

Type 3 Watershed ID: 45
Watershed Administrative Unit: TSHLETSKY RIDGE
Percent DNR-managed: 0%

Prob. Sig. Adv. Env. Impacts

No Action: **NO**

Landscape: **NO**

METADATA:

Ownership	Acres	Stream Miles by State Lands Water Type*						
		1	2	3	4	5	9	Total
All ownerships	9,194		9.37	0.35	3.19	40.83	1.64	55.38
DNR only	71					0.46		0.46

*Source: SHARED_LM.OESF_HYDRO where WB_LLID_NR is NULL and WC_HYDR_FTR_CD in ('SC','ST','WT')

CHANNEL SENSITIVITY:

Geomorphic Input	Rating	Score	Percentile	Stream Miles by Sensitivity Rating*		
				HIGH	MODERATE	LOW
Coarse Sediment	LOW	1.41	43	1.53	14.69	26.63
Fine Sediment	MODERATE	1.62	67	13.22	0.16	29.47
Large Woody Debris	MODERATE	1.82	9	3.54	27.92	27.92
Peak Flow	LOW	1.13	24	0.55	4.44	37.86

*Sensitivity ratings derived from WDFW Salmon and Steelhead Habitat Inventory and Assessment Program (SSHIAP) data. Stream typing and extent may differ from DNR hydrography.

RIPARIAN INDICATORS:

Indicator	Acres analyzed	Alternative	Period (decades from present)									
			0	1	2	3	4	5	6	7	8	9
LWD (recruitment score)		No Action										
		Landscape										
LITTER (recruitment score)		No Action										
		Landscape										
SHADE (percent adequate)		No Action										
		Landscape										
MICROCLIMATE (percent mature)	1.0	No Action	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		Landscape	100.0	100.0	66.3	100.0	100.0	100.0	100.0	66.3	100.0	100.0
WINDTHROW (percent impacted)		No Action										
		Landscape										
PEAK FLOW (percent change)	69.9	No Action	7.0	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
		Landscape	7.0	7.0	6.9	6.9	6.8	6.8	6.8	6.9	6.9	6.8

Not all riparian indicators are evaluated for each Type 3 watershed. A given Type 3 watershed may not contain any DNR-managed Type 1-4 waters or the corresponding analysis area. For those instances where a riparian indicator is not evaluated, the corresponding table cells above and charts below are blank.

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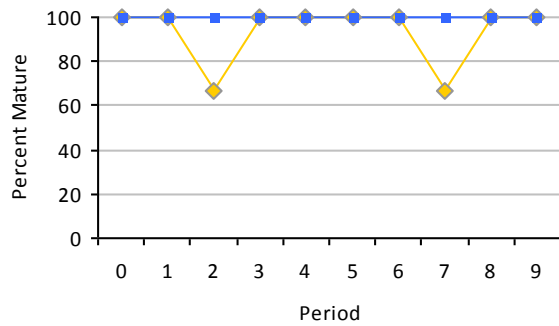
Landscape: **NO**

Large Woody Debris Recruitment

Leaf and Litter Recruitment

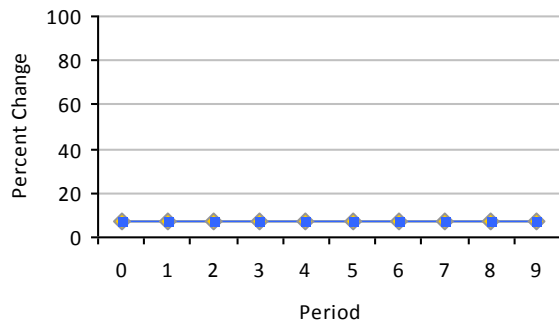
Riparian Shade

Microclimate



Windthrow

Peak Flow



— No Action — Landscape

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IMPACT ANALYSIS:

Potential impact as a percent of the theoretical maximum net potential impact

Indicator	Acres analyzed	Alternative	Period (decades from present)									NPI*
			1	2	3	4	5	6	7	8	9	
LWD		No Action										
		Landscape										
LITTER		No Action										
		Landscape										
SHADE		No Action										
		Landscape										
MICROCLIMATE	1.0	No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	33.7	0.0	0.0	0.0	0.0	33.7	0.0	0.0	7.5
WINDTHROW		No Action										
		Landscape										
PEAK FLOW	69.9	No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Net Potential Impact, averaged across all indicators	0.0	3.7
Probable, Significant, Adverse, Environmental Impact**	N	N

*The net potential impact (NPI) is the sum (net) of the modeled (potential) effects or consequences (impacts) for a given indicator. Specific to this analysis, the net potential impact only considers adverse or detrimental impacts, and is an integration (summation) of both the magnitude and duration of the impact. To facilitate comparisons across indicators, the net potential impact is reported as a percentage (ranging from 0 to 100 percent) of the theoretical maximum net potential impact.

