Identify your locally owned NHS

Where can you find them?

Check your state DOT website:

Washington DOT:

http://www.wsdot.wa.gov/mapsdata/travel/hpms/NHSroutes.htm

Oregon DOT:

http://www.oregon.gov/ODOT/Data/Pages/Functional-Class.aspx

Idaho DOT: ???



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Roadway

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National Highway System Routes - Washington State

The National Highway System (NHS) includes the Interstate Highway System as well as other roads important to the nation's economy, defense, and mobility. The NHS was developed by the Federal Department of Transportation in 1995 in cooperation with the states, local officials, and metropolitan planning organizations (MPOs). There have been only minor changes to the NHS until the Moving Ahead for Progress in the 21st Century Act (MAP-21) was authorized by congress and signed into law in 2012. MAP-21 resulted. in the addition of 1,200 miles of Washington roads to the NHS.

The NHS consists of NHS routes, Intermodal Facilities, and intermodal connector routes where required for travel from the NHS. routes to the Intermodal Facilities. Routes designated as Strategic Highway Network (STRAHNET) by the Department of Defense also form part of the NHS.

Washington NLIS routes are maintained in Washington's Highway Performance Monitoring System (LIPMS) and represented in Washington's HPMS spatial network (GIS). Changes and updates to the NHS are reported to EHWA annually.

NHS Documents

Washington 2015 State Highway NHS List (pdf 1.0 mb) Washington 2015 Local Agency NHS List (pdf 1.0 mb)

Functional Class App.

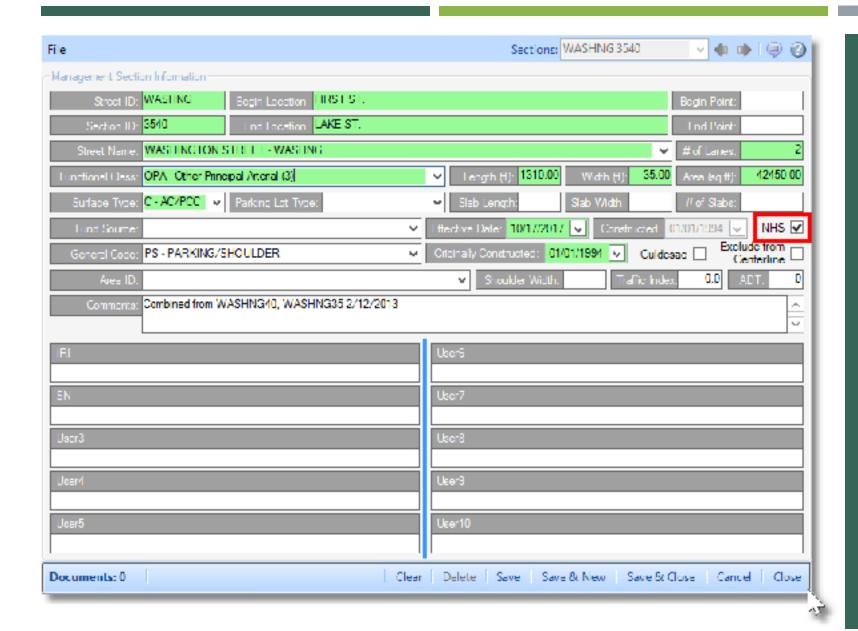
GeoPortal App.

