



Impacts of the Long-Term Conservation Strategy on the Sustainable Harvest

A report to the Board of Natural Resources

presented by

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Purpose

- To compare murrelet scenarios by their relative effects on harvest levels.

The following scenarios are for comparative purposes only. These numbers should only be viewed in the context of this exercise, as further choices around the Sustainable Harvest Calculation will influence final volume levels.



Trust Mandate

As manager of state trust lands, DNR has legal fiduciary responsibilities under the State Constitution to:

- Generate revenue and other benefits for each trust, in perpetuity
- Preserve the corpus of the trust
- Exercise reasonable care and skill
- Act prudently to reduce the risk of loss for the trusts
- Maintain undivided loyalty to beneficiaries
- Act impartially with respect to current and future beneficiaries



Evaluation Criteria

1 To the maximum extent practicable, minimize and mitigate the impacts of take.

2 Not appreciably reduce the likelihood of the survival and recovery of the species in the wild.

3 Make a significant contribution to maintaining and protecting marbled murrelet populations in western Washington over the life of the HCP.



MMLTCS Scenarios



Murrelet Conservation by Alternative

	A	B	C	D	E	F
Occupied sites	✓	✓	✓	✓	✓	✓
Occupied site buffers	✓		✓	✓	✓	✓
Habitat identified under interim strategy	✓					
Marbled murrelet management areas						✓
Emphasis areas			✓		✓	
Special habitat areas			✓	✓	✓	
High quality P-stage habitat (>=.47)			✓		✓	
Low quality NSO Habitat						✓

Acres of Long-term Forest Cover (LTFC)

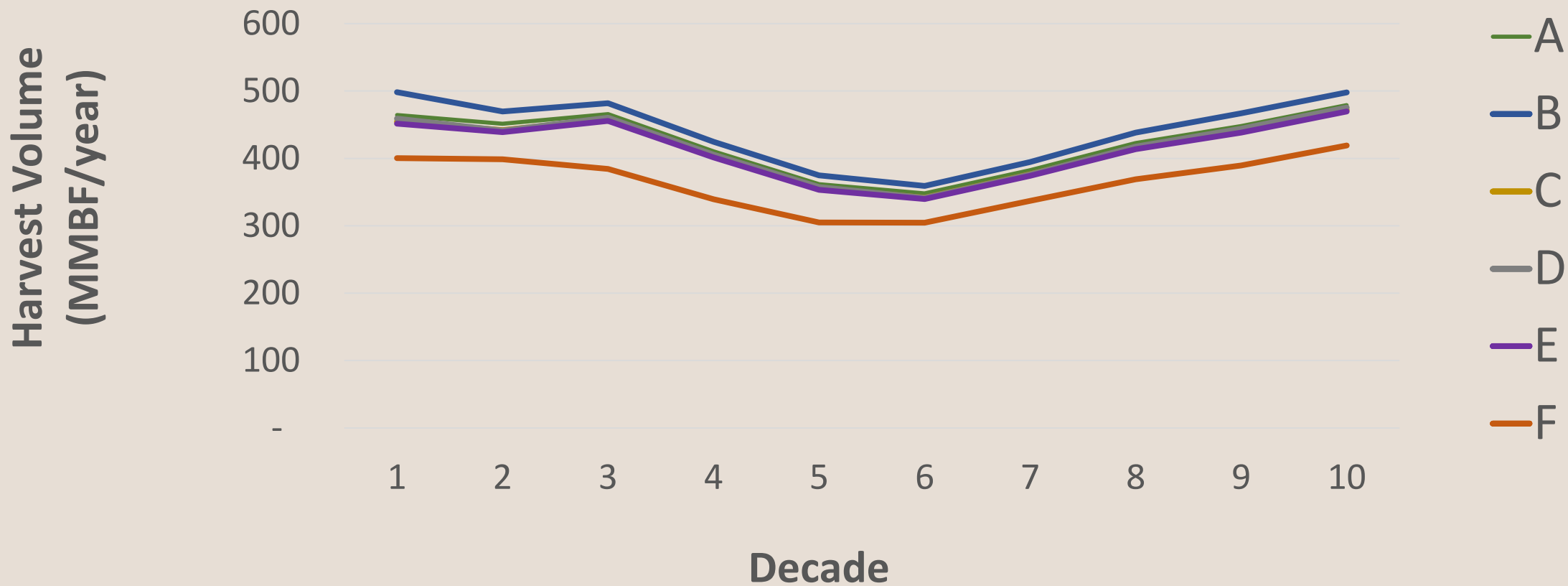
Existing conservation that provides benefits to marbled murrelets

