

Private Lands				
<b>TY1</b> SS1	<b>TY10</b> 96% → SS 4% → DEV	TY15 50% → P 44% remains SS 2% → DEV 4% remains DEV	<b>TY30</b> 41% → P 50% remains P 3% → DEV 6% remains DEV	<b>TY45</b> $40\% \rightarrow MS$ $9\%$ remains DEV $3\% \rightarrow DEV$ $48\% \rightarrow SS1$
SS	46% → P 50% remains SS 4% → DEV	48% → P 46% remains P 2% → DEV 4% remains DEV	75% remains P 16% → MS 3% → DEV 6% remains DEV	$50\% \rightarrow MS$ $22\% \rightarrow SS1$ 9% remains DEV $3\% \rightarrow DEV$ $16\% \rightarrow SS$
P	96% remains P 4% → DEV	69% remains P 25% → MS 2% → DEV 4% remains DEV	66% → MS 25% → SS1 3% → DEV 6% remains DEV	$13\% \rightarrow SS1$ $25\% \rightarrow P$ 9% remains DEV $3\% \rightarrow DEV$ $50\% \rightarrow SS$
MS	76% remains MS 20% → SS1 4% → DEV	$20\% \rightarrow SS$ $10\% \rightarrow SS1$ 64% remains MS 4% remains DEV $2\% \rightarrow DEV$	$20\% \rightarrow P$ $30\% \rightarrow SS1$ 31% remains MS $3\% \rightarrow DEV$ 6% remains DEV $10\% \rightarrow SS$	$50\% \rightarrow P$ $18\% \rightarrow SS1$ $10\% \rightarrow M$ $10\% \rightarrow SS$ $9\%$ remains DEV $3\% \rightarrow DEV$
M	76% remains M 20% → SS1 4% → DEV	54% remains M $20\% \rightarrow SS$ $20\% \rightarrow SS1$ 4% remains DEV $2\% \rightarrow DEV$	21% remains M $10\% \rightarrow SS1$ $40\% \rightarrow P$ $3\% \rightarrow DEV$ 6% remains DEV $20\% \rightarrow SS$	$8\% \rightarrow SS1$ $30\% \rightarrow P$ $30\% \rightarrow MS$ 9% remains DEV $3\% \rightarrow DEV$ $20\% \rightarrow SS$
OG	76% remains OG 20% → SS1 4% → DEV	54% remains OG $20\% \rightarrow SS$ $20\% \rightarrow SS1$ 4% remains DEV $2\% \rightarrow DEV$	21% remains OG $10\% \rightarrow SS1$ $40\% \rightarrow P$ $3\% \rightarrow DEV$ 6% remains DEV $20\% \rightarrow SS$	$18\% \rightarrow SS1$ $30\% \rightarrow P$ $20\% \rightarrow MS$ 9% remains DEV $3\% \rightarrow DEV$ $20\% \rightarrow SS$
LP	100% remains LP	100% remains LP	100% remains LP	100% remains LP
UD	5% → UM 91% remains UD 4% → DEV	$10\% \rightarrow SS1$ 5% remains UM $2.5\% \rightarrow UM$ 78.5% remains UD	10% → SS1 10% → P 43.5% remains UD 7.5% → UM	$10\% \rightarrow SS1$ $20\% \rightarrow P$ $7.5\% \rightarrow UM$ 9% remains DEV

