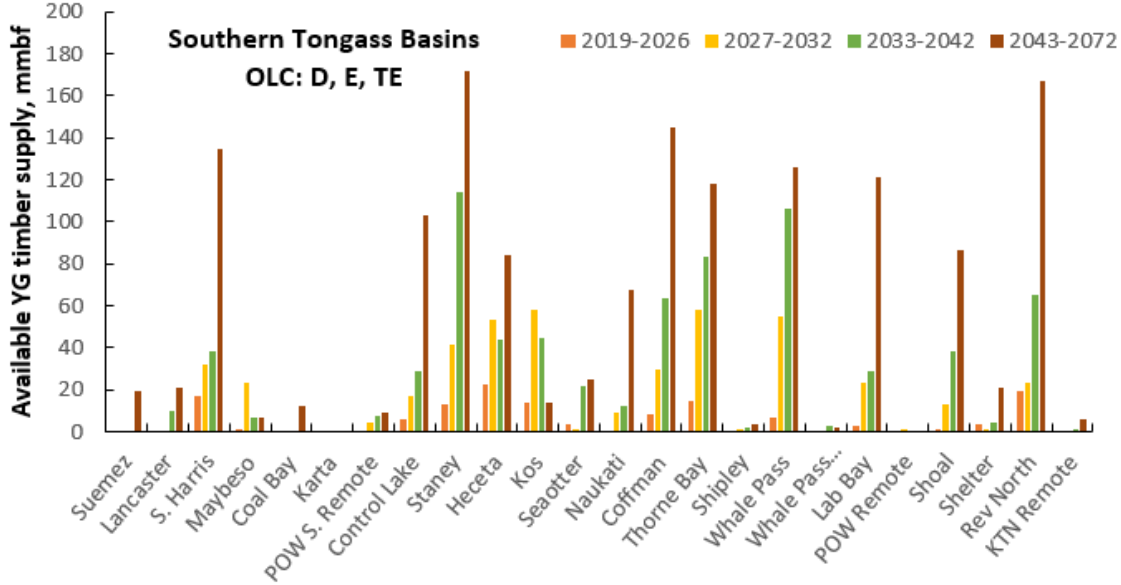


Available merchantable and economic volume by district and basin

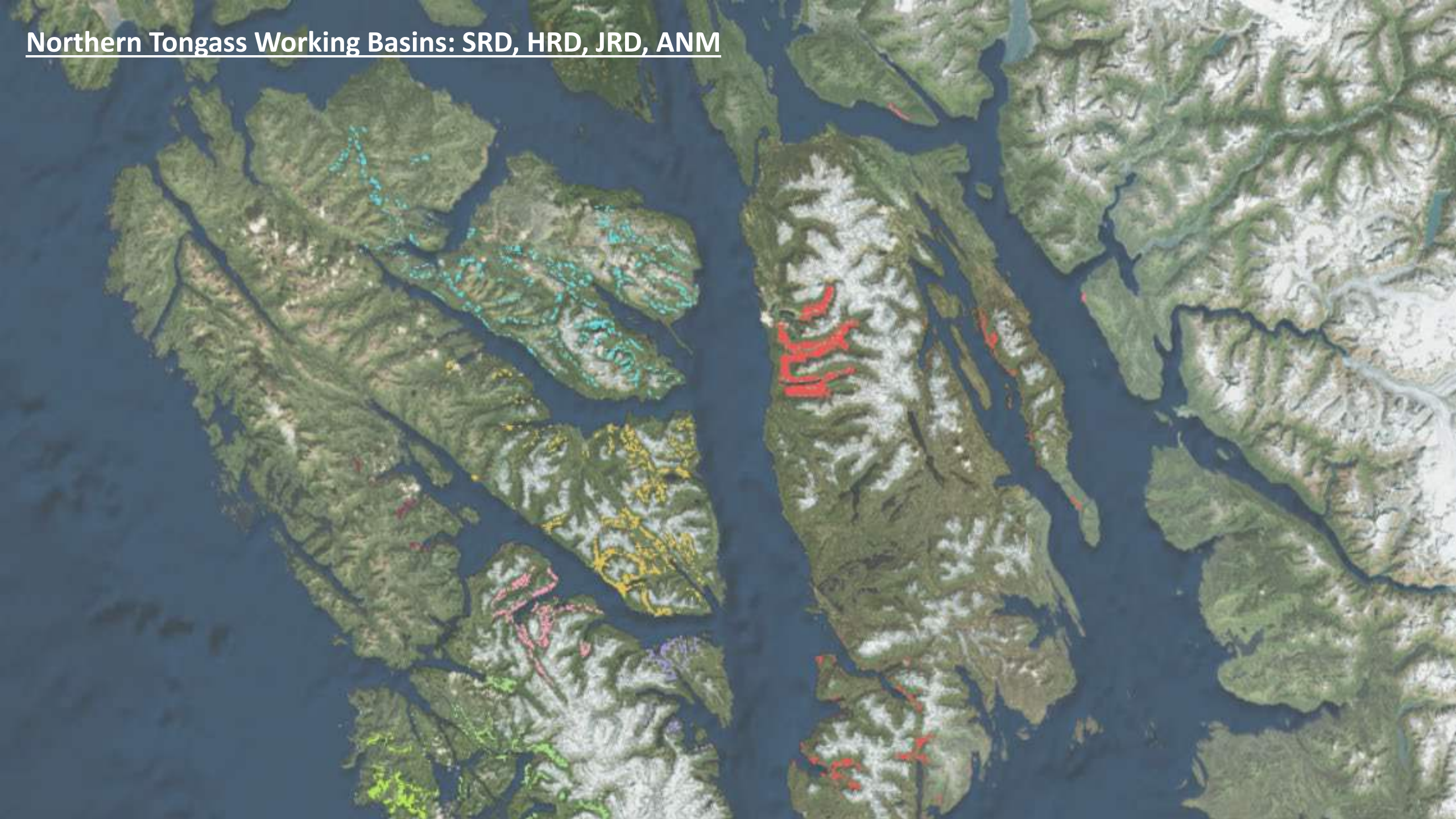








Northern Tongass Working Basins: SRD, HRD, JRD, ANM



Northern Tongass Merchantable and Economic Timber Availability : SRD, HRD, JRD, ANM