Marbled murrelet- specific conservation

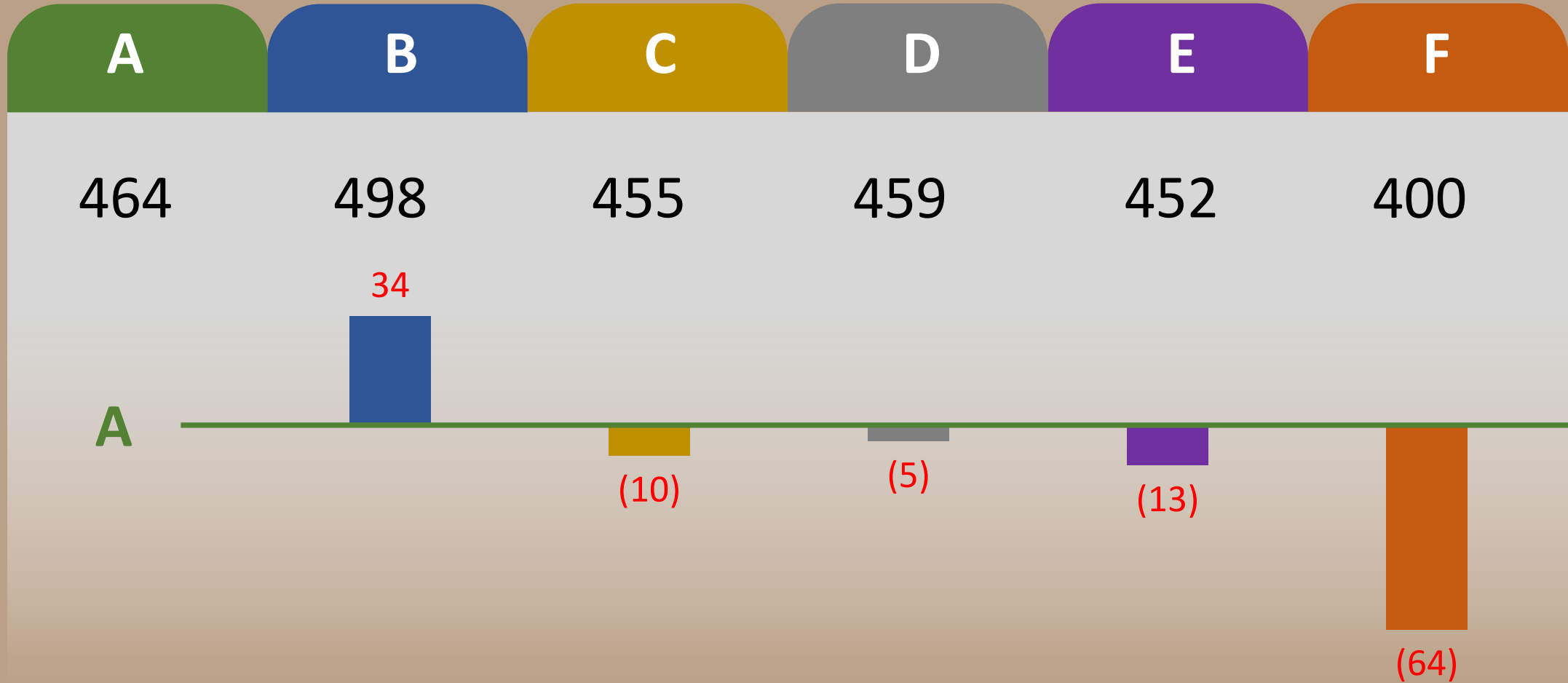
Total approximate acres

	A	B	C	D	E	F
Existing conservation that provides benefits to marbled murrelets	583,000	583,000	583,000	583,000	583,000	583,000
Marbled murrelet- specific conservation	37,000	10,000	53,000	51,000	57,000	151,000
Total approximate acres	620,000	593,000	636,000	634,000	640,000	734,000