Private Lands	T)(10		T)/00	
TY1	TY10	<b>TY15</b> 2% → DEV 4% remains DEV	<b>TY30</b> 3% → DEV 6% remains DEV 20% → SS	<b>TY45</b> 3% → DEV 20% → SS 30.5% remains UD
YUD	46% → UD 4% → DEV 50% remains YUD	26% → UD 2% → DEV 4% remains DEV 46% remains UD 22% remains YUD	19% → UD 3% → DEV 6% remains DEV 72% remains UD	$18\% \rightarrow UM$ $50\%$ remains UD $3\% \rightarrow DEV$ $9\%$ remains DEV $10\% \rightarrow SS1$ $10\% \rightarrow SS$
UM	6% → MS 90% remains UM 4% → DEV	$8\% \rightarrow MS$ 80% remains UM 4% remains DEV $2\% \rightarrow DEV$ $3\% \rightarrow SS1$ $3\% \rightarrow SS$	$17\% \rightarrow MS$ $3\% \rightarrow DEV$ $6\%$ remains DEV $6\% \rightarrow P$ $40\%$ remains UM $10\% \rightarrow SS1$ $18\% \rightarrow SS$	$37\% \rightarrow MS$ $3\% \rightarrow DEV$ $9\%$ remains DEV $21\% \rightarrow SS$ $10\% \rightarrow P$ $10\% \rightarrow SS1$ $10\% \rightarrow UM$
RS	100% remains RS	100% remains RS	100% remains RS	100% remains RS
YRM	100% remains YRM	100% remains YRM	100% remains YRM	100% remains YRM
RD	100% remains RD	100% remains RD	50% remains RD 50% → RM	50% remains RM 50% → RM
RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM
AG	96% remains AG 4% → DEV	94% remains AG 2% → DEV 4% remains DEV	91% remains AG 3% → DEV 6% remains DEV	88% remains AG 3% → DEV 9% remains DEV
SH	100% remains SH	100% remains SH	100% remains SH	100% remains SH

0.21% annual development rate in young to mid-successional upland cover types Based on 1963-2001 changes along river below Merwin Dam on 2/20/02, the HEP Team decided to double the development rate in TY10 and TY15 from 2 to 4% in TY10 and from 2 to 3% in TY15 to account for the expected high development pressure over the first 15 years of the license

Non- TY1 SS1	Merwin Utility Lands TY10 100% → SS	<b>TY15</b> 50% → P 50% remains SS	<b>TY30</b> 50% → P 50% remains P	<b>TY45</b> 100% → MS
SS	50% → P 50% remains SS	50% → P 50% remains P	75% remains P 25% → MS	75% → MS 25% remains MS
Р	100% remains P	75% remains P 25% → MS	75% → MS 25% remains MS	100% remains MS
MS	100% remains MS	100% remains MS	50% → M 100% remains MS	10% → M 90% remains MS
M	100% remains M	100% remains M	100% remains M	5% → OG 95% remains M
OG	100% remains OG	100% remains OG	100% remains OG	100% remains OG
UD	5% → UM 95% remains UD	2.5% → UM 5% remains UM 92.5% remains UD	7.5% → UM 7.5% remains UM 85% remains UD	7.5% → UM 7.5% → MS 7.5% remains UM 77.5% remains UD
YUD	50% → UD 50% remains YUD	25% → UD 50% remains UD 25% remains YUD	25% → UD 75% remains UD	50% → UM 50% remains UD
YUM	50% → UM 50% remains YUM	25% → UM 50% remains UM 25% remains YUM	25% → UM 75% remains UM	100% remains UM
UM	10% → MS 90% remains UM	10% → MS 80% remains UM 10% remains MS	30% → MS 50% remains UM 20% remains MS	$30\% \rightarrow MS$ 20% remains UM 40% remains MS $10\% \rightarrow M$
RS	100% remains RS	100% remains RS	100% remains RS	100% remains RS
YRM	100% remains YRM	100% remains YRM	100% remains YRM	100% remains YRM
RD	100% remains RD	100% remains RD	50% remains RD 50% → RM	50% remains RM 50% → RM
RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM

## **Merwin Lands**

Clearcuts and thinning planned for 2002 and 2003 will be added so that the TY0 acreages are up-to-date

Clearcuts and thinning planned in years beyond 2003 will be used to adjust acreage in TY10, TY15, TY 30, and TY45

All other successional changes will be the same as for Non-Merwin utility lands except for the following:

