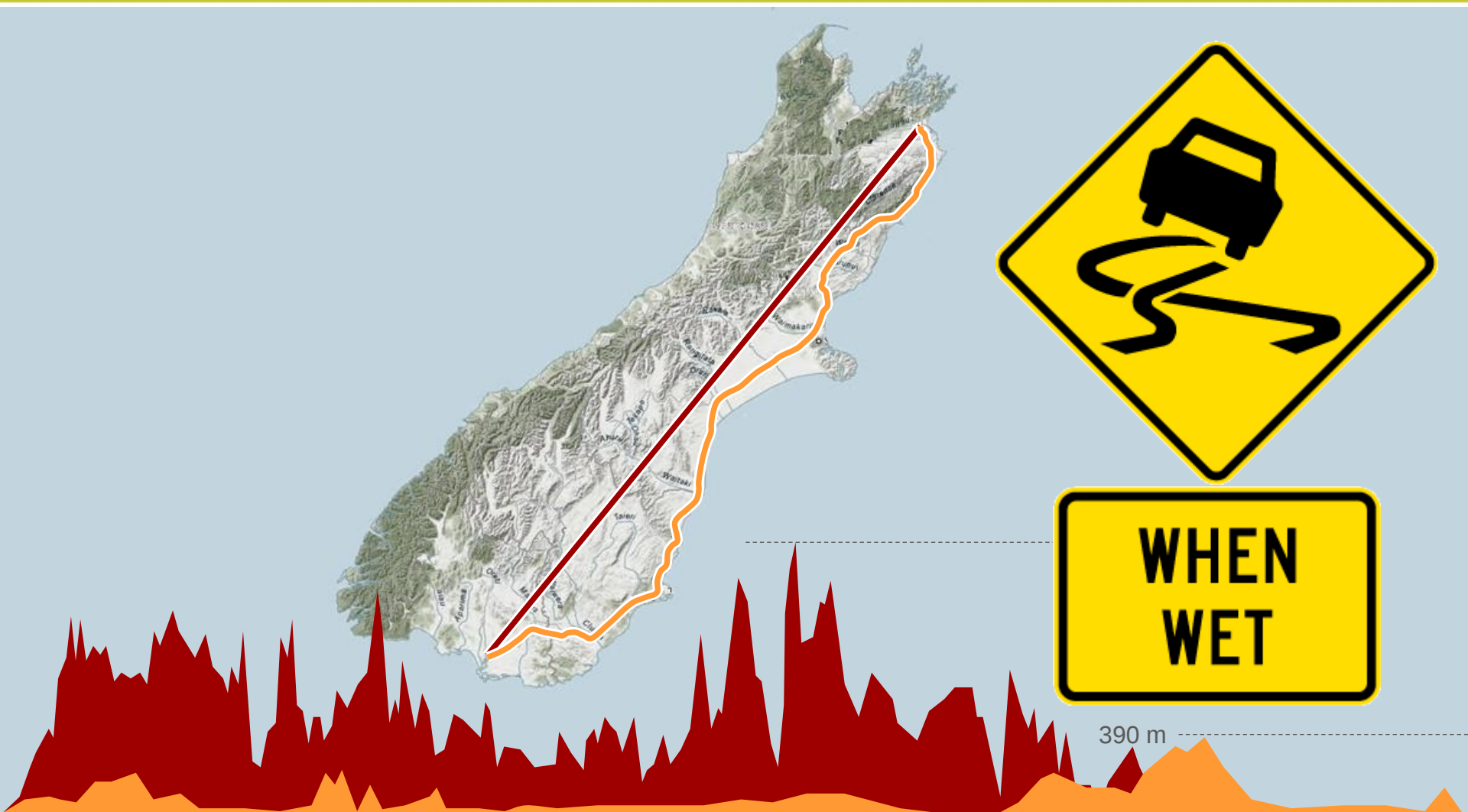


State highway curve crashes and skid resistance

Peter Cenek
Robert Henderson
John Donbavand (NZ Transport Agency)
Tiffany Lester (presenter)

Curves



Skid resistance

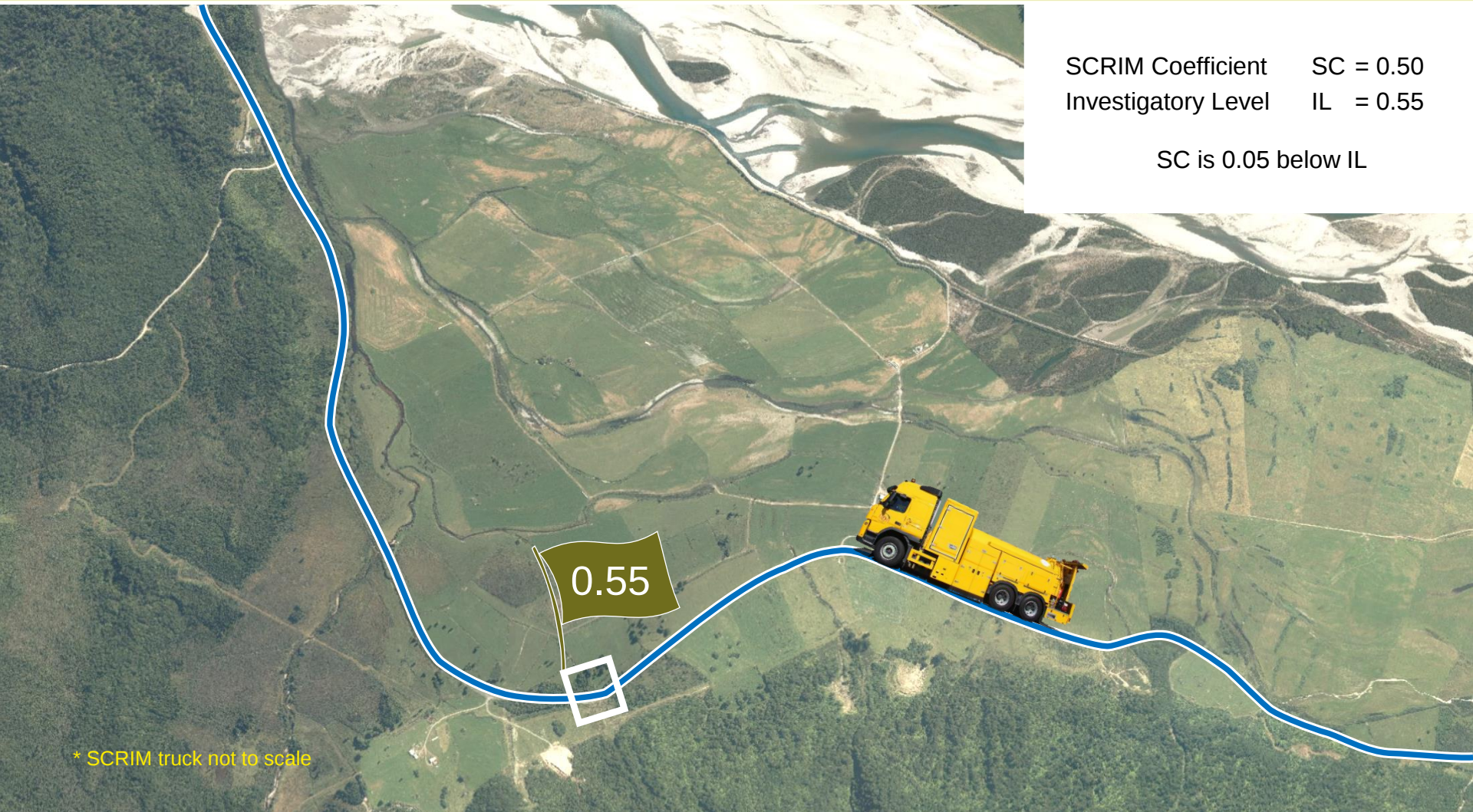
Adapted from Table 1. Skid resistance investigatory levels from NZTA T10: 2013

	Skid site description	Investigatory Level (IL), units SC					
		0.35	0.40	0.45	0.50	0.55	0.60
1	Approaches to: a) Railway level crossings b) Traffic signals c) Pedestrian crossings d) Stop and Give Way controlled intersections (for state highway traffic) e) Roundabouts One lane bridges: a) Approaches and bridge deck						
2	a) Urban curves <250 m radius						
	b) Rural curves < 250 m radius			L	M	H	
	c) Rural curves 250 - 400 m radius		L	L	M	H	
	a) Down gradients > 10 % b) On ramps with ramp metering						
3	a) State highway approach to a local road junction b) Down gradients 5 – 10 % c) Motorway junction area including on/off ramps d) Roundabouts, circular section only						
4	Undivided carriageway (event-free)						
5	Divided carriageway (event-free)						