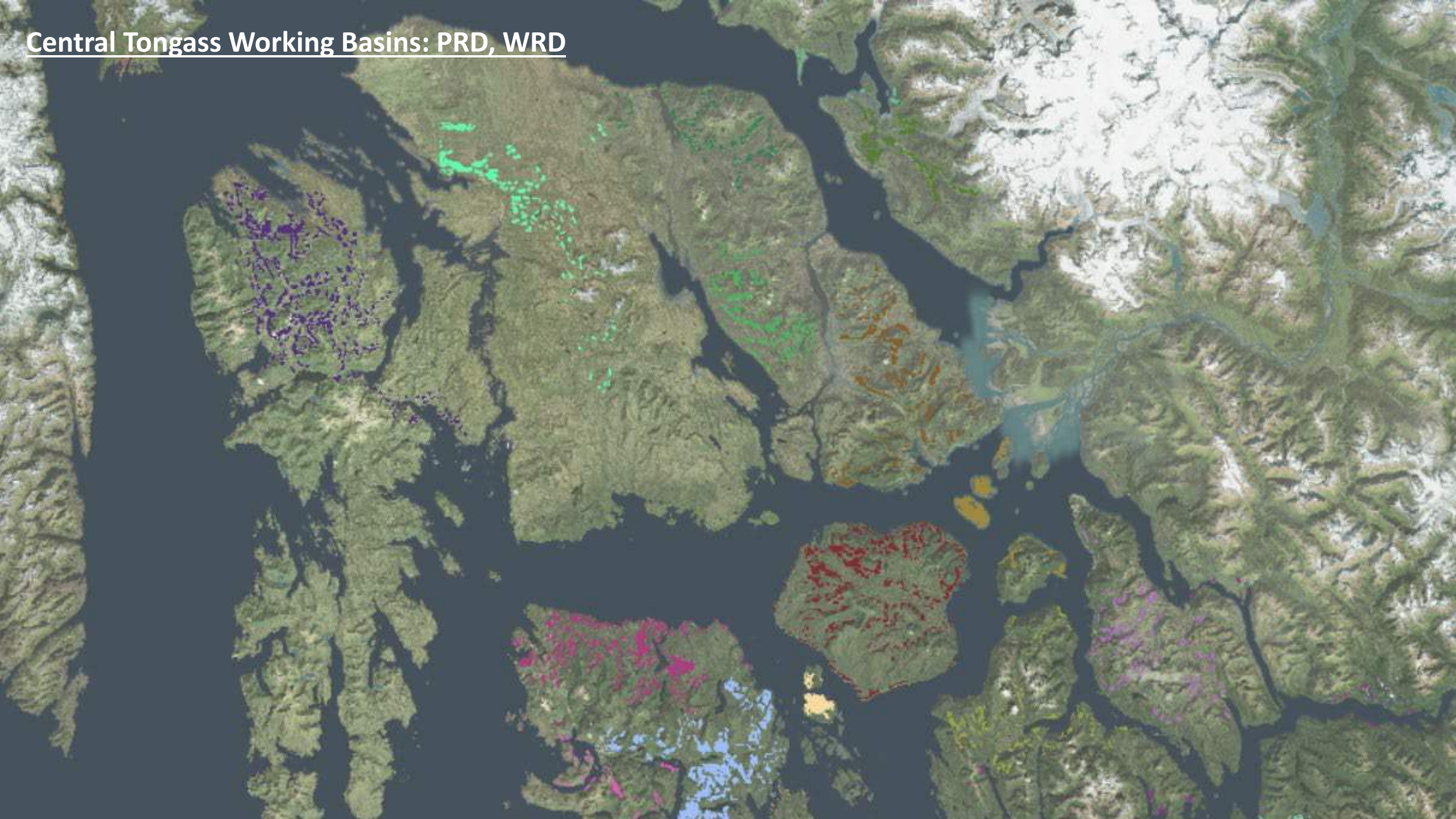
Northern Tongass (SRD, HRD, ANM, JRD, YRD):

Table 1. Northern Tongass cumulative and time period available merchantable and economic volume (MMBF) by working basin and operational likelihood class (OLC)*