	TY15	TY30	TY45
MS-t created in TY10	100% remains MS-t	50% → M 50% remains MS-t	50% → M 50% remains M
MS-t created in TY15		100% remains MS-t	50% → M 50% remains MS-t
MS-t created in TY30			100% remains MS-t
P-t created in TY10	100% remains P-t	$50\% \rightarrow MS$ 50% remains P-t	50% → MS 50% remains MS
P-t created in TY15		50% → MS 50% remains P-t	50% → MS 50% remains MS
P-t created in TY30			50% → MS 50% remains P-t

DNR	Lands			
	TY10	TY15	TY30	TY45
SS1	100% → SS	50% → P	50% → P	90% → MS
		50% remains SS	50% remains P	10% → SS1
SS	50% → P	50% → P	75% remains P	75% → MS
	50% remains SS	50% remains P	$25\% \rightarrow MS$	$25\% \rightarrow SS1$
<b>D</b>	000/ manaina D	700/ namaina D	500/ MC	E00/ . CC4
Р	90% remains P 10% → MS	70% remains P 20% → MS	$50\% \rightarrow MS$ $20\% \rightarrow SS1$	$50\% \rightarrow SS1$ $20\% \rightarrow P$
	10 /0 → IVIS	$10\% \rightarrow \text{NIS}$ $10\% \rightarrow \text{SS1}$	$10\% \rightarrow P$	$10\% \rightarrow MS$
		10 /0 -> 331	$20\% \rightarrow SS$	$20\% \rightarrow SS$
			2070 7 00	2070 7 00
MS	50% remains MS	$50\% \rightarrow SS$	$50\% \rightarrow P$	$50\% \rightarrow SS1$
	50% → SS1	25% → SS1	15% → SS1	15% → P
		25% remains MS	25% → P	$25\% \rightarrow MS$
			10% → SS	10% → SS
М	50% remains M	25% remains M	$25\% \rightarrow MS$	15% → SS1
•••	50% → SS1	50% → SS	15% → SS1	25% → P
		25% → SS1	50% → P	$50\% \rightarrow MS$
			$10\% \rightarrow SS$	$10\% \rightarrow SS$
00	EOO/ romains OC	OFO/ remains OC	250/ MC	4E0/ . CC4
OG	50% remains OG 50% → SS1	25% remains OG 50% → SS	25% → MS 15% → SS1	$15\% \rightarrow SS1$ $25\% \rightarrow P$
	30 /0 → 33 I	25% → SS1	50% → P	$50\% \rightarrow MS$
		2070 7 001	10% → SS	10% → SS
			10,0 , 00	10,70 / 00
UD	5%  o UM	$10\% \rightarrow SS1$	$20\% \rightarrow SS1$	$20\% \rightarrow SS1$
	95% remains UD	5% remains UM	10% → P	30% → P
		2.5% → UM	52.5% remains UD	7.5% → UM
		82.5% remains UD		20% → SS
			10% → SS	22.5% remains UD
YUD	50% → UD	25% → UD	25% → UD	25% → UM
	50% remains YUD	50% remains UD	75% remains UD	50% remains UD
		25% remains YUD		15% → SS1
				$10\% \rightarrow SS$
UM	10% → MS	10% → MS	40% → MS	20% → SS
JIVI	90% remains UM	80% remains UM	$10\% \rightarrow \text{NIS}$ $10\% \rightarrow \text{SS1}$	20% → SS1
	55 /6 TOTTIGHTIO OW	10% → SS1	10% → P	10% → P
			40% remains UM	40% remains UM
DC	4000/ mana = in = DC	1000/	4000/ magazine DO	4000/ mans = its = 50
RS	100% remains RS	100% remains RS	100% remains RS	100% remains RS