**For the purposes of this analysis, a net potential impact in excess of ten percent of the theoretical maximum was used as a measure of probable, significant, adverse, environmental impact. The net potential impact was assessed for each indicator separately and in combination for the duration of the planning period (100-years).

Not all riparian indicators are evaluated for each Type 3 watershed. A given Type 3 watershed may not contain any DNR-managed Type 1-4 waters or the corresponding analysis area. For those instances where a riparian indicator is not evaluated, the corresponding table cells above and charts below are blank.

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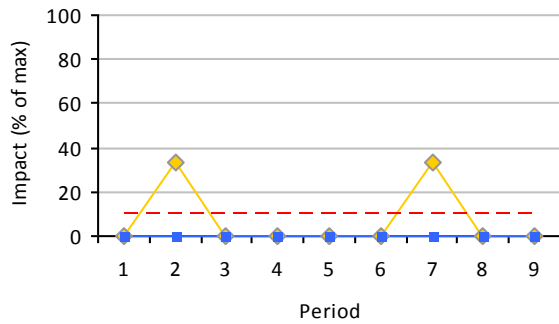
Landscape: NO

Large Woody Debris Recruitment

Leaf and Litter Recruitment

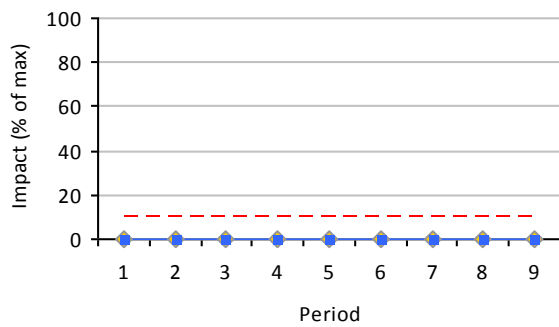
Riparian Shade

Microclimate



Windthrow

Peak Flow



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VARIABLE DENSITY THINNING ACTIVITIES (ACRES) WITHIN THE ANALYSIS AREA* FOR EACH RIPARIAN INDICATOR:

Indicator	Acres analyzed	Alternative	Period** (decades from present)										
			1	2	3	4	5	6	7	8	9	10	
LWD		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITTER		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHADE		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MICROCLIMATE	1.0	No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0
WINDTHROW		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK FLOW	69.9	No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0

* Analysis area: LWD = DNR-managed lands within 100' of Type 1-4 waters; LITTER = DNR-managed lands within 75' of Type 1-4 waters; SHADE = DNR-managed lands within 75' of Type 1-4 waters; MICROCLIMATE = DNR-managed lands within 300' of Type 1-2 waters, within 250' of Type 3 waters, and within 150' of Type 4 waters; WINDTHROW = DNR-managed lands within 150' of Type 1-2 waters and within 100' of Type 3-4 waters; PEAK FLOW = DNR-managed lands within the rain-dominated and rain-on-snow hydrologic zones.

** harvest activities are reported as a sum of activities for the preceding decade. For example, period 1 = the sum of activities during the first decade of the planning period (2010 - 2020).

