
WISCONSIN
VEHICLE INSPECTION PROGRAM
ANNUAL REPORT
2019



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BACKGROUND

The Wisconsin Department of Transportation (WisDOT) implemented the Wisconsin Vehicle Inspection Program (WVIP) in April 1984 in response to the federal Clean Air Act requirements. A major focus of the Clean Air Act is to reduce emissions that form ground-level ozone. Motor vehicles, industries, and smaller area sources such as lawn mowers, power boats, paints, solvents and other consumer products emit these ozone precursors. Areas exceeding federal air quality standards – established under the Clean Air Act – are designated as non-attainment and are required by federal law to reduce emissions.

The WVIP is one of the primary components of the strategy to reduce air pollution in southeastern Wisconsin area. Each year, over 600,000 cars and light duty trucks in a seven county region of southeastern Wisconsin's ozone non-attainment area are tested for emissions. The program covers more than 2,500 square miles over seven counties: Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Washington, and Waukesha. Vehicles receive inspections in a decentralized network of approximately 200 private inspection facilities (PIF) located in all seven of the program counties. Vehicle population determines PIF distribution. At the end of calendar year 2019 the PIF per county totals were:

- Kenosha = 15
- Milwaukee = 67
- Racine = 19
- Sheboygan = 14
- Waukesha = 48
- Ozaukee = 8
- Washington = 20

The emissions tests are free to the motorist. The state of Wisconsin pays the program contractor, Opus Inspection, a monthly fee of \$216,330.00. The state Transportation and Petroleum Environmental Cleanup Fund Act (PECFA) funds pay for the program.

PROGRAM OVERVIEW

Geographical Area:	Seven southeastern Wisconsin counties: Sheboygan, Washington, Ozaukee, Waukesha, Milwaukee, Racine and Kenosha. Testing region covers 2,500 square miles.
Test Procedure:	OBDII testing, in which a vehicle's on-board computer is checked for emissions-related problems, is the standard test for all 1996 and newer gasoline-fueled vehicles equipped with OBDII technology and all 2007 and newer diesel-fueled vehicles equipped with OBDII technology.
Network Size:	200 Private Inspection Facilities, 200 inspection lanes, 5 Technical Assistance Centers

Model Years (MY) Tested

Registration Renewal Testing: Model Years 1996 through 2016

- Model year 1996-2006 gasoline-fueled vehicles up to 8,500 lbs. gross vehicle weight rating
- Model year 2007 and newer gasoline-fueled and diesel-fueled vehicles between 8,501 and 14,000 lbs., gross vehicle weight rating

Change of Ownership: Model year 2014 and older in CY 2019

QUALITY CONTROL/QUALITY ASSURANCE

The WIVIP has several interrelated systems and functions monitoring program performance and accuracy. These systems include digital monitoring of all inspections, trigger reports alerting program management to any testing anomaly, videos of each inspection process, regular overt station checking on equipment performance and covert inspection audits.

The digital monitoring/trigger report capabilities enable constant program monitoring of inspection accuracy. Program management uses this tool to identify and remedy any potential issue. The regular station audits verify the accuracy of program functions at each PIF, the inspector's and inspection analyzer.

NETWORK

The WIVIP is a decentralized test and repair network comprised of 200 Private Inspection Facilities located throughout the seven-county program region. The stations receive all analyzer equipment, service, consumables and inspector training, free of charge from Opus Inspection, the program management company. The list of PIFs participating in the network in 2019, and their locations (see section 40 CFR Part 51.366 (b)(1)(i) of this report).

PROGRAM RATIONALE

Elevated spring and summertime ozone levels remain an air quality challenge along the coast of Lake Michigan, including Southeastern Wisconsin. Despite significant improvements in air quality in recent years, the state has several areas (parts of Kenosha, Milwaukee, Ozaukee, Sheboygan and Manitowoc Counties) that are in nonattainment of federal ozone.

MOTOR VEHICLE EMISSION REDUCTIONS & AIR QUALITY IMPROVEMENT

Motor vehicle emissions have a substantial role in determining regional air quality. The Wisconsin Vehicle Inspection Program (WVIP) is Wisconsin's most significant vehicle emission reduction program, and one that contributes to improved air quality in the entire upper Midwest.

The Wisconsin Department of Natural Resources (DNR) estimates that the program achieved the following reductions in on-road motor vehicle emissions during 2019:

- Volatile organic compounds (VOC) emissions reduced by 1.47 tons per summer weekday, or 7.4%.
- Oxides of nitrogen (NOx) emissions reduced by 1.59 tons per summer weekday, or 4.7%.
- Carbon monoxide (CO) emissions reduced by 31.94 tons per summer weekday, or 10.7%.

Hot Summer Weekday Emissions (tons) For On-Road Motor Vehicles

		Volatile Organic Compounds (VOC)						
		2005	2008	2011	2014	2017	2018	2019
No WVIP	6 SE Counties	52.44	45.88	40.78	29.16	22.15	20.22	18.57
No WVIP	Sheboygan Co.	3.54	3.06	2.61	1.94	1.56	1.43	1.31
No WVIP	All 7 Counties	55.98	48.94	43.39	31.10	23.71	21.64	19.88
WVIPP	6 SE Counties	46.62	40.66	38.47	27.16	20.64	18.77	17.20
WVIPP	Sheboygan Co.	3.21	2.74	2.46	1.81	1.45	1.33	1.22
WVIPP	All 7 Counties	49.83	43.39	40.93	28.97	22.09	20.09	18.41
WVIPP Reductions (tons)		6.16	5.54	2.46	2.13	1.62	1.55	1.47
WVIPP Reductions (%)		11.0%	11.3%	5.7%	6.9%	6.8%	7.2%	7.4%

		Oxides of Nitrogen (NOx)						
		2005	2008	2011	2014	2017	2018	2019
No WVIP	6 SE Counties	117.13	97.32	83.73	60.05	40.22	35.86	32.15
No WVIP	Sheboygan Co.	8.38	6.78	5.70	4.24	2.60	2.33	2.09
No WVIP	All 7 Counties	125.51	104.10	89.43	64.28	42.82	38.19	34.24
WVIPP	6 SE Counties	110.05	90.92	79.90	56.91	38.42	34.22	30.67
WVIPP	Sheboygan Co.	7.93	6.37	5.45	4.03	2.47	2.21	1.99
WVIPP	All 7 Counties	117.98	97.29	85.35	60.94	40.89	36.43	32.65
WVIPP Reductions (tons)		7.53	6.80	4.09	3.35	1.93	1.76	1.59
WVIPP Reductions (%)		6.0%	6.5%	4.6%	5.2%	4.5%	4.6%	4.7%

		Carbon Monoxide (CO)						
		2005	2008	2011	2014	2017	2018	2019
No WVIP	6 SE Counties	581.06	515.70	476.11	369.35	307.79	292.78	278.85
No WVIP	Sheboygan Co.	38.68	33.01	28.31	24.37	21.12	20.24	19.31
No WVIP	All 7 Counties	619.74	548.71	504.42	393.72	328.91	313.01	298.16
WVIP	6 SE Counties	516.87	457.03	440.70	335.67	277.14	262.33	248.99
WVIP	Sheboygan Co.	34.91	29.53	26.13	22.13	19.00	18.12	17.22
WVIP	All 7 Counties	551.78	486.56	466.83	357.80	296.14	280.45	266.21
WVIP Reductions (tons)		67.95	62.15	37.59	35.92	32.77	32.56	31.94
WVIP Reductions (%)		11.0%	11.3%	7.5%	9.1%	10.0%	10.4%	10.7%

NOTES:

1. The "6 SE Counties" are Kenosha, Milwaukee, Ozaukee, Racine, Washington and Waukesha Counties.
2. Emissions calculated using U.S. EPA's MOVES_{2014b} model.
3. Emissions calculated for the year 2019 are preliminary, since local 2019 vehicle-miles of travel data are not yet available. Instead, the 2019 vehicle-miles of travel was estimated by applying a national growth rate to the 2018 vehicle-miles of travel.
4. In July 2008, the WVIP dropped tailpipe testing entirely and only tested vehicles of model years 1996 and newer by scanning their on-board diagnostic (OBD) systems. This exempted all vehicles of model years 1995 and older, resulting in lower emission reduction percentages after 2008 than before. After 2008, the emission reduction percentages show a generally increasing trend on account of an increasing percentage of the total vehicle travel by the tested vehicles (model year 1996 and newer vehicles).
5. The one exception to the trend of increasing emission reduction percentages after 2008 is the trend for NO_x. The NO_x reductions in 2017, 2018 and 2019 (4.5%, 4.6% and 4.7%, respectively) are less than the 2014 NO_x reduction (5.2%). This is because the regulatory gasoline sulfur levels in 2017 through 2019 were significantly less than they were in 2014. These lower gasoline sulfur levels significantly reduced the NO_x emissions from gasoline-powered vehicles (most of which are subject to the WVIP), thus, providing a smaller share of on-road emissions from vehicles subject to the WVIP and a larger share of on-road emissions from vehicles not subject to the WVIP (e.g., heavy-duty diesel-powered trucks).

Over time, the WVIP has contributed to the following air quality improvements in Wisconsin:

Ozone: Ground-level ozone concentrations in southeastern Wisconsin have dropped significantly since the year 2000, as shown in the figure below. During the late 1990s and early 2000s, maximum ozone design values ranged from 0.092 parts per million (ppm) to 0.101 ppm in the WVIP area. These values have since decreased markedly, to a peak design value of 0.075 ppm for the years 2017 to 2019.

During that period, U.S. EPA has repeatedly lowered the level of the 8-hour ozone standard, from 0.08 ppm in 1997 to 0.070 ppm in 2015. Ten counties in eastern Wisconsin (including all seven in the WVIP) were designated as nonattainment for the 1997 standard. All but one of these counties (Sheboygan County) were re-designated to attainment before the standard was revoked in 2015. Two areas of the state, Sheboygan County and eastern Kenosha County, were designated nonattainment for the 2008 standard. Effective July 10, 2020, the U.S. EPA re-designated all of Sheboygan County to attainment of the 2008 standard as a result of the lower ozone levels in this area, which attained this standard. Effective August 3, 2018, the U.S. EPA designated nonattainment areas under the more stringent 2015 ozone standard. These nonattainment areas comprised narrow parts of six eastern Wisconsin counties (Kenosha, Milwaukee, Ozaukee, Sheboygan, Manitowoc and Door). Effective June 10, 2020, the U.S. EPA re-designated the nonattainment area within Door County to attainment of the 2015 standard as a result of the lower ozone levels in this area, which attained this standard. The WVIP will play an important, ongoing role in the state's efforts to attain this more stringent standard in the other nonattainment areas and to maintain attainment throughout all of eastern Wisconsin.

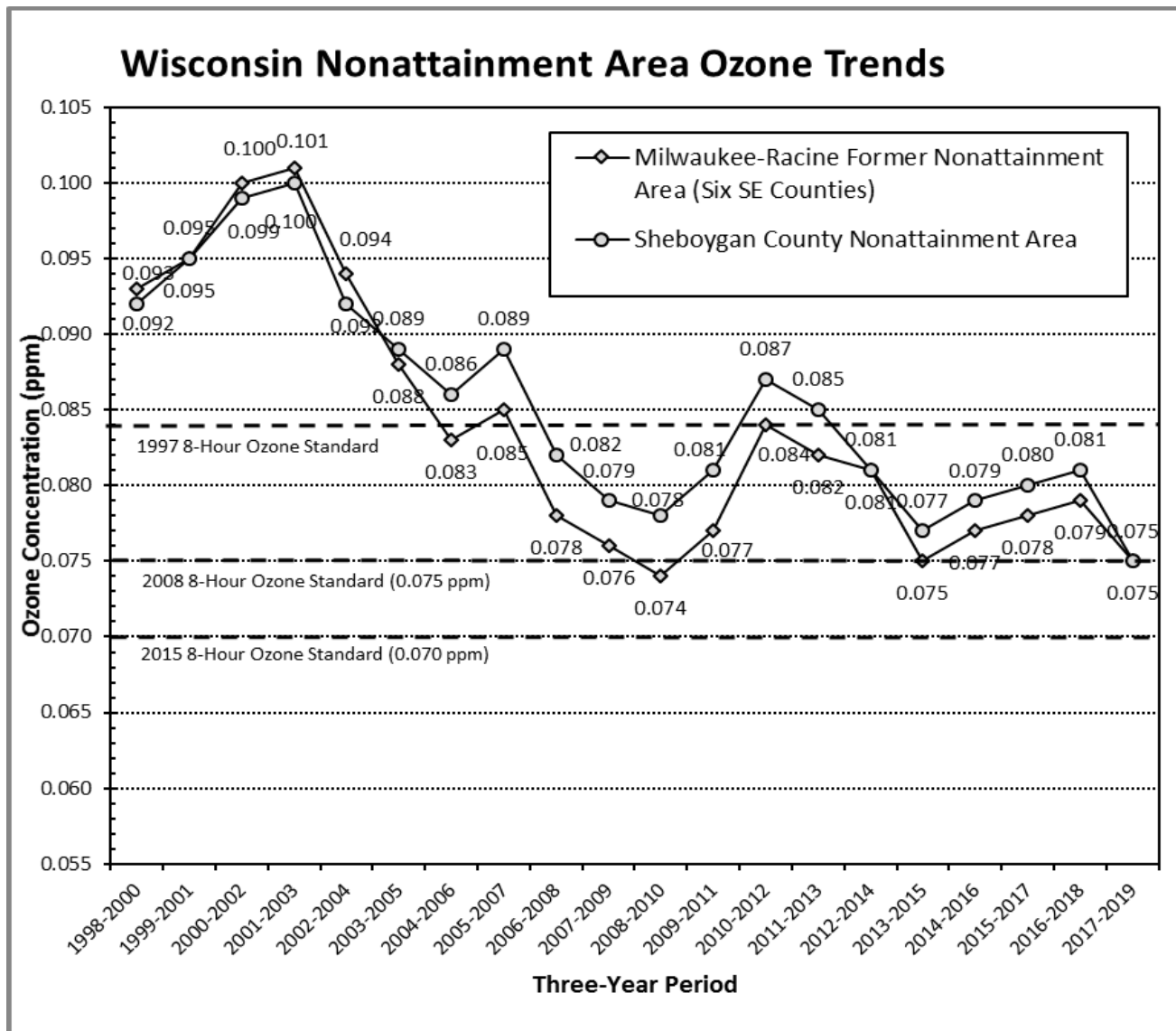


Figure 1. Trends in ozone design values for the Wisconsin Vehicle Inspection Program area. The highest value in the area is shown in each case. Note that since temperature has a strong influence on ozone concentrations, the values are highest for the time periods including hot summers, most notably the years 2002 and 2012.

Carbon Monoxide: Between 1977 and 1984, southeastern Wisconsin exceeded the federal carbon monoxide standard 35 times. Since the program’s implementation in 1984, southeastern Wisconsin has not exceeded this standard.

Credit for these air quality improvements goes to various state and federal ozone control measures implemented both in Wisconsin and other states. Aside from Wisconsin’s and neighboring states’ vehicle inspection and maintenance programs, these include reformulated gasoline, national emission standards for new motor vehicles, national fuel standards, utility and industrial source controls, and gasoline vapor recovery controls.

TEST DATA REPORT

OPERATING STATISTICS

ALL TESTS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(1) The number of vehicles tested by model year and vehicle type.

The tests represented in the table below include test records for initial tests, retests and waivers. It contains all test results, including pass, fail, waivers, aborts, rejects and voids. All tables in this section do not include test records that were performed in the course of the state audits.

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
1996	4,245	481	1,460	205	6,391
1997	1,880	292	697	110	2,979
1998	7,882	926	2,613	398	11,819
1999	3,522	650	907	184	5,263
2000	15,281	1,913	3,982	1,015	22,191
2001	5,522	955	1,416	352	8,245
2002	24,372	3,896	5,517	1,365	35,150
2003	8,206	1,685	1,512	584	11,987
2004	33,755	5,804	6,338	1,723	47,620
2005	10,651	2,191	1,472	972	15,286
2006	43,036	5,644	5,567	2,828	57,075
2007	12,387	2,553	1,613	767	17,320
2008	49,824	7,628	6,498	2,485	66,435
2009	8,860	1,544	915	387	11,706
2010	45,481	5,885	5,253	1,904	58,523
2011	10,208	2,627	1,617	567	15,019
2012	58,123	8,363	6,772	2,365	75,623
2013	12,375	2,953	1,645	663	17,636
2014	62,334	15,090	9,220	3,458	90,102
2015	4,674	1,817	954	506	7,951
2016	35,197	29,570	9,810	6,430	81,007
2017	1,624	1,474	457	320	3,875
2018	361	297	75	46	779
2019	126	111	42	17	296
2020	24	4	1		29
GRAND TOTAL	459,950	104,353	76,353	29,651	670,307

INITIAL TESTS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(i) The number of vehicles tested by model year and vehicle type failing by test type.

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
1996	4,258	496	1,470	204	6,428
INITIAL FAIL	343	52	130	22	547
INITIAL PASS	3,915	444	1,340	182	5,881
FAILURE RATE	8.06%	10.48%	8.84%	10.78%	8.51%
1997	1,758	280	655	106	2,799
INITIAL FAIL	225	36	97	15	373
INITIAL PASS	1,533	244	558	91	2,426
FAILURE RATE	12.80%	12.86%	14.81%	14.15%	13.33%
1998	7,798	927	2,607	407	11,739
INITIAL FAIL	709	94	252	49	1,104
INITIAL PASS	7,089	833	2,355	358	10,635
FAILURE RATE	9.09%	10.14%	9.67%	12.04%	9.40%
1999	3,262	606	864	171	4,903
INITIAL FAIL	407	67	78	15	567
INITIAL PASS	2,855	539	786	156	4,336
FAILURE RATE	12.48%	11.06%	9.03%	8.77%	11.56%
2000	15,218	1,910	3,995	1,032	22,155
INITIAL FAIL	1,471	167	268	97	2,003
INITIAL PASS	13,747	1,743	3,727	935	20,152
FAILURE RATE	9.67%	8.74%	6.71%	9.40%	9.04%
2001	4,948	857	1,320	315	7,440
INITIAL FAIL	738	118	118	54	1,028
INITIAL PASS	4,210	739	1,202	261	6,412
FAILURE RATE	14.92%	13.77%	8.94%	17.14%	13.82%
2002	24,004	3,891	5,559	1,369	34,823
INITIAL FAIL	2,418	397	365	152	3,332
INITIAL PASS	21,586	3,494	5,194	1,217	31,491
FAILURE RATE	10.07%	10.20%	6.57%	11.10%	9.57%
2003	7,815	1,523	1,484	530	11,352
INITIAL FAIL	914	150	100	35	1,199
INITIAL PASS	6,901	1,373	1,384	495	10,153
FAILURE RATE	11.70%	9.85%	6.74%	6.60%	10.56%
2004	33,851	5,818	6,388	1,746	47,803
INITIAL FAIL	2,598	424	378	129	3,529
INITIAL PASS	31,253	5,394	6,010	1,617	44,274

MODEL YEAR		PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
2005	FAILURE RATE	7.67%	7.29%	5.92%	7.39%	7.38%
		10,349	2,046	1,458	900	14,753
	INITIAL FAIL	951	147	81	83	1,262
	INITIAL PASS	9,398	1,899	1,377	817	13,491
2006	FAILURE RATE	9.19%	7.18%	5.56%	9.22%	8.55%
		43,494	5,710	5,647	2,883	57,734
	INITIAL FAIL	2,671	377	252	177	3,477
	INITIAL PASS	40,823	5,333	5,395	2,706	54,257
2007	FAILURE RATE	6.14%	6.60%	4.46%	6.14%	6.02%
		12,396	2,372	1,584	739	17,091
	INITIAL FAIL	843	129	105	54	1,131
	INITIAL PASS	11,553	2,243	1,479	685	15,960
2008	FAILURE RATE	6.80%	5.44%	6.63%	7.31%	6.62%
		50,647	7,807	6,573	2,542	67,569
	INITIAL FAIL	2,267	320	271	136	2,994
	INITIAL PASS	48,380	7,487	6,302	2,406	64,575
2009	FAILURE RATE	4.48%	4.10%	4.12%	5.35%	4.43%
		9,010	1,438	906	369	11,723
	INITIAL FAIL	399	57	41	18	515
	INITIAL PASS	8,611	1,381	865	351	11,208
2010	FAILURE RATE	4.43%	3.96%	4.53%	4.88%	4.39%
		46,392	6,074	5,393	1,947	59,806
	INITIAL FAIL	1,294	176	104	89	1,663
	INITIAL PASS	45,098	5,898	5,289	1,858	58,143
2011	FAILURE RATE	2.79%	2.90%	1.93%	4.57%	2.78%
		10,565	2,391	1,619	527	15,102
	INITIAL FAIL	356	49	42	16	463
	INITIAL PASS	10,209	2,342	1,577	511	14,639
2012	FAILURE RATE	3.37%	2.05%	2.59%	3.04%	3.07%
		59,271	8,668	6,943	2,432	77,314
	INITIAL FAIL	1,137	156	101	61	1,455
	INITIAL PASS	58,134	8,512	6,842	2,371	75,859
2013	FAILURE RATE	1.92%	1.80%	1.45%	2.51%	1.88%
		12,843	2,724	1,646	619	17,832
	INITIAL FAIL	217	24	30	18	289
	INITIAL PASS	12,626	2,700	1,616	601	17,543
2014	FAILURE RATE	1.69%	0.88%	1.82%	2.91%	1.62%
		63,267	15,221	9,363	3,500	91,351
	INITIAL FAIL	747	79	85	48	959
	INITIAL PASS	62,520	15,142	9,278	3,452	90,392
2015	FAILURE RATE	1.18%	0.52%	0.91%	1.37%	1.05%
		4,795	1,748	948	499	7,990
	INITIAL FAIL	75	6	16	3	100

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL	
	INITIAL PASS	4,720	1,742	932	496	7,890
	FAILURE RATE	1.56%	0.34%	1.69%	0.60%	1.25%
2016		35,770	29,558	9,860	6,411	81,599
	INITIAL FAIL	245	34	61	18	358
	INITIAL PASS	35,525	29,524	9,799	6,393	81,241
	FAILURE RATE	0.68%	0.12%	0.62%	0.28%	0.44%
2017		1,721	1,412	452	311	3,896
	INITIAL FAIL	16	3	1	1	21
	INITIAL PASS	1,705	1,409	451	310	3,875
	FAILURE RATE	0.93%	0.21%	0.22%	0.32%	0.54%
2018		383	287	74	45	789
	INITIAL FAIL	4	2	0	1	7
	INITIAL PASS	379	285	74	44	782
	FAILURE RATE	1.04%	0.70%	0.0%	2.22%	0.89%
2019		130	110	41	16	297
	INITIAL FAIL	0	0	1	1	2
	INITIAL PASS	130	110	40	15	295
	FAILURE RATE	0.0%	0.0%	2.44%	6.25%	0.67%
2020		23	5	1	0	29
	INITIAL FAIL	0	0	0		0
	INITIAL PASS	23	5	1		29
	FAILURE RATE	0.0%	0.0%	0.0%	--	0.0%
TOTAL TESTS		463,968	103,879	76,850	29,620	674,317
	INITIAL FAIL	21,045	3,064	2,977	1,292	28,378
	INITIAL PASS	442,923	100,815	73,873	28,328	645,939
	FAILURE RATE	4.54%	2.95%	3.87%	4.36%	4.21%

RETEST RESULTS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2) (ii) – (iii) The number of vehicles tested by model year and vehicle type passing or failing the first retest.