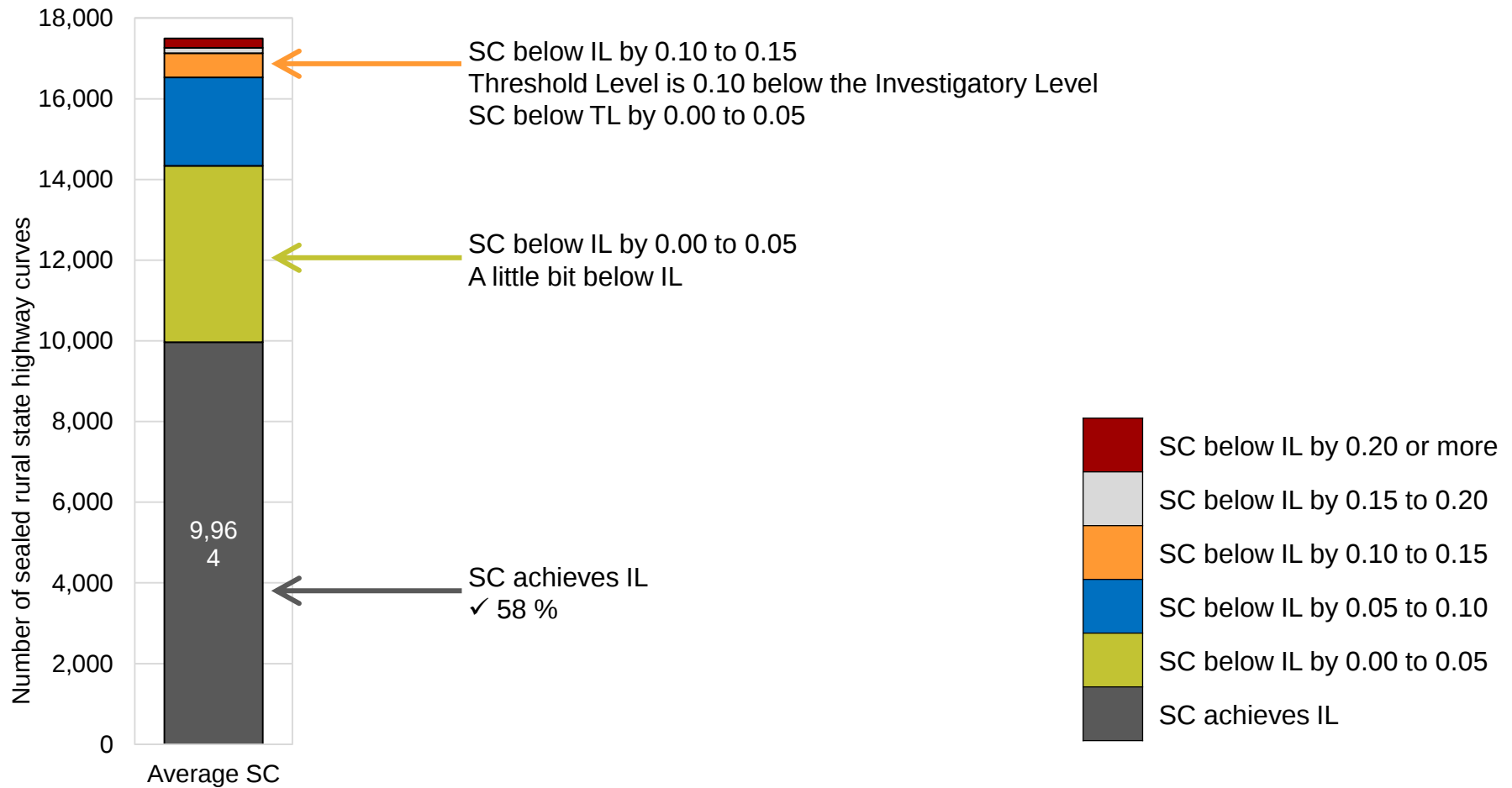
Skid Resistance



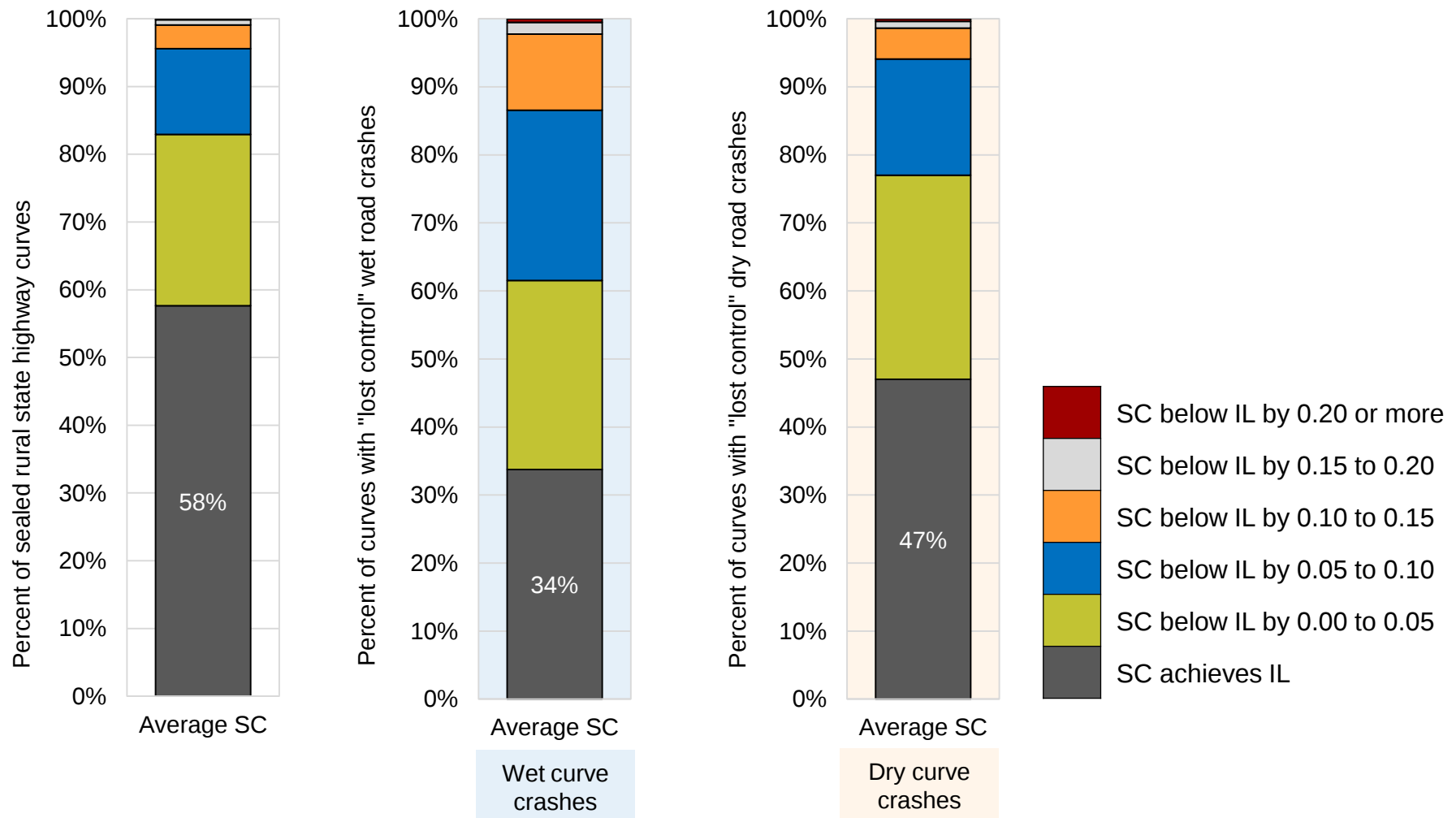
Skid resistance



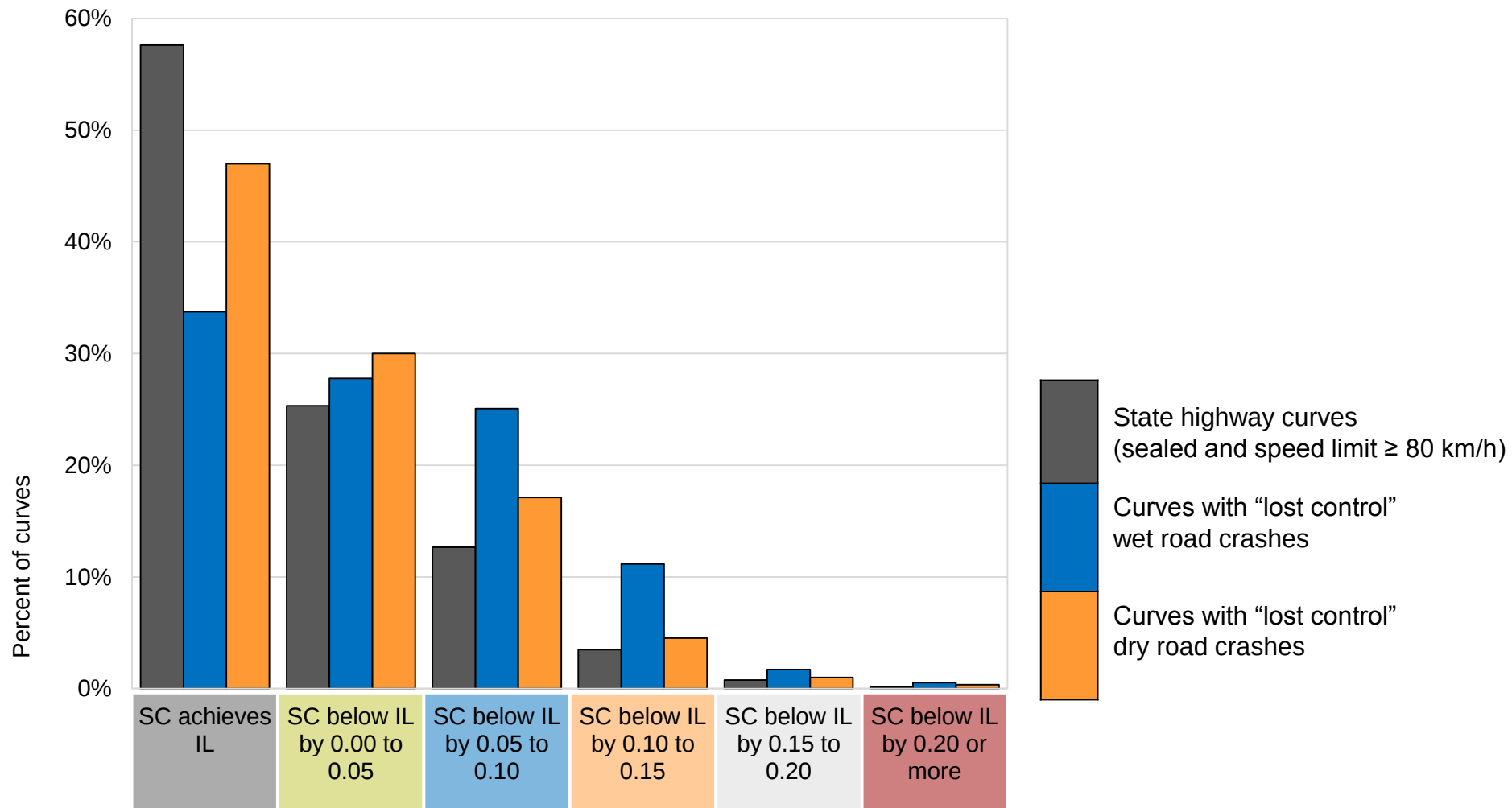
State highway curves and skid resistance



