



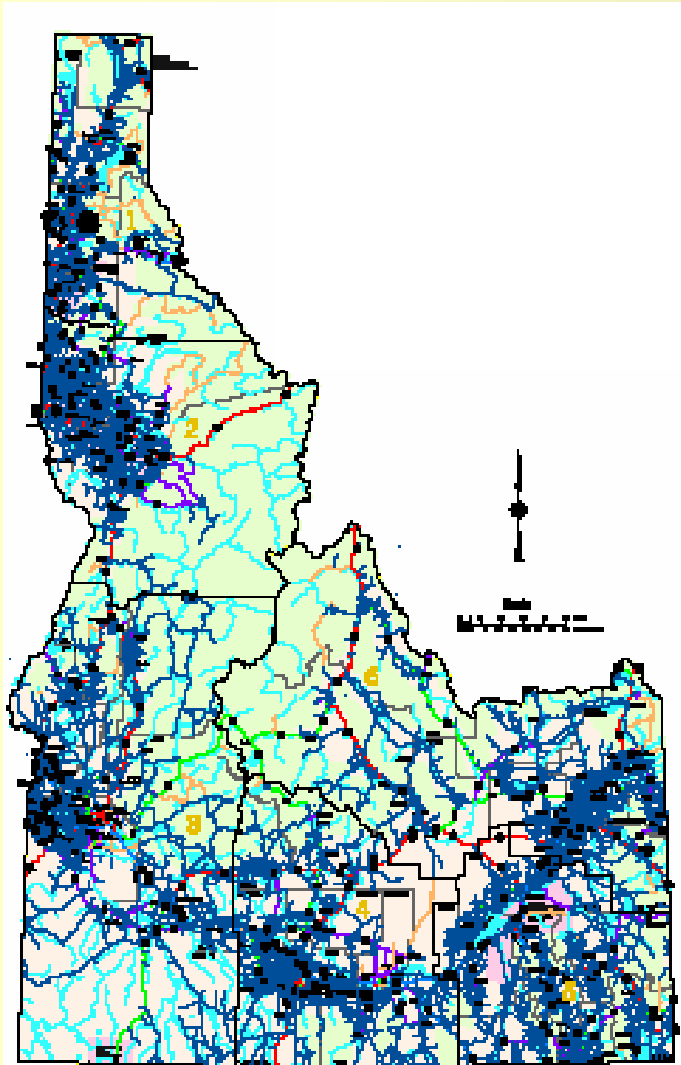
Idaho
**Transportation
Department**

*Mike Santi, P.E.
Assistant Materials Engineer*

*Rocky Mountain Pavement
Preservation Partnership Meeting
October 28-30, 2008*

Idaho Transportation Department

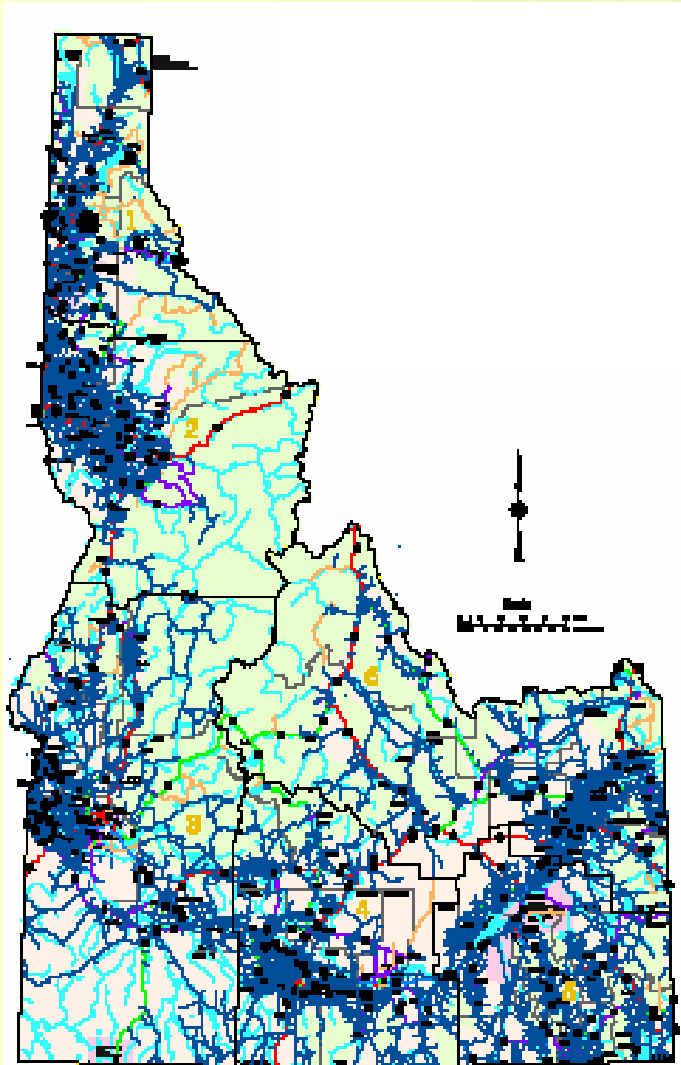
Pavement Preservation Program



Idaho's roadway transportation system is comprised of more than 70,000 centerline miles of road and about 4,000 bridges.

This system includes:

- **Federal,**
- **State, and**
- **Local Roads.**



11,948 Lane-miles on state highway system

About 6% PCC pavement.