DNR I	Lands
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	TY10 100% remains YRM	TY15 100% remains YRM	<b>TY30</b> 1100% remains YRM	TY45 100% remains YRM
RD	100% remains RD	100% remains RD	50% remains RD 50% → RM	50% remains RM 50% → RM
RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM
SH	100% remains SH	100% remains SH	100% remains SH	100% remains SH

USFS Lands				
TY1 SS	<b>TY10</b> 50% → P 50% remains SS	<b>TY15</b> 50% → P 50% remains P	TY30 100% remains P	<b>TY45</b> 100% → MS
Р	100% remains P	100% remains P	50% → MS 50% remains P	50% → MS 50% remains MS
MS	100% remains MS	100% remains MS	50% → M 50% remains MS	50% → M 50% remains M
M	100% remains M	100% remains M	100% remains M	50% → OG 50% remains M
OG	100% remains OG	100% remains OG	100% remains OG	100% remains OG
UD	5% → UM 95% remains UD	2.5% → UM 5% remains UM 92.5% remains UD	7.5% → UM 7.5% remains UM 85% remains UD	7.5% → UM 77.5% remains UD 15% remains UM
UM	10% → MS 90% remains UM	10% → MS 80% remains UM 10% remains MS	30% → MS 50% remains UM 20% remains MS	$30\% \rightarrow MS$ 20% remains UM 40% remains MS $10\% \rightarrow M$
RS	100% remains RS	100% remains RS	100% remains RS	100% remains RS
RD	100% remains RD	100% remains RD	50% remains RD 50% → RM	50% remains RM 50% → RM
RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM
SH	100% remains SH	100% remains SH	100% remains SH	100% remains SH

**Table 1.** Acreage changes in cover types on utility-owned lands with and without harvest as a management tool<sup>1,2</sup>.

TY1	Y10		TY15		TY		TY	45
	With Harvest	W/Out	With Harvest	W/Out	With Harvest	W/Out	With Harvest	Without Harvest
		Harvest		Harvest		Harvest		
MS	5%→MS-t	100%	2.5%→SS1	100%	3.75%→ SS1	100%→MS	3.75% →SS1	10%→M
	2.5%→SS1	remains MS	2.5% (SS1)→SS	remains MS	3.75%→SS		3.75% →SS	90% remains MS
	2.5%→SS		2.5%→MS-t		7.5%→MS-t		$7.5\% \rightarrow MS-t$	
	90% remains MS		5% remains MS-t		5% (SS1/SS)→P		10%→M	
			87.5% remains MS		7.5% remains		7.5% (SS1/SS)→P	
					MS-t		7.5% remains P	
					72.5% remains		15% remains MS-t	
					MS		45% remains MS	
MS-t	2.5%→SS1	100%	1.25%→SS1	100%	3.75%→ SS1	100%→MS	3.75% →SS1	10%→M
	2.5%→SS	remains MS-t	1.25%→SS	remains MS-t	3.75% →SS	(Merwin only)	3.75% →SS	90% remains MS
	95% remains	(Merwin	2.5% remains SS	(Merwin	5% (SS1/SS)→P		$7.5\% (SS1/SS) \rightarrow P$	(Merwin only)
	MS-t	only)	95% remains MS-t	only)	87.5%→MS-t		$5\% (P) \rightarrow P-t$	
							10%→M	
							70% remains MS-t	
P	5%→P-t	100%	$2.5\% \rightarrow P-t$	25%→MS	7.5% (P-t)→MS	75%→MS	3.75% (MS)→SS	100% remains
	95% remains P	remains P	25%→MS	75% remains	3.75%	25% remains	3.75% (MS)→SS1	MS
			5% remains P-t	P	(MS)→SS1	MS	7.5% (MS)→MS-t	
			67.5%→remains P		3.75% (MS)→SS		3.75% (SS1)→P	
					7.5%		3.75% (SS)→P	
					$(MS) \rightarrow MS - t$		7.5% remains MS-t	
					67.5%→MS		70% remains MS	
CC	500/ P	700/ D	500/ D	500/ D	10% remains MS	250/ 140	2.750/ (2.60)	7.50/ 1.60
SS	50%→P	50%→P	50%→P	50%→P	25%→MS	25%→MS	3.75% (MS)→SS1	75%→MS
	50% remains SS	50% remains	2.5%→P-t	50% remains	7.5%→P-t	75% remains P	3.75% (MS)→SS	25% remains MS
		SS	47.5% remains P	P	67.5% remains P		$7.5\% (MS) \rightarrow MS-t$	
							7.5% (P-t)→MS 47.5%→MS	
							30% remains MS	
SS1	100%→SS	100%→SS	50%→P	50%→P	7.5%→P-t	50%→P	7.5%→MS-t	100%→MS
331	100/0-33	100/0→33	50%→P 50% remains SS	50% remains	$\begin{array}{c} 7.3\% \rightarrow P - t \\ 50\% \rightarrow P \end{array}$	50% remains P	7.5%→MS-t 92.5%→MS	100/0-1013
			50/0 ICHIAHIS SS	SS Tellianis	30%→F 42.5% remains P	50/0 ICIIIaiiis F	94.5/0→WIS	
			<u> </u>	<b>88</b>	72.3/0 ICIIIailis P			