Harvest Volume (MMBF/Year)



Scenario Harvest Volume Decade 1 (MMBF/Year)



Scenario Harvest Volume (MMBF/Year)

Decade 1

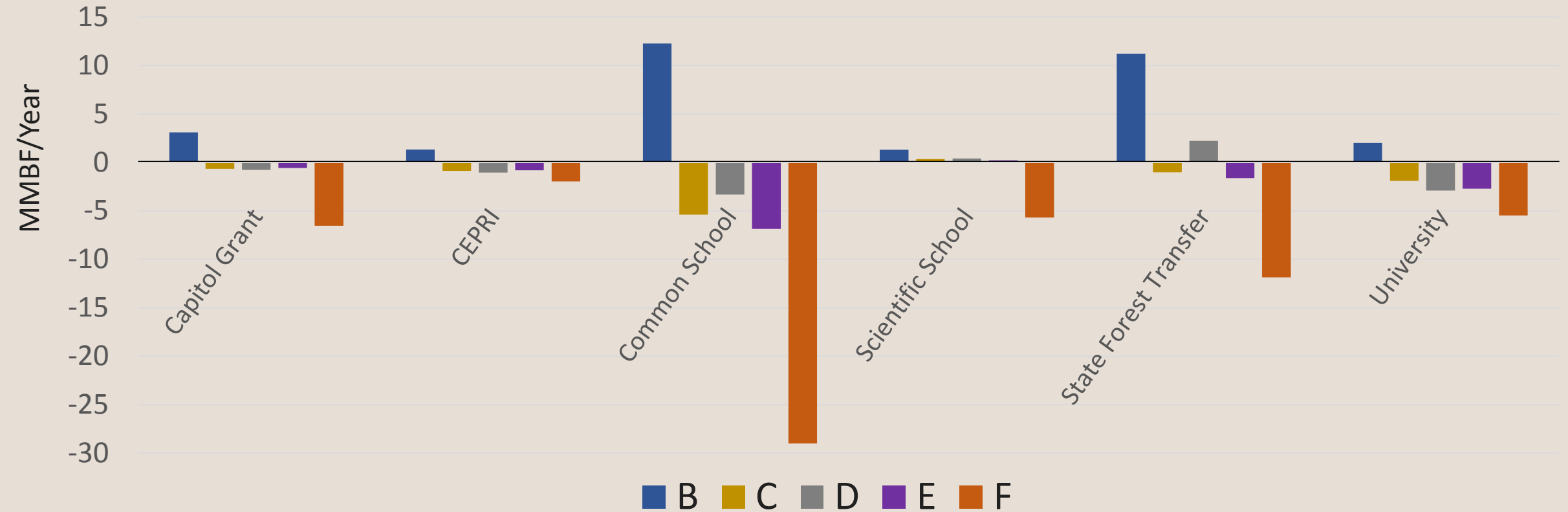
	A	B	C	D	E	F
TOTAL	464	498	454	459	452	400
Agricultural School	13	13	13	13	13	10
Capitol Grant	47	50	46	46	46	40
CEPRI	11	13	11	10	11	9
Common School	152	165	147	149	146	123
Normal School	7	8	7	7	7	7
Scientific School	25	27	26	26	26	20
State Forest Purchase	34	35	34	34	34	34
State Forest Transfer	158	169	157	160	157	146
University	11	13	9	8	9	6
Others*	4	4	4	4	4	4

*Others include CCFR, Water Pollination Board, Administrative Sites, and unknown trust status