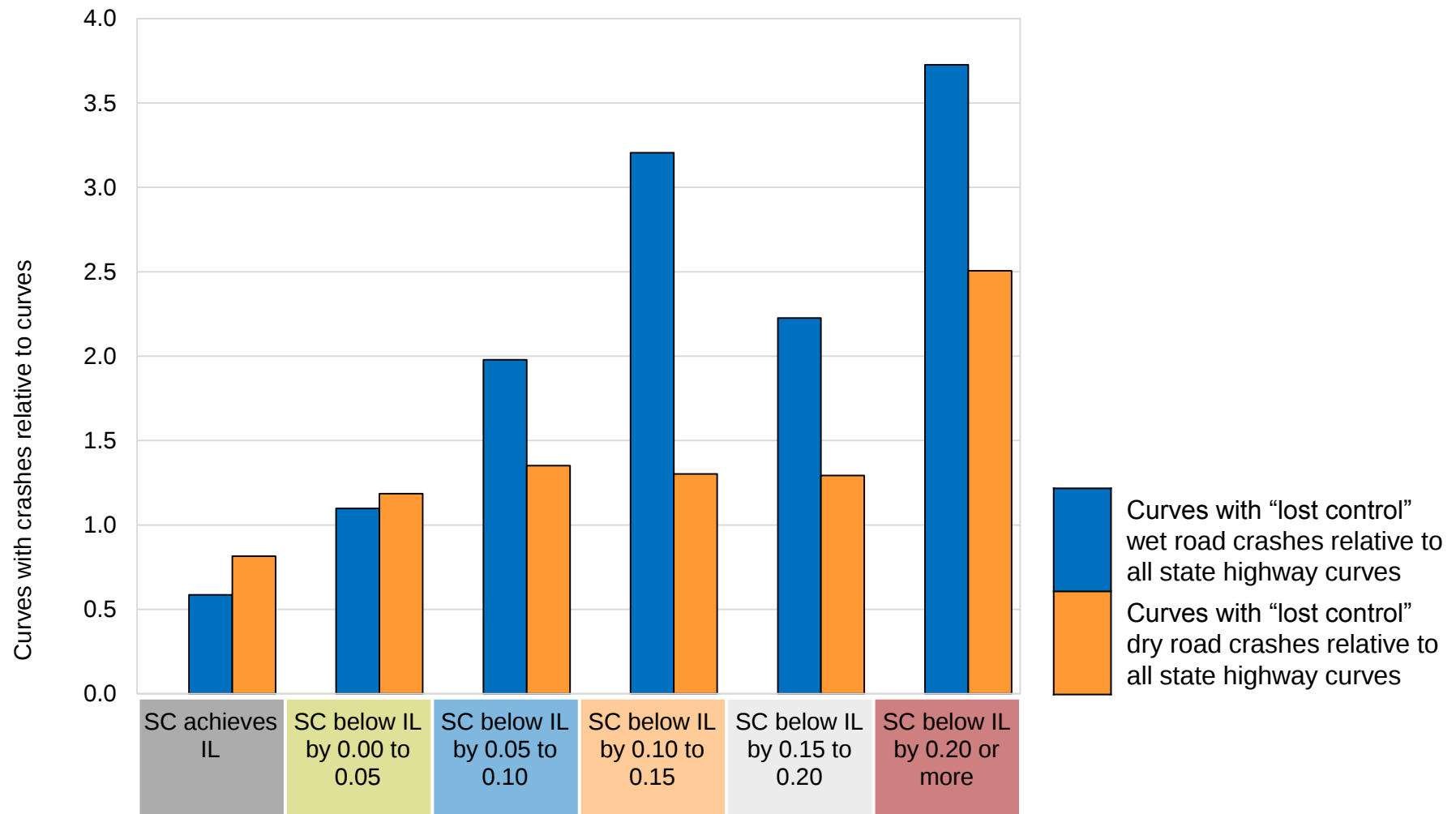
Curves with crashes and skid resistance



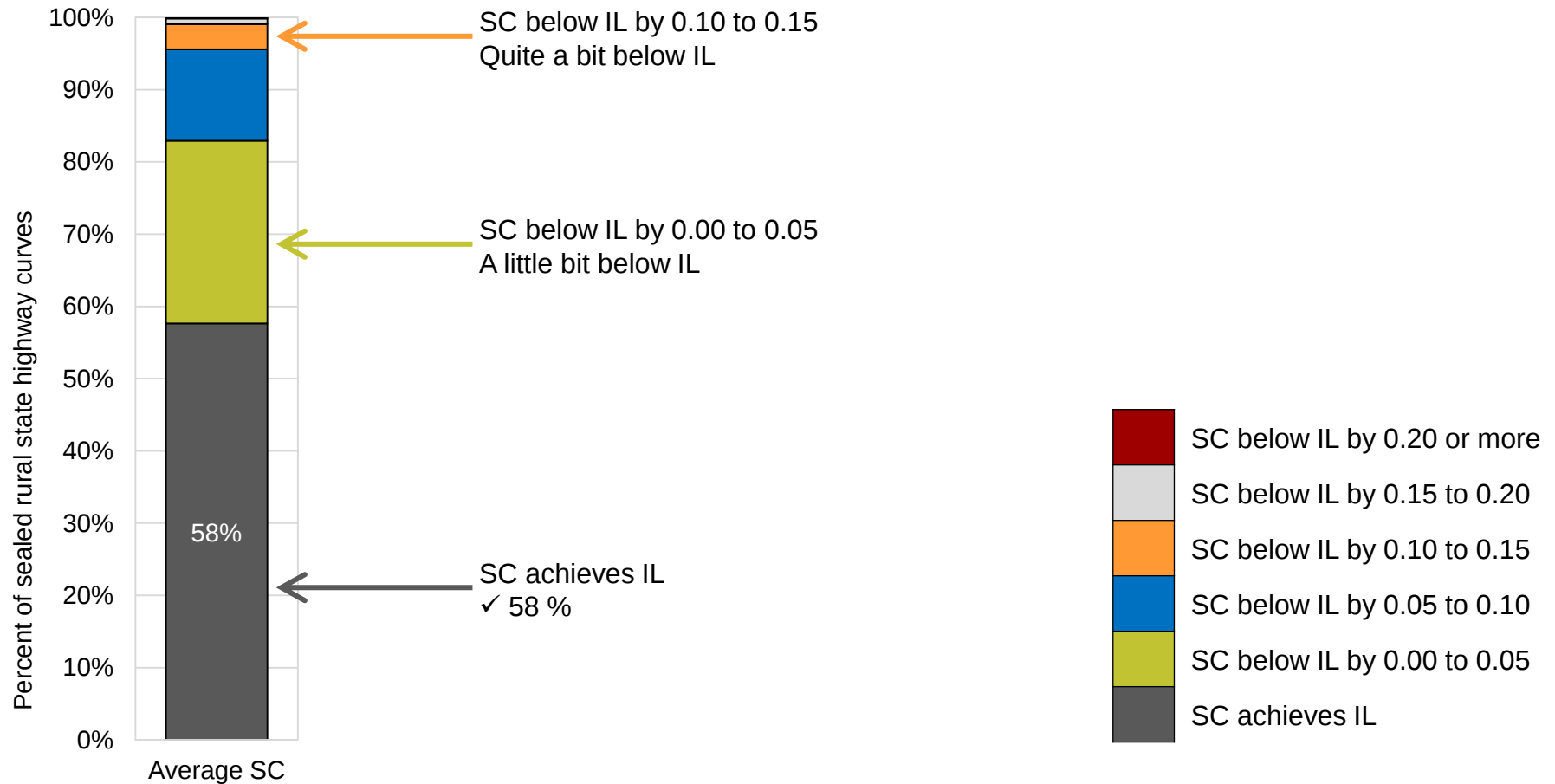
Curves with crashes and skid resistance



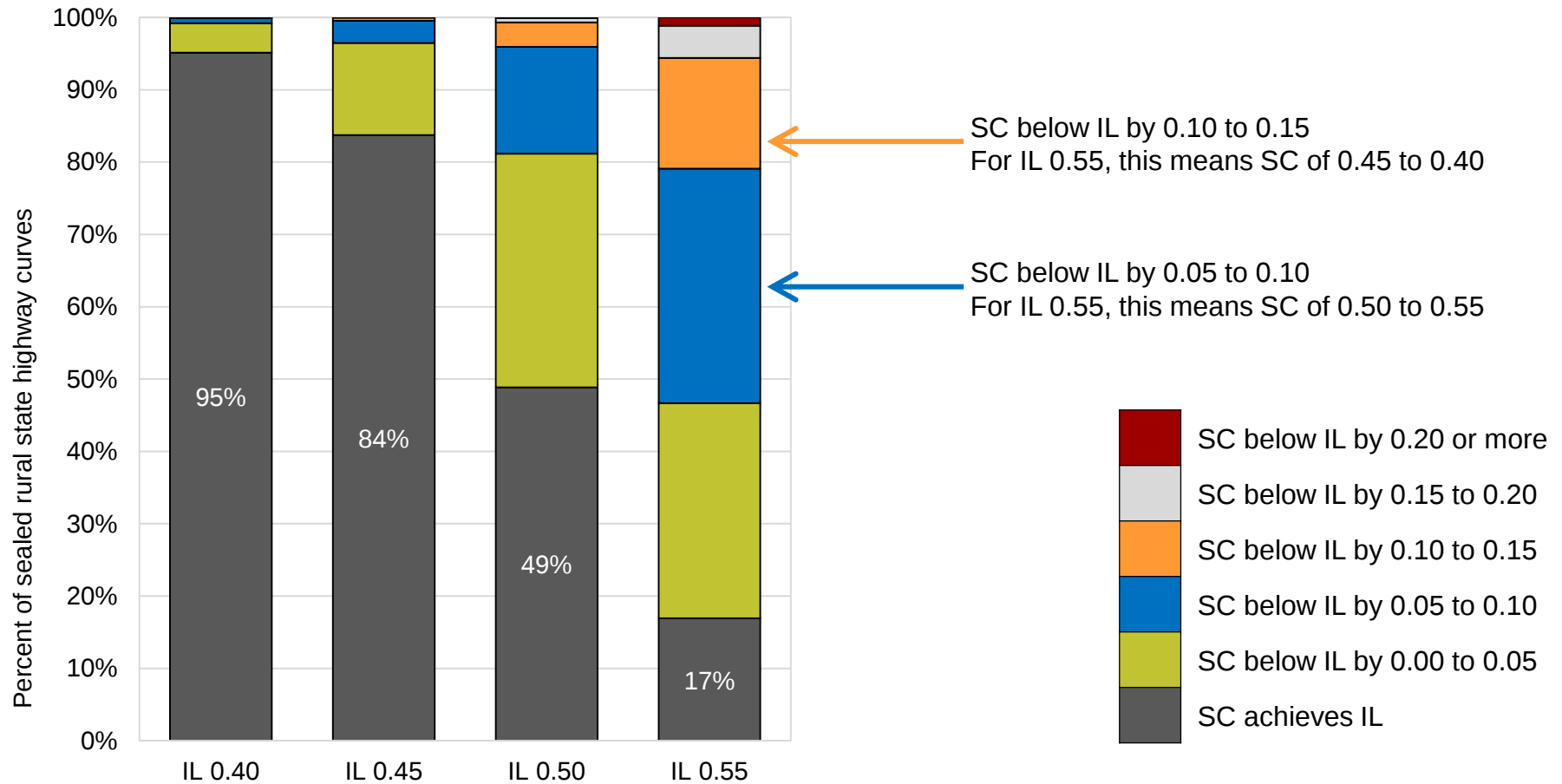
Curves with crashes relative to all curves