<i>Model Year</i>	<i>Passenger Car</i>	<i>SUV</i>	<i>Truck</i>	<i>Van</i>	<i>Grand Total</i>
1996	203	26	79	10	318
Fail	46	6	22	2	76
Pass	157	20	57	8	242
Fail Rate	22.66%	23.08%	27.85%	20.00%	23.90%
Pass Rate	77.34%	76.92%	72.15%	80.00%	76.10%
1997	131	18	65	9	223
Fail	41	4	24	2	71
Pass	90	14	41	7	152
Fail Rate	31.30%	22.22%	36.92%	22.22%	31.84%
Pass Rate	68.70%	77.78%	63.08%	77.78%	68.16%
1998	415	54	156	19	644
Fail	107	15	40	6	168
Pass	308	39	116	13	476
Fail Rate	25.78%	27.78%	25.64%	31.58%	26.09%
Pass Rate	74.22%	72.22%	74.36%	68.42%	73.91%
1999	283	25	53	15	376
Fail	92	7	12	1	112
Pass	191	18	41	14	264
Fail Rate	32.51%	28.00%	22.64%	6.67%	29.79%
Pass Rate	67.49%	72.00%	77.36%	93.33%	70.21%
2000	942	87	187	42	1,258
Fail	248	23	34	9	314
Pass	694	64	153	33	944
Fail Rate	26.33%	26.44%	18.18%	21.43%	24.96%
Pass Rate	73.67%	73.56%	81.82%	78.57%	75.04%
2001	427	52	80	23	582
Fail	174	19	22	10	225
Pass	253	33	58	13	357
Fail Rate	40.75%	36.54%	27.50%	43.48%	38.66%
Pass Rate	59.25%	63.46%	72.50%	56.52%	61.34%
2002	1,353	196	215	73	1,837
Fail	342	40	40	18	440
Pass	1,011	156	175	55	1,397
Fail Rate	25.28%	20.41%	18.60%	24.66%	23.95%
Pass Rate	74.72%	79.59%	81.40%	75.34%	76.05%
2003	576	68	80	21	745
Fail	167	15	12	8	202

<i>Model Year</i>	<i>Passenger Car</i>	<i>SUV</i>	<i>Truck</i>	<i>Van</i>	<i>Grand Total</i>
Pass	409	53	68	13	543
Fail Rate	28.99%	22.06%	15.00%	38.10%	27.11%
Pass Rate	71.01%	77.94%	85.00%	61.90%	72.89%
2004	1,569	210	238	62	2,079
Fail	354	47	46	10	457
Pass	1,215	163	192	52	1,622
Fail Rate	22.56%	22.38%	19.33%	16.13%	21.98%
Pass Rate	77.44%	77.62%	80.67%	83.87%	78.02%
2005	650	70	56	32	808
Fail	161	18	8	11	198
Pass	489	52	48	21	610
Fail Rate	24.77%	25.71%	14.29%	34.38%	24.50%
Pass Rate	75.23%	74.29%	85.71%	65.63%	75.50%
2006	1,619	211	164	94	2,088
Fail	304	38	19	22	383
Pass	1,315	173	145	72	1,705
Fail Rate	18.78%	18.01%	11.59%	23.40%	18.34%
Pass Rate	81.22%	81.99%	88.41%	76.60%	81.66%
2007	596	59	83	37	775
Fail	131	12	13	8	164
Pass	465	47	70	29	611
Fail Rate	21.98%	20.34%	15.66%	21.62%	21.16%
Pass Rate	78.02%	79.66%	84.34%	78.38%	78.84%
2008	1,420	166	166	89	1,841
Fail	278	30	16	13	337
Pass	1,142	136	150	76	1,504
Fail Rate	19.58%	18.07%	9.64%	14.61%	18.31%
Pass Rate	80.42%	81.93%	90.36%	85.39%	81.69%
2009	278	25	27	11	341
Fail	61	4	4	1	70
Pass	217	21	23	10	271
Fail Rate	21.94%	16.00%	14.81%	9.09%	20.53%
Pass Rate	78.06%	84.00%	85.19%	90.91%	79.47%
2010	812	96	62	59	1,029
Fail	114	19	5	7	145
Pass	698	77	57	52	884
Fail Rate	14.04%	19.79%	8.06%	11.86%	14.09%
Pass Rate	85.96%	80.21%	91.94%	88.14%	85.91%
2011	249	20	24	8	301
Fail	43	2	5	1	51
Pass	206	18	19	7	250
Fail Rate	17.27%	10.00%	20.83%	12.50%	16.94%
Pass Rate	82.73%	90.00%	79.17%	87.50%	83.06%

<i>Model Year</i>	<i>Passenger Car</i>	<i>SUV</i>	<i>Truck</i>	<i>Van</i>	<i>Grand Total</i>
2012	760	102	53	37	952
Fail	90	12	8	3	113
Pass	670	90	45	34	839
Fail Rate	11.84%	11.76%	15.09%	8.11%	11.87%
Pass Rate	88.16%	88.24%	84.91%	91.89%	88.13%
2013	180	13	14	8	215
Fail	16	2	1	1	20
Pass	164	11	13	7	195
Fail Rate	8.89%	15.38%	7.14%	12.50%	9.30%
Pass Rate	91.11%	84.62%	92.86%	87.50%	90.70%
2014	482	54	57	34	627
Fail	56	6	5	3	70
Pass	426	48	52	31	557
Fail Rate	11.62%	11.11%	8.77%	8.82%	11.16%
Pass Rate	88.38%	88.89%	91.23%	91.18%	88.84%
2015	50	6	11	2	69
Fail	2	1	0	0	3
Pass	48	5	11	2	66
Fail Rate	4.00%	16.67%	0.0%	0.0%	4.35%
Pass Rate	96.00%	83.33%	100.0%	100.0%	95.65%
2016	170	28	27	8	233
Fail	23	3	2	1	29
Pass	147	25	25	7	204
Fail Rate	13.53%	10.71%	7.41%	12.50%	12.45%
Pass Rate	86.47%	89.29%	92.59%	87.50%	87.55%
2017	6	1	1	0	8
Fail	0	0	0		0
Pass	6	1	1		8
Fail Rate	0.0%	0.0%	0.0%	--	0.0%
Pass Rate	100.0%	100.0%	100.0%	--	100.0%
2018	2	0	0	1	3
Fail	0			0	0
Pass	2			1	3
Fail Rate	0.0%	--	--	0.0%	0.0%
Pass Rate	100.0%	--	--	100.0%	100.0%
2019	0	0	1	0	1
Fail			0		0
Pass			1		1
Fail Rate	--	--	0.0%	--	0.0%
Pass Rate	--	--	100.0%	--	100.0%
Totals	13,173	1,587	1,899	694	17,353
Fail	2,850	323	338	137	3,648
Pass	10,323	1,264	1,561	557	13,705

Model Year	Passenger Car	SUV	Truck	Van	Grand Total
Fail Rate	21.64%	20.35%	17.80%	19.74%	21.02%
Pass Rate	78.36%	79.65%	82.20%	80.26%	78.98%

SUBSEQUENT RETESTS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2) (iv) The number of vehicles tested by model year and vehicle type that initially failed and passed the second or subsequent retest.

Subsequent Retest By MY	Passenger Car	SUV	Truck	Van	Grand Total
1996	69	10	35	8	122
Subsequent Retest Fail	40	4	17	7	68
Subsequent Retest Pass	29	6	18	1	54
Fail Rate	57.97%	40.00%	48.57%	87.50%	55.74%
Pass Rate	42.03%	60.00%	51.43%	12.50%	44.26%
1997	63	14	37	0	114
Subsequent Retest Fail	35	7	19		61
Subsequent Retest Pass	28	7	18		53
Fail Rate	55.56%	50.00%	51.35%	--	53.51%
Pass Rate	44.44%	50.00%	48.65%	--	46.49%
1998	107	25	46	9	187
Subsequent Retest Fail	50	13	20	5	88
Subsequent Retest Pass	57	12	26	4	99
Fail Rate	46.73%	52.00%	43.48%	55.56%	47.06%
Pass Rate	53.27%	48.00%	56.52%	44.44%	52.94%
1999	118	16	21	7	162
Subsequent Retest Fail	60	5	7	2	74
Subsequent Retest Pass	58	11	14	5	88
Fail Rate	50.85%	31.25%	33.33%	28.57%	45.68%
Pass Rate	49.15%	68.75%	66.67%	71.43%	54.32%
2000	271	19	33	11	334
Subsequent Retest Fail	123	9	11	8	151
Subsequent Retest Pass	148	10	22	3	183
Fail Rate	45.39%	47.37%	33.33%	72.73%	45.21%
Pass Rate	54.61%	52.63%	66.67%	27.27%	54.79%
2001	228	28	27	18	301
Subsequent Retest Fail	103	8	13	8	132
Subsequent Retest Pass	125	20	14	10	169
Fail Rate	45.18%	28.57%	48.15%	44.44%	43.85%
Pass Rate	54.82%	71.43%	51.85%	55.56%	56.15%
2002	375	55	47	26	503
Subsequent Retest Fail	178	25	13	7	223

Subsequent Retest By MY	Passenger Car	SUV	Truck	Van	Grand Total
Subsequent Retest Pass	197	30	34	19	280
Fail Rate	47.47%	45.45%	27.66%	26.92%	44.33%
Pass Rate	52.53%	54.55%	72.34%	73.08%	55.67%
2003	229	23	21	8	281
Subsequent Retest Fail	102	6	6	4	118
Subsequent Retest Pass	127	17	15	4	163
Fail Rate	44.54%	26.09%	28.57%	50.00%	41.99%
Pass Rate	55.46%	73.91%	71.43%	50.00%	58.01%
2004	340	61	37	14	452
Subsequent Retest Fail	124	22	8	7	161
Subsequent Retest Pass	216	39	29	7	291
Fail Rate	36.47%	36.07%	21.62%	50.00%	35.62%
Pass Rate	63.53%	63.93%	78.38%	50.00%	64.38%
2005	224	25	10	13	272
Subsequent Retest Fail	93	12	4	5	114
Subsequent Retest Pass	131	13	6	8	158
Fail Rate	41.52%	48.00%	40.00%	38.46%	41.91%
Pass Rate	58.48%	52.00%	60.00%	61.54%	58.09%
2006	300	42	19	15	376
Subsequent Retest Fail	121	13	4	4	142
Subsequent Retest Pass	179	29	15	11	234
Fail Rate	40.33%	30.95%	21.05%	26.67%	37.77%
Pass Rate	59.67%	69.05%	78.95%	73.33%	62.23%
2007	164	17	20	11	212
Subsequent Retest Fail	63	8	8	5	84
Subsequent Retest Pass	101	9	12	6	128
Fail Rate	38.41%	47.06%	40.00%	45.45%	39.62%
Pass Rate	61.59%	52.94%	60.00%	54.55%	60.38%
2008	285	25	20	19	349
Subsequent Retest Fail	97	12	7	9	125
Subsequent Retest Pass	188	13	13	10	224
Fail Rate	34.04%	48.00%	35.00%	47.37%	35.82%
Pass Rate	65.96%	52.00%	65.00%	52.63%	64.18%
2009	95	9	7	2	113
Subsequent Retest Fail	31	5	2	1	39
Subsequent Retest Pass	64	4	5	1	74
Fail Rate	32.63%	55.56%	28.57%	50.00%	34.51%
Pass Rate	67.37%	44.44%	71.43%	50.00%	65.49%
2010	134	18	2	5	159
Subsequent Retest Fail	43	7	1	0	51
Subsequent Retest Pass	91	11	1	5	108
Fail Rate	32.09%	38.89%	50.00%	0.0%	32.08%
Pass Rate	67.91%	61.11%	50.00%	100.0%	67.92%

Subsequent Retest By MY	Passenger Car	SUV	Truck	Van	Grand Total
2011	46	2	8	2	58
Subsequent Retest Fail	14	0	3	0	17
Subsequent Retest Pass	32	2	5	2	41
Fail Rate	30.43%	0.0%	37.50%	0.0%	29.31%
Pass Rate	69.57%	100.0%	62.50%	100.0%	70.69%
2012	107	13	10	4	134
Subsequent Retest Fail	37	6	2	1	46
Subsequent Retest Pass	70	7	8	3	88
Fail Rate	34.58%	46.15%	20.00%	25.00%	34.33%
Pass Rate	65.42%	53.85%	80.00%	75.00%	65.67%
2013	29	5	2	0	36
Subsequent Retest Fail	5	1	0		6
Subsequent Retest Pass	24	4	2		30
Fail Rate	17.24%	20.00%	0.0%	--	16.67%
Pass Rate	82.76%	80.00%	100.0%	--	83.33%
2014	60	6	4	1	71
Subsequent Retest Fail	14	0	0	0	14
Subsequent Retest Pass	46	6	4	1	57
Fail Rate	23.33%	0.0%	0.0%	0.0%	19.72%
Pass Rate	76.67%	100.0%	100.0%	100.0%	80.28%
2015	4	1	0	1	6
Subsequent Retest Fail	0	0		1	1
Subsequent Retest Pass	4	1		0	5
Fail Rate	0.0%	0.0%	--	100.0%	16.67%
Pass Rate	100.0%	100.0%	--	0.00%	83.33%
2016	21	0	1	0	22
Subsequent Retest Fail	2		1		3
Subsequent Retest Pass	19		0		19
Fail Rate	9.52%	--	100.0%	--	13.64%
Pass Rate	90.48%	--	0.00%	--	86.36%
Grand Total	3,269	414	407	174	4,264
Subsequent Retest Fail	1,335	163	146	74	1,718
Subsequent Retest Pass	1,934	251	261	100	2,546
Fail Rate	40.84%	39.37%	35.87%	42.53%	40.29%
Pass Rate	59.16%	60.63%	64.13%	57.47%	59.71%

VEHICLE WAIVERS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2) (v) The number of vehicles tested by model year and vehicle type receiving a waiver.

A motorist may request a waiver from further inspection requirements for the current inspection cycle if the vehicle fails a second retest after repairs. In general, a waiver may be granted if the motorist exceeds the cost limit on emission-related repairs and adjustments at a recognized repair facility. The waiver repair cost limit excludes emission system warranty repairs and the repair/replacement of tampered emission control devices identified during the equipment check.

Vehicle owners can also apply for a waiver if their vehicles continue to fail the emissions test. A vehicle is eligible for a waiver when the following conditions are met:

1. The vehicle has failed an emissions inspection and following repair and re-inspection, it still does not meet test requirements. Repairs made over 180 days prior to the expiration of the license plate cannot be applied to the waiver repair cost limit.
2. The vehicle has passed a waiver emission equipment inspection to determine if emission control equipment is missing, modified or disconnected.

The Vehicle Inspection Reports (VIR) has been presented to the Waiver Investigator at the time a waiver is requested. The REPAIR DATA section of these reports has been completed in accordance with instructions provided on the report form. Motorists must bring their vehicle and itemized receipts for parts and labor to verify the emission related repairs.

1. For all vehicles which exceed the terms of the manufacturer's emission performance or defect warranty coverage at the time of the scheduled emission inspection, the owner must have emission related repairs performed on the vehicle at a recognized repair facility.
2. The actual costs of emission related repairs and adjustments exceed the repair cost limit for that vehicle's county of domicile. Only repairs that are related to the vehicle's cause of failure can be used to apply for a cost waiver. Costs covered by any warranty or costs to repair/replace emission control equipment that has been removed, modified or disconnected are excluded.
3. Until July 1, 2019, the repair cost limit for all model year vehicles subject to testing was \$896.00. The waiver repair cost limit was adjusted to \$918.00 on July 1, 2019. This figure is adjusted annually by the DNR per NR 485.045.

The following chart illustrates the cost waivers granted in 2019 by model year. Since odd model year vehicles were tested in 2019, they account for the majority of the waivers.

<i>Model Year</i>	<i>Initial Fail</i>	<i>Diagnostic Waiver</i>	<i>Cost Waiver</i>	<i>Grand Total</i>	<i>Waiver Rate</i>
All 1996	710	1	3		
Passenger Car	436	1	2	3	0.69%
SUV	68	0		0	--
Truck	173	0	1	1	0.58%
Van	33	0		0	--
All 1997	521		1		
Passenger Car	296		1	1	0.34%
SUV	66	0		0	--
Truck	143	0		0	--
Van	16	0		0	--
All 1998	1,393	5	5		
Passenger Car	893	5	3	8	0.90%
SUV	130	0		0	--
Truck	315	0	1	1	0.32%
Van	55	0	1	1	1.82%
All 1999	778		2		
Passenger Car	555		2	2	0.36%
SUV	99	0		0	--
Truck	99	0		0	--
Van	25	0		0	--
All 2000	2,507	1	4		
Passenger Car	1,861		3	3	0.16%
SUV	216	0		0	--
Truck	314	1	1	2	0.64%
Van	116	0		0	--
All 2001	1,449		7		
Passenger Car	1,042		5	5	0.48%
SUV	174	0		0	--
Truck	156	0	2	2	1.28%
Van	77	0		0	--
All 2002	4,104		14		
Passenger Car	3,001		13	13	0.43%
SUV	494	0		0	--
Truck	422	0		0	--
Van	187	0	1	1	0.53%
All 2003	1,560	2	3		
Passenger Car	1,152	1	3	4	0.35%
SUV	226	0		0	--
Truck	124	1		1	0.81%
Van	58	0		0	--
All 2004	4,227	1	6		
Passenger Car	3,097	1	5	6	0.19%
SUV	555	0		0	--

<i>Model Year</i>	<i>Initial Fail</i>	<i>Diagnostic Waiver</i>	<i>Cost Waiver</i>	<i>Grand Total</i>	<i>Waiver Rate</i>
Truck	438	0		0	--
Van	137	0	1	1	0.73%
All 2005	1,626		6		
Passenger Car	1,191		4	4	0.34%
SUV	225	0	1	1	0.44%
Truck	94	0	1	1	1.06%
Van	116	0		0	--
All 2006	4,082	1	11		
Passenger Car	3,141	1	9	10	0.32%
SUV	472	0	1	1	0.21%
Truck	277	0	1	1	0.36%
Van	192	0		0	--
All 2007	1,406		2		
Passenger Car	1,005		2	2	0.20%
SUV	198				--
Truck	125				--
Van	78				--
All 2008	3,523	2	10		
Passenger Car	2,663		5	5	0.19%
SUV	384		3	3	0.78%
Truck	298	2	1	3	1.01%
Van	178		1	1	0.56%
All 2009	647		2		
Passenger Car	488		2	2	0.41%
SUV	84				--
Truck	49				--
Van	26				--
All 2010	1,885	1	4		
Passenger Car	1,443	1	3	4	0.28%
SUV	229				--
Truck	109				--
Van	104		1	1	0.96%
All 2011	542		1		
Passenger Car	395		1	1	0.25%
SUV	77				--
Truck	51				--
Van	19				--
All 2012	1,639		7		
Passenger Car	1,250		6	6	0.48%
SUV	197				--
Truck	112				--
Van	80		1	1	1.25%
All 2013	329	4			

<i>Model Year</i>	<i>Initial Fail</i>	<i>Diagnostic Waiver</i>	<i>Cost Waiver</i>	<i>Grand Total</i>	<i>Waiver Rate</i>
Passenger Car	232	1		1	0.43%
SUV	43				--
Truck	33	1		1	3.03%
Van	21	2		2	9.52%
All 2014	1,053				
Passenger Car	759				--
SUV	136				--
Truck	90				--
Van	68				--
All 2015	107				
Passenger Car	65				--
SUV	18				--
Truck	16				--
Van	8				--
All 2016	392				
Passenger Car	192				--
SUV	92				--
Truck	61				--
Van	47				--
All 2017	21				
Passenger Car	13				--
SUV	6				--
Truck	1				--
Van	1				--
All 2018	7				
Passenger Car	4				--
SUV	2				--
Truck	0				--
Van	1				--
All 2019	2				
Passenger Car	0				--
SUV	0				--
Truck	1				--
Van	1				--
Grand Total	34,510	18	88	106	0.31%
<i>Passenger Car</i>	25,174	11	69	80	0.32%
<i>SUV</i>	4,191	0	5	5	0.12%
<i>Truck</i>	3,501	5	8	13	0.37%
<i>Van</i>	1,644	2	6	8	0.49%

NO FINAL OUTCOME

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(vi) The number of vehicles tested by model year and vehicle type with no final outcome (regardless of reason).

The vehicles included in the table below did not have a final outcome of either a pass or waiver test result during the reporting period.