Current Budget

- Recommend program for:
- FY 09 – 13
 - Pavement Preservation
 - » \$184,366,000 (1460 lane-miles)
 - Pavement Restoration
 - » \$196,667,000 (409 lane-miles)
 - Expansion
 - » \$194,254,000 (171 lane-miles)

Table 542.03.1 – Preventive Maintenance Techniques – Asphalt Pavement Surfaces

Preventive Maintenance Technique	Reason for Use						Traffic Volume		Average Life	Average Cost
	Friction	Raveling	Rutting	Seal Minor Cracks	Aging & Oxidation	Keep Out Water	Low	High	(Years)	Per lane-mile
542.03.01 Crack Sealing						X	X	X	1-4	2,000-4,000
542.03.02 Fog Seal & Rejuvenators		X		X	X	X	X		1-2	1,400-1,700
542.03.03 Slurry Seal	X	X		X	X	X	X		2-5	5,000-8,000
542.03.04 Micro-surfacing	X	X	X		X	X	X	X	5-8	18,000-24,000
542.03.05 Sand Seal		X		X	X	X			2-5	8,000-13,000
542.03.06 Chip Seal	X	X		X	X	X	X		5-8	7,000-10,000
542.03.07 Quick Setting Chip Seal	X	X		X	X	X	X		5-8	7,000-10,000
542.03.08 Cape Seal	X	X		X	X	X	X	X	6-10	8,000-13,000
542.03.09 Double Chip Seal	X	X		X	X	X	X		8-14	8,000-13,000
542.03.10 Plant Mix Seal (SSP-412)	X			X	X	X	X	X	5-8	10,000-16,000
542.03.11 Thin Hot Mix Overlay	X	X	X	X	X	X	X	X	7-10	11,000-18,000
542.03.12 Stone Matrix Asphalt	X	X	X	X	X	X	X	X	7-10	13,000-19,000
542.03.14 Hot-in-Place Recycling	X		X	X	X	X	X	X	7-10	14,000-19,000
542.03.15 Clean Drainage System						X	X	X	n/a	n/a

Table 542.03.1 – Preventive Maintenance Techniques – Asphalt Pavement Surfaces

Preventive Maintenance Technique	Reason for Use						Traffic Volume		Average Life	Average Cost
	Friction	Raveling	Rutting	Seal Minor Cracks	Aging & Oxidation	Keep Our Water	Low	High	(Years)	Per lane-mile
542.03.01 Crack Sealing						X	X	X	1-4	2,000-4,000
542.03.02 Fog Seal		X		X	X	X	X		1-2	1,400-1,700
542.03.03 Slurry Seal		X		X	X	X	X		2-5	5,000-8,000
542.03.04 Micro-Surfacing					X	X	X	X	5-8	18,000-24,000
542.03.05 Sand Seal				X	X	X			2-5	8,000-13,000
542.03.06 Chip Seal	X	X		X	X	X	X		5-8	7,000-10,000
542.03.07 Quick Setting Chip Seal	X	X		X	X	X	X		5-8	7,000-10,000
542.03.08 Double Chip Seal	X	X		X	X	X	X	X	6-10	8,000-13,000
542.03.09 Plant Mix Seal (SSP-412)	X	X		X	X	X	X		8-14	8,000-13,000
542.03.10 Thin Hot Mix Overlay (SSP-412)	X	X		X	X	X	X	X	5-8	10,000-16,000
542.03.11 Thin Hot Mix Overlay	X	X	X	X	X	X	X	X	7-10	11,000-18,000
542.03.12 Stone Matrix Asphalt	X	X	X	X	X	X	X	X	7-10	13,000-19,000
542.03.14 Hot-in-Place Recycling	X		X	X	X	X	X	X	7-10	14,000-19,000
542.03.15 Clean Drainage System						X	X	X	n/a	n/a

- Crack Sealing
- Fog Seal
- Slurry Seal
- Micro-Surfacing
- Chip Seal
- Quick Setting Chip Seal
- Double Chip Seal
- Plant Mix Seal (SSP-412)
- Thin Hot Mix Overlay

Table 542.03.2 – Preventive Maintenance Techniques – Concrete Pavement Surfaces

Preventive Maintenance Technique	Reason for Use						Traffic Volume		Average Life	Average Cost
	Friction	Raveling	Rutting	Seal Minor Cracks	Aging & Oxidation	Keep Out Water	Low	High	(Year)	Per lane-mile
542.03.16 Crack Joint Sealing				X		X		X	1-5	35,000-70,000
542.03.17 Subsealing					X			X	10	32,000-64,000
542.03.19 Grinding Concrete Pavement	X		X		X	X		X	10	16,000-27,000

Table 542.03.2 – Preventive Maintenance Techniques – Concrete Pavement Surfaces

Preventive Maintenance Technique	Reason for Use						Traffic Volume		Average Life	Average Cost
	Friction	Raveling	Rutting	Seal Minor Cracks	Aging & Oxidation	Keep Our Water	Low	High	(Year)	Per lane-mile
542.03.16 Crack and Joint Sealing						X		X	1-5	35,000-70,000
542.03.17 Subsealing					X			X	10	32,000-64,000
542.03.19 Grinding Concrete Pavement								X	10	16,000-27,000

- Crack and Joint Sealing
- Grinding Concrete Pavement

Most Successful

- Chip Seals
 - Cost effective
 - Low tech

Most Problematic

- Chip Seals
 - Dust
 - Flying rocks
 - Noise issues
 - Roughness