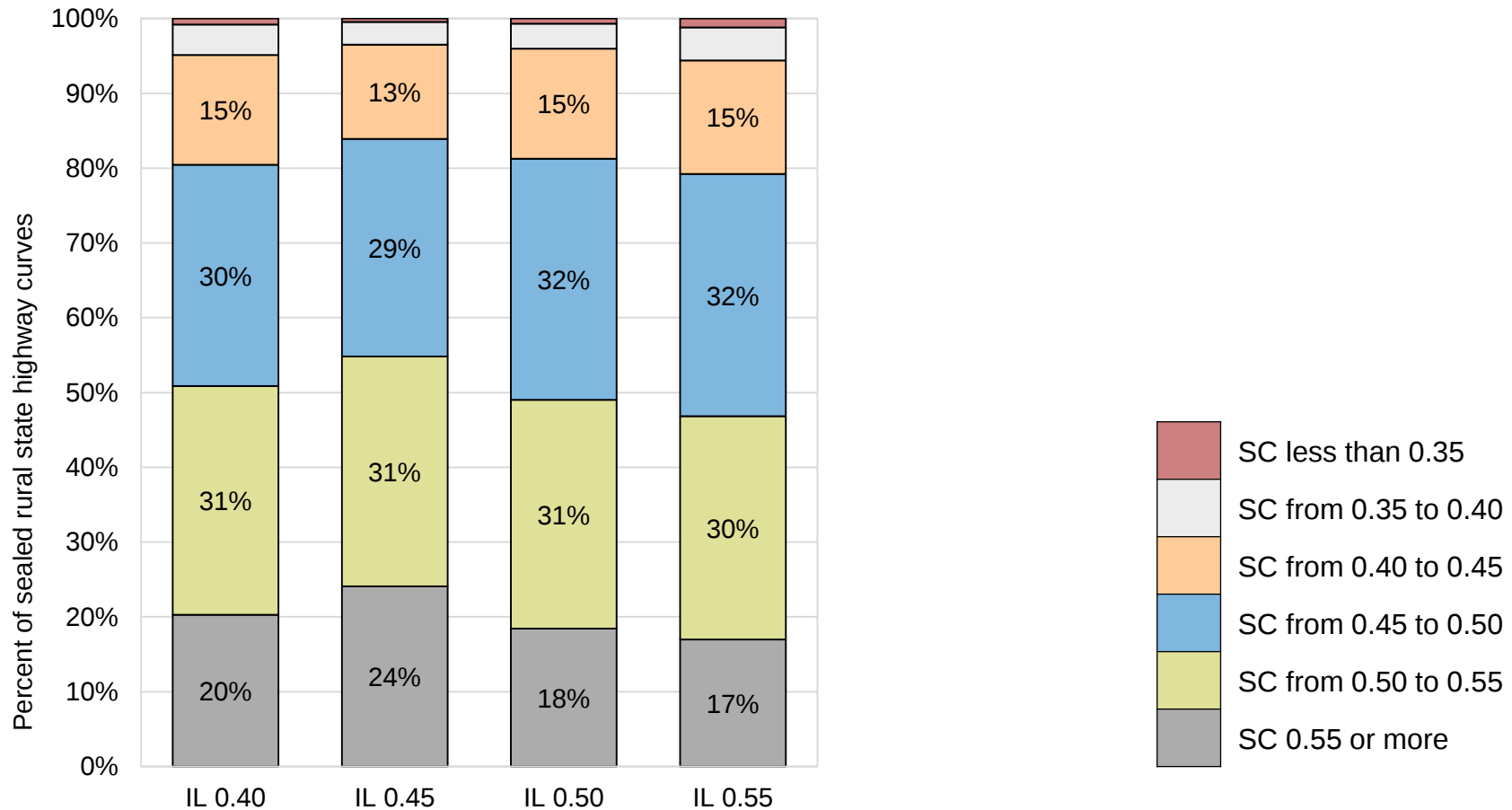
All curves and skid resistance



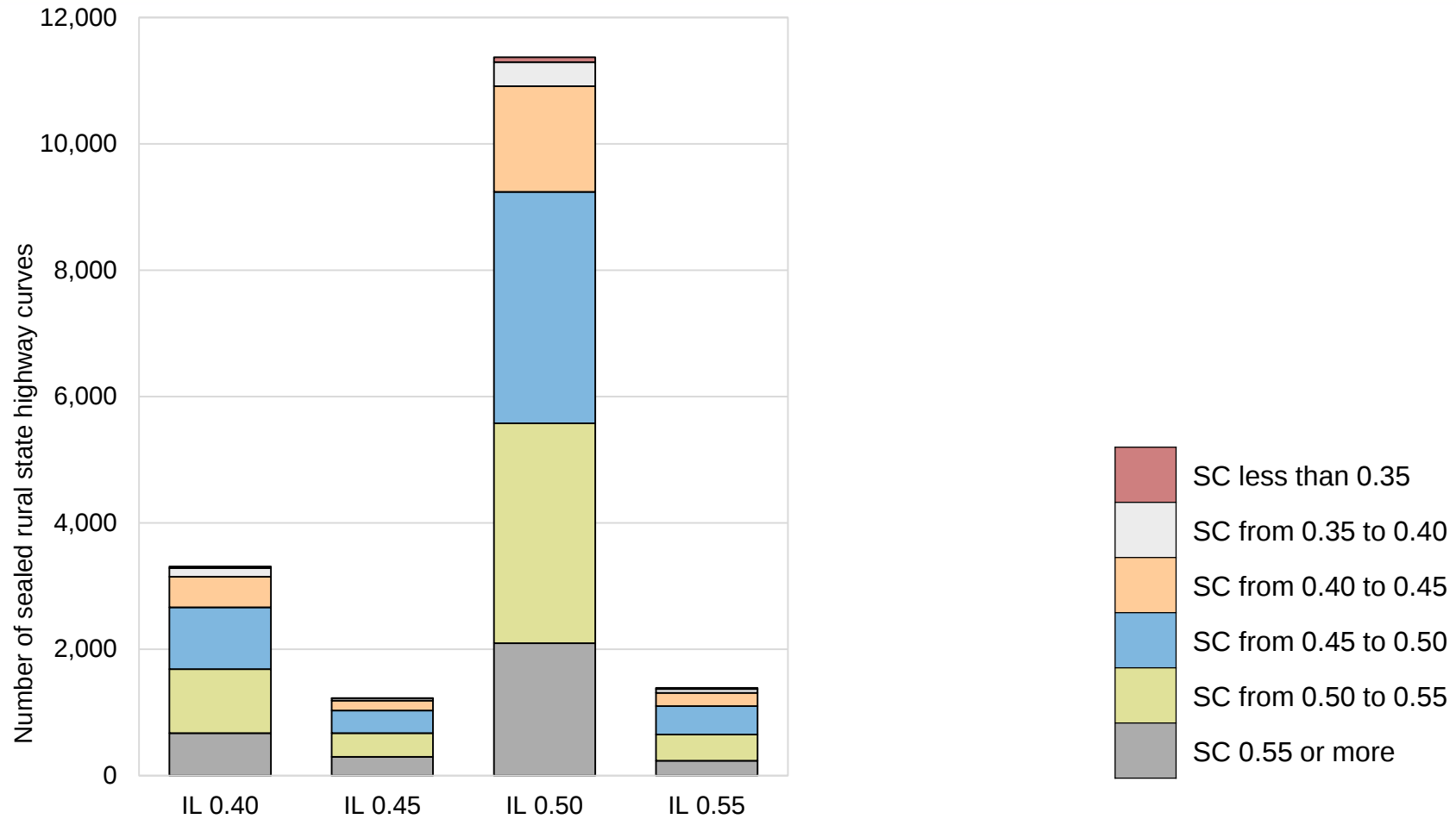
All curves and skid resistance



All curves and skid resistance