Note: scale varies on following charts

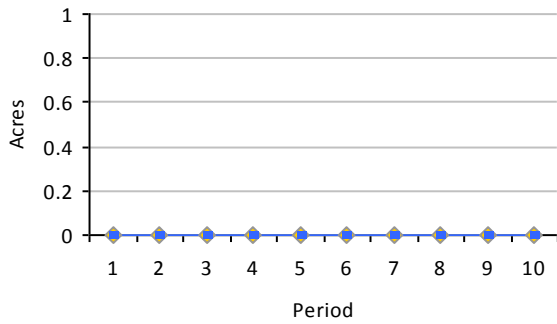
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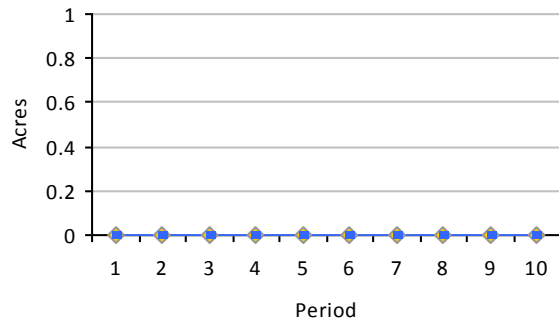
No Action: NO

Landscape: NO

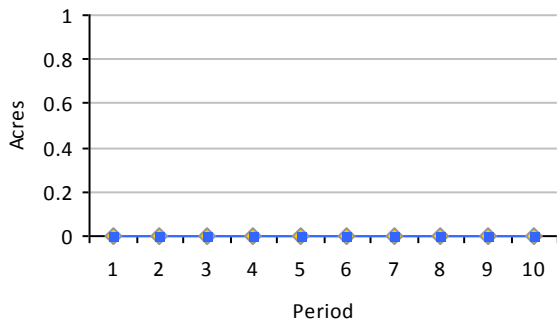
LWD: Variable Density Thinning



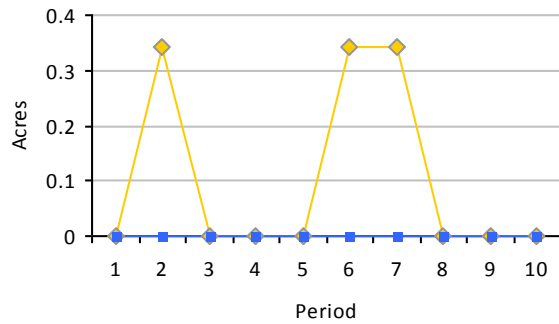
LITTER: Variable Density Thinning



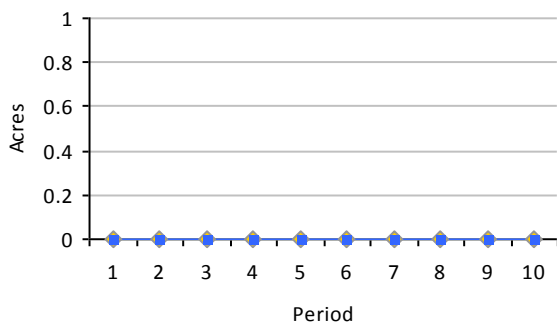
SHADE: Variable Density Thinning



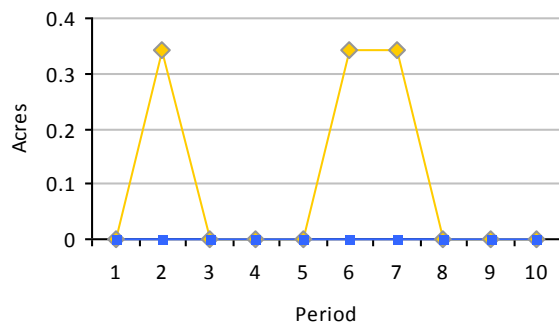
MICROCLIMATE: Variable Density Thinning



WINDTHROW: Variable Density Thinning



PEAK FLOW: Variable Density Thinning



— No Action

— Landscape

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VARIABLE RETENTION HARVEST ACTIVITIES (ACRES) WITHIN THE ANALYSIS AREA* FOR EACH RIPARIAN INDICATOR:

Indicator	Acres analyzed	Alternative	Period** (decades from present)										
			1	2	3	4	5	6	7	8	9	10	
LWD		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITTER		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHADE		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MICROCLIMATE	1.0	No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WINDTHROW		No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK FLOW	69.9	No Action	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Landscape	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* Analysis area: LWD = DNR-managed lands within 100' of Type 1-4 waters; LITTER = DNR-managed lands within 75' of Type 1-4 waters; SHADE = DNR-managed lands within 75' of Type 1-4 waters; MICROCLIMATE = DNR-managed lands within 300' of Type 1-2 waters, within 250' of Type 3 waters, and within 150' of Type 4 waters; WINDTHROW = DNR-managed lands within 150' of Type 1-2 waters and within 100' of Type 3-4 waters; PEAK FLOW = DNR-managed lands within the rain-dominated and rain-on-snow hydrologic zones.