Vehicles with No Known Final Outcome

MODEL YEAR	PASSENGER CAR		SUV		TRUCK		VAN		ALL	
	INITIAL FAIL	NO OUTCOME	INITIAL FAIL	NO OUTCOME	INITIAL FAIL	NO OUTCOME	INITIAL FAIL	NO OUTCOME	INITIAL FAIL	NO OUTCOME
1996	433	157	68	20	172	60	33	13	706	250
1997	295	157	66	22	143	60	16	6	520	245
1998	885	300	130	47	314	103	54	20	1,383	470
1999	553	255	99	47	99	46	25	7	776	355
2000	1,858	600	216	75	312	84	116	50	2,502	809
2001	1,037	479	174	74	154	54	77	36	1,442	643
2002	2,988	953	494	167	422	110	186	51	4,090	1,281
2003	1,147	490	225	90	123	32	58	26	1,553	638
2004	3,091	951	555	179	438	103	136	50	4,220	1,283
2005	1,187	495	224	90	93	29	116	48	1,620	662
2006	3,131	922	471	122	276	57	192	59	4,070	1,160
2007	1,003	406	198	75	125	43	78	22	1,404	546
2008	2,658	672	381	109	295	61	177	31	3,511	873
2009	485	178	84	30	49	13	26	8	644	229
2010	1,439	312	229	60	109	22	103	22	1,880	416
2011	394	145	77	23	51	14	19	2	541	184
2012	1,244	232	197	30	112	24	79	10	1,632	296
2013	231	71	43	14	32	11	19	7	325	103
2014	759	150	136	25	90	15	68	10	1,053	200
2015	64	24	18	3	16	4	8	1	106	32
2016	191	37	91	8	61	15	47	13	390	73
2017	13	8	6	3	1	0	1	1	21	12
2018	4	2	2	2	0	0	1	0	7	4
2019	0	0	0	0	1	0	1	1	2	1
GRAND TOTAL	25,090	7,996	4,184	1,315	3,488	960	1,636	494	34,398	10,765

VEHICLES PASSING OR FAILING OBD TEST

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xi) (xii) The number of vehicles tested by model year and vehicle type passing or failing the on-board diagnostic check.

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
1996	4,574	523	1,451	192	6,740
FAIL	433	68	172	33	706
PASS	4,141	455	1,279	159	6,034
FAIL RATE	9.47%	13.00%	11.85%	17.19%	10.47%
PASS RATE	90.53%	87.00%	88.15%	82.81%	89.53%
1997	1,974	328	698	100	3,100
FAIL	295	66	143	16	520
PASS	1,679	262	555	84	2,580
FAIL RATE	14.94%	20.12%	20.49%	16.00%	16.77%
PASS RATE	85.06%	79.88%	79.51%	84.00%	83.23%
1998	8,441	1,004	2,597	368	12,410
FAIL	885	130	314	54	1,383
PASS	7,556	874	2,283	314	11,027
FAIL RATE	10.48%	12.95%	12.09%	14.67%	11.14%
PASS RATE	89.52%	87.05%	87.91%	85.33%	88.86%
1999	3,710	675	857	167	5,409
FAIL	553	99	99	25	776
PASS	3,157	576	758	142	4,633
FAIL RATE	14.91%	14.67%	11.55%	14.97%	14.35%
PASS RATE	85.09%	85.33%	88.45%	85.03%	85.65%
2000	16,603	1,975	3,721	890	23,189
FAIL	1,858	216	312	116	2,502
PASS	14,745	1,759	3,409	774	20,687
FAIL RATE	11.19%	10.94%	8.38%	13.03%	10.79%
PASS RATE	88.81%	89.06%	91.62%	86.97%	89.21%
2001	5,769	991	1,281	308	8,349
FAIL	1,037	174	154	77	1,442
PASS	4,732	817	1,127	231	6,907
FAIL RATE	17.98%	17.56%	12.02%	25.00%	17.27%
PASS RATE	82.02%	82.44%	87.98%	75.00%	82.73%
2002	26,192	4,140	5,209	1,270	36,811
FAIL	2,988	494	422	186	4,090
PASS	23,204	3,646	4,787	1,084	32,721
FAIL RATE	11.41%	11.93%	8.10%	14.65%	11.11%
PASS RATE	88.59%	88.07%	91.90%	85.35%	88.89%

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
2003	8,688	1,739	1,410	495	12,332
FAIL	1,148	226	123	58	1,555
PASS	7,540	1,513	1,287	437	10,777
FAIL RATE	13.21%	13.00%	8.72%	11.72%	12.61%
PASS RATE	86.79%	87.00%	91.28%	88.28%	87.39%
2004	36,161	6,107	6,056	1,564	49,888
FAIL	3,091	555	438	136	4,220
PASS	33,070	5,552	5,618	1,428	45,668
FAIL RATE	8.55%	9.09%	7.23%	8.70%	8.46%
PASS RATE	91.45%	90.91%	92.77%	91.30%	91.54%
2005	11,234	2,288	1,395	918	15,835
FAIL	1,187	224	93	116	1,620
PASS	10,047	2,064	1,302	802	14,215
FAIL RATE	10.57%	9.79%	6.67%	12.64%	10.23%
PASS RATE	89.43%	90.21%	93.33%	87.36%	89.77%
2006	45,790	6,054	5,392	2,567	59,803
FAIL	3,131	471	276	192	4,070
PASS	42,659	5,583	5,116	2,375	55,733
FAIL RATE	6.84%	7.78%	5.12%	7.48%	6.81%
PASS RATE	93.16%	92.22%	94.88%	92.52%	93.19%
2007	13,058	2,696	1,701	825	18,280
FAIL	1,003	198	125	78	1,404
PASS	12,055	2,498	1,576	747	16,876
FAIL RATE	7.68%	7.34%	7.35%	9.45%	7.68%
PASS RATE	92.32%	92.66%	92.65%	90.55%	92.32%
2008	52,698	8,087	6,811	2,661	70,257
FAIL	2,658	381	295	177	3,511
PASS	50,040	7,706	6,516	2,484	66,746
FAIL RATE	5.04%	4.71%	4.33%	6.65%	5.00%
PASS RATE	94.96%	95.29%	95.67%	93.35%	95.00%
2009	9,328	1,610	948	409	12,295
FAIL	486	84	49	26	645
PASS	8,842	1,526	899	383	11,650
FAIL RATE	5.21%	5.22%	5.17%	6.36%	5.25%
PASS RATE	94.79%	94.78%	94.83%	93.64%	94.75%
2010	47,598	6,209	5,470	2,020	61,297
FAIL	1,439	229	109	103	1,880
PASS	46,159	5,980	5,361	1,917	59,417
FAIL RATE	3.02%	3.69%	1.99%	5.10%	3.07%
PASS RATE	96.98%	96.31%	98.01%	94.90%	96.93%
2011	10,619	2,726	1,666	598	15,609
FAIL	394	77	51	19	541
PASS	10,225	2,649	1,615	579	15,068

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
FAIL RATE	3.71%	2.82%	3.06%	3.18%	3.47%
PASS RATE	96.29%	97.18%	96.94%	96.82%	96.53%
2012	60,360	8,797	7,028	2,486	78,671
FAIL	1,244	197	112	79	1,632
PASS	59,116	8,600	6,916	2,407	77,039
FAIL RATE	2.06%	2.24%	1.59%	3.18%	2.07%
PASS RATE	97.94%	97.76%	98.41%	96.82%	97.93%
2013	12,756	3,052	1,675	676	18,159
FAIL	231	43	32	19	325
PASS	12,525	3,009	1,643	657	17,834
FAIL RATE	1.81%	1.41%	1.91%	2.81%	1.79%
PASS RATE	98.19%	98.59%	98.09%	97.19%	98.21%
2014	63,813	15,404	9,437	3,571	92,225
FAIL	759	136	90	68	1,053
PASS	63,054	15,268	9,347	3,503	91,172
FAIL RATE	1.19%	0.88%	0.95%	1.90%	1.14%
PASS RATE	98.81%	99.12%	99.05%	98.10%	98.86%
2015	4,756	1,845	965	529	8,095
FAIL	65	18	16	8	107
PASS	4,691	1,827	949	521	7,988
FAIL RATE	1.37%	0.98%	1.66%	1.51%	1.32%
PASS RATE	98.63%	99.02%	98.34%	98.49%	98.68%
2016	35,618	29,882	9,899	6,515	81,914
FAIL	192	92	61	47	392
PASS	35,426	29,790	9,838	6,468	81,522
FAIL RATE	0.54%	0.31%	0.62%	0.72%	0.48%
PASS RATE	99.46%	99.69%	99.38%	99.28%	99.52%
2017	1,646	1,486	453	321	3,906
FAIL	13	6	1	1	21
PASS	1,633	1,480	452	320	3,885
FAIL RATE	0.79%	0.40%	0.22%	0.31%	0.54%
PASS RATE	99.21%	99.60%	99.78%	99.69%	99.46%
2018	368	303	74	47	792
FAIL	4	2	0	1	7
PASS	364	301	74	46	785
FAIL RATE	1.09%	0.66%	0.0%	2.13%	0.88%
PASS RATE	98.91%	99.34%	100.0%	97.87%	99.12%
2019	128	112	42	16	298
FAIL	0	0	1	1	2
PASS	128	112	41	15	296
FAIL RATE	0.0%	0.0%	2.38%	6.25%	0.67%
PASS RATE	100.0%	100.0%	97.62%	93.75%	99.33%
2020	24	4	1	0	29

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
FAIL	0	0	0		0
PASS	24	4	1		29
FAIL RATE	0.0%	0.0%	0.0%	--	0.0%
PASS RATE	100.0%	100.0%	100.0%	--	100.0%
GRAND TOTAL	481,906	108,037	76,237	29,513	695,693
FAIL	25,094	4,186	3,488	1,636	34,404
PASS	456,812	103,851	72,749	27,877	661,289
FAIL RATE	5.21%	3.87%	4.58%	5.54%	4.95%
PASS RATE	94.79%	96.13%	95.42%	94.46%	95.05%

COMPARISON OF ON-BOARD DIAGNOSTIC TESTS WITH OTHER TEST TYPES

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xiii) –(xviii) There is no data for comparing on-board diagnostic tests with other test types because Wisconsin only conducts on-board diagnostic tests.

CHECK ENGINE LIGHT COMMANDED ON

A small population of vehicles in southeastern Wisconsin produces most of the vehicle exhaust pollution – these are the so-called gross polluters. As vehicles are driven, problems can develop because of defective parts, improper maintenance or simply from deterioration due to age and usage. This helps explain why a vehicle can be relatively clean one year and become a gross polluter at the time of its next inspection. Since hydrocarbon, carbon monoxide and nitrogen oxides are invisible, a vehicle inspection is an effective method to ensure that a vehicle is not polluting excessively.

In most cases, if the vehicle's check engine light is commanded on due to an emission component malfunction, then the Diagnostic Trouble Codes (DTC) are recorded and provided to the motorist. The vehicle will fail this portion of the inspection if the check engine light is commanded on. However, there are also some instances where the check engine light is on but no DTCs are stored. In either case, the vehicle will need to be repaired and brought back for a re-inspection.

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xix) The number of vehicles tested by model year and vehicle type where the MIL is commanded on and no codes are stored

MIL Commanded On, No DTCs

There were no instances where the MIL was commanded on with no codes stored in 2019.

Another condition that can occur is when the vehicle's check engine light is NOT commanded on but a Diagnostic Trouble Codes (DTC) is stored within the vehicle's computer. The most likely reason for this condition is a fault code indicating a problem within the vehicle that **had** met the threshold for activating the check engine light but has since resolved itself. Since the MIL is not commanded on, the vehicle will pass this portion of the inspection.

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xx)

The number of vehicles tested by model year and vehicle type where the MIL is not commanded on and codes are stored.

MIL Not Commanded On, DTCs Stored

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
1996	466	72	212	24	774
1997	222	44	86	14	366
1998	973	110	371	48	1,502
1999	469	92	110	27	698
2000	1,718	242	467	96	2,523
2001	829	154	185	60	1,228
2002	3,255	585	535	162	4,537
2003	1,261	289	148	56	1,754
2004	4,508	796	554	210	6,068
2005	1,439	271	144	136	1,990
2006	5,223	845	497	343	6,908
2007	1,510	346	152	110	2,118
2008	4,516	731	611	320	6,178
2009	806	182	91	63	1,142
2010	2,851	415	346	223	3,835
2011	696	169	126	56	1,047
2012	2,845	458	328	208	3,839
2013	584	136	95	43	858
2014	1,883	455	336	141	2,815
2015	143	51	36	21	251
2016	534	383	180	101	1,198
2017	16	18	11	3	48
2018	6	3	4	1	14
2019	1	0	1	0	2
GRAND TOTAL	36,754	6,847	5,626	2,466	51,693

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xxi)

The number of vehicles tested by model year and vehicle type where the MIL is commanded on and codes are stored.

MIL Commanded On, DTCs Stored

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
1996	415	65	161	30	671
1997	275	62	134	14	485
1998	852	121	297	48	1,318
1999	527	95	95	21	738
2000	1,777	200	291	111	2,379
2001	1,006	165	146	69	1,386
2002	2,893	464	395	176	3,928
2003	1,118	212	114	52	1,496
2004	3,008	520	401	130	4,059
2005	1,155	219	90	110	1,574
2006	3,051	462	261	185	3,959
2007	982	191	123	75	1,371
2008	2,600	378	291	171	3,440
2009	478	81	48	26	633
2010	1,403	228	105	102	1,838
2011	386	74	50	19	529
2012	1,221	194	111	78	1,604
2013	225	43	32	19	319
2014	728	131	87	67	1,013
2015	62	16	16	8	102
2016	176	89	59	46	370
2017	13	6	1	1	21
2018	4	2	0	1	7
2019	0	0	1	1	2
GRAND TOTAL	24,355	4,018	3,309	1,560	33,242

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xxii)

The number of vehicles tested by model year and vehicle type where the MIL is not commanded on and codes are not stored.

MIL Not Commanded On, No DTCs Stored

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
1996	4,319	452	1,283	172	6,226
1997	1,855	261	590	91	2,797
1998	7,950	929	2,300	337	11,516
1999	3,378	622	776	143	4,919
2000	15,275	1,776	3,445	794	21,290
2001	5,939	972	1,393	311	8,615
2002	25,415	3,937	5,262	1,236	35,850
2003	8,348	1,635	1,441	507	11,931
2004	33,683	5,670	6,052	1,438	46,843
2005	10,759	2,201	1,397	825	15,182
2006	42,752	5,461	5,217	2,264	55,694
2007	12,213	2,495	1,650	730	17,088
2008	49,957	7,578	6,690	2,426	66,651
2009	8,983	1,515	974	364	11,836
2010	45,957	5,892	5,440	1,871	59,160
2011	10,480	2,659	1,686	590	15,415
2012	59,010	8,491	7,045	2,345	76,891
2013	12,615	2,972	1,744	683	18,014
2014	63,030	15,077	9,428	3,521	91,056
2015	4,743	1,820	1,012	544	8,119
2016	35,536	29,693	10,029	6,501	81,759
2017	1,636	1,476	455	321	3,888
2018	366	305	72	46	789
2019	130	114	41	18	303
2020	25	4	1	0	30
GRAND TOTAL	464,354	104,007	75,423	28,078	671,862

READINESS MONITORS:

A vehicle's OBD system continually tracks and stores information about the emission control devices and other engine related components. Readiness monitors indicate if components have been fully evaluated and whether system components have experienced any driving conditions that prevent the vehicle from operating as designed by the manufacturer. The test equipment reads the readiness monitor statuses as part of the vehicle emissions inspection.

Vehicles "Not Ready" for OBD testing receive a reject test result. For 1996 - 2000 model year vehicles, a vehicle can have up to 2 readiness monitors unset; for 2001 and newer vehicles, only 1 readiness monitor can be unset. If the unset readiness monitors exceed the requirements, the vehicle will be rejected from further testing until this condition is corrected.

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xxiii)

The number of vehicles tested by model year and vehicle type where the readiness status indicates that the evaluation is not complete for any module supported by on-board diagnostic systems.

Readiness Monitors Not Complete By Model Year and Vehicle Type

MODEL YEAR	PASSENGER CAR	SUV	TRUCK	VAN	GRAND TOTAL
1996	619	75	218	40	952
1997	409	53	132	18	612
1998	1,347	164	384	70	1,965
1999	692	141	153	25	1,011
2000	2,230	262	463	114	3,069
2001	2,222	340	464	162	3,188
2002	5,797	937	1,032	335	8,101
2003	2,205	433	308	134	3,080
2004	5,317	930	989	233	7,469
2005	2,274	438	245	198	3,155
2006	5,493	792	606	262	7,153
2007	1,764	361	231	113	2,469
2008	4,372	645	790	288	6,095
2009	953	185	176	47	1,361
2010	2,519	346	431	184	3,480
2011	952	175	202	69	1,398
2012	2,565	349	460	146	3,520
2013	654	95	202	67	1,018
2014	1,714	241	409	149	2,513
2015	180	33	97	44	354
2016	538	201	355	122	1,216
2017	17	11	14	4	46
2018	7	4	2	1	14
2019	2	2	0	3	7

MODEL YEAR	Passenger Car	SUV	Truck	Van	Grand Total
2020	1	0	0	0	1
GRAND TOTAL	44,843	7,213	8,363	2,828	63,247

INITIAL TEST VOLUME BY MODEL YEAR AND STATION

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(3)

The initial test volume by model year and test station.

Data Found in Appendix I

INITIAL TEST FAILURE RATE BY MODEL YEAR AND TEST STATION

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(4)

The initial test failure rate by model year and test station

Data Found in Appendix 2

CHANGE IN TAILPIPE EMISSION LEVELS AFTER REPAIRS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(5)

The average increase or decrease in tailpipe emission levels for HC, CO and NOX (if applicable) after repairs by model year and vehicle type for vehicles receiving a mass emissions test.

Not Applicable – On-Board Diagnostic Testing Only

QUALITY ASSURANCE REPORT

TESTING NETWORK

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(1)(i)

The number of inspection stations and lanes

The testing network consists of 200 stations and five technical assistance centers. The Private Inspection facilities are listed below.

PRIVATE INSPECTION FACILITIES OPERATING ON DECEMBER 31, 2019

Station Number	Company	Address	City	Zip
WIST1003	ALLENTON SERVICE	5908 HILLCREST DR	ALLENTON	53002
WIST1012	BUTLER AUTO BODY	4830 N. 125TH STREET	BUTLER	53007
WIST1016	TENLEY AUTO	9208 W CAPITOL DR	MILWAUKEE	53222
WIST1020	DONS GARAGE	11916 ANTIOCH RD	TREVOR	53179
WIST1021	WISCO AUTOMOTIVE	496 PINE STREET	BURLINGTON	53105
WIST1022	VI AUTO REPAIR INC	1552 WISCONSIN AVE	GRAFTON	53024
WIST1023	CHANGING LANES LLC	5700 W. CENTER STREET	MILWAUKEE	53210
WIST1024	AUTOPLEX OF MILWAUKEE LLC	5130 W FOREST HOME AVE	MILWAUKEE	53219
WIST1025	TAKE 5 OIL CHANGE-BROWN DEER	6942 W BROWN DEER RD	MILWAUKEE	53223
WIST2015	HEISER TOYOTA/SCION INC	11301 W. METRO AUTO MALL	MILWAUKEE	53224
WIST2017	EWALD CHEVROLET BUICK LLC-OCONOMOWOC	36833 E WISCONSIN AVE	OCONOMOWOC	53066
WIST2019	AUTOMOTIVE SOLUTIONS	215 KLEIN LANE	SAUKVILLE	53080
WIST2021	PORT WASHINGTON SUPERLUBE	1610 N WISCONSIN ST	PORT WASHINGTON	53074
WIST2024	VALVOLINE - MAIN ST. WAUKESHA	1951 E MAIN ST	WAUKESHA	53186
WIST2025	LAKE SHORE MOBIL	2521 E. CAPITOL DR.	SHOREWOOD	53211
WIST2027	PENNZOIL PEWAUKEE	1284 CAPITOL DR.	PEWAUKEE	53072
WIST2028	TIRES UNLIMITED AUTOMOTIVE SERVICES	1557 N WISCONSIN ST	PORT WASHINGTON	53074
WIST2029	ROAD RUNNER EXPRESS	5275 S. MOORLAND RD	New Berlin	53151
WIST2030	A & J AUTOMOTIVE	8401 W. HAMPTON AVE	MILWAUKEE	53225
WIST2031	MEINEKE-RACINE	6006 21ST STREET	RACINE	53406
WIST2032	RUSS DARROW NISSAN OF WEST BEND LLC	2665 W. WASHINGTON AVE	WEST BEND	53095
WIST2033	KERNS ON 76TH	7960 NORTH 76TH STREET	MILWAUKEE	53223
WIST2035	TECH WAY AUTO	4004 S KINNICKINNIC AVE	SAINT FRANCIS	53235
WIST2036	TAKE 5 OIL CHANGE-RACINE	5428 WASHINGTON AVE	RACINE	53406
WIST2037	JIFFY LUBE - STURTEVANT(D)	7127 DURAND AVE	STURTEVANT	53177
WIST3003	ACCELERATED AUTO SERVICE	667 WEST STATE STREET	BURLINGTON	53105
WIST3005	GORDIE BOUCHER FORD LINCOLN-WEST BEND	3021 W. WASHINGTON STREET	WEST BEND	53095
WIST3006	MARTIN'S AUTOMOTIVE SERVICE	W230S8750 WYNN DR	BIG BEND	53103
WIST3013	JOHN AMATO HYUNDAI INC.	8301 N. 76TH ST.	MILWAUKEE	53223