All curves and skid resistance

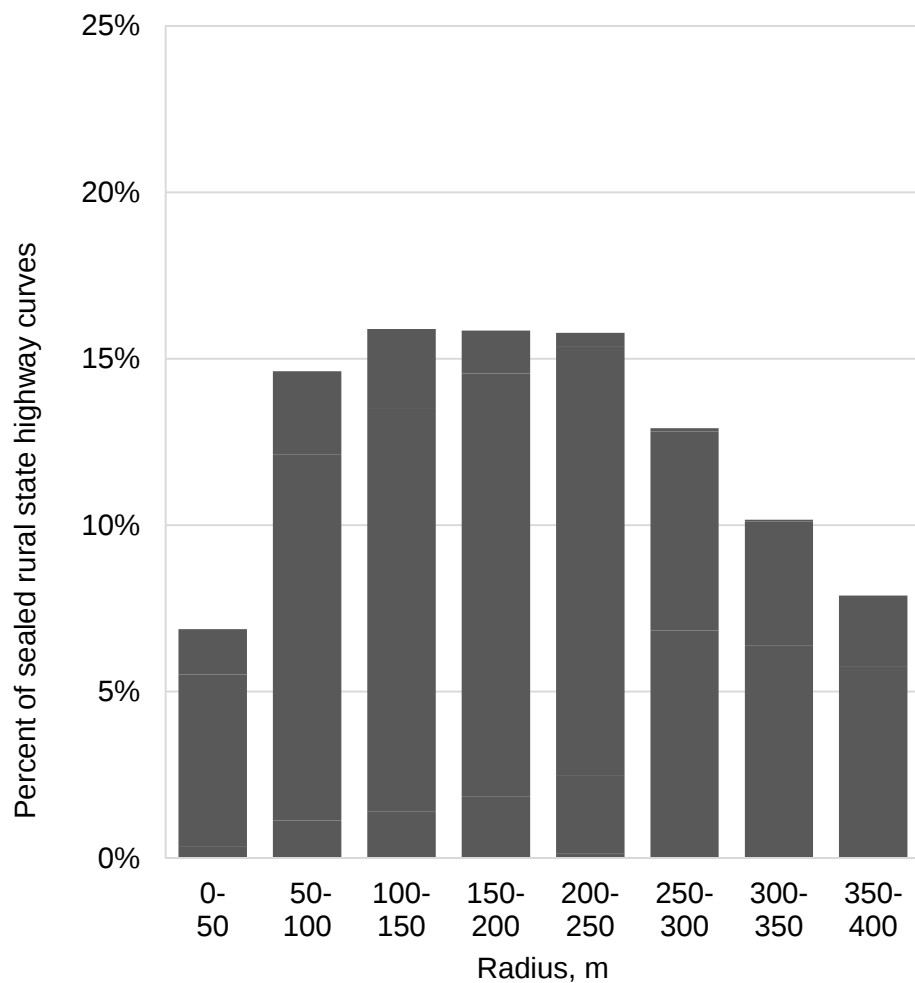


Skid resistance

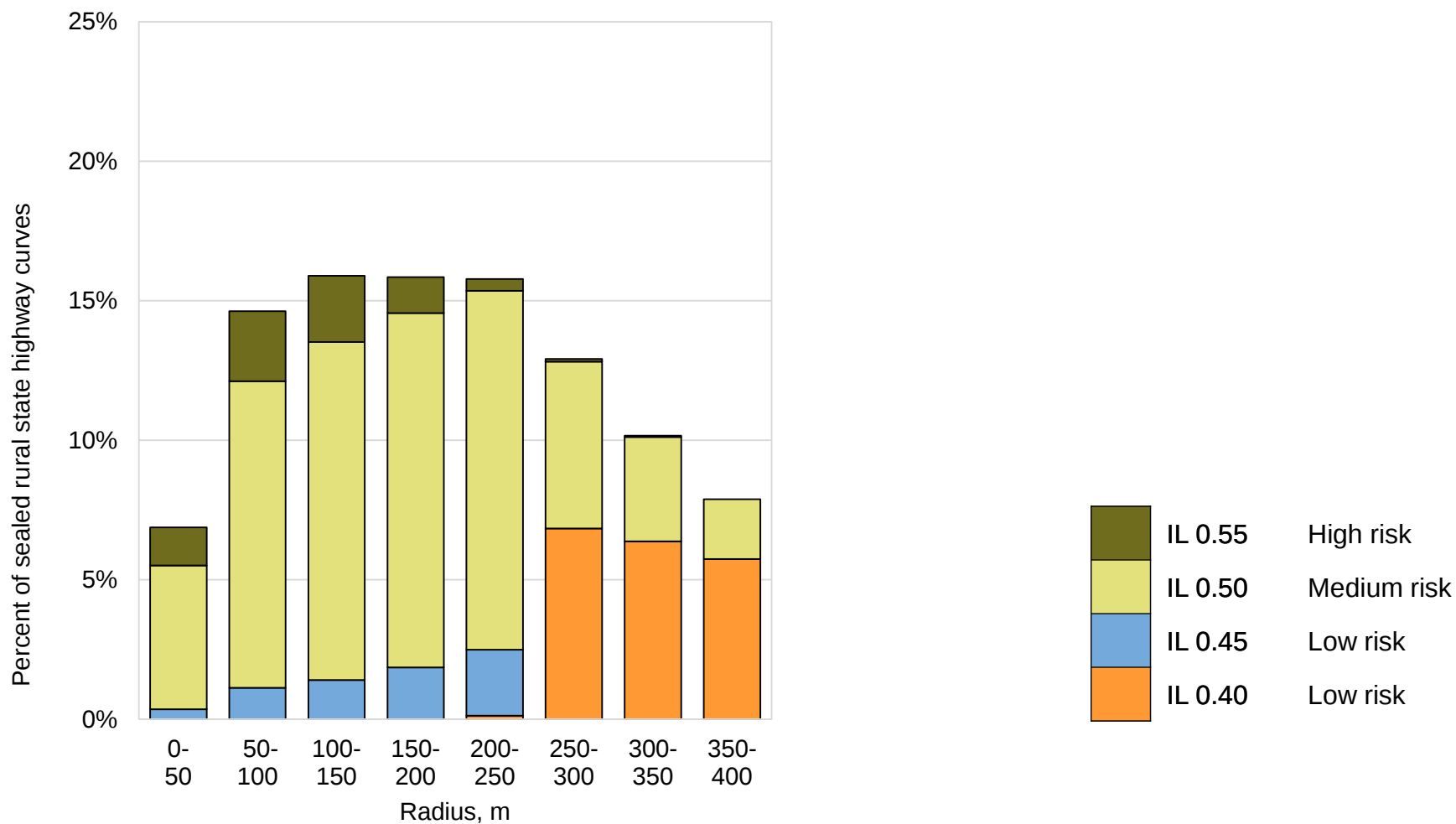
Adapted from Table 1. Skid resistance investigatory levels from NZTA T10: 2013