2015 National Highway System Routes as reported to FHWA in HPM5

Controlles Milles Lane Milles

2015 Local Agency National Highway System Routes in Washington

COUNTY	Cily	NHS Route Description	From	Τσ	RouleID	Begin_Pt E	nd_Pt t	ength N	HS Code
Clark	Vancouver	NE Fourth Plain Rd	152nd Ave	162nd Ave	2000012101	9.44	9.94	0.50	1
Clark	Vancouver	Grand Blvd	E 5th St	E Evergreen Blwd	21000014601	0.84	1.12	0.2%	٦
Clark	Vancouver	NE St Johns Rd	NE 39th St	NE 59th St	200001410	1.10	2.16	1.06	1
Clark	Vancouver	N Andresen Rd	C Mill Plain Blvd	NE Fourth Plain Blvd	200001530	1.48	2.74	1.25	1
Clark	Vancouver	NESt Johns Rd	NE Cherry Ed	NE 39th St	210001410	0.93	1.10	0.17	1
Clark	Vancouver	NESt Johns Rd	SR 500	NE Cherry Rd	200001410	0.81	0.93	0.11	1
Clark	Vancouver	St Johns BMd	E 33rd St	SR-500	2000014100	0.67	0.81	0.15	1
Clark	Vancouver	NE St James Rd	NE Cherry Rd	NE Petticoat Ln / NE Arnold Rd	200001/1001	1.35	1.49	0.14	1
Clark	Vancouver	NESt James Rd	NE Minnehaha St	NE Cherry Rd	200001400s	0.13	1.35	1.23	٦
Clark	Vancouver	NE Highway 99 (Main St)	NE Ross St	Main St	200002510i	0.00	0.47	0.47	1
Clark	Vancouver	NE St James Rd	St Johns Rd	NE Minnehaha St	2000014000	0.00	0.13	0.13	1
Clark	Vancouver	F 33rd St	St tohres Blvd	Grand Blvd	200001360i	1.80	1.90	0.10	٦
Clark	Vancouver	W 26th Ave	SR 501 / NW Lower River Rd	Guard/Gate House	200001320i	0.00	0.36	0.36	1
Clark	Vancouver	NE St Johns Rd	NE 59th St	NE 68th St	200001410i	2.16	2.44	0.28	1
Clark	Vancouver	SE 164th Ave	SE 15th St	SE Mill Plain Blvd	2000018101	1.42	1.79	0.87	٦
Clark	Vancouver	NE 112th Ave	NE 37 (0)	NE 49 SI	2000016701	2.43	8.03	0.60	٦
Clark	Vancouver	NE 112th Ave	NE 49th St	SR 500	200001670i	2.03	3.34	0.31	1
Clark	Vancouver	NF Gher Rd	SR 500	NE Fourth Plain Rivd	200001670	3.34	3.60	0.26	1
Clark	Vancouver	SE 164th Ave	SR 14	SE 34th St	200001810	0.00	11.49	0.49	٦
Clark	Vancouver	SE 164th Ave	SF 84th St	SE 2001) SE	200001810	0.49	1.18	0.69	1
Clark	Vancouver	Grand Divd	E Mill Plain Blvd	E Fourth Plain Blvd	200001/1601	1.27	1.95	0.69	1
Clark	Vancouver	SE164th Ave	SE 20th St	SE 10 dh St	200001810	1.18	1.42	0.34	1
Clark	Vancouver	Grand Divd	E Evergreen Blvd	E Mill Plain Blvd	200001460i	1.12	1.27	0.15	1
Clark	Vancouver	SE 164th Ave	SE Milli Plain Blvd	SC 1st St	2000018100	1.79	2.19	0.40	1
Clark	Vancouver	NE 164th Ave / NE 162nd Ave	SE 1st St	NE 39th St	200001810	2.19	4.21	2.03	1
Clark	Vancouver	NE 152 Avu	NE 29 St	SR 500	200001810i	4.21	5.72	1.51	1
Clark	Vancouver	NE Andresen Rd	NE Four th Plain Blvd	Vancouver Mall Dr	200001530i	2.74	3.63	0.89	1
Clark	Vancouver	NE 112th Ave / Chaklov Dr	SE Mill Plain	NE 37 Cir	200001670	0.45	2.43	1.98	1
Clark	Vancouver	Grand Blvd	E Frourth Plant Blvd	F 33rd St	2000001460s	1.95	2.42	0.47	٦
Clark	Vancouver	Main St	E40th St	NE 45U+SL	200000970i	1.94	2.07	0.24	1N
-									



Match section and checked NHS box

NHS StreetSaver Matching Process

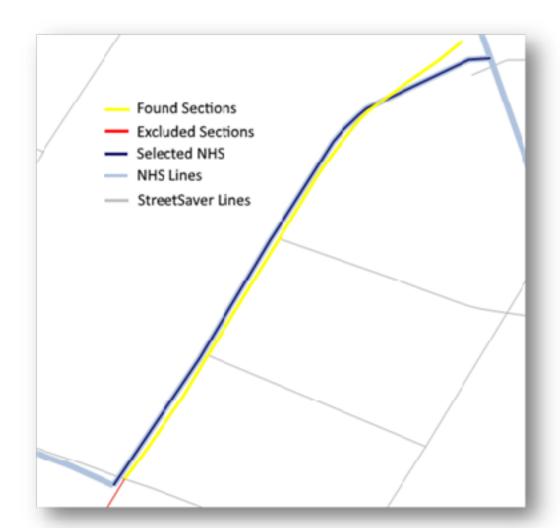
Data Requirement:

NHS data in GIS shapefiles

NHS StreetSaver Matching Process

Two-step process:

