

## **Surface Treatments Summary**



## **Selection of Treatment based on Distress**

Severity	Chip	Scrub			Mill &	
Level	Seal	Seal	Microsurfacing	Thinlay	Overlay	Reconstruct
Low			X	х		
Medium			X	х		
High					X	X
Low	х	Х	X	х		
Medium				х	X	
High					X	X
Low		Х	X	х		
Medium				х	X	
High					X	X
Low	Х	Х	X	х		
Medium		Х		х		
High					X	X
Low	Х	Х	X	х		
Medium	Х	Х	X	х		
High				х	X	
NA					Х	
NA	Х	Х	X	х	X	
	Level Low Medium High Low Medium High Low Medium High Low Medium High Low Medium High Low	LevelSealLow	LevelSealSealLow	LevelSealSealMicrosurfacingLowXXXMediumXXHighXXLowXXMediumImage: SealImage: SealHighXXMediumXXHighImage: SealImage: SealLowXXMediumXXHighImage: SealImage: SealLowXXMediumXXHighImage: SealImage: SealLowXXMediumXXHighImage: SealImage: SealLowXXXHighImage: SealImage: SealNAImage: SealImage: SealNAImage: SealImage: Seal	LevelSealSealMicrosurfacingThinlayLowXXXMediumXXXHighXXXLowXXXMediumXXXMighXXXLowXXXMediumXXXHighXXXLowXXXMediumXXXHighXXXLowXXXHighXXXHighXXXHighXXXHighXXXHighXXXHighXXXHighXXXNAIII	LevelSealSealMicrosurfacingThinlayOverlayLowXXXXXMediumXXXXXHighXXXXXLowXXXXXMediumXXXXXHighXXXXXHighXXXXXLowXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXHighXXXXXNAXXXXX



Sources: NAPA IS 135, Fahrner Asphalt Sealers

## **Estimated Life Extension**

	Good Condition	Fair Condition	Poor Condition	
Treatment	(PASER Rating 7 or more)	(PASER Rating 5-6)	(PASER Rating 4 or less)	
Thin Overlay > 1"	10-14 years	9-12 years	4-6 years	
Thin Overlay < 1"	8-12 years	7-10 years	2-4 years	
Microsurfacing	6-8 years	4-6 years	2-4 years	
Chip Seal	4-5 years	3-4 years	1-3 years	
Scrub Seal	N/A	5-7 years	3-5 years	
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Sources: Transportation Information Center, Fahrner Asphalt Sealers

## **Approximate Cost of Treatments**

Treatment	Cost Per Mile	Cost Per Square Yard	Annualized Cost (\$/SY/YR)
Chip Seal	\$18,000 - \$27,000	\$1.40 - \$2.10	0.39
Chip Seal (w/ Fog)	\$22,000 - \$31,000	\$1.70 - \$2.40	0.41
Scrub Seal	\$21,000 - \$38,000	\$1.60 - \$3.00	0.31
Microsurfacing	\$29,000 - \$39,000	\$2.25 - \$3.00	0.38
Thin Overlay < 1"	\$32,000 - \$52,000	\$2.50 - \$4.00	0.33
Thin Overlay > 1"	\$43,000 - \$65,000	\$3.30 - \$5.00	0.35

• 1 miles of road = 5280 (length) X 22 (width) = 12907 SY

\*numbers above are for single application layer

\*\*numbers above do not include crack filling, milling, patching, paint removal, pavement markings, etc.



3/20/18 Sources: Transportation Information Center, Fahrner Asphalt Sealers