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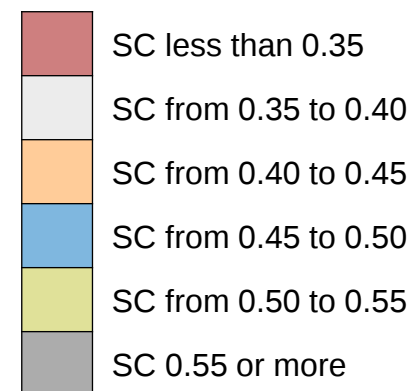
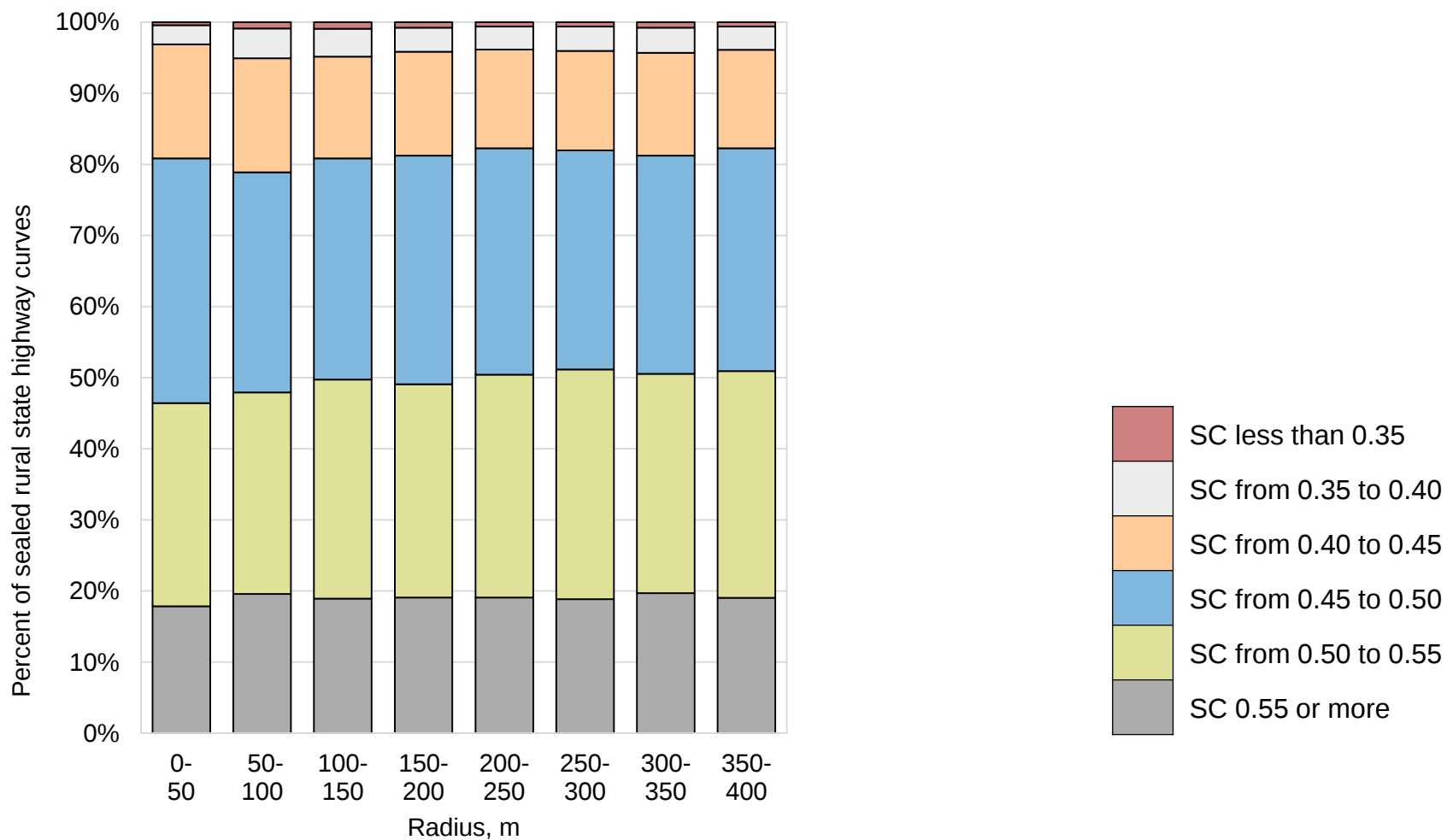
Curve radii