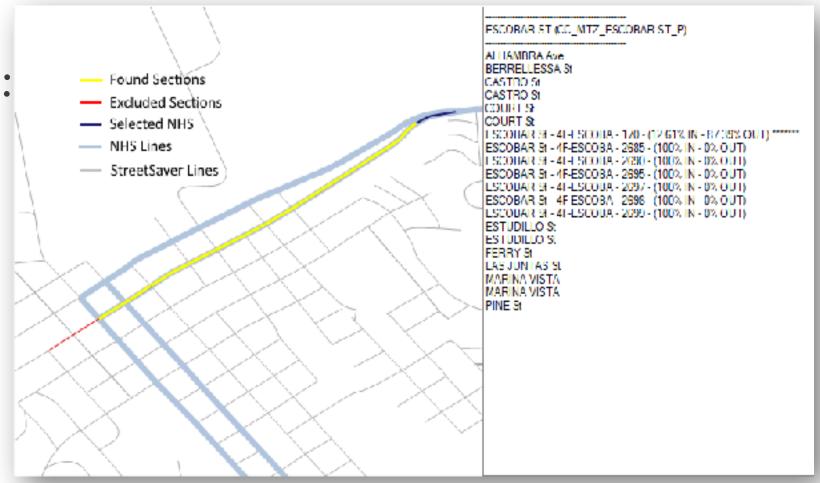
Spatial Query Matching:



NHS StreetSaver Matching Process

Two-step process:

Street Name Matching:



MPO/RTPA Target Reporting

Caltrans' approach:

Method A: Agency adopts "statewide" targets

Method B: Agency provides expenditures for pavement and uses

state PMP to set targets

Method C: Agency determines their own targets

MTC selects "Method C"

Performance Report

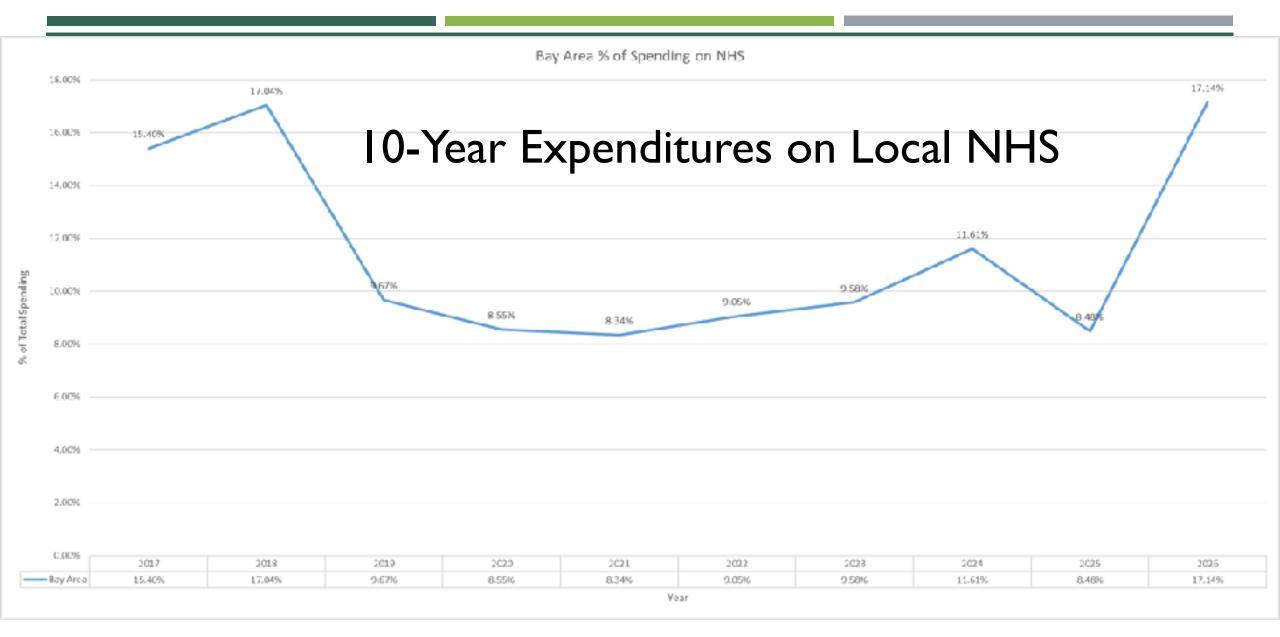
MTC SF region – 9 Counties & 100 cities

NHS TOTAL INVENTORY						
Asset Inventory (All) 2017/18 Total Inventory						
*Pavement (# of lane miles)	3,056 lane miles of NHS					
	42,273 lanes miles of total LSR inventory					