Station Number	Company	Address	City	Zip
WIST3014	KOMP TECH AUTOMOTIVE & SERVICE	8832 W GREENFIELD AVE	WEST ALLIS	53214
WIST3015	CARLTON AUTOMOTIVE INC	39 CENTER AVE	OOSTBURG	53070
WIST3018	LARRYS AUTO	6373 N 91ST ST	MILWAUKEE	53225
WIST3021	ERIC VON SCHLEDORN-RANDOM LAKE	W4873 COUNTY ROAD RR	RANDOM LAKE	53075
WIST3022	FLEET 1	749 W State Street	Milwaukee	53223
WIST3024	VALVOLINE - GREENFIELD	4839 S. 27TH STREET	GREENFIELD	53221
WIST3030	MERLIN 200,000 MILE SHOP	8601 75TH ST.	KENOSHA	53142
WIST3032	M & D AUTO SERVICES	W19 N7533 BECKER DR	LANNON	53046
WIST3034	VALVOLINE SUSSEX	N65 W24922 HIGHWAY VV	SUSSEX	53089
WIST3035	RIGHTEOUS AUTOS INC.	6142 DOUGLAS AVENUE	RACINE	53402
WIST3036	TAKE 5 OIL CHANGE-NEW BERLIN	15400 W. NATIONAL AVE	NEW BERLIN	53151
WIST3037	TAKE 5 OIL CHANGE-WEST ALLIS	3130 S 108TH ST	WEST ALLIS	53227
WIST4002	JOE'S SLINGER SERVICE LLC	220 INFO HWY. COURT	SLINGER	53086
WIST4003	KUSCH'S AUTOMOTIVE	136 N. 120TH ST.	WAUWATOSA	53226
WIST4014	LAUBENHEIMERS GARAGE LLC	1860 HWY 175 PO BOX 36	RICHFIELD	53076
WIST4017	F & F TIRE WORLD-FRANKLIN (D)	2930 W. RAWSON AVE.	FRANKLIN	53132
WIST4026	RUSS DARROW KIA OF WAUWATOSA	1901 N. MAYFAIR RD	WAUWATOSA	53226
WIST4031	R & R AUTOMOTIVE	6930 39TH AVE	KENOSHA	53142
WIST4032	LAUS TIRE & AUTO	5025 W VILLARD AVE	MILWAUKEE	53218
WIST4040	EWALD VENUS FORD-CUDAHY	2727 E LAYTON	CUDAHY	53110
WIST4042	MEINEKE CAR CARE CENTER	4320 S. 27TH STREET	MILWAUKEE	53221
WIST4045	BOBS MAIN STREET AUTO-MAIN ST	1200 N MAIN ST	WEST BEND	53090
WIST4048	WEST BEND SUPERLUBE	2353 W WASHINGTON ST	WEST BEND	53095
WIST4049	LABELLE AUTO	N56W39413 HIGHWAY 16	OCONOMOWOC	53066
WIST4050	RICK'S CAR CARE	6121 W MEQUON RD	MEQUON	53092
WIST4051	KASTENSON AUTO	21445 DURAND AVE	UNION GROVE	53182
WIST4053	LIBERTY STREET AUTOMOTIVE	1600 DURAND AVE	RACINE	53403
WIST4054	VALVOLINE-PLYMOUTH	1950 EASTERN AVE.	PLYMOUTH	53073
WIST4055	MUNRO'S AUTO SERVICE	5048 S 27TH STREET	MILWAUKEE	53221
WIST4057	MARKS MOBIL SERVICE LLC	12401 W. CLEVELAND AVE	NEW BERLIN	53151
WIST4058	GREITENS AUTO SERVICE	5804 W. BLUEMOUND RD	MILWAUKEE	53213
WIST4060	MCDEVITTS TOWING AND SERVICE	5150 60TH ST	KENOSHA	53144
WIST4061	LAKE COUNTRY AUTO CARE INC.	449 HICKORY STREET	PEWAUKEE	53072
WIST4062	MUFFLER MAGIC COMPLETE CAR CARE	9055 N 76TH STREET	MILWAUKEE	53223
WIST4063	JIMS AUTO SERVICE - PLYMOUTH	W4131 MAIN RD	PLYMOUTH	53073
WIST4064	EWALD HARTFORD FORD LLC	2570 E SUMNER STREET	HARTFORD	53027
WIST4066	TAKE 5 OIL CHANGE - CAPITOL	7515 W CAPITOL DR	MILWAUKEE	53216
WIST4067	TAKE 5 OIL CHANGE SHEBOYGAN- TAYLOR	3669 S. TAYLOR DR	SHEBOYGAN	53081
WIST5003	RUSS DARROW CHRYSLER JEEP DODGE-METRO AUTO MALL	10901 W METRO AUTO MALL	MILWAUKEE	53224
WIST5004	O'GORMANS WEST TOWN AUTO	7105 W NORTH AVE	WAUWATOSA	53213
WIST5005	DAVE'S GARAGE INC-GREENFIELD	5454 W FOREST HOME AVE	GREENFIELD	53220
WIST5008	BOBS MAIN STREET AUTO-DECORAH	115 W. DECORAH RD	WEST BEND	53095
WIST5009	F & F TIRE WORLD-MOORLAND(D)	410 N. MOORLAND RD	BROOKFIELD	53005

Station Number	Company	Address	City	Zip
WIST5011	F & F TIRE WORLD-BLUEMOUND(D)	20120 BLUEMOUND RD.	BROOKFIELD	53045
WIST5015	DURAND AUTOMOTIVE CENTER	1623 DURAND AVENUE	RACINE	53403
WIST5017	PRO AUTO CENTER	303 E MONROE AVE	HARTFORD	53027
WIST5023	RUSS DARROW MITSUBISHI-WAUKESHA	W226 S1700 HWY 164	WAUKESHA	53186
WIST5029	PALMEN BUICK, GMC, CADILLAC	7110 74TH PLACE	KENOSHA	53142
WIST5037	RICHLONNS TIRE & SERVICE-GREENFIELD	4440 S 108TH ST	GREENFIELD	53228
WIST5044	RUSS DARROW NISSAN LLC-METRO BLVD	11212 W. METRO BLVD	MILWAUKEE	53224
WIST5045	DAVE'S TRUCK & 4X4 REPAIR, LLC- JACKSON	2993 SHERMAN RD.	JACKSON	53037
WIST5049	CHRIS AUTO SERVICE	14000 W. GREENFIELD AVE.	BROOKFIELD	53005
WIST5053	MAYER AUTOMOTIVE LLC	W6082 COUNTY ROAD W	CASCADE	53011
WIST5055	CURRIE PARK AUTO CENTER	10745 W. CAPITOL DR.	WAUWATOSA	53222
WIST5058	RUBY ISLE AUTO	11137 W SILVER SPRING DR.	MILWAUKEE	53225
WIST5066	GRADYS BP	6272 SOUTH PACKARD AVE	CUDAHY	53110
WIST5074	VALVOLINE-68TH ST.	112 S 68TH STREET	MILWAUKEE	53214
WIST5077	MENOMONEE FALLS SUPER LUBE	W156 N8390 PILGRIM RD	MENOMONEE FALLS	53095
WIST5079	MILLER MOTORS SALES INC	1196 MILWAUKEE AVE	BURLINGTON	53105
WIST5080	WRENCH WORKZ LLC	1285 MORGAN DRIVE	HUBERTUS	53033
WIST5081	SHEBOYGAN CHEVROLET	3400 S. BUSINESS DRIVE	SHEBOYGAN	53081
WIST5082	SDR TOTAL REPAIRS & TRANSMISSION CENTER	3625 ROOSEVELT ROAD	KENOSHA	53142
WIST5083	FIRST RATE AUTO SERVICE	5424 W STATE STREET	MILWAUKEE	53208
WIST5084	SHEBOYGAN AUTO HELPERS	3667 S TAYLOR DRIVE	SHEBOYGAN	54081
WIST5085	EWALD CHRYSLER JEEP DODGE RAM	6319 S 108TH STREET	FRANKLIN	53132
WIST5086	KWIKY LUBE PLUS	N88 W15220 MAIN STREET	MENOMONEE FALLS	53051
WIST5087	BULLY DIESEL AND AUTOMOTIVE REPAIR	5512 - 75TH ST	KENOSHA	53142
WIST6001	M & M DOUGLAS PARK SERVICE CENTER INC	2101 DOUGLAS AVE	RACINE	53402
WIST6004	CHUCK'S MAIN STREET AUTO	N64 W23876 MAIN ST	SUSSEX	53089
WIST6007	ANDERSON AUTOMOTIVE	240 HIGHLAND DRIVE	FREDONIA	53021
WIST6013	LUTTER'S ELMBROOK AUTOMOTIVE	16880 GREENFIELD AVENUE	BROOKFIELD	53005
WIST6018	PAULS BENDER CENTER	8313 22ND AVE	KENOSHA	53143
WIST6021	MADDISON AUTOMOTIVE	219 N. WALES RD.	WALES	53183
WIST6022	HALL AUTOMOTIVE	704 BLUEMOUND RD	WAUKESHA	53188
WIST6026	MARTIN FORD SALES INC	19215 SPRING STREET	UNION GROVE	53182
WIST6031	VALVOLINE INSTANT OIL CHANGE- MUSKEGO	W187S7825 LIONS PARK DR	MUSKEGO	53150
WIST6033	ERIC VON SCHELDORN-SAUKVILLE	805 E GREEN BAY RD	SAUKVILLE	53080
WIST6034	NEW BERLIN TIRE (D)	15650 W NATIONAL AVE	NEW BERLIN	53151
WIST6035	GOOD HOPE SERVICE	4230 W. GOOD HOPE RD.	MILWAUKEE	53209
WIST6037	VALVOLINE - KENOSHA	3015 52ND STREET	KENOSHA	53142
WIST6039	VALVOLINE - DELAFIELD	2325 SUN VALLEY DR	DELAFIELD	53018
WIST6042	AMPORT AUTO SERVICE	1324C WHITE ROCK AVE	WAUKESHA	53186
WIST6043	MIL-CITY MOTORS LLC	7169 W FOND DU LAC AVE	MILWAUKEE	53218
WIST6044	FLEET AUTO SALES & SERVICES LLC	7400 W NATIONAL AVE	WEST ALLIS	53214
WIST6047	TAKE 5 OIL CHANGE-CEDARBURG	W62 N271 WASHINGTON AVE	CEDARBURG	53012
WIST6048	TAKE 5 OIL CHANGE - GLENDALE	5450 N Port Washington Rd	GLENDALE	53217

Station Number	Company	Address	City	Zip
WIST6049	TAKE 5 OIL CHANGE - WAUWATOSA	6207 W NORTH AVE	WAUWATOSA	53213
WIST6050	TAKE 5 OIL CHANGE-MUKWONAGO	1146 N ROCHESTER ST	MUKWONAGO	53149
WIST6051	TAKE 5 OIL CHANGE SHEBOYGAN- INDIANA AVE	1328 INDIANA AVENUE	SHEBOYGAN	53081
WIST6052	TAKE 5 OIL CHANGE SHEBOYGAN- CALUMET	2757 CALUMET DR.	SHEBOYGAN	53081
WIST6053	TAKE 5 OIL CHANGE - BROOKFIELD	14245 W CAPITOL DR	Brookfield	53005
WIST7004	PASSEHL'S BP	4625 TAYLOR AVE.	RACINE	53405
WIST7006	RUSS DARROW CHRYSLER WEST BEND	3210 WEST WASHINGTON ST	WEST BEND	53095
WIST7009	RUSS DARROW HONDA-METRO AUTO MALL	10851 W. Metro Auto Mall	MILWAUKEE	53224
WIST7011	SALEM AUTO SERVICE	8515 ANTIOCH RD	SALEM	53168
WIST7014	OAK CREEK AUTOMOTIVE INC	7948 S 27TH ST	OAK CREEK	53154
WIST7016	HARTLAND SERVICE INC	400 INDUSTRIAL DR	HARTLAND	53029
WIST7020	AMERICAN MUFFLER & AUTOMOTIVE	1008 S PINE ST	BURLINGTON	53105
WIST7022	JOHN PAUL'S GREENFIELD BUICK GMC	3615 S 108TH ST	GREENFIELD	53228
WIST7023	LISBON SALES & SERVICE (D)	7515 W LISBON AVE	MILWAUKEE	53222
WIST7031	NELSON'S AUTOMOTIVE OF PEWAUKEE	N30 W22383 GREEN RD	WAUKESHA	53186
WIST7033	PINKALLA AUTO SOLUTIONS	3059 DURAND AVE	RACINE	53403
WIST7036	RACINE AUTO SPECIALIST	2320 DOUGLAS AVENUE	RACINE	53402
WIST7039	RICHFIELD SERVICE	1810 WOLF RD	RICHFIELD	53076
WIST7040	RICHLONNS TIRE & SERVICE-MUSKEGO	578W18755 JANESVILLE RD	MUSKEGO	53150
WIST7041	RICHLONNS TIRE & SERVICE-GREENDALE	5131 S 76TH ST	GREENDALE	53129
WIST7042	RICHLONNS TIRE & SERVICE-WAUKESHA	2480 W SUNSET DR	WAUKESHA	53189
WIST7045	RIVERS EDGE OIL&TIRE- MUKWONAGO	811 S. ROCHESTER ST.	MUKWONAGO	53149
WIST7049	RUSS DARROW TOYOTA-WEST BEND	2700 WEST WASHINGTON STREET	WEST BEND	53095
WIST7052	SILVER LAKE AUTO & TIRE CENTER- OCONOMOWOC	36355 E WISCONSIN AVE	OCONOMOWOC	53066
WIST7053	SILVER LAKE AUTO SERVICE-SILVER LAKE	551 N COGSWELL DR	SILVER LAKE	53170
WIST7055	SOUTH MILWAUKEE CAR CARE CENTER	1221 N CHICAGO AVE	SOUTH MILWAUKEE	53172
WIST7056	SOUTHTOWN TIRE & AUTO	2906 S 108TH ST	WEST ALLIS	53227
WIST7061	THEEL AUTO INC.	N8364 COUNTY RD J	ELKHART LAKE	53020
WIST7067	VILLAGE TIRE & AUTO- GERMANTOWN	W172 N12185 DIVISION RD	GERMANTOWN	53022
WIST7068	WALES SUPER LUBE #421	120 W. SUMMIT AVE	WALES	53183
WIST7069	SILVERNAIL EMISSIONS CAR CARE AND UHAUL	2210 SILVERNAIL RD	PEWAUKEE	53072
WIST7070	WEISSMAN AUTOMOTIVE	W140N10455 FOND DU LAC AV	GERMANTOWN	53022
WIST7071	WELKS AUTOMOTIVE	8333 W LAYTON AVE	GREENFIELD	53220
WIST7072	WESTSIDE AUTO CENTER	820 W SUMNER ST	HARTFORD	53027
WIST7073	WILMOT AUTO SERVICE INC	11307 FOX RIVER RD	WILMOT	53192
WIST7074	WISCONSIN MUFFLER-LINCOLN	3634 W LINCOLN AVE	MILWAUKEE	53215
WIST7075	WISCONSIN MUFFLER-NEW BERLIN	13320 W. COLLEGE AVE.	NEW BERLIN	53151
WIST7076	WJ KUHN AUTOMOTIVE CENTER INC	8511 S HOWELL AVE	OAK CREEK	53154
WIST7081	FARKAS AUTOMOTIVE INC	8008 N SHERMAN BLVD	BROWN DEER	53209
WIST7086	RUSS DARROW KIA OF WAUKESHA	2141 EAST MORELAND BLVD.	WAUKESHA	53186
WIST7088	HOFFMAN'S AUTO & TIRE	4811 GREENBAY RD.	KENOSHA	53144
WIST7092	G-BROCKS AUTO REPAIR	375 E. OTTAWA AVE	DOUSMAN	53118
WIST7093	GORDON'S #1 WHEEL SERVICE	3595 N. 124 ST.	BROOKFIELD	53005

Station Number	Company	Address	City	Zip
WIST7094	MUSKEGO TIRE & AUTO	573 W16610 JANESVILLE RD	MUSKEGO	53150
WIST7095	NATIONAL COMPLETE AUTO CARE	16405 W. NATIONAL AVE	NEW BERLIN	53151
WIST7098	SHOREWOOD AUTO REPAIR	1330 E. CAPITOL DR	SHOREWOOD	53211
WIST7103	MEYER MOTORS INC	107 PLAZA LANE	PLYMOUTH	53073
WIST7106	WILDE TOYOTA	3225 S. 108TH STREET	WEST ALLIS	53227
WIST7115	BLACK TIE AUTO SERVICES	S84 W21172 JANESVILLE RD	MUSKEGO	53150
WIST7120	MANYO MOTORS	4035 N GREEN BAY AVE	MILWAUKEE	53209
WIST7123	TIRES PLUS - KENOSHA	7424 74TH PLACE	KENOSHA	53142
WIST7124	VALVOLINE - GLENDALE	6100 N PORT WASHINGTON RD	GLENDALE	53217
WIST7126	VALVOLINE-RACINE	5920 21ST STREET	RACINE	53406
WIST7127	VALVOLINE-PEWAUKEE (D)	1812 SILVERNAIL RD	PEWAUKEE	53072
WIST7129	HOPSON AUTOMOTIVE	W241 S4165 PINE HOLLOW CT	WAUKESHA	53189
WIST7130	VALVOLINE - LAYTON	8008 W. LAYTON AVE.	GREENFIELD	53220
WIST7132	BROWN DEER TIRE & AUTO	4730 W BRADLEY RD	BROWN DEER	53223
WIST7134	KARLS GARAGE LLC	N6745B STATE ROAD 32	SHEBOYGAN FALLS	53085
WIST7136	KENO COLLISION & SERVICE	7514 SHERIDAN RD.	KENOSHA	53143
WIST7137	RUTTERS AUTOMOTIVE SERVICE LLC	7550 W APPLETON AVE	MILWAUKEE	53222
WIST8001	SILVER LAKE AUTO CENTER INC-HARTLAND	30620 HWY VV	HARTLAND	53029
WIST8004	NATIONAL AUTO TECH	630 W NATIONAL AVE	MILWAUKEE	53204
WIST8008	R.K. MOTORS	3700 N HOLTON ST	MILWAUKEE	53212
WIST8009	JACKSON SUPERLUBE	W213N16770 GLEN BROOKE DR	JACKSON	53037
WIST8011	B TOWNE AUTO SERVICE	457 FALCON RIDGE DR	BURLINGTON	53105
WIST8016	ITS ALL GOOD AUTO REPAIR	10125 W LOOMIS ROAD	FRANKLIN	53132
WIST8017	VALVOLINE CUDAHY	5912 PACKARD AVE	CUDAHY	53110
WIST8018	JEFFS AUTOMOTIVE-CUDAHY	5261 S NICHOLSON AVE	CUDAHY	53110
WIST8020	TAKE 5 OIL CHANGE-HALES CORNERS	5400 S 108TH ST	HALES CORNERS	53130
WIST8021	TAKE 5 OIL CHANGE - WAUKESHA	1557 E. MORELAND BLVD	WAUKESHA	53186
WIST8022	TAKE 5 OIL CHANGE- S. 27TH ST	4296 S 27TH STREET	MILWAUKEE	53221
WISTT0010	SAMS AUTO SHOP	4315 BYRD AVE	RACINE	53405
WISTT003	AUTO ANALYZERS	8404 W GREENFIELD AVE	WEST ALLIS	53214
WISTT005	SCHAEFERS SERVICE CENTER INC	1130 E COMMERCE BLVD	SLINGER	53086
WISTT007	SUNSET AUTO SERVICE(D)	1194 FOND DU LAC AVE	SHEBOYGAN FALLS	53085
WISTT009	JERRY'S AUTOMOTIVE SERVICE LLC	W229 N2467 COUNTY HWY F	WAUKESHA	53186

PRIVATE INSPECTION FACILITIES DEACTIVATED IN 2019

DATE OF DEACTIVATION	STATION NUMBER	COMPANY	ADDRESS	CITY	ZIP
3/28/2019	WIST5040	DADS AUTO SERVICE (D)	598 W12575 LOOMIS CT.	MUSKEGO	53150
3/30/2019	WIST3033	BAD BOYZ AUTOMOTIVE REPAIR INC (D)	4103 7TH AVENUE	KENOSHA	53140
3/31/2019	WIST6041	MISTER CAR WASH FRANKLIN (D)	7700 W RAWSON AVE	FRANKLIN	53132
4/1/2019	WIST4019	FLEET AUTO SALES & SERVICES INC (D)	7400 W NATIONAL AVE	WEST ALLIS	53214
4/1/2019	WIST7121	BOUCHER HYUNDAI (D)	1583 E MORELAND BLVD	WAUKESHA	53186
4/12/2019	WIST5075	MUFFLER MAGIC COMPLETE CAR CARE (D)	9055 N. 76TH ST	MILWAUKEE	53223
5/1/2019	WIST3031	SAM'S AUTO SHOP (D)	4315 BYRD AVE	RACINE	53405
5/1/2019	WIST7065	TWENTY FIRST CENTURY AUTO(D)	5300 W FOREST HOME AVE	MILWAUKEE	53220
5/29/2019	WIST4059	SHEBOYGAN AUTO HELPERS (D)	3667 S TAYLOR DRIVE	SHEBOYGAN	54081
7/10/2019	WIST7054	SIPPLS AUTO SERVICE INC(D)	N87 W17460 MAIN ST	MENOMONEE	53051
7/31/2019	WIST6030	JOHN AMATO FORD (D)	1015 S MAIN ST	FALLS	53051
9/20/2019	WIST6045	JOHN AMATO NISSAN (D)	1015 S MAIN ST	MUKWONAGO	53149
10/18/2019	WIST3023	FAST TRACK OIL CHANGE- MUKWONAGO (D)	N88 W15220 MAIN STREET	MENOMONEE	53051
10/21/2019	WIST2034	FAST TRACK OIL CHANGE- HALES CORNERS (D)	5200 N PORT WASHINGTON RD	FALLS	53051
10/21/2019	WIST7113	FAST TRACK OIL CHANGE-NEW BERLIN (D)	1146 N ROCHESTER ST	GLENDALE	53217
10/21/2019	WIST8002	FAST TRACK OIL CHANGE- WEST ALLIS (D)	5400 S 108TH ST	MUKWONAGO	53149
10/21/2019	WIST8007	FAST TRACK OIL CHANGE- WAUKESHA (D)	15400 W NATIONAL AVENUE	HALES CORNERS	53130
10/25/2019	WIST2018	FAST TRACK OIL CHANGE- WAUWATOSA (D)	3130 S 108TH ST	NEW BERLIN	53151
10/25/2019	WIST4044	FAST TRACK SHEBOYGAN- CALUMET (D)	1557 E. MORELAND BLVD	WEST ALLIS	53227
10/25/2019	WIST7108	FAST TRACK SHEBOYGAN- TAYLOR (D)	2757 CALUMET DR.	WAUKESHA	53186
10/25/2019	WIST7109	FAST TRACK SHEBOYGAN- TAYLOR (D)	3669 S. TAYLOR DR.	WAUKESHA	53186
10/25/2019	WIST7116	FAST TRACK OIL CHANGE- BROOKFIELD (D)	6207 W NORTH AVE	WAUKESHA	53186
10/30/2019	WIST4043	FAST TRACK OIL CHANGE-S. 27TH ST (D)	2757 CALUMET DR.	SHEBOYGAN	53081
11/4/2019	WIST3016	FAST TRACK SHEBOYGAN- INDIANA AVE (D)	3669 S. TAYLOR DR.	SHEBOYGAN	53081
11/4/2019	WIST5069	FAST TRACK OIL CHANGE-CAPITOL (D)	3669 S. TAYLOR DR.	SHEBOYGAN	53081
11/4/2019	WIST7119	FAST TRACK OIL CHANGE- CEDARBURG (D)	14245 W CAPITOL DR	BROOKFIELD	53005
11/4/2019	WIST8005	FAST TRACK OIL CHANGE- BROWN DEER RD (D)	4296 S 27TH STREET	MILWAUKEE	53221
11/4/2019	WIST8006	FAST TRACK OIL CHANGE- GLENDALE (D)	4296 S 27TH STREET	MILWAUKEE	53221
11/22/2019	WIST1019	FAST TRACK SHEBOYGAN- INDIANA AVE (D)	1328 INDIANA AVENUE	SHEBOYGAN	53081
11/22/2019	WIST7030	FAST TRACK OIL CHANGE-CAPITOL (D)	7515 W CAPITOL DR	MILWAUKEE	53216
12/2/2019	WIST7078	FAST TRACK OIL CHANGE- CEDARBURG (D)	W62 N271 WASHINGTON AVE	CEDARBURG	53012
12/3/2019	WIST6046	FAST TRACK OIL CHANGE- BROWN DEER RD (D)	6942 W BROWN DEER RD	MILWAUKEE	53223
12/10/2019	WIST5071	FAST TRACK OIL CHANGE- GLENDALE (D)	5450 N PORT WASHINGTON RD	GLENDALE	53217
12/10/2019	WIST7044	FAST TRACK OIL CHANGE- RACINE (D)	5450 N PORT WASHINGTON RD	GLENDALE	53217
12/13/2019	WIST4006	FAST TRACK OIL CHANGE- RACINE (D)	5450 N PORT WASHINGTON RD	GLENDALE	53217
12/10/2019	WIST7044	JIFFY LUBE - STURTEVANT(D)	7127 DURAND AVENUE	RACINE	53177
12/10/2019	WIST7044	NATIONAL PRIDE AUTO(D)	5512 - 75TH ST	KENOSHA	53142
12/10/2019	WIST7078	GRIFFIN FORD(D)	1940 EAST MAIN ST	WAUKESHA	53186
12/10/2019	WIST6046	KEOSYN(D)	5230 W LISBON AVENUE	MILWAUKEE	53210
12/10/2019	WIST5071	FAST TRACK OIL CHANGE-RACINE (D)	5428 WASHINGTON AVE	RACINE	53406
12/10/2019	WIST7044	OIL EXPRESS (D)	N88W15220 MAIN ST.	FALLS	53051
12/13/2019	WIST4006	NEWMAN CHEVROLET (D)	1181 WAUWATOSA RD	CEDARBURG	53012