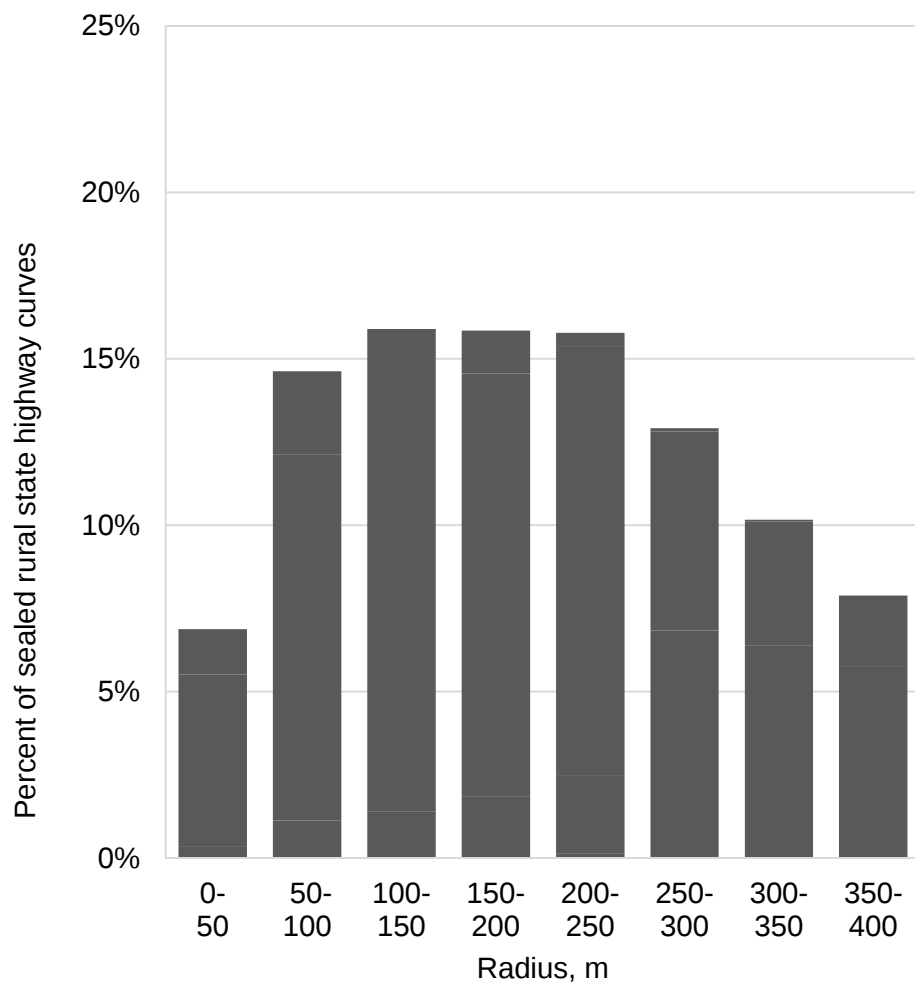
Curve radii and IL



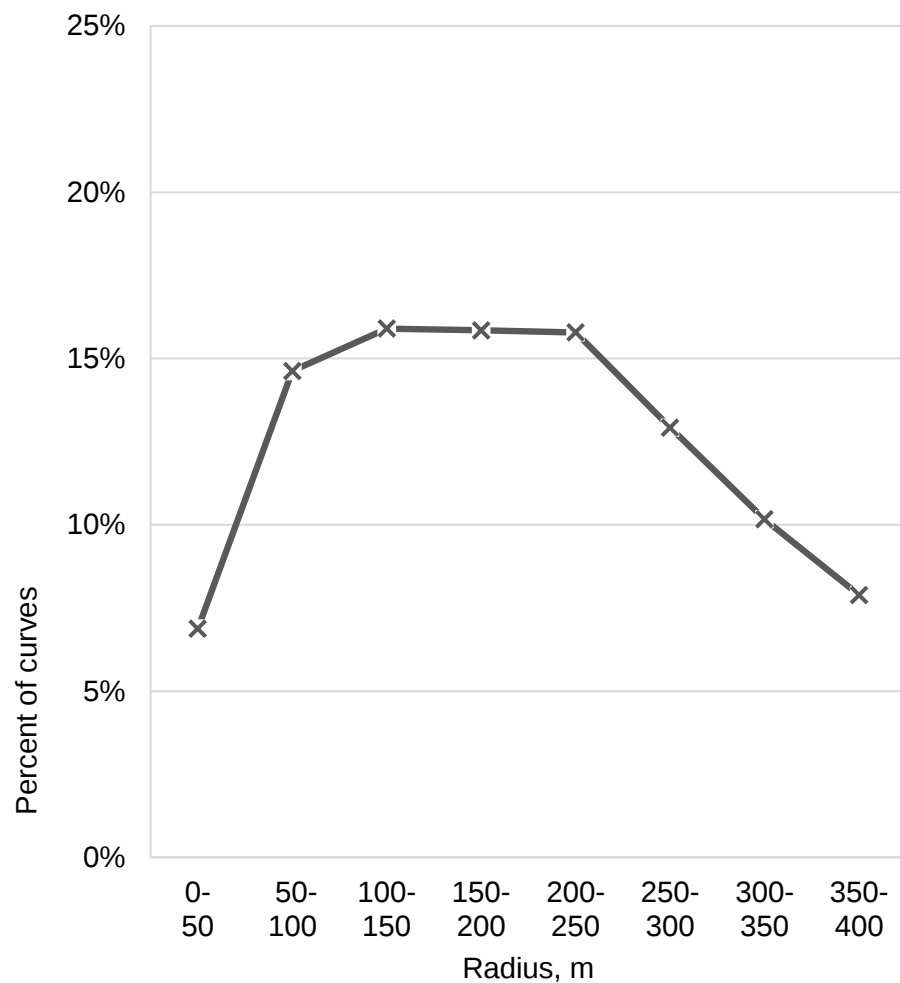
Curve radii and SC



Curve radii

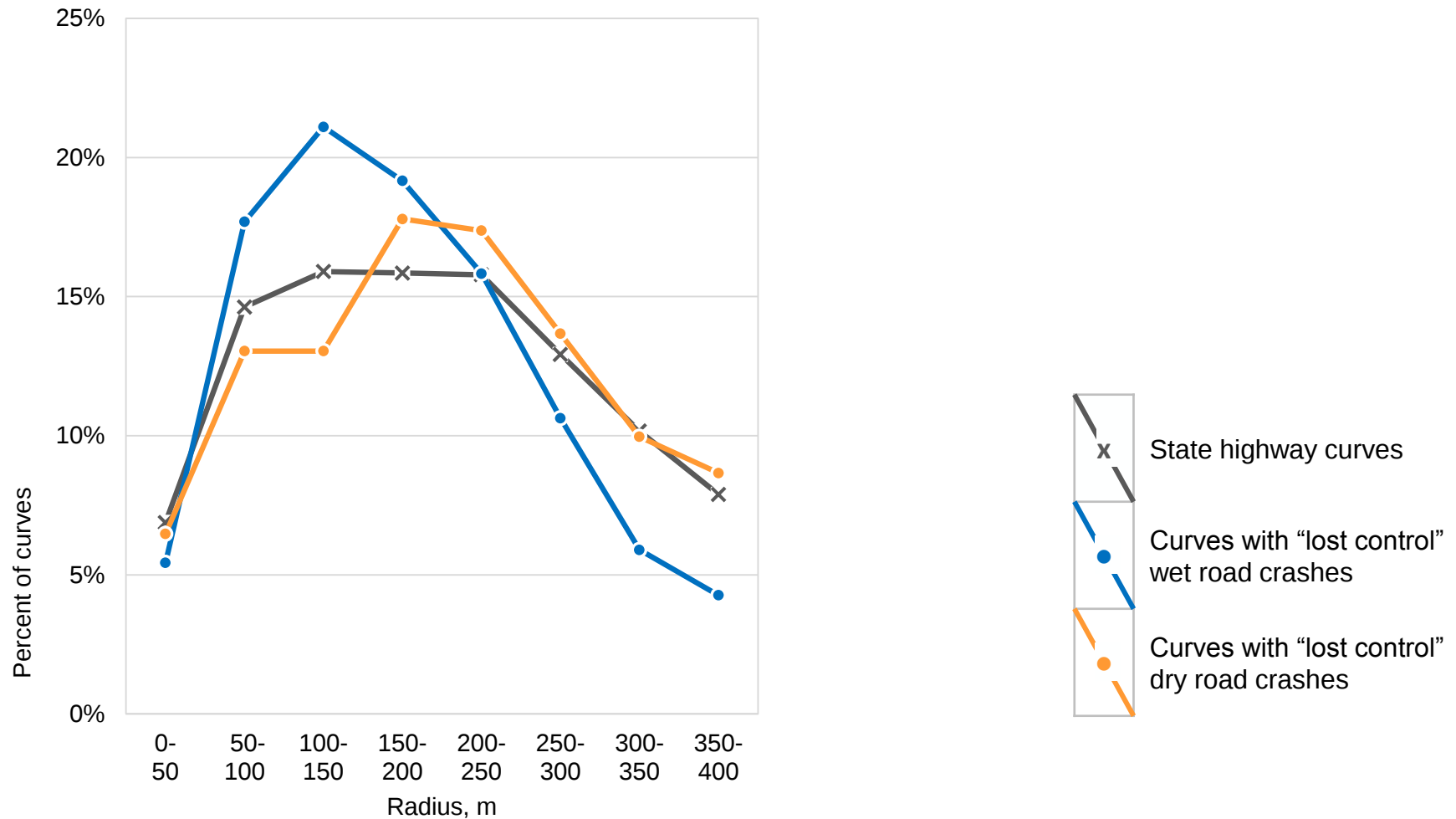


Curve radii



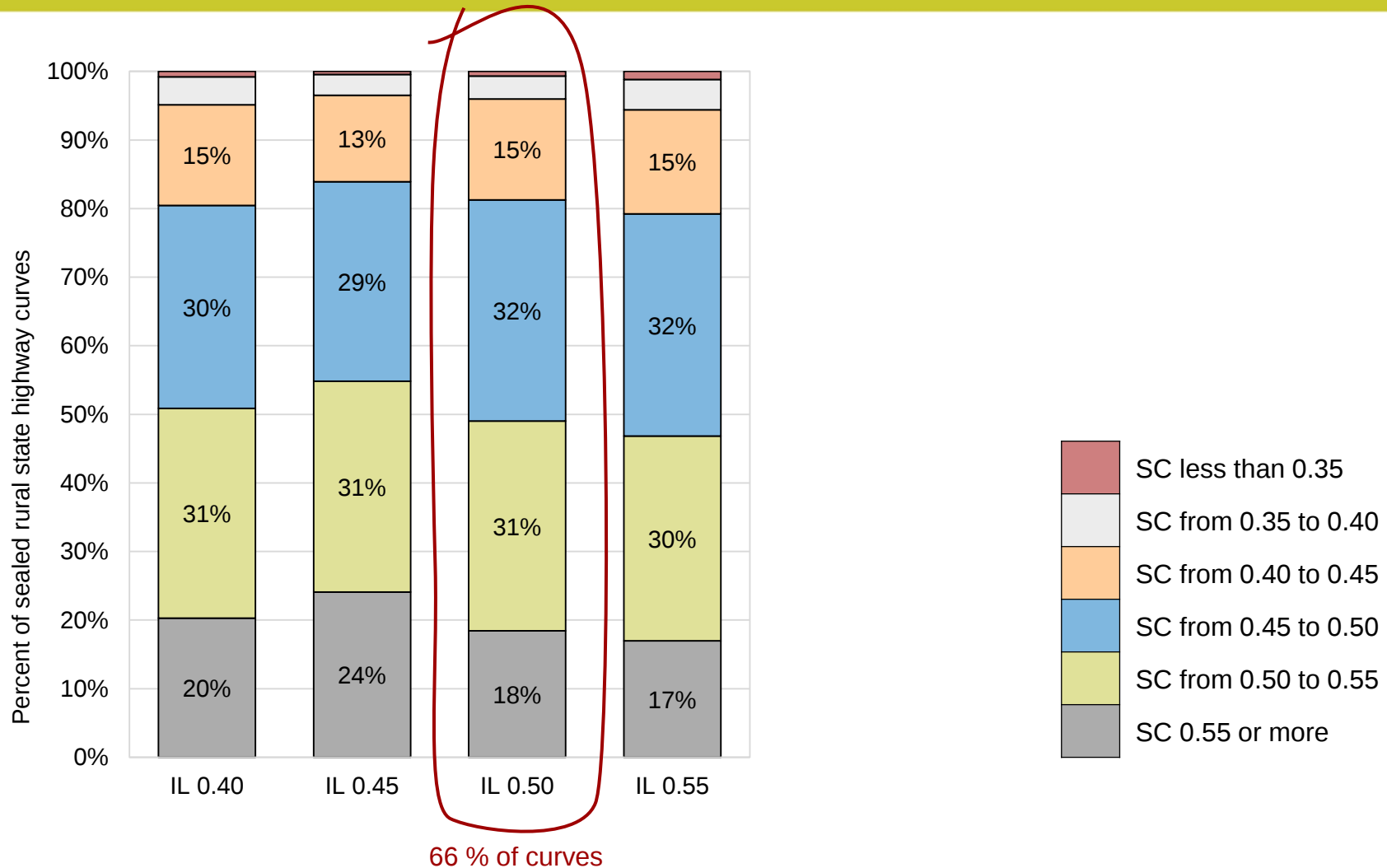
State highway curves

Curves with crashes and radii



