

Road Profiler User's Group

Practitioners' Review of Smoothness Incentive Programs



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How profiler systems affect IRI values
and the incentive program

Transverse Tined CRCP



Transverse Tined CRCP



VDOT Ride Spec

IRI Value	Incentive
45.0 and Under	105%
45.1-55.0	103%
55.1-70.0	100%
70.1-80.0	90%
80.1-90.0	80%
90.1-100.0	70%
Over 100.1	Corrective Action Required
Segment Length	52.8'

Preliminary Test Results

Incentive	Number of Segments	% of Total Segments
105%	8	1
103%	54	6
100%	276	33
90%	181	22
80%	121	14
70%	78	9
Correct	118	8
Average IRI Value	81	

Diamond Grinding



Single Point Laser System

Incentive	Number of 52.8' Segments	% of Total Segments
105%	57	6
103%	219	23
100%	435	46
90%	164	18
80%	49	5
70%	16	2

Average IRI Value 66

Roline Laser System

Incentive	Number of 52.8' Segments	% of Total Segments
105%	864	92
103%	57	6
100%	18	2
90%	1	0.1
80%	0	0
70%	0	0

Average IRI Value 34

Single Point vs. Roline

Incentive	Single Point	Roline
105%	57	864
103%	219	57
100%	435	18
90%	164	1
80%	49	
70%	16	