Performance Report

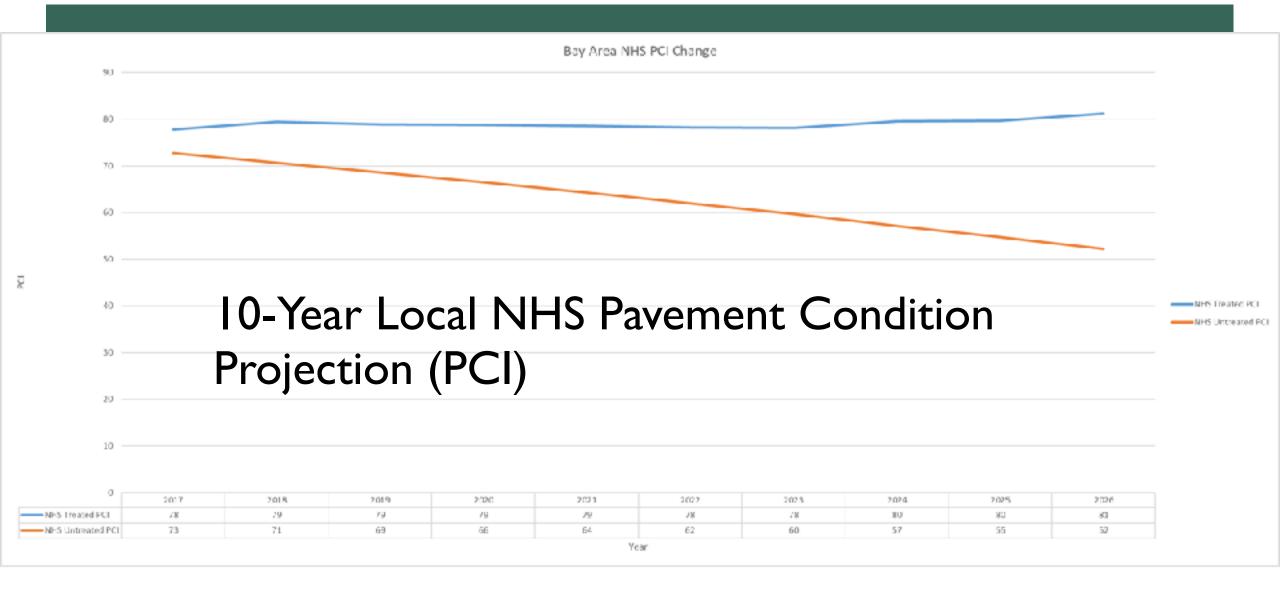
Initial Phase: Current Expenditure Scenario (State of Good Repair later)

10-YEARS PLANNED FUNDING								
FY	NHS Pavement	Total Pavement						
2017/18	\$95,945,930	\$623,014,392						
2018/19	\$105,820,326	\$620,992,440						
2019/20	\$55,248,599	\$571,462,092						
2020/21	\$49,480,117	\$578,579,746						



20.00% 10-Year Local NHS Pavement Conditions Projection 15.00% 9.18% 10.00% 7,5306 5.00% 2.13% 1.48% 0.65% 0.6496 0.00% -0.71%-0.80% 0.00% 2.46% -2.78%-5.00% -10.00% -15.00% 201B 2019 2020 2021 2022 2023 2024 2025 2026 → N Good 3.93% 0.22% 0.65% 0.25% 9.18% 6.8290 14.35% 0.79% 0.9390 3.32% -1.70% -0.39% 9.18% 7.53% -13.54% 0.27% 1.53% -2.78961.31% 1.48% 2.13% 0.64% 0.00% -0.71%-0.80% -1.06% -2.46% nocq -c-

Year







§ 490.311 Metric Thresholds in Final Rule

Rating	Good	Fair	Poor
IRI (inches/mile)	<95	95-170	>170
PSR* (0.0.5.0 value)	≥4.0	2.0-4.0	≤2.0
Cracking Percent	<5	CRCP: 5-10 Jointed: 5-15 Asphalt: 5-20	>10 >15 >20
Rutting (inches)	<0.20	0.20-0.40	>0.40
Faulting (inches)	<0.10	0.10-0.15	>0.15
PCI **	>=85	84-40	<40