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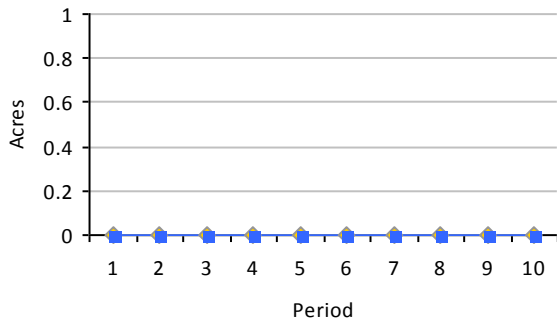
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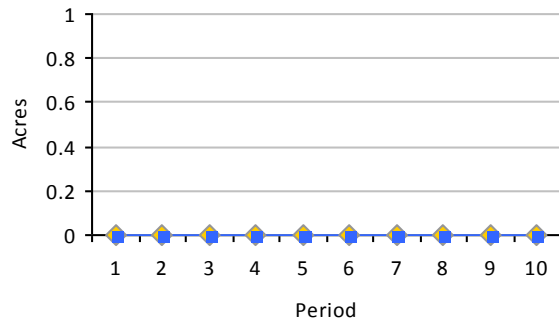
No Action: **NO**

Landscape: **NO**

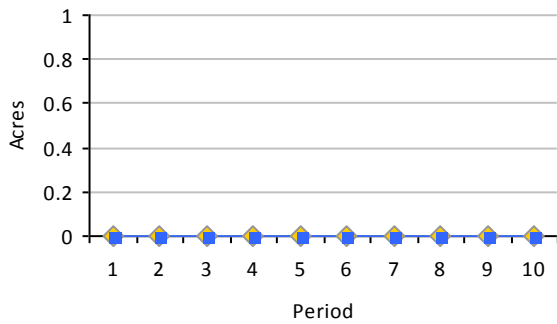
LWD: Variable Retention Harvest



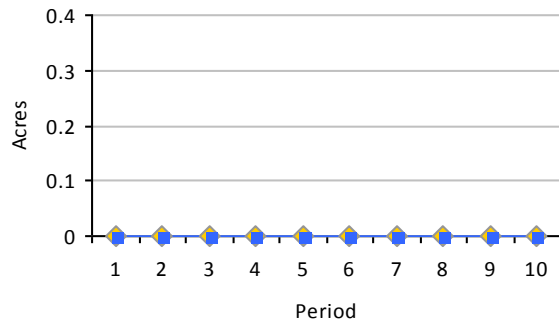
LITTER: Variable Retention Harvest



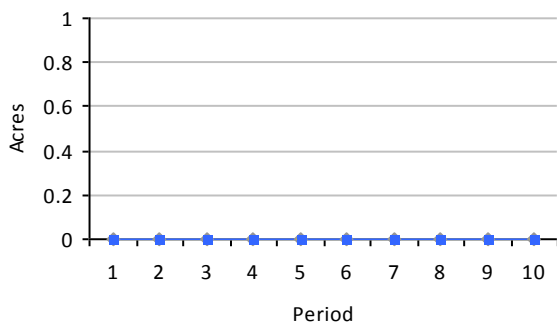
SHADE: Variable Retention Harvest



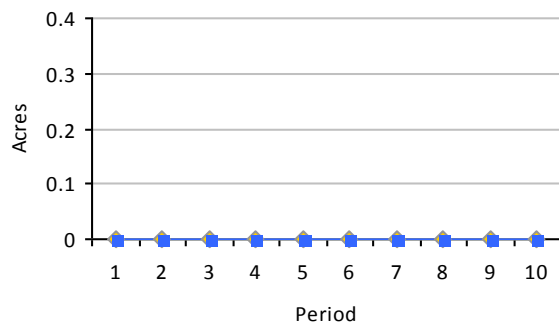
MICROCLIMATE: Variable Retention Harvest



WINDTHROW: Variable Retention Harvest



PEAK FLOW: Variable Retention Harvest



— No Action

— Landscape