			Cumulative volume, MMBF								Time period volume, MMBF							
			2026		2032		2042		2072		2019-2026		2027-2032		2033-2042		2043-2072	
District	Basin	OLC	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume
SRD	Kruzof	E	0	0.0	110	2.3	1,328	28.8	2,766	59.6	0	0.0	110	2.3	1,218	26.5	1,438	30.8
SRD	Sitka	TE	18	0.5	202	4.4	1,068	23.0	1,718	36.9	18	0.5	184	3.9	866	18.6	650	14.0
SRD	Catherine	E	4	0.1	35	0.8	706	15.2	2,108	45.6	4	0.1	31	0.7	671	14.4	1,403	30.4
SRD	Peril S.	E	68	1.4	113	2.4	743	15.8	2,731	58.0	68	1.4	45	1.0	630	13.4	1,987	42.2
SRD	Peril Remote	D	1	0.0	14	0.3	40	0.8	66	1.4	1	0.0	13	0.3	26	0.6	26	0.6
SRD	Peril	E	8	0.3	106	2.3	3,469	74.4	9,842	212.5	8	0.3	98	2.1	3,363	72.1	6,373	138.1
HRD	Hoonah	TE	0	0.0	112	2.4	1,419	30.2	8,536	193.3	0	0.0	112	2.4	1,307	27.8	7,117	163.1
ANM	Admiralty	D	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
JRD	Home Shore	E	0	0.0	0	0.0	0	0.0	1,297	29.6	0	0.0	0	0.0	0	0.0	1,297	29.6
JRD	Juneau Remote	D	0	0.0	60	1.3	296	6.6	678	14.9	0	0.0	60	1.3	236	5.3	382	8.4
YRD	Yakutat	E	0	0.0	89	1.9	1,002	21.5	2,906	65.5	0	0.0	89	1.9	912	19.6	1,904	44.0
Combined OLC		D	1	0.0	74	1.6	336	7.4	744	16.3	1	0.0	73	1.6	262	5.8	408	8.9
Combined OLC		E	80	1.8	453	9.7	7,247	155.7	21,649	470.8	80	1.8	373	7.9	6,795	146.0	14,402	315.1
Combined OLC		TE	18	0.5	314	6.7	2,487	53.2	10,254	230.2	18	0.5	295	6.2	2,173	46.4	7,767	177.0
Combined OLC		D,E,TE	99	2.3	841	18.0	10,070	216.3	32,647	717.3	99	2.3	742	15.7	9,230	198.3	22,577	501.0

*Operational likelihood class (OLC) estimates basins most likely to be deferred (D), basins with a high likelihood of logistical challenges due to infrastructure and location (E), and basins that are logistically most feasible (TE); The following labels represent these three categories: Deferred (D), Economic (E), Techno-Economic (TE).

Central Tongass Working Basins: PRD, WRD



Central Tongass Merchantable and Economic Timber Availability : PRD, WRD

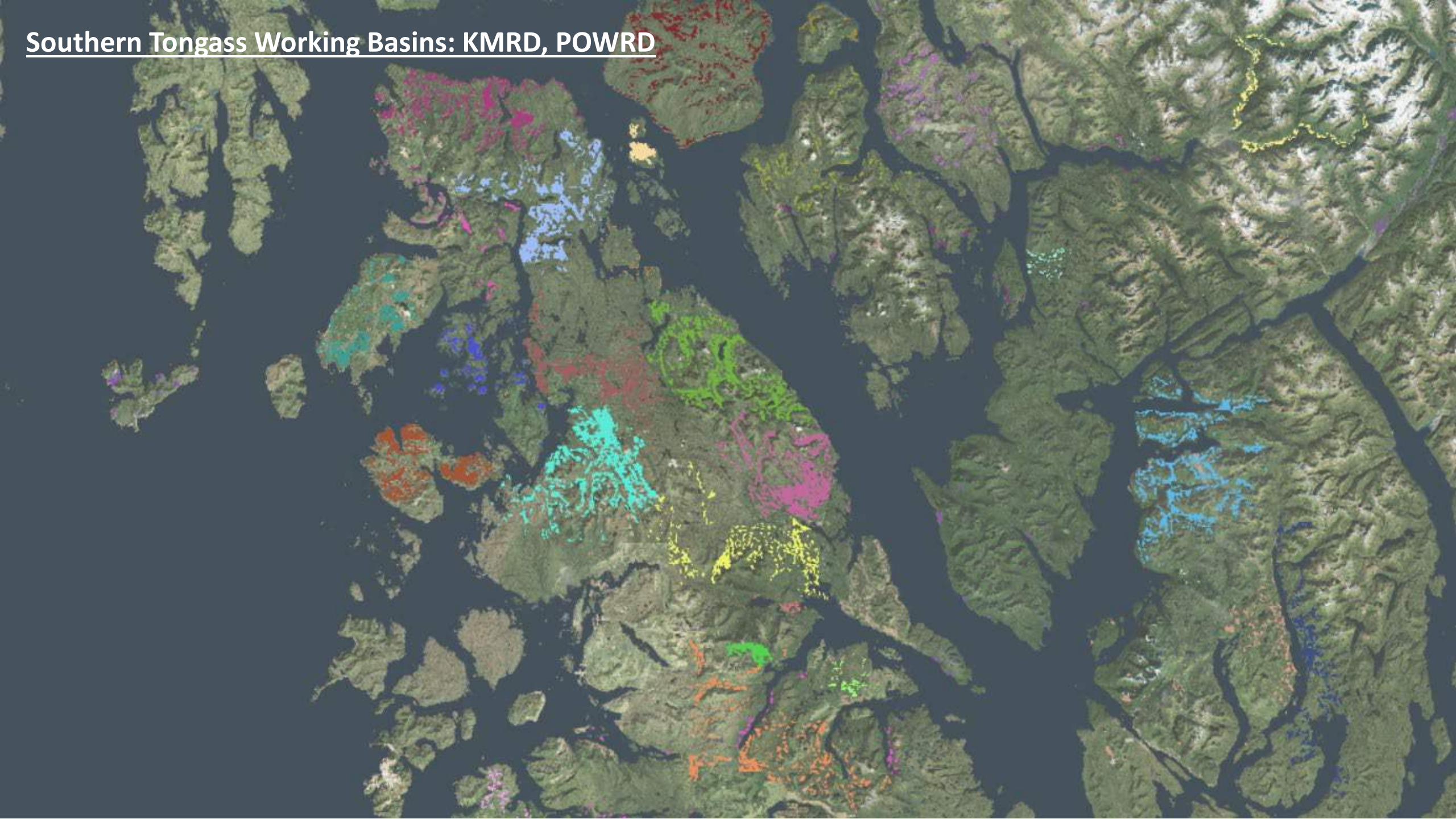
Central Tongass (PRD, WRD):