Scenario Harvest Volume by Trust (MMBF/year)

Decade 1

Showing Changes from Scenario A



Scenario Harvest Volume (MMBF/year)

Decade 1

State Forest Transfer Lands

	Clallam	Clark	Cowlitz	Grays-harbor	Jefferson	King	Kitsap	Lewis	Mason	Pacific	Pierce	Skagit	Skamania	Snohomish	Thurston	Wahkiakum	Whatcom
A	35.5	6.6	3.4	0.6	4.7	3.9	1.1	16.9	9.1	5.1	1.4	20.6	8.0	20.6	10.5	4.3	6.4
B	41.8	6.6	3.5	0.7	4.9	3.9	1.1	17.0	9.1	6.3	1.4	21.5	8.1	20.8	10.8	6.0	6.6
C	36.9	6.6	3.4	0.7	4.9	3.9	1.1	16.6	9.1	4.9	1.4	20.5	8.0	19.7	10.8	3.5	6.0
D	38.0	6.6	3.5	0.7	4.9	3.9	1.1	17.0	9.1	4.7	1.4	21.0	8.1	20.2	11.0	3.6	6.2
E	36.3	6.6	3.4	0.7	4.9	3.8	1.1	16.6	9.1	4.9	1.4	20.5	8.0	19.7	10.8	3.5	5.9
F	36.2	6.1	3.4	0.4	4.9	3.8	1.0	15.0	8.7	4.2	0.7	19.1	7.9	16.8	11.2	2.6	4.9

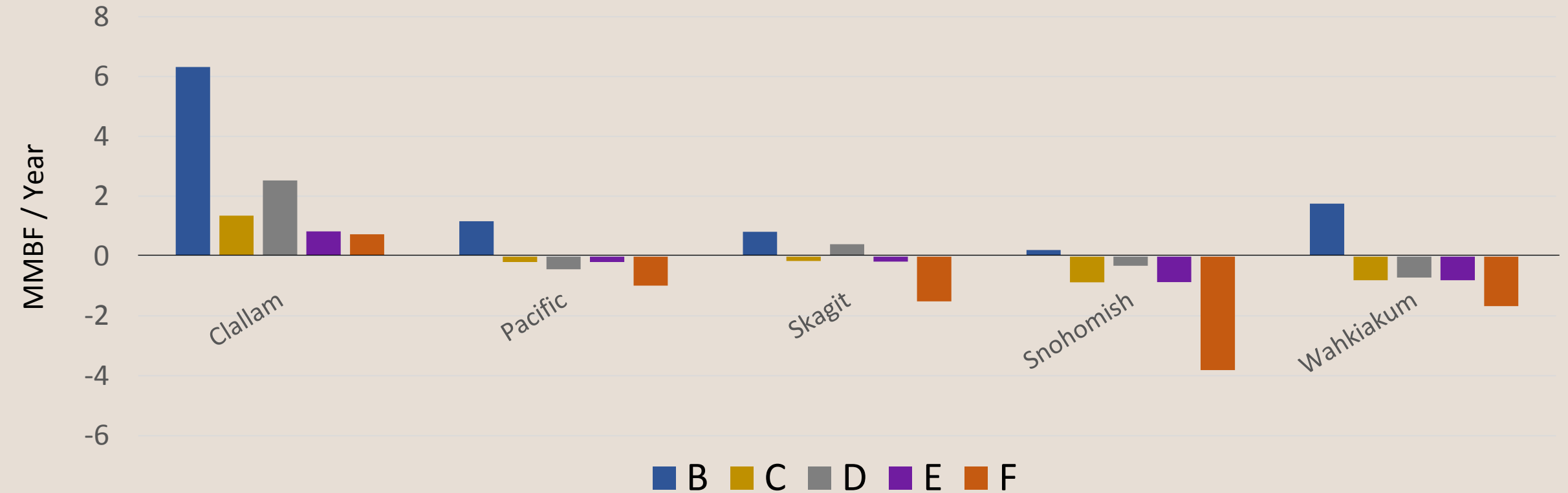


Scenario Harvest Volume (MMBF/year)