TY1	Y10	)	TY15		TY	30	TY	45
	With Harvest	W/Out Harvest	With Harvest	W/Out Harvest	With Harvest	W/Out Harvest	With Harvest	Without Harvest
UM	2.5%→SS 2.5%→SS1 10%→MS 5%→UM-t 80% remains UM	10%→MS 90% remains UM	1.25%→SS1 1.25%→SS 2.5% (SS1)→SS 2.5% (SS)→P 10%→MS 2.5%→UM-t 10% remains MS 5% remains UM-t 65% remains UM	10%→MS 10% remains MS 80% remains UM	3.75%→SS1 3.75%→SS 5% (SS1/SS)→P 2.5% remains P 7.5% (MS)→MS-t 40%→MS 7.5%→UM-t 12.5% remains MS 7.5 % remains UM-t 10% remains UM	40%→MS 20% remains MS 40% remains UM	3.75%→SS1 3.75%→SS 2.5%→MS 15% (UM-t)→MS 3.75% (MS)→SS1 3.75% (MS)→MS-t 37.5% remains MS 7.5% remains MS-t 7.5% (SS/SS1)→P 7.5% remains P	40%→MS 60% remains MS
UD	10%→SS1 10%→SS 5%→UM 75% remains UD	5%→UM 95% remains UD	10% → SS1 10% (SS1)→SS 10%→P 2.5%→UM 2.5% (UM)→UM-t 2.5% remains UM 62.5% remains UD	2.5%→UM 5% remains UM 92.5% remains UD	15%→SS1 15%→SS 7.5%→UM 20% (SS1/SS)→P 7.5% (P)→P-t 2.5% remains P 2.5% remains UM-t 2.5% (UM)→UM-t 2.5% remains UM 2.5% remains	7.5%→UM 7.5 % remains UM 85% remains UD	10%→SS1 15%→SS 5% (UM-t)→SS 10% (UM)→MS 30% (SS/SS1)→P 7.5% (P)→P-t 7.5% remains P-t 15% remains P	7.5%→UM 15% remains UM 77.5% remains UD
RD	100% remains RD	100% remains RD	100% remains RD	100% remains RD	50% remains RD 50%→RM	50% remains RD 50%→RM	50% remains RM 50%→RM	50% remains RM 50%→RM
RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM	100% remains RM change tree/snag SIs	100% remains RM

Cover types in parentheses are shown for tracking purposes only. For example, for Upland Mixed Forest (UD), 10% →MS means that 20% of the UM converts to MS. 7.5% (MS)→SS1 means that 7.5% of the UM that had been converted to MS in a previous target year, is now being clearcut and moved to SS1.

Assumes the same successional changes as the base case.