Table 2. Central Tongass cumulative and time period available merchantable and economic volume (MMBF) by working basin and operational likelihood class (OLC)*

			Cumulative volume, MMBF								Time period volume, MMBF							
			2026		2032		2042		2072		2019-2026		2027-2032		2033-2042		2043-2072	
District	Basin	OLC	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume
WRD	Brushy	E	0	0.0	449	9.8	1,472	31.7	2,155	46.3	0	0.0	449	9.8	1,024	21.9	683	14.6
WRD	Zarembo	TE	10	0.3	226	5.0	2,320	50.7	11,859	266.6	10	0.3	216	4.7	2,094	45.7	9,539	215.9
WRD	Etolin	TE	15	0.3	112	2.5	284	6.2	3,803	95.1	15	0.3	98	2.2	172	3.7	3,519	88.9
WRD	Frosty	TE	82	2.2	82	2.2	82	2.2	1,014	28.4	82	2.2	0	0.0	0	0.0	932	26.2
WRD	Bradfield	D	3	0.1	738	15.8	1,339	28.6	1,776	37.9	3	0.1	734	15.7	602	12.9	436	9.3
WRD	Wrangell	TE	19	0.4	177	3.8	614	13.2	4,887	115.6	19	0.4	158	3.4	437	9.3	4,272	102.4
WRD	Stikine	E	472	11.1	937	21.0	1,755	38.5	2,612	56.9	472	11.1	465	10.0	818	17.5	857	18.4
WRD	Wrangell Remote	D	16	0.3	186	4.0	349	7.6	894	23.9	16	0.3	170	3.7	163	3.6	545	16.3
PRD	Mitkoff	TE	197	4.4	1,990	44.0	6,105	138.3	9,344	211.7	197	4.4	1,793	39.6	4,116	94.3	3,239	73.4
PRD	Thomas Bay	TE	983	21.7	2,002	43.5	2,730	59.3	3,185	68.9	983	21.7	1,019	21.9	728	15.7	455	9.6
PRD	Thomas Bay Remote	D	0	0.0	62	1.4	133	2.9	179	3.9	0	0.0	62	1.4	71	1.6	46	1.0
PRD	Tonka	TE	8	0.2	18	0.4	674	14.7	4,934	115.5	8	0.2	10	0.2	656	14.3	4,259	100.8
PRD	N. Sumner Remote	D	55	1.2	422	9.3	912	19.8	1,126	24.4	55	1.2	366	8.1	491	10.6	213	4.6
PRD	Portage	TE	9	0.2	176	3.8	1,089	24.0	3,449	76.8	9	0.2	167	3.6	913	20.2	2,360	52.8
PRD	Kake	TE	393	9.2	1,246	29.4	2,256	53.3	7,280	174.7	393	9.2	853	20.2	1,011	23.8	5,024	121.5
PRD	Kuiu	E	162	3.5	2,627	57.4	7,301	159.9	17,241	388.1	162	3.5	2,464	53.9	4,674	102.4	9,940	228.3
PRD	Kuiu Remote	D	290	6.6	491	11.0	572	12.7	640	14.2	290	6.6	201	4.4	81	1.7	68	1.5
Combined OLC		D	364	8.1	1,898	41.5	3,306	71.7	4,615	104.4	364	8.1	1,534	33.3	1,407	30.3	1,309	32.6
Combined OLC		E	634	14.6	4,012	88.3	10,528	230.1	22,007	491.4	634	14.6	3,378	73.7	6,516	141.8	11,480	261.3
Combined OLC		TE	1,716	38.8	6,029	134.6	16,156	361.7	49,755	1,153.2	1,716	38.8	4,313	95.8	10,126	227.1	33,599	791.5
Combined OLC		D,E,TE	2,714	61.4	11,940	264.3	29,989	663.5	76,377	1,748.9	2,714	61.4	9,225	202.9	18,049	399.2	46,388	1,085.4

*Operational likelihood class (OLC) estimates basins most likely to be deferred (D), basins with a high likelihood of logistical challenges due to infrastructure and location (E), and basins that are logistically most feasible (TE); The following labels represent these three categories: Deferred (D), Economic (E), Techno-Economic (TE).