TECHNICAL ASSISTANCE CENTERS

STATION NUMBER	COMPANY	ADDRESS	CITY	ZIP
WISTT003	Auto Analyzers (TAC)	8404 W. Greenfield Ave.	West Allis	53214
WISTT005	Schaefer Service Center (TAC)	1130 E. Commerce Blvd	Slinger	53086
WISTT007	Sunset Auto Service	1194 Fond du lac	Sheboygan Falls	53085
WISTT009	Jerry's Auto Service Inc. (TAC)	W229N2467 Hwy F	Waukesha	53186
WISTT0010	Sams Auto Shop	4315 Byrd Avenue	Racine	53405

OVERT AND COVERT PERFORMANCE AUDITS

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(2)(i)(ii)(v)

State auditors conduct overt performance audits in conjunction with their equipment audits each week at the inspection facilities. The following table addresses the overt and covert performance audit activity.

The number of inspection stations and lanes operating throughout the year:

(i) Receiving overt performance audits in the year: 216

(ii) Not receiving overt audits in the year: 6

(iii) Receiving covert audits in the year: 212

(iv) Not receiving covert audits in the year: 10

(v) That have been shut down as a result of overt performance audits: 0

COVERT AUDITS

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(3)

There were 555 covert audits conducted in 2019.

FINES, SUSPENSION OR TERMINATION DUE TO AUDIT FAILURES

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(4)

0 inspectors and 7 station were suspended, fined or prohibited from testing as a result of overt or covert audits.

8 inspectors and one station were suspended or prohibited from testing due to violations uncovered during data analysis.

NUMBER OF INSPECTORS LICENSED OR CERTIFIED TO CONDUCT TESTING

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(5)

There were 1,355 inspectors certified to conduct tests in 2019.

NUMBER OF HEARINGS

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(6)

There were 0 hearings held to consider adverse actions against inspectors and stations.

FINES

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(7)

There was \$0 collected in fines from inspectors and stations.

COVERT AUDITS

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(8)

There were 5 covert vehicles available for undercover audits.

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(9)

There were 5 auditor(s) available for undercover audits.

QUALITY CONTROL REPORT

NUMBER OF EMISSION TESTING SITES AND LANES

USEPA Reporting Requirement: 40 CFR Part 51.366 (c)(1)

There were 222 inspection sites available for testing in 2019.

NUMBER OF EQUIPMENT AUDITS BY STATION AND LANE

USEPA Reporting Requirement: 40 CFR 51.366 (c)(2)

Equipment audits by station and lane.

There were 2,718 equipment audits conducted in 2019.

USEPA Reporting Requirement: 40 CFR 51.366 (c)(3)

The number and percentage of stations that have failed equipment audits:

There were 0 stations that failed equipment audits in 2019.

USEPA Reporting Requirement: 40 CFR 51.366 (c)(4)

The number and percentage of stations and lanes shut down as a result of an equipment audit:

There were 0 stations that were shut down resulting from an equipment audit failure.

ENFORCEMENT REPORT

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(i): *An estimate of the number of vehicles subject to the inspection program, including the results of an analysis of the registration database.*

Each month, the Wisconsin Department of Transportation selects vehicles subject to the mandatory testing requirement for registration renewal purposes. There were 625,635 vehicles selected (model years: 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014 and 2016) for notification in 2019. There were an additional estimated 156,604 vehicles selected for notification at change of ownership, for an estimated 782,239 vehicles.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(ii): *The percentage of motorists compliance based upon a comparison of the number of valid final tests with the number of subject vehicles.*

Overall, 662,296 vehicles receiving mandatory inspections in 2019 received a pass, waiver or diagnostic waiver test result. This is an 84.7% compliance rate for mandatory testing requirements. Variables include vehicles that changed ownership at the time their registrations were due and vehicles that were moved outside of the testing area after the registration select occurred.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(iii): *The total number of compliance documents issued to inspection stations. 0*

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(iv) *The number of missing compliance documents. 0*

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(v) The number of time extensions and other exemptions granted to motorists.

There were 23,096 temporary plates issued in 2019. WisDOT Vehicle Emissions Inspection Unit issued 23 temporary exemptions, and DMV issued 3,462 temporary exemptions in 2019.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(vi) The number compliance surveys conducted, number of vehicles surveyed in each, and the compliance rates found.

One compliance survey was conducted in 2019. Of the 101 vehicles surveyed, 9(9.1%) were registered out of the program area. Of the 92 vehicles subject to emissions testing, 5 vehicles (5.1%) were not in compliance, resulting in a 94.9% compliance rate.

REGISTRATION DENIAL BASED ENFORCEMENT PROGRAMS

USEPA Reporting Requirement: 40 CFR 51.366 (d)(2)(i) A report of the program's efforts and actions to prevent motorists from falsely registering vehicles out of the program area or falsely changing fuel type or weight class on the vehicle registration, and the results of special studies to investigate the frequency of such activity.

In 2019, WisDOT personnel completed investigations on 843 vehicles that listed domicile outside of the program area but were suspected of being kept in the program area. After receiving notification from WisDOT, 445 vehicles submitted to testing and received a passing result; 194 vehicles were suspended for failing to comply; 70 were junked or sold and 122 provided verification that they were being kept outside of the program area.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(2)(ii) The number of registration file audits, number of registrations reviewed, and compliance rates found in such audits.

In 2019, the compliance rate for mandatory testing requirements was 84.7%. Variables include vehicles that changed ownership at the time their registrations were due, and vehicles that were moved outside of the testing area after the registration select occurred.

Registration files are reviewed in conjunction with investigations of vehicles with domicile listed outside of the program area. Of the 4,461 registration files reviewed, 843 vehicles were observed in the program area, but were listed outside of the program area. After receiving notification from WisDOT, 445 (52.7%) vehicles submitted to testing and received a passing result; 194 (23.0%) vehicles were suspended for failing to comply; 70 (8.0%) were junked or sold and 122 (14.4%) provided verification that they were being kept outside of the program area.

Also, 101 registration files were reviewed in conjunction with a compliance survey. Of the 101 vehicles surveyed, 9(9.1%) were registered out of the program area. Of the 92 vehicles subject to emissions testing, 5 vehicles (5.1%) were not in compliance, resulting in a 94.9% compliance rate.

COMPUTER-MATCHING BASED ENFORCEMENT PROGRAMS

USEPA Reporting Requirement: 40 CFR 51.366 (d)(3) Wisconsin is a registration denial-based enforcement system. This section is not applicable.

STICKER- BASED ENFORCEMENT PROGRAMS

USEPA Reporting Requirement: 40 CFR 51.366 (d)(4) Wisconsin is a registration denial-based enforcement system. This section is not applicable

Appendix I

**40 CFR 51.366 (a)(3)
INITIAL TEST VOLUME BY MODEL YEAR AND STATION**

Station ID	Total	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
WIST1003	1,302	11	3	20	5	54	11	91	23	101	22	122	23	155	13	102	22	166	34	166	18	135	4	1	0	0
WIST1012	924	11	7	36	8	40	9	57	14	71	23	91	17	100	18	77	19	77	20	90	10	120	4	2	3	0
WIST1016	215	2	0	6	1	5	1	17	5	21	8	37	8	12	4	13	1	22	4	30	0	17	1	0	0	0
WIST1019	1,608	16	6	36	9	56	24	75	20	112	32	139	49	169	16	122	24	185	46	225	18	218	8	2	1	0
WIST1020	559	3	7	13	11	13	17	44	14	34	29	40	25	42	21	40	14	46	28	55	7	53	2	1	0	0
WIST1021	953	10	5	19	8	34	11	53	16	74	29	83	25	77	11	63	16	96	35	131	13	130	12	2	0	0
WIST1022	469	2	1	5	2	12	7	13	3	23	7	26	13	37	10	43	21	51	15	76	9	86	7	0	0	0
WIST1023	864	13	19	20	14	33	23	77	32	82	62	76	49	90	26	54	26	55	25	51	2	32	2	1	0	0
WIST1024	492	3	1	4	4	22	9	22	11	30	20	40	20	52	11	42	18	53	10	61	8	47	4	0	0	0
WIST1025	601	2	1	4	4	11	6	37	15	41	24	69	38	71	16	44	16	56	13	57	11	55	6	4	0	0
WIST2015	3,321	26	8	32	22	72	27	130	40	190	75	235	58	358	59	364	57	424	104	471	56	477	25	7	4	0
WIST2017	1,136	8	1	12	2	26	7	40	7	53	19	87	13	103	16	100	25	125	27	198	29	227	9	0	1	1
WIST2018	5,840	64	18	101	39	179	74	300	83	448	109	503	161	578	95	494	127	742	110	844	67	678	13	8	4	1
WIST2019	1,278	13	7	37	9	53	14	84	15	90	32	116	30	124	23	110	22	138	43	163	8	142	5	0	0	0
WIST2021	4,228	38	17	73	26	161	51	216	61	315	91	370	112	412	65	367	83	506	103	594	42	493	27	5	0	0
WIST2024	3,801	33	7	51	18	127	27	170	60	300	99	304	88	374	79	364	86	474	104	484	52	476	20	3	1	0
WIST2025	3,274	17	6	33	13	71	25	114	41	191	69	255	68	313	59	314	83	449	122	519	48	429	32	2	1	0
WIST2027	3,667	17	8	19	10	58	18	84	38	171	43	223	61	349	51	378	74	522	114	658	70	668	28	3	1	1
WIST2028	3,509	37	8	69	22	116	31	183	49	272	62	252	66	388	38	332	59	456	80	484	36	442	25	2	0	0
WIST2029	2,336	5	10	24	10	49	11	89	23	104	29	175	48	210	29	240	55	300	62	401	35	407	16	3	1	0
WIST2030	728	8	7	16	10	33	35	53	30	70	33	54	36	63	19	57	16	43	18	62	6	58	1	0	0	0
WIST2031	1,425	21	9	26	7	44	23	87	26	86	32	109	39	143	22	123	35	136	46	204	22	163	18	1	3	0
WIST2032	321	1	0	5	2	5	2	13	3	16	5	27	9	17	2	23	11	48	14	54	2	58	3	1	0	0
WIST2033	830	6	8	27	6	32	18	49	28	76	27	79	44	87	21	61	22	56	23	72	9	70	7	1	1	0
WIST2034	1,833	11	6	29	7	48	18	78	23	120	23	132	26	177	28	168	32	258	35	298	16	292	5	3	0	0
WIST2035	3,295	25	14	60	25	144	38	178	60	213	67	302	78	336	49	283	78	424	86	410	25	383	14	2	1	0
WIST2036	1,218	9	3	27	11	32	12	61	31	78	38	115	42	106	34	98	40	127	43	133	31	124	20	2	1	0
WIST2037	77	0	1	0	0	2	1	1	1	2	4	1	2	5	3	6	3	12	4	14	7	6	2	0	0	0
WIST3003	1,281	22	2	29	15	40	16	88	30	90	35	141	26	130	18	88	23	144	22	168	11	133	9	0	0	1
WIST3005	3,209	24	8	39	8	90	22	145	40	167	34	240	40	312	44	315	60	363	102	570	53	499	25	6	2	1
WIST3006	1,932	22	6	38	15	85	27	145	34	188	35	169	48	187	28	156	28	204	40	238	17	211	10	1	0	0

WIST3013	2,966	29	10	43	21	100	44	160	55	195	71	255	101	298	59	251	91	300	96	379	42	317	32	17	0	0
WIST3014	3,309	33	19	67	37	133	55	210	67	268	98	305	110	347	84	286	66	314	96	352	41	300	15	6	0	0
WIST3015	3,358	31	13	75	20	129	33	196	43	288	55	310	81	345	48	321	68	410	95	413	34	327	18	4	1	0
WIST3016	4,602	83	26	137	61	252	86	325	125	359	142	457	129	468	85	361	111	465	117	429	30	333	11	9	1	0
WIST3018	1,869	17	15	47	25	68	49	101	58	189	64	179	81	185	42	145	47	151	54	174	21	155	0	2	0	0
WIST3021	2,157	29	10	33	15	82	18	112	38	165	44	200	64	198	35	169	46	237	59	279	35	266	19	1	3	0
WIST3022	165	0	0	4	1	13	6	11	1	17	1	11	10	22	3	4	11	18	8	11	0	9	0	4	0	0
WIST3023	1,089	9	8	16	2	16	2	36	11	49	17	86	13	94	14	97	18	170	27	214	25	158	4	2	1	0
WIST3024	7,747	104	34	139	83	280	136	478	192	635	256	667	265	774	190	683	218	713	197	869	92	689	43	7	3	0
WIST3030	934	4	2	8	5	17	6	31	15	54	17	74	19	111	18	81	17	118	27	153	14	140	3	0	0	0
WIST3031	20	0	0	2	0	0	0	1	2	0	0	1	1	5	1	0	2	1	1	2	0	1	0	0	0	0
WIST3032	431	1	3	6	2	14	5	47	4	36	8	31	10	49	1	21	9	48	13	63	9	48	3	0	0	0
WIST3033	35	1	0	0	2	4	3	4	0	3	0	0	1	6	0	4	1	2	1	1	0	1	1	0	0	0
WIST3034	293	1	0	1	5	2	0	10	2	10	4	15	8	22	6	32	9	46	9	44	8	51	6	1	1	0
WIST3035	104	0	0	0	3	0	0	4	3	4	2	3	3	11	4	7	1	12	5	24	1	12	5	0	0	0
WIST3036	760	4	1	8	3	14	2	25	6	24	20	49	18	79	15	80	29	100	28	100	16	126	11	1	1	0
WIST3037	637	7	3	11	8	22	13	27	16	37	24	51	14	61	15	51	20	77	22	66	6	71	13	1	1	0
WIST4002	1,240	10	0	30	2	26	12	85	18	97	23	103	29	142	13	97	21	147	26	177	11	162	8	1	0	0
WIST4003	4,404	41	12	82	16	127	55	233	63	279	65	354	91	463	88	412	79	554	121	600	65	569	30	4	1	0
WIST4006	6,757	32	12	95	30	193	43	311	72	447	94	591	127	710	75	610	122	872	161	1,029	71	1,009	44	6	1	0
WIST4014	1,125	12	6	30	4	56	13	81	27	97	24	82	24	109	17	78	14	142	17	147	12	124	9	0	0	0
WIST4017	6,175	53	10	69	27	140	49	277	70	389	85	460	98	668	84	617	118	800	130	1,001	82	892	46	8	2	0
WIST4019	440	8	4	11	6	24	5	29	15	36	15	45	17	45	9	28	13	37	9	46	3	34	1	0	0	0
WIST4026	2,566	10	1	29	7	48	12	77	25	134	27	142	40	226	41	248	64	416	70	392	48	464	33	5	6	1
WIST4031	4,656	61	37	132	45	202	95	347	113	437	135	441	164	409	95	326	105	434	97	476	37	441	20	5	2	0
WIST4032	6,708	90	85	169	105	342	200	513	302	590	321	708	306	642	185	439	185	465	165	474	64	326	21	5	5	1
WIST4040	2,534	16	6	19	7	67	17	122	25	154	33	205	44	240	40	250	48	318	58	435	38	366	20	2	3	1
WIST4042	4,318	60	17	102	46	187	46	288	100	353	146	441	153	481	98	347	96	441	128	420	46	300	19	2	0	1
WIST4043	19,324	232	122	437	175	760	361	1,316	555	1,700	597	1,970	727	1,972	497	1,543	542	1,785	535	1,786	164	1,452	48	39	9	0
WIST4044	6,723	71	26	116	102	227	156	430	238	586	286	645	296	636	167	520	169	653	183	606	77	507	15	9	2	0
WIST4045	2,889	29	11	54	13	111	43	156	44	206	55	243	51	308	36	232	52	353	84	385	38	364	18	3	0	0
WIST4048	5,511	52	34	90	35	179	63	296	75	400	121	470	127	581	79	488	124	673	148	729	72	645	26	3	1	0
WIST4049	1,074	5	1	28	3	42	2	60	13	68	22	87	19	114	23	101	26	137	25	145	11	136	6	0	0	0
WIST4050	5,421	38	3	65	14	125	37	211	33	295	67	427	87	481	78	509	107	652	136	911	88	977	72	5	2	1
WIST4051	3,213	35	16	89	29	103	40	201	53	281	64	274	71	322	49	258	76	340	80	395	36	387	10	4	0	0
WIST4053	306	5	3	9	8	21	1	27	7	28	10	30	11	32	6	29	5	18	6	30	3	16	1	0	0	0

WIST4054	3,758	49	15	84	29	137	49	199	50	328	74	321	85	392	61	333	63	416	102	478	39	435	14	5	0	0
WIST4055	1,669	27	5	36	9	65	30	109	36	126	42	147	43	159	36	143	32	172	37	235	14	159	6	1	0	0
WIST4057	3,716	38	9	57	26	128	42	234	61	269	57	331	67	404	52	338	85	430	76	485	42	453	28	4	0	0
WIST4058	2,039	11	12	23	14	70	22	102	43	164	42	197	58	192	32	175	47	240	55	268	26	233	11	1	1	0
WIST4059	45	0	0	1	0	0	0	2	1	5	2	6	4	6	1	2	0	5	3	1	0	6	0	0	0	0
WIST4060	648	11	2	20	8	40	11	43	15	52	13	64	22	65	6	44	14	51	14	75	5	68	5	0	0	0
WIST4061	474	2	1	7	1	16	5	16	2	34	2	35	7	43	8	32	13	50	11	74	7	103	5	0	0	0
WIST4062	798	7	2	12	9	28	9	37	23	59	38	83	39	86	21	60	27	72	25	78	8	63	8	3	1	0
WIST4063	81	0	0	2	2	3	1	7	0	4	2	17	0	7	1	4	2	10	2	7	2	7	1	0	0	0
WIST4064	97	1	0	0	0	0	0	3	3	2	1	2	3	8	1	7	3	20	3	16	1	21	2	0	0	0
WIST4066	577	7	2	11	6	26	18	27	27	44	31	49	37	58	18	37	14	45	17	59	7	29	6	1	1	0
WIST4067	722	10	7	13	4	24	11	34	14	52	26	65	27	75	20	73	26	49	35	71	12	60	12	0	2	0
WIST5003	2,033	19	12	21	19	72	33	101	49	122	48	182	62	206	36	175	57	210	66	267	40	218	7	9	1	1
WIST5004	3,837	31	5	57	14	88	27	143	49	211	60	308	85	407	57	391	82	503	103	570	48	572	21	5	0	0
WIST5005	2,697	36	18	62	18	109	30	208	39	250	64	263	73	274	34	248	51	258	53	315	17	261	13	3	0	0
WIST5008	7,683	73	22	174	47	264	92	408	140	578	138	660	142	818	117	653	159	896	194	1,060	85	922	35	5	1	0
WIST5009	1,718	10	4	15	3	31	6	40	7	103	12	99	17	169	21	175	26	238	41	313	27	339	20	0	2	0
WIST5011	2,269	12	3	31	2	40	8	67	7	121	31	158	21	225	36	240	44	310	52	428	39	379	12	1	2	0
WIST5015	2,892	45	28	68	34	159	65	247	66	256	100	306	88	293	54	178	63	251	60	279	19	223	9	1	0	0
WIST5017	2,215	16	9	38	15	66	38	165	44	201	44	215	70	228	33	170	50	229	53	278	24	214	11	0	4	0
WIST5023	622	2	1	17	5	15	5	32	10	40	11	51	22	71	15	54	12	62	17	92	8	76	4	0	0	0
WIST5029	7,336	54	15	119	37	216	69	372	107	447	139	539	178	647	132	608	165	857	232	1,132	87	1,119	48	11	5	1
WIST5037	1,579	11	3	26	7	37	10	82	21	123	19	118	34	156	18	144	30	211	33	256	15	206	18	1	0	0
WIST5040	73	0	1	2	2	2	2	4	3	5	1	5	3	6	2	2	6	6	1	9	4	7	0	0	0	0
WIST5044	946	5	2	10	5	19	5	22	11	49	13	58	21	83	14	92	20	107	30	158	19	177	16	8	2	0
WIST5045	287	5	1	6	4	16	5	20	1	20	5	30	4	33	2	13	4	34	11	38	5	28	2	0	0	0
WIST5049	3,954	36	6	73	19	114	37	184	43	287	88	371	67	353	54	417	93	463	83	560	41	529	32	3	1	0
WIST5053	992	21	4	35	11	61	14	93	22	97	21	82	26	116	8	76	19	67	13	114	8	79	5	0	0	0
WIST5055	7,794	63	37	124	66	248	103	436	181	613	221	717	279	838	163	654	194	799	225	918	86	770	42	8	7	2
WIST5058	1,272	10	8	16	11	48	17	66	48	111	41	119	45	137	29	81	28	130	37	141	14	129	5	1	0	0
WIST5066	6,895	96	42	159	67	292	105	465	149	567	174	657	184	678	152	597	179	658	164	776	62	639	18	11	2	2
WIST5069	9,950	109	91	207	154	405	306	769	419	898	517	944	539	1,023	312	659	316	704	274	650	118	500	25	8	3	0
WIST5071	11,639	112	57	247	90	412	157	666	213	872	261	1,041	269	1,110	177	1,018	261	1,339	271	1,537	100	1,376	28	18	7	0
WIST5074	6,863	73	28	109	60	203	98	330	154	494	186	605	209	721	145	651	159	752	202	858	86	700	18	16	6	0
WIST5075	187	0	0	2	2	11	3	14	4	18	11	16	8	19	6	17	5	15	4	12	6	13	1	0	0	0
WIST5077	12,972	101	37	165	66	325	96	579	170	838	205	1,052	240	1,318	193	1,208	255	1,699	318	2,035	153	1,811	89	15	4	0