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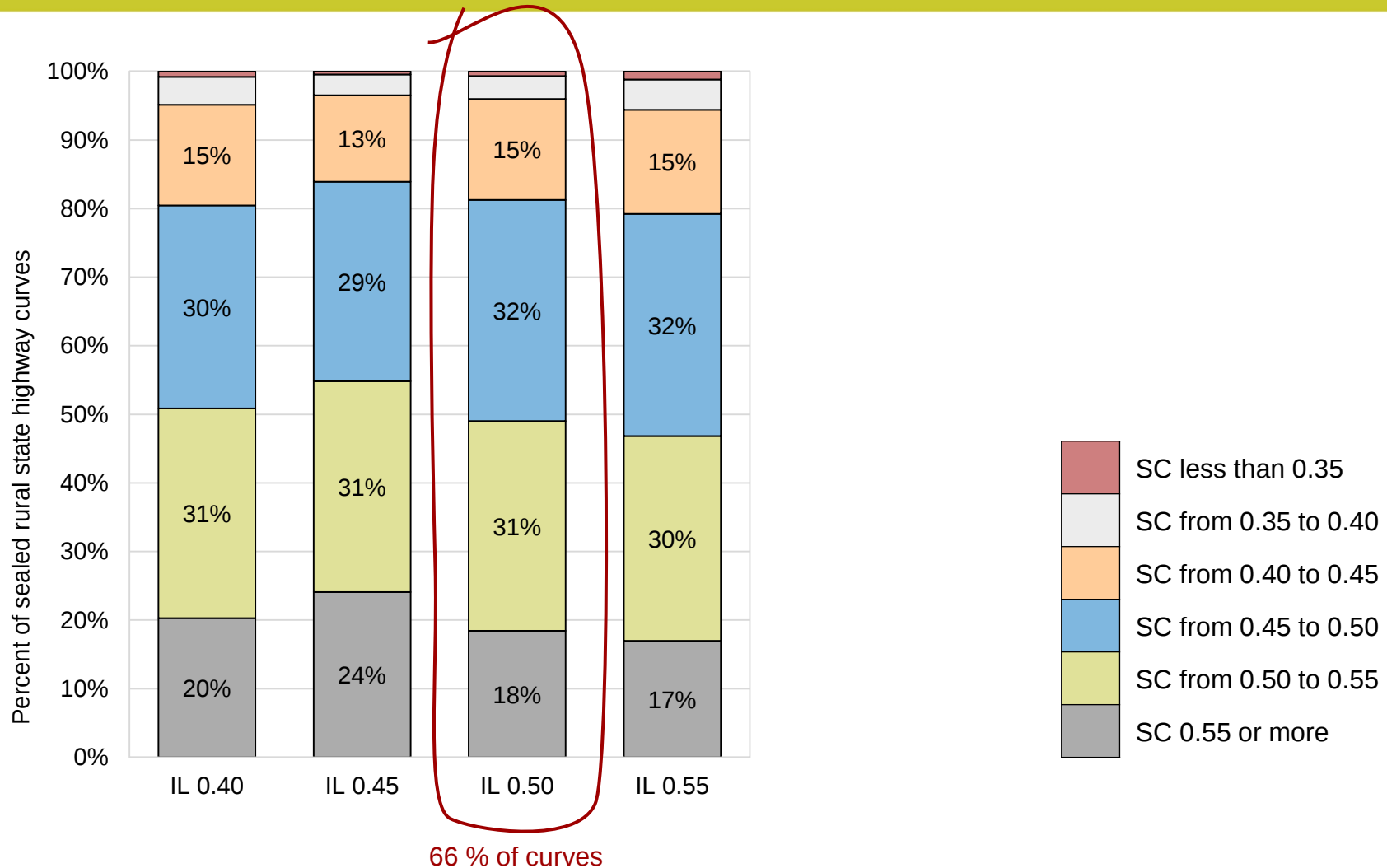
All curves and skid resistance



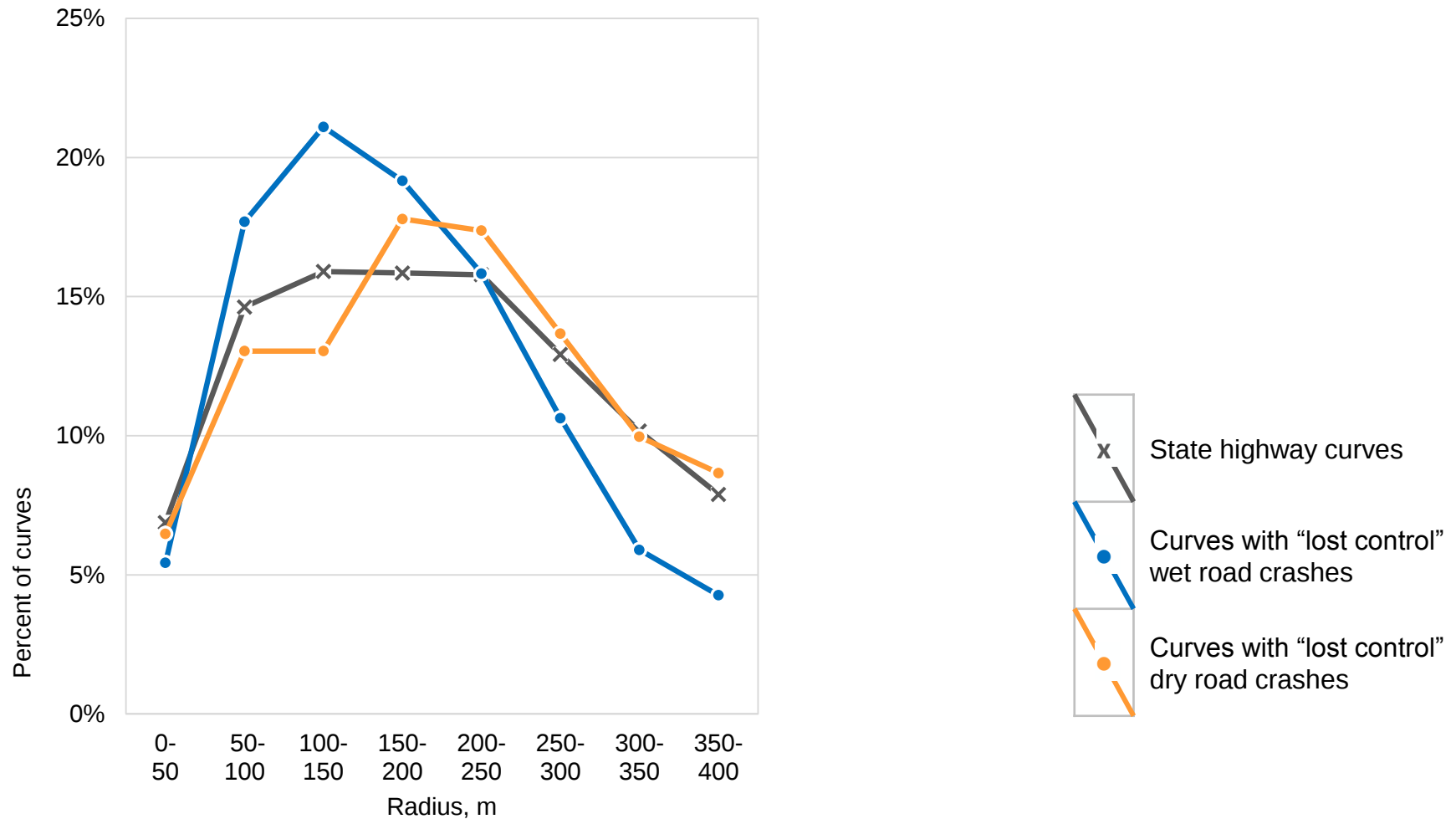
Skid Resistance



All curves and skid resistance



Curves with crashes and radii



State highway curve crashes and skid resistance

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