Southern Tongass Working Basins: KMRD, POWRD



Southern Tongass Merchantable and Economic Timber Availability : KMRD, POWRD

Southern Tongass (KMRD, POWRD):

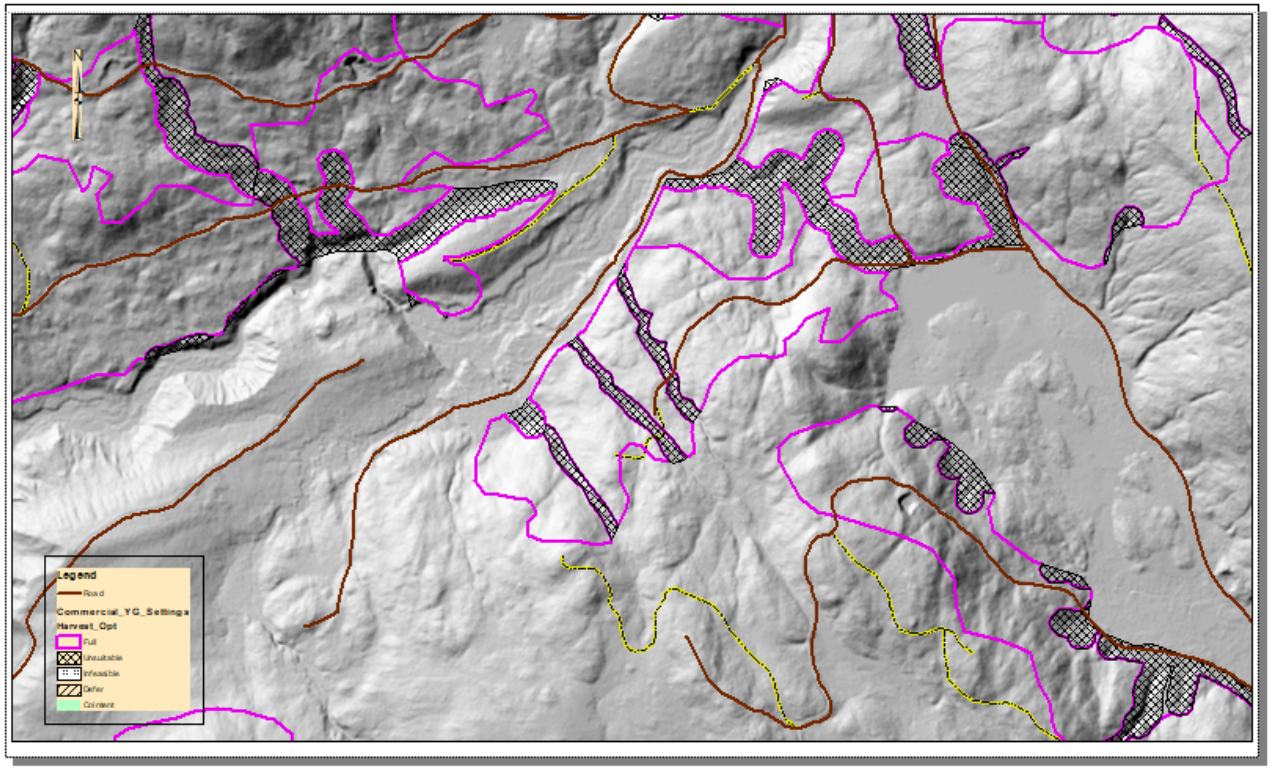
Table 3. Southern Tongass cumulative and time period available merchantable and economic volume (MMBF) by working basin and operational likelihood class (OLC)*