WIST5079	1,698	15	8	18	6	50	10	62	23	102	17	127	29	150	22	161	22	206	47	285	30	289	15	1	1	2
WIST5080	279	2	1	2	1	5	0	13	4	12	4	17	3	34	1	22	7	37	5	45	4	54	4	1	1	0
WIST5081	11,010	101	37	195	62	347	109	540	130	756	174	945	209	1,169	147	929	241	1,321	282	1,653	133	1,419	84	18	9	0
WIST5082	474	2	1	16	1	15	6	32	12	34	13	45	21	36	12	35	15	52	10	61	6	43	5	1	0	0
WIST5083	673	8	5	8	11	17	12	34	25	44	12	52	18	47	12	53	22	73	27	97	8	84	4	0	0	0
WIST5084	498	6	1	11	2	20	4	24	10	37	13	63	10	39	12	45	14	55	16	56	8	48	3	1	0	0
WIST5085	187	0	1	3	1	2	2	1	5	5	4	8	1	9	3	11	8	23	10	40	6	39	3	0	1	1
WIST5086	453	3	2	3	6	7	7	17	11	28	16	25	21	45	23	29	14	49	28	47	26	32	13	1	0	0
WIST5087	595	5	3	10	2	12	12	24	25	39	30	62	30	41	19	23	26	59	21	67	19	54	11	1	0	0
WIST6001	10,722	170	109	366	125	604	229	849	273	936	364	1,024	308	1,030	200	753	217	960	220	1,021	83	826	44	7	4	0
WIST6004	6,123	48	21	89	27	140	40	247	64	432	88	513	114	675	93	560	103	782	137	964	48	900	37	0	1	0
WIST6007	821	16	3	29	7	44	16	64	15	62	9	68	21	98	16	79	15	74	16	93	1	72	3	0	0	0
WIST6013	2,864	16	3	41	9	76	21	144	24	173	40	217	51	265	39	285	67	381	80	436	50	415	23	6	2	0
WIST6018	6,621	115	31	179	69	305	122	512	161	536	181	649	172	611	115	501	121	608	142	760	77	620	26	7	1	0
WIST6021	1,596	8	4	28	8	44	15	56	21	103	25	127	34	190	15	138	37	171	41	257	15	241	12	5	1	0
WIST6022	2,496	11	4	34	11	85	17	114	20	154	38	189	42	247	32	227	48	317	72	396	35	378	24	1	0	0
WIST6026	1,522	17	9	31	9	36	14	67	22	92	27	99	16	138	22	116	32	189	33	275	16	243	17	1	1	0
WIST6030	1,165	11	2	21	1	36	4	46	19	82	20	80	12	134	14	113	15	155	21	188	10	175	3	2	1	0
WIST6031	2,212	9	0	23	5	58	24	124	41	164	37	169	45	194	44	173	54	289	48	377	29	291	9	5	0	0
WIST6033	2,083	14	7	27	9	45	16	89	17	114	37	154	30	202	27	192	45	276	47	361	30	327	12	2	3	0
WIST6034	2,244	11	4	23	9	38	19	88	20	126	41	188	44	201	48	215	43	281	57	377	36	353	21	1	0	0
WIST6035	2,574	24	8	52	32	93	45	172	56	195	78	226	74	284	46	215	64	258	77	278	32	254	7	3	1	0
WIST6037	10,036	122	66	236	119	489	212	751	268	938	374	998	357	971	183	746	242	908	249	919	95	747	33	9	4	0
WIST6039	2,649	25	7	26	12	49	13	79	29	128	28	189	44	240	38	266	63	384	88	454	46	410	27	3	1	0
WIST6041	1,538	13	2	20	8	31	18	68	16	92	14	137	23	144	25	155	24	205	40	247	28	222	6	0	0	0
WIST6042	494	3	4	11	3	19	9	34	10	36	15	44	14	56	9	55	9	41	8	60	4	48	1	1	0	0
WIST6043	3,129	74	18	92	37	197	78	229	115	324	134	321	151	334	74	206	75	216	75	218	17	140	4	0	0	0
WIST6044	1,342	22	5	33	20	61	27	108	34	117	40	151	37	129	20	99	21	128	25	155	13	93	2	2	0	0
WIST6045	2,287	29	5	33	9	78	12	122	28	168	25	226	33	232	32	239	33	293	43	307	15	315	3	3	4	0
WIST6046	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
WIST6047	374	2	2	5	3	5	2	18	3	24	8	27	7	33	11	34	7	53	12	60	3	53	2	0	0	0
WIST6048	1,355	9	3	11	9	38	11	80	36	94	38	98	55	128	29	127	52	144	47	157	19	154	13	2	1	0
WIST6049	422	3	4	8	4	16	4	33	9	45	17	44	13	36	8	30	7	43	12	47	3	34	2	0	0	0
WIST6050	352	2	5	3	4	5	1	14	6	22	4	22	12	31	5	26	9	36	12	57	10	51	15	0	0	0
WIST6051	348	6	2	9	5	11	11	20	4	24	10	28	20	33	17	25	10	32	12	27	10	28	4	0	0	0
WIST6052	1,468	16	11	30	12	51	28	85	33	110	44	103	72	143	28	92	46	151	52	155	44	118	40	2	2	0

WIST6053	1,128	5	3	17	6	23	15	52	20	73	21	80	30	106	31	103	35	129	52	134	30	138	24	1	0	0
WIST7004	5,133	70	34	119	65	256	97	374	100	432	126	464	118	521	71	391	117	493	113	606	38	496	22	5	5	0
WIST7006	791	6	0	14	5	22	8	45	6	39	12	36	12	76	17	60	9	119	18	130	8	144	4	1	0	0
WIST7009	2,307	25	11	34	17	62	40	121	53	188	58	193	65	221	38	207	49	253	49	288	28	292	7	7	1	0
WIST7011	6,330	80	43	122	58	243	91	376	124	490	147	508	167	597	94	491	134	700	153	893	79	710	27	2	1	0
WIST7014	8,312	50	15	176	47	248	92	441	114	642	160	687	213	831	140	756	181	974	194	1,156	97	1,036	46	10	6	0
WIST7016	8,908	42	16	98	32	213	67	378	106	544	143	747	172	857	111	828	158	1,094	249	1,526	112	1,320	79	8	8	0
WIST7020	832	6	4	21	6	33	19	39	14	73	14	84	20	65	10	79	12	92	19	120	8	91	3	0	0	0
WIST7022	2,724	17	4	45	10	91	28	142	24	193	33	225	46	296	33	227	37	357	62	422	41	354	29	4	2	2
WIST7023	2,796	38	7	70	33	110	43	228	88	247	74	282	80	289	60	268	36	236	60	275	20	242	10	0	0	0
WIST7030	7,655	70	44	141	62	259	141	500	168	595	195	633	197	743	123	640	158	874	158	1,023	63	853	9	5	1	0
WIST7031	923	4	1	5	4	22	3	40	10	57	6	67	13	96	8	91	13	128	18	172	13	141	11	0	0	0
WIST7033	6,885	108	27	204	88	329	128	502	143	579	232	675	231	639	113	533	165	678	162	703	64	549	30	2	1	0
WIST7036	6,796	88	54	159	81	287	129	473	177	595	241	604	197	653	140	547	134	635	155	738	64	606	36	3	0	0
WIST7039	2,154	19	1	33	13	57	19	99	25	127	37	223	34	201	38	208	36	253	69	309	29	311	11	0	2	0
WIST7040	3,421	26	9	53	24	92	26	160	45	263	42	294	60	328	51	281	82	436	84	560	42	434	25	1	3	0
WIST7041	4,437	22	10	67	19	126	24	223	40	285	70	378	72	492	73	439	67	564	100	652	60	627	19	5	3	0
WIST7042	8,556	64	26	122	45	269	59	433	106	616	135	726	155	882	115	819	150	1,076	195	1,293	81	1,141	42	3	3	0
WIST7044	733	5	2	11	7	26	7	29	13	42	19	69	13	70	16	74	17	88	27	72	15	106	1	4	0	0
WIST7045	6,511	44	14	96	62	185	63	303	75	477	115	529	121	700	83	676	159	746	174	944	93	795	47	7	3	0
WIST7049	2,479	23	3	40	9	75	20	96	27	159	32	183	38	255	23	264	53	325	53	360	28	386	20	4	3	0
WIST7052	9,292	62	23	123	58	262	62	386	123	537	141	728	173	959	137	905	182	1,195	275	1,447	118	1,311	73	10	2	0
WIST7053	2,541	37	21	28	31	107	28	153	62	207	48	234	48	246	42	183	55	274	71	349	26	270	15	4	2	0
WIST7054	1,002	7	5	17	1	31	8	49	12	64	10	75	14	117	9	90	15	136	21	165	10	140	5	1	0	0
WIST7055	6,349	67	28	123	45	230	80	451	134	545	117	616	142	664	101	529	111	713	139	769	69	650	24	1	0	1
WIST7056	5,841	51	25	88	43	205	89	321	98	448	120	559	138	605	105	537	119	618	165	777	58	630	35	5	2	0
WIST7061	1,372	13	7	26	16	52	29	72	18	133	26	143	26	125	18	108	23	156	30	171	16	159	3	2	0	0
WIST7065	1,156	11	11	30	19	53	24	87	21	94	25	113	37	126	24	87	33	114	23	107	17	98	2	0	0	0
WIST7067	2,142	23	6	31	10	60	16	120	14	158	23	179	40	215	23	181	40	256	52	326	30	321	17	0	1	0
WIST7068	3,640	33	11	49	23	96	28	189	49	273	61	301	68	358	51	339	82	435	105	520	63	480	25	1	0	0
WIST7069	6,284	45	21	84	32	156	53	286	83	461	133	533	128	627	96	596	150	745	163	885	80	892	29	6	0	0
WIST7070	3,560	24	11	41	17	93	22	153	42	211	50	309	62	386	42	338	75	454	71	540	47	542	26	2	2	0
WIST7071	5,754	60	18	109	30	170	65	365	89	407	128	533	119	598	95	518	119	648	153	755	70	669	27	8	1	0
WIST7072	4,154	39	16	57	27	122	47	217	66	265	77	367	79	429	73	407	80	508	117	575	39	525	21	1	0	0
WIST7073	4,262	44	32	91	34	149	75	247	109	302	117	348	121	438	64	328	108	448	107	551	54	461	27	5	2	0
WIST7074	17,568	304	176	525	299	902	473	1,580	615	1,710	748	1,711	724	1,772	449	1,236	500	1,225	510	1,181	130	710	53	28	7	0

WIST7075	2,571	20	11	60	21	96	34	173	33	209	50	216	38	275	29	234	50	262	48	319	29	339	21	3	1	0
WIST7076	8,164	66	21	119	28	191	77	387	98	515	145	682	157	775	115	740	139	1,051	212	1,298	101	1,186	49	8	4	0
WIST7078	2,640	34	4	33	15	81	25	138	15	176	38	205	42	260	27	293	39	326	68	404	37	363	9	7	1	0
WIST7081	4,874	57	26	113	53	213	83	281	101	424	129	477	144	518	93	403	102	468	109	531	69	451	22	5	2	0
WIST7086	1,124	10	2	12	8	23	4	46	11	58	14	91	17	98	22	128	34	128	27	185	25	159	16	5	1	0
WIST7088	2,417	27	11	36	19	80	38	142	48	166	65	201	90	257	42	184	57	246	85	322	25	263	10	2	1	0
WIST7092	2,000	13	10	24	13	70	14	102	18	145	35	175	36	181	24	196	47	228	44	323	23	265	14	0	0	0
WIST7093	4,537	34	7	74	12	119	25	226	47	302	69	407	82	460	66	428	100	563	108	713	62	588	35	7	3	0
WIST7094	4,685	34	13	64	19	132	34	212	43	300	71	411	93	447	75	440	81	593	108	753	54	671	29	5	3	0
WIST7095	1,336	10	1	26	7	47	16	62	13	99	14	127	28	126	19	123	26	130	31	197	22	202	9	1	0	0
WIST7098	2,873	17	2	27	15	68	24	115	27	192	46	235	52	322	58	317	66	374	71	395	39	381	27	2	1	0
WIST7103	3,159	32	8	70	15	112	23	177	41	235	58	298	43	336	39	280	52	343	72	436	30	432	25	2	0	0
WIST7106	3,573	25	9	39	11	64	27	127	37	210	52	276	56	354	45	468	62	481	84	522	48	536	30	7	3	0
WIST7108	7,788	121	35	198	46	322	88	480	132	672	157	691	169	877	108	673	152	897	186	945	51	764	14	7	3	0
WIST7109	4,171	53	25	91	34	193	45	274	59	317	74	379	101	432	66	367	75	490	105	540	22	410	15	3	1	0
WIST7113	3,824	33	17	68	18	119	40	189	50	252	53	342	79	414	50	366	70	495	81	544	36	493	6	8	1	0
WIST7115	298	3	0	7	2	12	4	18	3	37	5	27	6	19	2	23	7	40	10	34	2	33	3	1	0	0
WIST7116	7,814	45	19	102	40	194	60	321	75	481	113	648	163	780	120	760	176	1,023	194	1,207	74	1,184	23	7	5	0
WIST7119	6,251	34	12	82	20	155	33	297	76	443	87	565	107	590	104	617	115	816	158	925	54	944	7	7	2	1
WIST7120	2,489	25	17	58	28	96	46	192	82	195	125	243	113	241	79	199	74	196	71	199	25	169	8	5	2	1
WIST7121	538	4	0	8	2	19	2	25	1	28	6	25	7	50	5	63	18	66	19	77	10	101	2	0	0	0
WIST7123	6,307	49	26	92	51	167	67	291	84	399	144	513	153	564	100	535	150	732	203	951	91	903	32	5	5	0
WIST7124	5,737	29	13	61	27	110	58	196	96	292	96	452	157	591	98	536	163	768	193	839	98	805	46	9	4	0
WIST7126	3,514	36	12	56	31	120	50	169	58	223	53	305	88	364	47	308	80	421	97	514	35	411	24	10	2	0
WIST7127	4,960	42	9	56	37	116	27	239	76	322	79	402	105	475	86	467	111	661	133	715	94	675	24	6	1	2
WIST7129	2,650	21	13	51	23	93	31	171	41	233	67	240	77	239	49	203	55	291	75	351	37	271	17	1	0	0
WIST7130	4,781	46	13	69	23	133	35	223	68	308	91	394	124	506	89	448	130	596	121	662	57	601	36	5	3	0
WIST7132	605	7	2	9	7	22	15	51	17	53	11	65	19	58	15	49	14	42	19	58	4	59	5	1	1	2
WIST7134	229	2	0	7	0	12	5	14	3	23	5	31	5	23	4	18	2	18	3	21	5	22	6	0	0	0
WIST7136	1,124	10	10	29	9	36	11	65	26	69	31	88	34	92	19	102	17	139	32	158	10	132	5	0	0	0
WIST7137	160	0	0	2	2	6	5	13	3	10	5	20	5	11	3	11	3	21	6	9	0	23	2	0	0	0
WIST8001	1,666	12	5	25	9	41	11	59	25	137	21	145	29	166	25	142	28	207	34	249	28	244	14	6	4	0
WIST8002	5,155	27	15	56	17	122	39	215	51	290	87	420	93	544	95	502	96	708	129	790	45	791	14	7	2	0
WIST8003	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	6	0	0	0	0	0	0	0
WIST8004	14,447	304	162	419	244	731	408	1,302	572	1,453	697	1,398	619	1,329	373	968	436	982	368	924	97	612	35	10	4	0
WIST8005	5,878	39	33	85	57	194	104	284	149	439	170	615	242	670	133	477	164	629	169	625	81	492	13	13	1	0

WIST8006	13,136	120	59	176	97	375	178	589	276	887	350	1,099	413	1,339	288	1,309	332	1,473	377	1,687	137	1,508	41	17	9	0
WIST8007	6,406	43	27	100	52	213	72	373	124	465	124	593	167	656	118	575	172	755	180	806	60	713	11	5	2	0
WIST8008	3,815	46	42	82	53	209	99	311	119	343	163	377	142	359	88	260	103	295	77	311	43	280	11	1	1	0
WIST8009	3,860	41	5	54	32	112	31	185	50	258	74	300	98	387	49	351	85	471	88	593	30	544	17	3	2	0
WIST8011	7,388	64	26	154	50	250	96	403	128	541	116	652	175	750	101	644	145	826	193	1,064	86	883	31	6	4	0
WIST8016	1,204	18	5	16	7	52	6	59	22	76	21	91	32	111	21	97	30	139	24	191	9	161	12	4	0	0
WIST8017	3,019	24	18	49	27	97	26	160	51	212	69	248	69	278	32	273	75	365	93	435	25	363	27	3	0	0
WIST8018	391	5	2	9	6	17	4	26	3	24	4	39	7	29	8	42	5	46	11	45	2	54	3	0	0	0
WIST8020	490	4	2	8	4	18	3	30	8	23	8	46	6	54	9	42	13	50	18	61	6	66	11	0	0	0
WIST8021	716	3	5	10	9	21	17	35	10	33	28	55	27	55	18	45	31	79	28	65	18	95	29	0	0	0
WIST8022	1,689	21	13	32	21	70	37	75	69	118	65	144	100	184	51	127	66	129	66	150	23	103	21	2	1	1
WISTT0010	281	8	1	10	3	14	12	28	12	33	5	20	11	36	4	13	8	17	2	26	1	15	2	0	0	0
WISTT003	4,524	64	31	122	40	186	69	311	95	343	165	452	171	442	85	362	128	422	101	455	41	388	45	3	2	1
WISTT005	3,281	19	10	48	16	83	19	176	49	219	47	283	48	312	47	291	72	412	89	517	32	470	18	4	0	0
WISTT007	1,212	20	2	28	12	53	22	62	23	89	14	123	31	126	15	87	30	139	26	169	11	124	5	1	0	0
WISTT009	3,577	35	8	49	17	94	28	156	42	258	60	263	70	364	70	298	84	446	93	527	73	513	25	3	1	0
Totals:	724,492	7,222	3,199	13,282	5,621	24,681	9,567	40,903	13,556	53,707	17,001	63,402	18,906	72,515	12,781	62,758	16,222	80,466	18,700	93,715	8,318	82,883	3,944	807	306	30