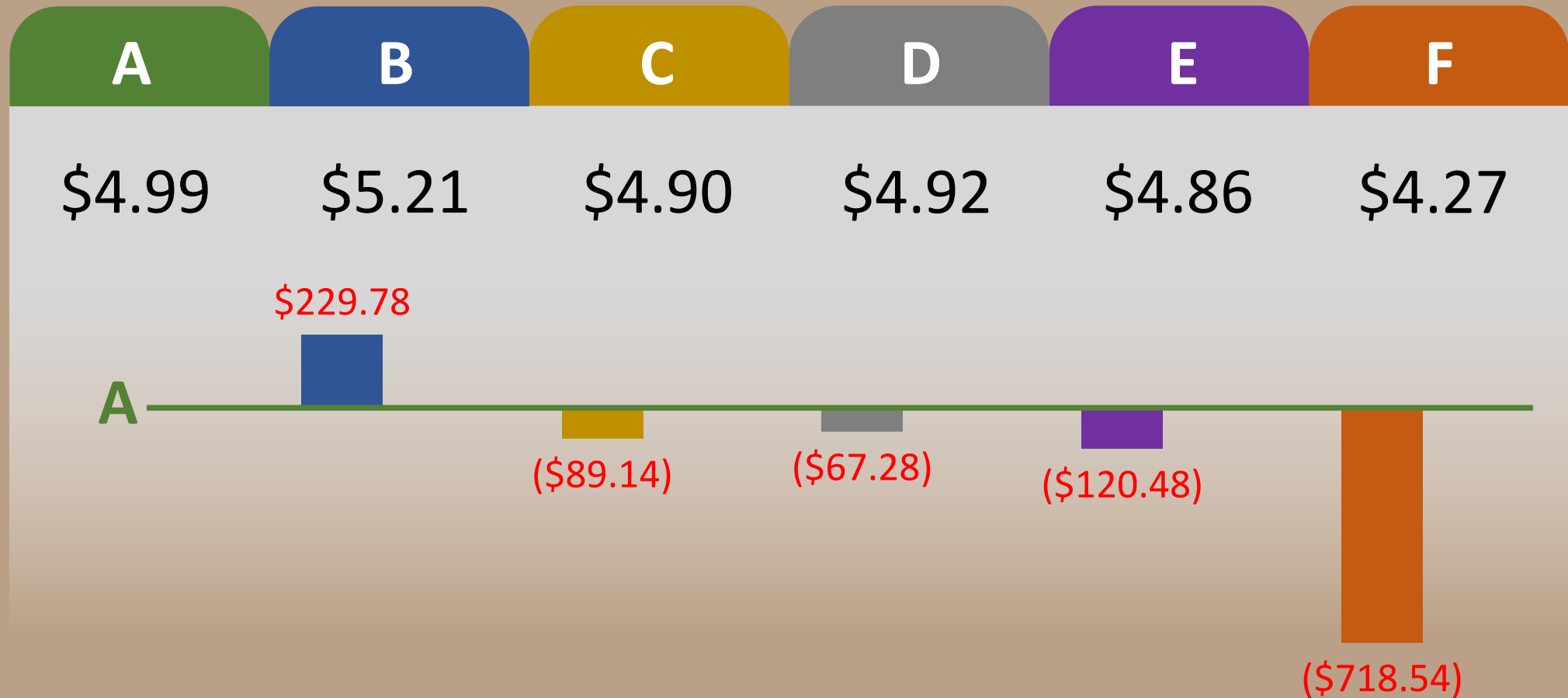
Decade 1

State Forest Transfer Lands

Showing Changes from Scenario A



Cumulative Net Present Value (Billions)



In Conclusion

This presentation was to compare murrelet scenarios by their relative effects on harvest levels.

The previous scenarios were for comparative purposes only. Those numbers should only be viewed in the context of this exercise, as further choices around the Sustainable Harvest Calculation will influence final volume levels.