			Cumulative volume, MMBF								Time period volume, MMBF							
			2026		2032		2042		2072		2019-2026		2027-2032		2033-2042		2043-2072	
District	Basin	OLC	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume
POWRD	Suemez	E	0	0.0	1	0.0	28	0.6	860	19.7	0	0.0	1	0.0	27	0.6	832	19.1
POWRD	Lancaster	E	0	0.0	27	0.6	455	10.5	1,281	31.4	0	0.0	27	0.6	428	9.9	826	20.9
POWRD	S. Harris	TE	802	17.1	2,260	48.8	4,023	87.5	9,532	222.4	802	17.1	1,458	31.8	1,763	38.7	5,509	134.9
POWRD	Maybeso	D	70	1.6	1,140	25.2	1,454	32.0	1,761	38.5	70	1.6	1,069	23.6	315	6.8	307	6.5
POWRD	Coal Bay	E	0	0.0	0	0.0	5	0.1	608	12.7	0	0.0	0	0.0	5	0.1	603	12.6
POWRD	Karta	D	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
POWRD	POW S. Remote	D	17	0.4	209	4.6	575	12.5	996	21.8	17	0.4	192	4.2	366	7.9	421	9.3
POWRD	Control Lake	TE	241	5.9	974	22.6	2,287	51.6	6,675	154.8	241	5.9	733	16.8	1,313	28.9	4,388	103.3
POWRD	Staney	TE	611	13.4	2,463	55.2	7,485	169.7	14,951	341.4	611	13.4	1,853	41.8	5,022	114.5	7,467	171.7
POWRD	Heceta	TE	984	22.7	3,379	76.2	5,311	120.3	9,174	204.7	984	22.7	2,395	53.5	1,932	44.2	3,863	84.3
POWRD	Kos	TE	607	14.2	3,251	72.2	5,250	116.7	5,872	130.3	607	14.2	2,644	58.0	1,999	44.6	622	13.6
POWRD	Seaotter	E	161	3.9	221	5.2	1,224	26.6	2,411	51.7	161	3.9	60	1.4	1,004	21.4	1,186	25.1
POWRD	Naukati	TE	7	0.2	441	9.6	1,002	21.8	4,102	89.4	7	0.2	434	9.5	561	12.1	3,100	67.6
POWRD	Coffman	TE	343	8.0	1,640	37.5	4,543	100.9	11,134	245.6	343	8.0	1,298	29.5	2,902	63.4	6,592	144.7
POWRD	Thorne Bay	TE	672	14.3	3,287	72.1	6,823	155.2	11,936	273.6	672	14.3	2,615	57.8	3,537	83.1	5,112	118.4
POWRD	Shipley	D	0	0.0	56	1.2	141	3.0	293	6.2	0	0.0	56	1.2	85	1.8	152	3.2
POWRD	Whale Pass	TE	279	6.4	2,742	61.1	7,260	167.3	12,758	293.5	279	6.4	2,463	54.6	4,518	106.2	5,498	126.3
POWRD	Whale Pass Remote	D	0	0.0	10	0.2	136	3.0	225	4.9	0	0.0	10	0.2	126	2.8	90	1.9
POWRD	Lab Bay	TE	98	2.5	1,191	26.1	2,511	55.1	7,957	176.4	98	2.5	1,092	23.6	1,320	29.0	5,447	121.3
POWRD	POW Remote	D	0	0.0	44	1.0	46	1.0	46	1.0	0	0.0	44	1.0	2	0.0	0	0.0
KMRD	Shoal	TE	40	0.9	653	14.2	2,429	52.3	6,062	138.4	40	0.9	614	13.3	1,775	38.1	3,634	86.2
KMRD	Shelter	TE	156	3.5	196	4.6	408	9.2	1,265	29.8	156	3.5	40	1.1	213	4.6	857	20.6
KMRD	Rev North	TE	839	19.2	1,898	42.1	4,949	107.6	12,085	274.8	839	19.2	1,058	23.0	3,051	65.5	7,136	167.2
KMRD	KTN Remote	D	7	0.2	32	0.7	85	1.9	386	8.2	7	0.2	24	0.5	53	1.2	301	6.3
Combined OLC		D	95	2.1	1,491	32.9	2,438	53.3	3,709	80.5	95	2.1	1,396	30.7	946	20.5	1,271	27.2
Combined OLC		E	161	3.9	249	5.8	1,713	37.9	5,161	115.5	161	3.9	88	1.9	1,464	32.1	3,448	77.6
Combined OLC		TE	5,679	128.2	24,374	542.3	54,281	1,215.0	113,505	2,575.0	5,679	128.2	18,695	414.1	29,907	672.7	59,224	1,360.0
Combined OLC		D,E,TE	5,934	134.2	26,114	580.9	58,431	1,306.2	122,374	2,771.0	5,934	134.2	20,180	446.8	32,318	725.3	63,943	1,464.8

*Operational likelihood class (OLC) estimates basins most likely to be deferred (D), basins with a high likelihood of logistical challenges due to infrastructure and location (E), and basins that are logistically most feasible (TE); The following labels represent these three categories: Deferred (D), Economic (E), Techno-Economic (TE).

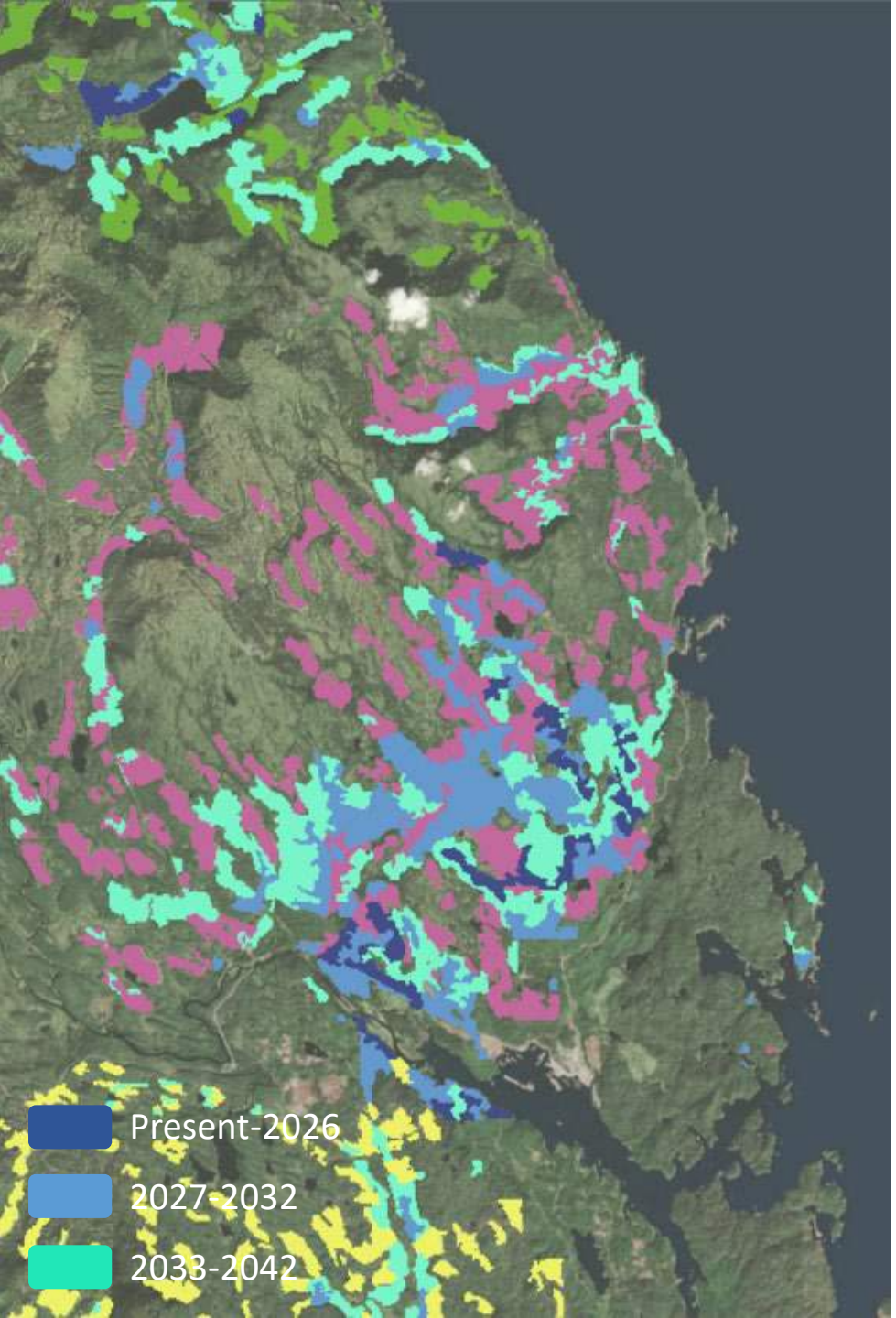
Gate 1 refinement and unit pool development