% Fail	2.9%	18.2%	16.7%	0.0%	12.5%	9.6%	18.2%	2.7%	6.7%	3.4%	4.0%	3.0%	0.0%	4.1%	0.0%	1.9%	10.5%	0.7%	0.0%	1.9%	0.0%	0.0%	0.0%	--	--	--
WIST2021	3,968	35	16	65	22	148	36	183	53	276	84	338	99	388	61	348	77	492	101	585	42	488	26	5	0	0
# Fail	137	1	2	4	1	13	6	13	4	22	2	27	2	13	4	5	0	12	0	5	0	1	0	0	0	0
% Fail	3.5%	2.9%	12.5%	6.2%	4.5%	8.8%	16.7%	7.1%	7.5%	8.0%	2.4%	8.0%	2.0%	3.4%	6.6%	1.4%	0.0%	2.4%	0.0%	0.9%	0.0%	0.2%	0.0%	0.0%	--	--
WIST2024	3,597	32	7	48	14	119	21	155	52	260	91	284	81	345	74	349	80	463	103	479	51	466	19	3	1	0
# Fail	127	4	1	4	3	10	2	12	8	14	3	19	1	9	5	11	1	6	2	8	0	4	0	0	0	0
% Fail	3.5%	12.5%	14.3%	8.3%	21.4%	8.4%	9.5%	7.7%	15.4%	5.4%	3.3%	6.7%	1.2%	2.6%	6.8%	3.2%	1.3%	1.3%	1.9%	1.7%	0.0%	0.9%	0.0%	0.0%	0.0%	--
WIST2025	3,143	17	4	30	13	65	24	97	39	180	64	235	66	300	55	303	80	439	116	507	48	426	32	2	1	0
# Fail	89	1	0	1	1	3	2	10	5	12	6	15	3	5	2	7	1	5	2	6	1	1	0	0	0	0
% Fail	2.8%	5.9%	0.0%	3.3%	7.7%	4.6%	8.3%	10.3%	12.8%	6.7%	9.4%	6.4%	4.5%	1.7%	3.6%	2.3%	1.3%	1.1%	1.7%	1.2%	2.1%	0.2%	0.0%	0.0%	0.0%	--
WIST2027	3,566	17	7	19	10	54	15	80	34	163	41	215	59	330	50	371	67	506	111	650	69	665	28	3	1	1
# Fail	100	2	1	1	1	5	1	3	2	16	2	12	3	21	2	6	1	8	0	7	1	5	0	0	0	0
% Fail	2.8%	11.8%	14.3%	5.3%	10.0%	9.3%	6.7%	3.8%	5.9%	9.8%	4.9%	5.6%	5.1%	6.4%	4.0%	1.6%	1.5%	1.6%	0.0%	1.1%	1.4%	0.8%	0.0%	0.0%	0.0%	0.0%
WIST2028	3,334	34	8	62	21	108	28	167	43	249	57	235	59	356	36	320	55	440	79	478	36	436	25	2	0	0
# Fail	86	0	0	3	3	7	3	13	3	22	1	11	2	6	0	2	2	2	2	3	0	1	0	0	0	0
% Fail	2.6%	0.0%	0.0%	4.8%	14.3%	6.5%	10.7%	7.8%	7.0%	8.8%	1.8%	4.7%	3.4%	1.7%	0.0%	0.6%	3.6%	0.5%	2.5%	0.6%	0.0%	0.2%	0.0%	0.0%	--	--
WIST2029	2,247	5	9	23	8	46	10	80	22	97	27	162	46	203	28	231	54	289	58	392	35	402	16	3	1	0
# Fail	67	1	1	0	0	3	0	9	1	10	3	7	4	12	1	3	1	6	0	2	0	3	0	0	0	0
% Fail	3.0%	20.0%	11.1%	0.0%	0.0%	6.5%	0.0%	11.3%	4.5%	10.3%	11.1%	4.3%	8.7%	5.9%	3.6%	1.3%	1.9%	2.1%	0.0%	0.5%	0.0%	0.7%	0.0%	0.0%	0.0%	--
WIST2030	617	8	6	14	9	33	18	43	18	53	29	43	31	55	19	45	16	36	18	58	6	58	1	0	0	0
# Fail	57	1	1	1	0	6	5	3	3	7	8	5	4	6	0	3	1	1	1	1	0	0	0	0	0	0
% Fail	9.2%	12.5%	16.7%	7.1%	0.0%	18.2%	27.8%	7.0%	16.7%	13.2%	27.6%	11.6%	12.9%	10.9%	0.0%	6.7%	6.3%	2.8%	5.6%	1.7%	0.0%	0.0%	0.0%	--	--	--
WIST2031	1,327	19	9	21	7	42	16	78	23	77	30	97	33	139	15	119	33	126	42	196	22	161	18	1	3	0
# Fail	49	2	0	2	0	3	0	7	0	5	5	7	0	6	0	5	0	1	0	6	0	0	0	0	0	0
% Fail	3.7%	10.5%	0.0%	9.5%	0.0%	7.1%	0.0%	9.0%	0.0%	6.5%	16.7%	7.2%	0.0%	4.3%	0.0%	4.2%	0.0%	0.8%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	--
WIST2032	302	1	0	4	2	5	2	9	2	12	5	25	8	17	2	21	11	48	12	52	2	58	3	1	0	0
# Fail	10	0	0	0	0	1	1	1	0	2	0	1	0	0	0	1	1	0	1	1	0	0	0	0	0	0
% Fail	3.3%	0.0%	--	0.0%	0.0%	20.0%	50.0%	11.1%	0.0%	16.7%	0.0%	4.0%	0.0%	0.0%	0.0%	4.8%	9.1%	0.0%	8.3%	1.9%	0.0%	0.0%	0.0%	0.0%	--	--
WIST2033	737	5	5	23	6	22	15	39	20	70	25	69	37	76	19	57	22	51	22	68	8	70	7	1	0	0
# Fail	52	1	0	3	2	2	2	4	5	4	3	4	2	8	3	4	1	1	1	2	0	0	0	0	0	0
% Fail	7.1%	20.0%	0.0%	13.0%	33.3%	9.1%	13.3%	10.3%	25.0%	5.7%	12.0%	5.8%	5.4%	10.5%	15.8%	7.0%	4.5%	2.0%	4.5%	2.9%	0.0%	0.0%	0.0%	0.0%	--	--
WIST2034	1,741	10	6	24	6	42	14	68	23	108	22	123	25	169	26	159	30	253	34	292	14	285	5	3	0	0
# Fail	60	1	1	2	0	4	1	7	1	6	4	7	2	3	2	5	1	7	1	3	0	2	0	0	0	0
% Fail	3.4%	10.0%	16.7%	8.3%	0.0%	9.5%	7.1%	10.3%	4.3%	5.6%	18.2%	5.7%	8.0%	1.8%	7.7%	3.1%	3.3%	2.8%	2.9%	1.0%	0.0%	0.7%	0.0%	0.0%	--	--
WIST2035	3,133	24	14	57	24	127	29	160	56	197	60	282	68	322	47	280	75	410	86	395	24	379	14	2	1	0
# Fail	121	1	1	5	2	14	3	16	8	10	1	13	4	12	3	5	6	10	3	3	0	1	0	0	0	0
% Fail	3.9%	4.2%	7.1%	8.8%	8.3%	11.0%	10.3%	10.0%	14.3%	5.1%	1.7%	4.6%	5.9%	3.7%	6.4%	1.8%	8.0%	2.4%	3.5%	0.8%	0.0%	0.3%	0.0%	0.0%	0.0%	--
WIST2036	1,104	6	3	25	10	26	9	53	25	67	34	97	37	91	30	93	36	119	40	130	30	121	19	2	1	0
# Fail	51	0	0	4	0	1	0	5	2	3	4	12	2	5	0	4	1	3	0	3	1	1	0	0	0	0
% Fail	4.6%	0.0%	0.0%	16.0%	0.0%	3.8%	0.0%	9.4%	8.0%	4.5%	11.8%	12.4%	5.4%	5.5%	0.0%	4.3%	2.8%	2.5%	0.0%	2.3%	3.3%	0.8%	0.0%	0.0%	0.0%	--
WIST2037	74	0	1	0	0	2	1	1	1	2	3	1	2	5	3	6	3	11	4	13	7	6	2	0	0	0
# Fail	4	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
% Fail	5.4%	--	0.0%	--	--	0.0%	0.0%	100%	0.0%	50.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	--	--	--
WIST3003	1,195	21	2	26	12	39	16	77	23	83	28	126	22	123	18	84	23	139	20	160	11	132	9	0	0	1
# Fail	70	2	1	2	3	5	3	6	6	8	2	12	2	5	0	2	1	3	2	5	0	0	0	0	0	0
% Fail	5.9%	9.5%	50.0%	7.7%	25.0%	12.8%	18.8%	7.8%	26.1%	9.6%	7.1%	9.5%	9.1%	4.1%	0.0%	2.4%	4.3%	2.2%	10.0%	3.1%	0.0%	0.0%	0.0%	--	--	0.0%

WIST3005	3,013	24	6	38	8	79	19	123	36	154	33	217	39	293	42	289	57	343	95	555	48	482	25	6	2	0
# Fail	66	2	1	2	1	1	4	9	0	4	2	5	0	12	0	5	2	4	2	6	0	3	1	0	0	0
% Fail	2.2%	8.3%	16.7%	5.3%	12.5%	1.3%	21.1%	7.3%	0.0%	2.6%	6.1%	2.3%	0.0%	4.1%	0.0%	1.7%	3.5%	1.2%	2.1%	1.1%	0.0%	0.6%	4.0%	0.0%	0.0%	--
WIST3006	1,823	20	6	30	13	78	19	129	34	170	32	153	44	179	25	153	28	201	38	236	15	209	10	1	0	0
# Fail	68	1	0	1	1	4	3	11	3	9	4	9	0	5	0	6	1	5	1	1	0	2	1	0	0	0
% Fail	3.7%	5.0%	0.0%	3.3%	7.7%	5.1%	15.8%	8.5%	8.8%	5.3%	12.5%	5.9%	0.0%	2.8%	0.0%	3.9%	3.6%	2.5%	2.6%	0.4%	0.0%	1.0%	10.0%	0.0%	--	--
WIST3013	2,730	26	10	37	19	81	38	139	44	175	62	216	87	285	53	236	85	280	90	371	41	309	32	14	0	0
# Fail	134	1	2	5	1	9	5	8	6	20	9	18	4	13	3	8	4	8	2	7	0	1	0	0	0	0
% Fail	4.9%	3.8%	20.0%	13.5%	5.3%	11.1%	13.2%	5.8%	13.6%	11.4%	14.5%	8.3%	4.6%	4.6%	5.7%	3.4%	4.7%	2.9%	2.2%	1.9%	0.0%	0.3%	0.0%	0.0%	--	--
WIST3014	3,089	32	18	60	34	121	41	184	57	247	90	277	102	315	84	275	66	303	91	339	39	293	15	6	0	0
# Fail	218	2	3	3	5	14	8	23	12	33	14	21	14	19	8	12	4	9	3	6	2	3	0	0	0	0
% Fail	7.1%	6.3%	16.7%	5.0%	14.7%	11.6%	19.5%	12.5%	21.1%	13.4%	15.6%	7.6%	13.7%	6.0%	9.5%	4.4%	6.1%	3.0%	3.3%	1.8%	5.1%	1.0%	0.0%	0.0%	--	--
WIST3015	3,179	27	13	63	19	113	27	173	38	256	51	287	75	328	47	312	63	405	92	408	34	325	18	4	1	0
# Fail	87	2	2	4	1	6	2	14	0	8	5	11	3	9	1	5	0	9	2	1	1	1	0	0	0	0
% Fail	2.7%	7.4%	15.4%	6.3%	5.3%	5.3%	7.4%	8.1%	0.0%	3.1%	9.8%	3.8%	4.0%	2.7%	2.1%	1.6%	0.0%	2.2%	2.2%	0.2%	2.9%	0.3%	0.0%	0.0%	0.0%	--
WIST3016	4,194	65	25	112	57	220	74	265	100	318	117	411	115	426	73	345	104	448	115	422	30	331	11	9	1	0
# Fail	272	4	2	14	8	32	13	28	11	29	13	36	9	28	4	11	2	9	4	11	0	2	1	1	0	0
% Fail	6.5%	6.2%	8.0%	12.5%	14.0%	14.5%	17.6%	10.6%	11.0%	9.1%	11.1%	8.8%	7.8%	6.6%	5.5%	3.2%	1.9%	2.0%	3.5%	2.6%	0.0%	0.6%	9.1%	11.1%	0.0%	--
WIST3018	1,711	17	14	39	19	55	37	89	46	160	56	163	79	172	42	135	47	142	52	172	21	152	0	2	0	0
# Fail	137	0	2	6	5	6	5	15	11	19	5	10	12	19	7	7	0	5	1	1	0	1	0	0	0	0
% Fail	8.0%	0.0%	14.3%	15.4%	26.3%	10.9%	13.5%	16.9%	23.9%	11.9%	8.9%	6.1%	15.2%	11.0%	16.7%	5.2%	0.0%	3.5%	1.9%	0.6%	0.0%	0.7%	--	0.0%	--	--
WIST3021	2,005	26	9	32	14	76	17	88	33	147	41	175	62	182	34	165	45	220	55	270	33	258	19	1	3	0
# Fail	54	3	1	2	1	4	2	3	2	6	1	6	3	7	1	2	0	4	1	2	1	1	1	0	0	0
% Fail	2.7%	11.5%	11.1%	6.3%	7.1%	5.3%	11.8%	3.4%	6.1%	4.1%	2.4%	3.4%	4.8%	3.8%	2.9%	1.2%	0.0%	1.8%	1.8%	0.7%	3.0%	0.4%	5.3%	0.0%	0.0%	--
WIST3022	157	0	0	4	1	13	5	9	1	16	1	10	9	21	3	4	11	17	8	11	0	9	0	4	0	0
# Fail	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Fail	1.3%	--	--	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	--	0.0%	--	0.0%	--	--
WIST3023	1,021	7	5	13	2	15	1	34	8	43	8	75	12	90	14	96	18	160	27	207	23	156	4	2	1	0
# Fail	23	0	0	0	0	1	0	3	1	2	2	2	0	4	0	2	1	3	0	1	0	1	0	0	0	0
% Fail	2.3%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	8.8%	12.5%	4.7%	25.0%	2.7%	0.0%	4.4%	0.0%	2.1%	5.6%	1.9%	0.0%	0.5%	0.0%	0.6%	0.0%	0.0%	0.0%	--
WIST3024	7,017	89	31	120	73	252	99	381	162	534	218	600	234	695	165	639	200	688	185	841	85	676	41	6	3	0
# Fail	352	5	4	12	7	20	19	40	22	43	14	35	22	30	6	26	7	23	4	8	2	2	1	0	0	0
% Fail	5.0%	5.6%	12.9%	10.0%	9.6%	7.9%	19.2%	10.5%	13.6%	8.1%	6.4%	5.8%	9.4%	4.3%	3.6%	4.1%	3.5%	3.3%	2.2%	1.0%	2.4%	0.3%	2.4%	0.0%	0.0%	--
WIST3030	899	2	2	8	5	16	4	26	13	52	16	70	18	106	17	80	16	115	26	151	14	139	3	0	0	0
# Fail	33	0	0	0	1	1	1	1	2	3	2	6	0	7	3	2	1	2	0	1	0	0	0	0	0	0
% Fail	3.7%	0.0%	0.0%	0.0%	20.0%	6.3%	25.0%	3.8%	15.4%	5.8%	12.5%	8.6%	0.0%	6.6%	17.6%	2.5%	6.3%	1.7%	0.0%	0.7%	0.0%	0.0%	0.0%	--	--	--
WIST3031	19	0	0	2	0	0	0	1	2	0	0	1	1	5	1	0	1	1	1	2	0	1	0	0	0	0
# Fail	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
% Fail	10.5%	--	--	0.0%	--	--	--	0.0%	50.0%	--	--	0.0%	0.0%	20.0%	0.0%	--	0.0%	0.0%	0.0%	0.0%	--	0.0%	--	--	--	--
WIST3032	407	1	3	6	2	14	5	38	4	32	8	30	10	47	1	21	7	45	12	62	9	47	3	0	0	0
# Fail	12	0	1	0	0	1	0	6	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Fail	2.9%	0.0%	33.3%	0.0%	0.0%	7.1%	0.0%	15.8%	25.0%	6.3%	0.0%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	--	--	--
WIST3033	31	1	0	0	2	2	3	3	0	3	0	0	1	5	0	4	1	2	1	1	0	1	1	0	0	0
# Fail	3	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
% Fail	9.7%	0.0%	--	--	0.0%	0.0%	33.3%	0.0%	--	0.0%	--	--	0.0%	20.0%	--	25.0%	0.0%	0.0%	0.0%	0.0%	--	0.0%	0.0%	--	--	--

WIST3034	282	0	0	1	3	2	0	10	2	9	4	15	8	19	6	32	9	46	8	42	8	50	6	1	1	0
# Fail	6	0	0	0	1	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0
% Fail	2.1%	--	--	0.0%	33.3%	50.0%	--	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	--
WIST3035	95	0	0	0	2	0	0	4	3	3	2	3	3	9	4	6	1	11	5	22	1	11	5	0	0	0
# Fail	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Fail	1.1%	--	--	--	0.0%	--	--	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	--	--	--
WIST3036	723	3	1	7	3	12	2	23	6	23	16	47	18	75	15	71	29	95	26	98	16	124	11	1	1	0
# Fail	11	0	0	0	0	0	0	0	0	1	0	3	0	3	1	0	1	0	0	1	0	1	0	0	0	0
% Fail	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%	0.0%	6.4%	0.0%	4.0%	6.7%	0.0%	3.4%	0.0%	0.0%	1.0%	0.0%	0.8%	0.0%	0.0%	0.0%	--
WIST3037	594	6	3	11	8	18	11	24	14	34	23	46	11	58	15	51	18	69	22	63	6	69	12	1	1	0
# Fail	30	0	0	2	1	3	1	0	1	4	2	4	0	5	1	2	0	2	0	0	0	2	0	0	0	0
% Fail	5.1%	0.0%	0.0%	18.2%	12.5%	16.7%	9.1%	0.0%	7.1%	11.8%	8.7%	8.7%	0.0%	8.6%	6.7%	3.9%	0.0%	2.9%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	--
WIST4002	1,170	10	0	29	2	24	9	70	17	90	18	97	28	133	10	95	20	140	25	174	11	160	7	1	0	0
# Fail	34	0	0	2	0	3	0	4	0	3	1	2	3	5	0	1	1	6	0	3	0	0	0	0	0	0
% Fail	2.9%	0.0%	--	6.9%	0.0%	12.5%	0.0%	5.7%	0.0%	3.3%	5.6%	2.1%	10.7%	3.8%	0.0%	1.1%	5.0%	4.3%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	--	--
WIST4003	4,189	37	12	76	15	116	46	203	56	247	62	340	86	437	84	395	79	538	121	583	58	563	30	4	1	0
# Fail	122	4	0	5	1	8	3	16	5	13	5	18	4	16	3	2	2	8	0	8	0	1	0	0	0	0
% Fail	2.9%	10.8%	0.0%	6.6%	6.7%	6.9%	6.5%	7.9%	8.9%	5.3%	8.1%	5.3%	4.7%	3.7%	3.6%	0.5%	2.5%	1.5%	0.0%	1.4%	0.0%	0.2%	0.0%	0.0%	0.0%	--
WIST4006	6,480	32	10	85	27	190	42	282	62	410	90	567	120	676	69	591	115	843	158	997	68	995	44	6	1	0
# Fail	171	4	2	5	3	6	6	16	2	17	5	24	5	27	2	15	2	15	2	7	1	5	0	0	0	0
% Fail	2.6%	12.5%	20.0%	5.9%	11.1%	3.2%	14.3%	5.7%	3.2%	4.1%	5.6%	4.2%	4.2%	4.0%	2.9%	2.5%	1.7%	1.8%	1.3%	0.7%	1.5%	0.5%	0.0%	0.0%	0.0%	--
WIST4014	1,072	11	6	30	3	51	12	75	23	90	20	78	19	101	17	77	14	139	17	146	12	122	9	0	0	0
# Fail	31	1	1	5	1	1	1	6	0	7	0	1	1	1	1	0	0	4	0	0	0	0	0	0	0	0
% Fail	2.9%	9.1%	16.7%	16.7%	33.3%	2.0%	8.3%	8.0%	0.0%	7.8%	0.0%	1.3%	5.3%	1.0%	5.9%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	--	--	--
WIST4017	5,897	52	9	63	24	130	40	255	58	362	79	425	89	633	74	595	110	779	127	980	76	881	46	8	2	0
# Fail	158	1	0	4	3	9	2	18	4	18	4	19	8	19	2	20	1	12	2	7	0	4	1	0	0	0
% Fail	2.7%	1.9%	0.0%	6.3%	12.5%	6.9%	5.0%	7.1%	6.9%	5.0%	5.1%	4.5%	9.0%	3.0%	2.7%	3.4%	0.9%	1.5%	1.6%	0.7%	0.0%	0.5%	2.2%	0.0%	0.0%	--
WIST4019	407	5	3	9	4	18	3	29	14	33	13	42	17	43	9	27	13	37	7	46	1	33	1	0	0	0
# Fail	21	1	1	1	1	2	1	1	3	4	0	3	0	0	1	1	0	0	1	0	0	0	0	0	0	0
% Fail	5.2%	20.0%	33.3%	11.1%	25.0%	11.1%	33.3%	3.4%	21.4%	12.1%	0.0%	7.1%	0.0%	0.0%	11.1%	3.7%	0.0%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	--	--	--
WIST4026	2,471	10	1	25	7	44	7	66	25	127	26	139	38	215	41	241	59	398	69	383	47	460	32	5	5	1
# Fail	48	1	0	2	3	4	0	3	3	7	2	2	0	4	2	3	1	3	2	4	0	2	0	0	0	0
% Fail	1.9%	10.0%	0.0%	8.0%	42.9%	9.1%	0.0%	4.5%	12.0%	5.5%	7.7%	1.4%	0.0%	1.9%	4.9%	1.2%	1.7%	0.8%	2.9%	1.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%
WIST4031	4,246	55	31	109	38	190	74	285	98	365	125	390	145	379	83	312	96	414	91	465	35	439	20	5	2	0
# Fail	230	7	5	11	2	22	5	30	9	31	17	25	10	16	5	10	3	10	2	8	1	1	0	0	0	0
% Fail	5.4%	12.7%	16.1%	10.1%	5.3%	11.6%	6.8%	10.5%	9.2%	8.5%	13.6%	6.4%	6.9%	4.2%	6.0%	3.2%	3.1%	2.4%	2.2%	1.7%	2.9%	0.2%	0.0%	0.0%	0.0%	--
WIST4032	5,928	76	69	150	93	305	166	419	239	508	272	615	273	576	160	396	160	438	155	456	54	317	21	5	4	1
# Fail	830	15	19	41	15	57	48	89	47	99	46	97	41	67	21	46	12	35	8	22	1	3	1	0	0	0
% Fail	14.0%	19.7%	27.5%	27.3%	16.1%	18.7%	28.9%	21.2%	19.7%	19.5%	16.9%	15.8%	15.0%	11.6%	13.1%	11.6%	7.5%	8.0%	5.2%	4.8%	1.9%	0.9%	4.8%	0.0%	0.0%	0.0%
WIST4040	2,384	16	6	19	5	62	16	103	20	143	30	191	36	226	38	241	44	298	54	422	36	352	20	2	3	1
# Fail	58	1	0	2	0	3	1	7	3	8	1	10	1	9	1	1	0	6	2	1	0	1	0	0	0	0
% Fail	2.4%	6.3%	0.0%	10.5%	0.0%	4.8%	6.3%	6.8%	15.0%	5.6%	3.3%	5.2%	2.8%	4.0%	2.6%	0.4%	0.0%	2.0%	3.7%	0.2%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%
WIST4042	3,932	48	16	85	40	169	39	226	80	323	123	401	132	437	90	323	90	421	112	415	46	294	19	2	0	1
# Fail	203	4	1	9	2	10	2	24	12	19	10	33	11	27	3	9	7	9	2	7	0	1	1	0	0	0
% Fail	5.2%	8.3%	6.3%	10.6%	5.0%	5.9%	5.1%	10.6%	15.0%	5.9%	8.1%	8.2%	8.3%	6.2%	3.3%	2.8%	7.8%	2.1%	1.8%	1.7%	0.0%	0.3%	5.3%	0.0%	--	0.0%

Table with 26 columns and multiple rows. Each row represents a station ID (e.g., WIST4062) and includes columns for 'Fail' counts and percentages. The data is organized in groups of three rows per station ID.