Comparison of HPMS Metric Thresholds vs PCI

^{**} Conversion based on PSR from expert opinions

3-1 Condition Rating Classifications Used in the 2015 C&P Report

Metric	Rating Criteria	Good	Fair	Poor
Ride	The International Roughness Index (IRI) measures the cumulative deviation from a smooth surface in inches per mile.	IRI < 95	IRI 95 to 170	IRI > 170
tide (mative)	For roads functionally classified as urban minor arterials, rural or urban major collectors, or urban minor collectors, States can instead report a Present Serviceability Rating (PSR) on a scale of 0 to 5.	PSR ≥ 3.5	PSR ≥ 2.5 and < 3.5	PSR ≠2.5
Cracking	For asphalt pavements, cracking is measured as the percentage of the pavement surface in the wheel path in which interconnected cracks are present. For concrete pavements cracking is measured as the percent of cracked concrete panels in the evaluated section	-:5%	5% to 10%	>10%
Ruffing vernents	Rutting is measured as the average depth in inches of any surface depression present in the vehicle wheel path	<0.20	0 20 to 0 40	>0.40
aulting evernents	Faulting is measured as the average vertical displacement in inches between adjacent jointed concrete panels.	<0.05	0.05 to 0.15	≥0.15
(Condition	Ratings are on a scale from 0 "Failed" to 9 "Excellent."	>/	5 to 8	•4
erstructure	Ratings are on a scale from 0 "Failed" to 9 "Excellent"	<u>₽</u> 7	5 to 6	⊴4
structure	Ratings are on a scale from 0 "Failed" to 9 "Excellent."	s-7	5 to 6	-24
dition	Ratings are on a scale from 0 "Failed" to 9 "Excellent."	2/	5 to 6	24

NPRM sets a different standard for Fair versus Poor ride quality in areas with population over 1 million, setting the break point at 220 rather than 17 did not follow this approach, in order to better align with the definition of Acceptable ride quality traditionally used in this report, which includes with IRI values < 170 inches per mile

FHWA has raised the bar since 2015 C&P Report

	Road Lane Miles Perce						ercentage		
MPO/RTPA	County	Miles	Total	Good	Fair	Poor	Good	Fair	Po
Butte CAG		29	69	6	57	ñ	8.51*	82.73%	8.7
resno (COFCG)	Day 40 100 0 10 4		٦:4: _	L		٠. ا		િક	7.0
ilen CTC	Pavement conditions based on IRI,								3.5
lumboldt CAG								Pe	8.9
(ern COG	Crack %	$\angle R_{111}$	ting	or	$Fand^2$	ting	hv	9.	3.6
lings CAG	Crack /	o, ixu		Oi	ıauı	ung	Uy	.%	1.8
assen CTC			• 14					۹.	0.0
Madera CTC			Caltr	ans				Sk	9.2
Vierced CAG								ૠ	20.8
Monterey (AMBAG)		80	220	17	193	10	7.83%	87.70%	4.4
	Monterey County	52	143	13	122	8	9.16%	85.23%	5.6
	San Benito County	6	1/	2	15	в	11.00%	8/./8%	1.2
	Santa Cruz County	22	50	,	56	7	3 77*	93 68%	2 6
итс		945	2,986	65	2,714	207	2.16%	90.90%	6.9
	Alameda County	193	5/9	5	526	48	0.89%	90.90%	8.2
	Contra Costa County	198	613	15	574	24	2.49%	93.60%	3.9
	Marin Courty	26	72	1	67	4	1.70%	92.84%	5.4
	Napa County	10	29	Q	25	4	0.00%	86.21%	13.7
	San Francisco Courty	9.5	320	Ø	279	40	0.15%	87.31%	12.5
	San Mateo County	19	51	0	48	3	0.87%	93.83%	5.3
	Santa Clara County	290	974	34	881	59	3.44%	90.45%	6.1
	Salano County	on.	107	6	250	-3.3	2 069	DM 258	, .

Condition based on PCI vs IRI & 3 Metrics

MPO		Lane Miles				Pe	ercenta	ge
MTC	Road Miles	Total	Good	Fair	Poor	Good	Fair	Poor
PCI	963	3,068	723	2,208	137	24%	72%	4%
IRI +	945	2,986	65	2,714	207	2%	91%	7%
DIFF						~ 20%	~ 20%	~ 3%

Stop – Roger's slides

Challenges

- Difference pavement conditions between DOT and local
- Whose targets to use?
- Whose funding to use? NHPP? STP? Local?
- IRI collection errors in urbanized areas
- How to reconcile performance metrics differences?
- What happened if MPO's targets not met?

Next Steps

- Present and discuss findings to FHWA in Jan @ TRB
- Work out solutions and get approval from FHWA
- Coordinate with State DOT and MPOs for HPMS reporting