- Stands meeting merchantable and economic criteria within selected basins are further refined into a draft project unit pool.
- This process involves a stand by stand refinement of suitable and feasible acres as well as draft road, logging system and harvest prescription design.
- The process relies heavily on Lidar and current imagery where available.



YG project opportunities

- Three larger scale young growth projects are currently being considered across the Forest.
  - Thomas Bay (Petersberg RD): ~22 MMBF.
  - Thorne Bay (Prince of Wales RD): Initial planning stages with some field work progressing.
  - Heceta (Prince of Wales RD): Limited field surveys to begin potentially this autumn.
- Project refinements and net-downs.
  - Gross project stand acreage
  - Unsuitable acreage
  - Infeasible acreage
  - Deferred acreage
  - Net co-intent
  - Net acreage



Thorne Bay Project Example

Gross project stand acreage = 4,048 ac

Unsuitable acreage = 672 ac

Infeasible acreage = 54 ac

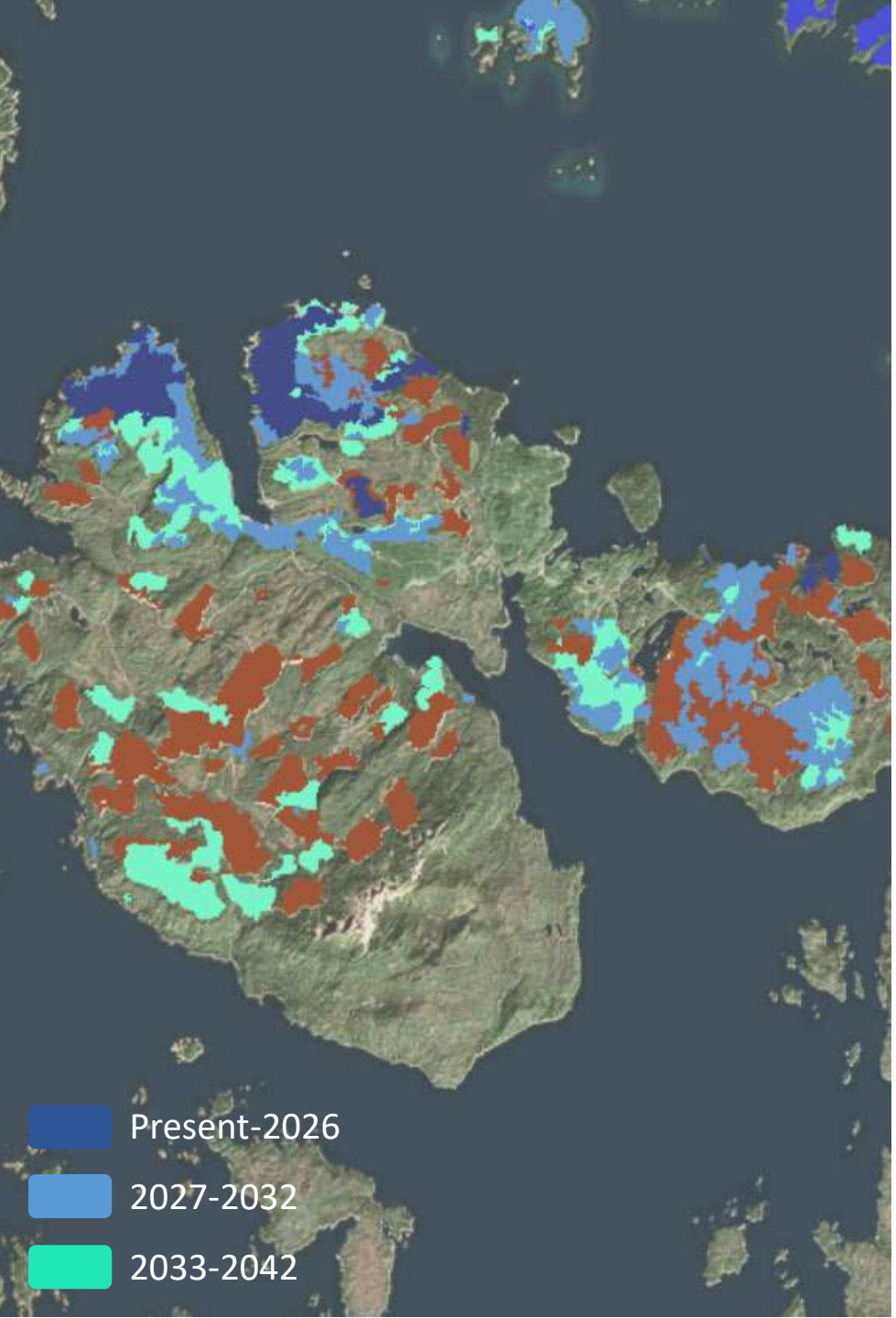
Deferred acreage = 167 ac

Net co-intent = 25 ac

Net full harvest = 2,918 ac

Total estimated harvest acreage = 2,943 ac

*27% net-down (additional net-down is expected after field reconnaissance)



Heceta Project Example

Gross project stand acreage = 4,542 ac

Unsuitable acreage = 245 ac

Infeasible acreage = 11 ac

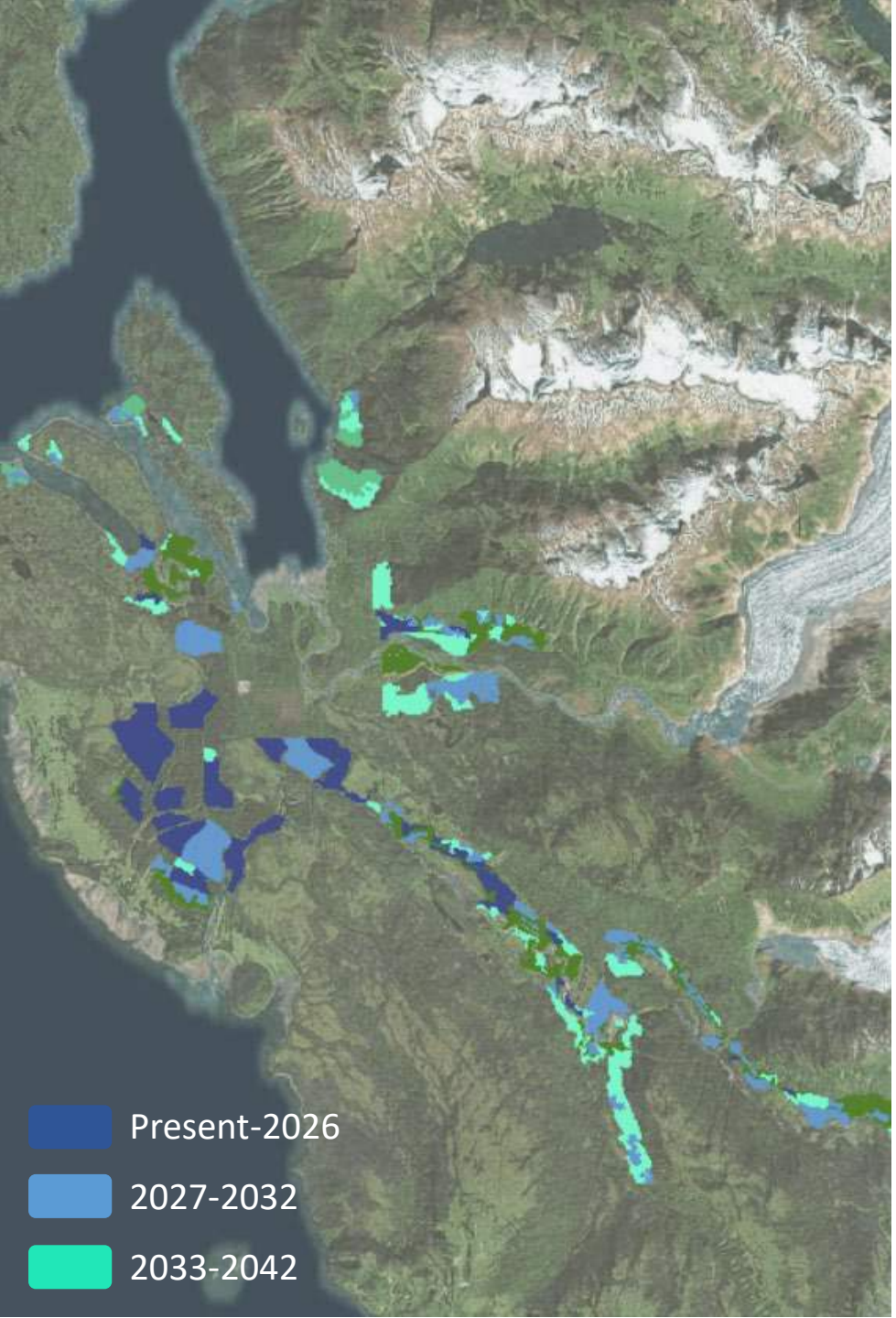
Deferred acreage = 69 ac

Net co-intent = 259 ac

Net full harvest = 3352 ac

Total estimated harvest acreage = 3611 ac

*24% net-down (additional net-down is expected after field reconnaissance)



Thomas Bay

Gross project stand acreage = 2,881 ac

Unsuitable acreage = 332 ac

Suitable deferred acreage = 477 ac

Project Unit Pool = 835 ac

Suitable but infeasible due to RMA and TTRA (Muddy River Floodplain) = 1,237 ac