40 CFR §51.366 (a)(4)
Initial Test Failure by Model Year and Station
from 1/1/2019 to 12/31/2019

WISTT005	3,093	17	9	43	16	76	18	162	43	192	46	250	44	297	45	278	66	392	86	500	31	460	18	4	0	0
# Fail	92	1	2	4	1	4	1	7	7	16	4	9	1	10	1	14	0	5	1	4	0	0	0	0	0	0
% Fail	3.0%	5.9%	22.2%	9.3%	6.3%	5.3%	5.6%	4.3%	16.3%	8.3%	8.7%	3.6%	2.3%	3.4%	2.2%	5.0%	0.0%	1.3%	1.2%	0.8%	0.0%	0.0%	0.0%	0.0%	--	--
WISTT007	1,143	19	2	27	11	50	18	60	19	77	14	109	29	118	15	84	29	135	24	165	11	122	4	1	0	0
# Fail	57	2	0	3	2	6	7	9	1	7	1	9	2	3	0	1	2	1	1	0	0	0	0	0	0	0
% Fail	5.0%	10.5%	0.0%	11.1%	18.2%	12.0%	38.9%	15.0%	5.3%	9.1%	7.1%	8.3%	6.9%	2.5%	0.0%	1.2%	6.9%	0.7%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	--	--
WISTT009	3,399	32	7	46	16	87	26	142	36	239	51	248	66	347	66	291	79	435	82	506	68	504	22	2	1	0
# Fail	108	4	0	3	3	2	3	8	2	17	4	8	3	21	4	9	2	5	0	7	0	3	0	0	0	0
% Fail	3.2%	12.5%	0.0%	6.5%	18.8%	2.3%	11.5%	5.6%	5.6%	7.1%	7.8%	3.2%	4.5%	6.1%	6.1%	3.1%	2.5%	1.1%	0.0%	1.4%	0.0%	0.6%	0.0%	0.0%	0.0%	--
Tested	674,297	6,428	2,799	11,736	4,903	22,155	7,439	34,822	11,349	47,803	14,750	57,734	17,090	67,569	11,722	59,806	15,100	77,314	17,830	91,351	7,988	81,598	3,896	789	297	29
# Fail	28,373	547	373	1,104	567	2,003	1,028	3,332	1,197	3,529	1,262	3,477	1,131	2,994	514	1,663	463	1,455	289	959	99	357	21	7	2	0
% Fail	4.2%	8.5%	13.3%	9.4%	11.6%	9.0%	13.8%	9.6%	10.5%	7.4%	8.6%	6.0%	6.6%	4.4%	4.4%	2.8%	3.1%	1.9%	1.6%	1.0%	1.2%	0.4%	0.5%	0.9%	0.7%	0.0%

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Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST2030	A&J Automotive	8401 W. Hampton Ave	Milwaukee	53225	Milwaukee	12
WIST3003	Accelerated Auto Service	667 W. State St.	Burlington	53105	Racine	12
WIST1003	Allenton Service	5908 Hillcrest Dr.	Allenton	53002	Washington	15
WIST7020	American Muffler & Automotive	5933 S. Pine St.	Burlington	53105	Racine	12
WIST6042	Amport Automotive	1324 White Rock Ave.	Waukesha	53186	Waukesha	12
WIST6007	Anderson Automotive	240 Highland Dr.	Fredonia	53021	Ozaukee	15
WISTT003	Auto Analyzers (TAC)	8404 W. Greenfield Ave.	West Allis	53214	Milwaukee	12
WIST2019	Automotive Solutions	215 Klein Lane	Saukville	53080	Ozaukee	15
WIST1024	Autoplex of Milwaukee LLC	5130 W. Forest Home Ave	Milwaukee	53219	Milwaukee	12
WIST8011	B Towne Auto Service	457 Falcon Ridge Dr	Burlington	53105	Racine	24
WIST3033	Bad Boyz Automotive Repair Inc	4103 7th Avenue	Kenosha	53140	Kenosha	3
WIST7115	Black Tie Auto Service	S84 W21172 Janesville Rd	Muskego	53150	Waukesha	12
WIST4045	Bob's Main Street Auto & Tow	1200 N Main St	West Bend	53090	Washington	15
WIST5008	Bob's Main Street Auto & Tow	115 W. Decorah Rd	West Bend	53095	Washington	15
WIST7121	Boucher Hyundai	1583 E Moreland Blvd	Waukesha	53186	Waukesha	3
WIST7132	Brown Deer Tire & Auto	4730 W Bradley Rd	Brown Deer	53223	Milwaukee	15
WIST5087	Bully Diesel and Automotive Repair	5512 75th St.	Kenosha	53142	Kenosha	6
WIST1012	Butler Auto Body	4830 N. 125th St.	Butler	53142	Waukesha	15
WIST3015	Carlton Automotive Inc.	1318 Center St.	Oostburg	53070	Sheboygan	15
WIST1023	Changing Lanes	5700 W. Center	Milwaukee	53209	Milwaukee	12
WIST5049	Chris Auto Service	14000 W. Greenfield Ave.	Brookfield	53005	Waukesha	15
WIST6004	Chuck's Main St. Auto	N64 W23876 Main St.	Sussex	53089	Waukesha	12
WIST5055	Curriepark Auto Center	10745 W. Capitol Dr.	Wauwatosa	53222	Milwaukee	15
WIST5040	Dads Auto Service	S98 W12575 Loomis Crt.	Muskego	53150	Waukesha	0
WIST5005	Dave's Garage Inc.	5454 W. Forest Home Ave.	Greenfield	53220	Milwaukee	12
WIST5045	Dave's Truck & 4 X 4 Repair, LLC	2993 Sherman Rd.	Jackson	53037	Washington	15
WIST1020	Don's Garage	11916 Antioch Rd	Trevor	53179	Kenosha	12
WIST5015	Durand Automotive Center	1623 Durand Ave.	Racine	53403	Racine	12
WIST6033	Eric Von Schledorn	805 E Green Bay Rd	Saukville	53080	Ozaukee	15
WIST3021	Eric Von Schledorn - Random Lake	W4873 County Road RR	Random Lake	53066	Sheboygan	15
WIST2017	Ewald Chevrolet	36833 E. Wisconsin Ave	Oconomowoc	53066	Waukesha	12
WIST5085	Ewald Chrysler Jeep Dodge Ram	6319 S 108th Street	Franklin	53132	Milwaukee	12
WIST4064	Ewald Hartford Ford LLC	2570 E Sumner Street	Hartford	53027	Washington	12
WIST4040	Ewald Venus Ford	2727 E. Layton Ave.	Cudahy	53110	Milwaukee	15
WIST5011	F & F Tire World - Bluemound Rd.	20120 Bluemound Rd.	Brookfield	53045	Waukesha	15
WIST4017	F & F Tire World - Franklin	2930 W. Rawson Ave.	Franklin	53132	Milwaukee	12
WIST5009	F & F Tire World - Moorland Rd	410 N. Moorland Rd	Brookfield	53005	Waukesha	15
WIST7081	Farkas Automotive Inc.	8008 N. Sherman	Brown Deer	53209	Milwaukee	15
WIST2034	Fast Track - Mukwonago	1146 N Rochester St	Mukwonago	53149	Waukesha	3
WIST8006	Fast Track Oil Change # 09	5450 N Port Washington Rd	Glendale	53216	Milwaukee	15
WIST8005	Fast Track Oil Change #04	6942 W Brown Deer Rd	Milwaukee	53223	Milwaukee	6
WIST5069	Fast Track Oil Change #08	7515 W Capitol Dr	Milwaukee	53216	Milwaukee	6

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST4044	Fast Track Oil Change #11	6207 W North Ave	Wauwatosa	53213	Milwaukee	15
WIST7113	Fast Track Oil Change #03	5400 S. 108th St.	Hales Corners	53130	Milwaukee	3
WIST8002	Fast Track Oil Change #1	15400 W National Ave	New Berlin	53151	Waukesha	3
WIST7116	Fast Track Oil Change #10	14245 W. Capitol Dr.	Brookfield	53005	Waukesha	9
WIST2018	Fast Track Oil Change #13	1557 W Moreland Blvd	Waukesha	53186	Waukesha	9
WIST7119	Fast Track Oil Change #2	W62N271 Washington Ave	Cedarburg	53012	Ozaukee	15
WIST5071	Fast Track Oil Change #5	5428 Washington Ave	Racine	53406	Racine	12
WIST4043	Fast Track Oil Change #7	4296 S 27TH ST	Milwaukee	53221	Milwaukee	9
WIST8007	Fast Track Oil Change Center #6	3130 S 108th St	West Allis	53227	Milwaukee	6
WIST7108	Fast Track Sheboygan - Calumet	2757 Calumet Dr.	Sheboygan	53081	Sheboygan	12
WIST3016	Fast Track Sheboygan - Indiana	1328 Indiana Ave.	Sheboygan	53081	Sheboygan	15
WIST7109	Fast Track Sheboygan - Taylor	3669 S. Taylor Dr.	Sheboygan	53081	Sheboygan	15
WIST5083	First Rate Auto	5424 W. State St	Milwaukee	53208	Milwaukee	15
WIST3022	Fleet 1	749 W STATE ST	Milwaukee	53202	Milwaukee	12
WIST4019	Fleet Auto Sales & Service	7400 W. National Ave.	West Allis	53214	Milwaukee	3
WIST6044	Fleet Auto Sales & Service	7400 W. National Ave.	West Allis	53214	Milwaukee	12
WIST7092	G-Brock's Auto Repair	375 E. Ottawa Ave	Dousman	53118	Waukesha	12
WIST6035	Good Hope Service	4230 W. Good Hope Rd.	Milwaukee	53209	Milwaukee	12
WIST3005	Gordie Boucher Ford Lincoln	3021 W. Washington St.	West Bend	53095	Washington	15
WIST7093	Gordon's Wheel Service	3595 N. 124 St.	Brookfield	53005	Waukesha	15
WIST5066	Grady's Automotive Inc.	6272 S. Packard Ave	Cudahy	53110	Milwaukee	12
WIST4058	Greitens Auto Service	5804 W. Bluemound Rd	Milwaukee	53213	Milwaukee	15
WIST7078	Griffin Ford	1940 E. Main St.	Waukesha	53186	Waukesha	12
WIST6022	Hall Automotive	704 Bluemound Rd.	Waukesha	53189	Waukesha	12
WIST7016	Hartland Services Inc.	400 Industrial Dr	Hartland	53029	Waukesha	12
WIST2015	Heiser Toyota	11301 W. Metro Blvd.	Milwaukee	53224	Milwaukee	15
WIST7088	Hoffman Auto & Tire	4811 Greenbay Rd.	Kenosha	53144	Kenosha	12
WIST7129	Hopson Automotive	W241 S4165 Pine Hollow Ct	Waukesha	53189	Waukesha	12
WIST8016	It's All Good Auto	10125 W. Loomis Rd.	Franklin	53132	Milwaukee	12
WIST8009	Jackson Superlube	W213N16770 Glen Brook Dr	Jackson	53037	Washington	15
WIST8018	Jeffs Automotive	5261 S. Nicholas Ave	Cudahy	53110	Milwaukee	15
WISTT009	Jerry's Auto Service Inc. (TAC)	W229 N2467 Hwy F	Waukesha	53186	Waukesha	12
WIST1019	Jiffy Lube	7127 Durand AVE	Sturtevant	53177	Racine	12
WIST4063	Jim's Auto Service	W4131 Main RD	Plymouth	53073	Sheboygan	12
WIST4002	Joe's Slinger Service LLC	220 Info Hwy. Crt.	Slinger	53086	Washington	15
WIST6030	John Amato Ford	1015 S Main St	Mukwonago	53149	Waukesha	0
WIST3013	John Amato Hyundai Inc.	8301 N. 76th St.	Milwaukee	53223	Milwaukee	12
WIST3023	John Amato Nissan	5200 N Port Washington Rd	Glendale	53217	Milwaukee	12
WIST7022	John Paul's Buick GMC	3615 S. 108th St.	Greenfield	53228	Milwaukee	12
WIST7134	Karls Garage LLC	N6745B State Road 32	Sheboygan Falls	53085	Sheboygan	15
WIST4051	Kastenson Auto (formally Tenhagen Auto)	21445 Durand Ave	Union Grove	53182	Racine	12
WIST7136	Keno Collision & Service	7514 Sheridan Rd.	Kenosha	53143	Kenosha	12

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Station	Company	Address	City	Zip	County	Total Equip Audits
WIST6046	Keosyn	5230 W. Lisbon Ave	Milwaukee	53210	Milwaukee	0
WIST2033	Kerns on 76th	7960 N 76th Street	Milwaukee	53223	Milwaukee	12
WIST3014	Komp Tech Automotive Service	8832 W. Greenfield Ave.	West Allis	53214	Milwaukee	15
WIST4003	Kusch's Automotive	136 N. 120th St.	Wauwatosa	53226	Milwaukee	12
WIST5086	Kwiky Lube Plus	N88 W15220 main Street	Menomonee Falls	53051	Waukesha	12
WIST4049	LaBelle Auto	N56 W39413 Hwy 16	Oconomowoc	53066	Waukesha	12
WIST4061	Lake Country Auto Care	449 HICKORY STREET	Pewaukee	53072	Waukesha	12
WIST2025	Lakeshore Mobile	2521 E. Capitol	Shorewood	53211	Milwaukee	15
WIST3018	Larrys Auto	6373 North 91st Street	Milwaukee	53225	Milwaukee	12
WIST4014	Laubenheimer's Garage LLC	1860 Hwy 175, PO Box 36	Richfield	53076	Washington	15
WIST4032	Laus Tire & Auto	5025 W. Villard Ave.	Milwaukee	53218	Milwaukee	12
WIST4053	Liberty Street Auto	1600 Durand Ave	Racine	53404	Racine	12
WIST7023	Lisbon Sales & Services	7515 W. Lisbon Ave.	Milwaukee	53216	Milwaukee	15
WIST6013	Lutter's Elmbrook Automotive	16880 Greenfield Ave.	Brookfield	53005	Waukesha	15
WIST3032	M & D Auto Services	W19 N5733 Becker Dr	Lannon	53046	Waukesha	12
WIST6001	M & M Citgo	2101 Douglas Ave.	Racine	53402	Racine	12
WIST6021	Maddison Automotive	210 N. Wales Rd.	Wales	53183	Waukesha	12
WIST7120	Manyo Motors	4035 N Green Bay Avenue	Milwaukee	53212	Milwaukee	12
WIST4057	Marks Mobil Service LLC	12401 W. Cleveland Ave.	New Berlin	53151	Waukesha	12
WIST6026	Martin Ford	19215 Spring St	Union Grove	53182	Racine	12
WIST3006	Martin's Automotive Services	W230 S8750 Wynn Dr	Big Bend	53103	Waukesha	12
WIST5053	Mayer Automotive LLC.	W6082 Hwy W	Cascade	53011	Sheboygan	15
WIST4060	McDevitts Towing and Service	5150 60th Street	Kenosha	53144	Kenosha	12
WIST2031	Meineke - Racine	6006 21ST STREET	Racine	53406	Racine	12
WIST4042	Meineke Car Care Center	4320 S 27TH ST	Milwaukee	53221	Milwaukee	12
WIST5077	Menomonee Falls Super Lube	W156 N8390 Pilgrim Rd	Menomonee Falls	53051	Waukesha	18
WIST3030	Merlin 200,000 Mile Shop	8601 75th St.	Kenosha	53142	Kenosha	12
WIST7103	Meyer Motors Inc.	107 Plaza Lane	Plymouth	53073	Sheboygan	15
WIST6043	Mil-City Motors	7169 W. Fond Du Lac Ave	Milwaukee	53218	Milwaukee	12
WIST5079	Miller Motors	1196 Milwaukee Ave	Burlington	53105	Racine	12
WIST6041	Mister Car Wash - Franklin	7700 W. Rawson Ave	Franklin	53132	Milwaukee	0
WIST5075	Muffler Magic - 76th Street (AAMCO)	9055 N 76th	Milwaukee	53223	Milwaukee	12
WIST4055	Munro's Auto Service	5048 S. 27th	Milwaukee	53221	Milwaukee	12
WIST7094	Muskego Tire & Auto	S73 W16610 Janesville Rd	Muskego	53150	Waukesha	12
WIST8004	National Auto Tech	630 W. National Ave	Milwaukee	53204	Milwaukee	18
WIST7095	National Complete Auto Care	16405 W. National Ave.	New Berlin	53151	Waukesha	12
WIST7030	National Pride Auto	5512 75th St.	Kenosha	53142	Kenosha	21
WIST7031	Nelson's Automotive of Pewaukee	N49 W22900 Commerce Ctr. Dr.	Pewaukee	53072	Waukesha	12
WIST6034	New Berlin Tire	15650 W National Ave	New Berlin	53151	Waukesha	12
WIST4006	Newman Chevrolet	1181 Wauwatosa Rd	Cedarburg	53012	Ozaukee	15
WIST7014	Oak Creek Automotive Inc.	7948 S. 27th St.	Oak Creek	53154	Milwaukee	12
WIST5004	O'Gorman's West Town Auto	7105 W. North Ave.	Wauwatosa	53213	Milwaukee	15

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Station	Company	Address	City	Zip	County	Total Equip Audits
WIST7044	Oil Express - AKA River Falls Oil & Tire	N88W15220 Main St.	Menomonee Falls	53051	Waukesha	3
WIST5029	Palmen Buick, GMC, Cadillac	7110 74th Place	Kenosha	53142	Kenosha	12
WIST7004	Passehl's BP	4625 Taylor Ave.	Racine	53405	Racine	12
WIST6018	Paul's Bender Center	8313 22nd Ave.	Kenosha	53143	Kenosha	12
WIST2027	Pennzoil Pewaukee	1284 Capitol Dr.	Pewaukee	53072	Waukesha	12
WIST7033	Pinkalla Auto Solutions	3059 Durand Ave.	Racine	53403	Racine	12
WIST2021	Port Washington Super Lube	1610 N Washington St	Port Washington	53074	Ozaukee	15
WIST5017	Pro Auto Center	303 E. Monroe Ave.	Hartford	53027	Washington	15
WIST4031	R & R Automotive	6930 39th Ave.	Kenosha	53142	Kenosha	12
WIST8008	R.K. Motors	3700 N Holton St	Milwaukee	53212	Milwaukee	12
WIST7036	Racine Auto Specialist	2320 Douglas Ave.	Racine	53402	Racine	12
WIST7039	Richfield Service	1810 Wolf Rd	Richfield	53076	Washington	15
WIST7041	Richlonns Tire & Service Center - Greendale	5131 S. 76th St.	Greendale	53129	Milwaukee	12
WIST5037	Richlonns Tire & Service Center - Greenfield	4440 S. 108th St.	Greenfield	53228	Milwaukee	12
WIST7040	Richlonns Tire & Service Center - Muskego	S78 W18755 Janesville Rd	Muskego	53150	Waukesha	12
WIST7042	Richlonns Tire & Service Center - Waukesha	2480 W. Sunset Dr.	Waukesha	53189	Waukesha	12
WIST4050	Rick's Car Care	6121 W Mequon Rd	Mequon	53092	Ozaukee	15
WIST3035	Righteous Auto	6142 Douglas Ave	Racine	53402	Racine	15
WIST7045	Rivers Edge Oil & Tire	811 S. Rochester St.	Mukwonago	53149	Waukesha	12
WIST2029	Road Runner Express	5275 S.Moorland Rd	New Berlin	53151	Waukesha	12
WIST5058	Ruby Isle Auto	11137 W. Silver Spring Dr.	Milwaukee	53225	Milwaukee	15
WIST5003	Russ Darrow Chrysler Jeep Dodge	10901 West Metro Mall	Milwaukee	53224	Milwaukee	15
WIST7009	Russ Darrow Honda - Metro Auto Mall	10851 W. Metro Auto Mall	Milwaukee	53224	Milwaukee	18
WIST7086	Russ Darrow Kia of Waukesha	2141 E. Moreland Blvd	Waukesha	53186	Waukesha	12
WIST4026	Russ Darrow Kia of Wauwatosa	1901 N. Mayfair Rd	Wauwatosa	53226	Milwaukee	18
WIST5023	Russ Darrow Mitsubishi	W226 S1700 Hwy 164	Waukesha	53186	Waukesha	12
WIST5044	Russ Darrow Nissan - Metro BLVD	11212 W Metro Blvd	Milwaukee	53224	Milwaukee	15
WIST2032	Russ Darrow Nissan - West Bend	2665 W Washington Ave	West Bend	53095	Washington	15
WIST7049	Russ Darrow Toyota	2700 W. Washington St.	West Bend	53095	Washington	15
WIST7006	Russ Darrow West Bend	3210 W. Washington St.	West Bend	53095	Washington	15
WIST7137	Rutters Automotive Service	7550 W. Appleton Ave	Milwaukee	53216	Milwaukee	12
WIST7011	Salem Auto Service	8515 Antioch Rd	Salem	53168	Kenosha	12
WISTT010	Sam's Auto	4315 Byrd Ave	Racine	53405	Racine	12
WISTT005	Schaefer Service Center (TAC)	1130 E. Commerce Blvd	Slinger	53086	Washington	15
WIST5082	SDR Total Repair	3625 Roosevelt Road	Kenosha	53142	kenosha	12
WIST4059	Sheboygan Auto Helpers	3667 S Taylor Drive	Sheboygan	54081	Sheboygan	3
WIST5084	Sheboygan Auto Helpers	3667 S Taylor Drive	Sheboygan	54081	Sheboygan	12
WIST5081	Sheboygan Chevrolet GMC Buick	3400 South Business Drive	Sheboygan	53081	Sheboygan	15
WIST7098	Shorewood Auto Repair	1330 E. Capitol Dr.	Shorewood	53211	Milwaukee	15
WIST8001	Silver Lake Auto Center	N76 W30620 HWY VV	Hartland	53029	Waukesha	12
WIST7053	Silver Lake Auto Service Inc.	551 N. Cogswell Dr.	Silver Lake	53170	Kenosha	12
WIST7052	Silver Lake Auto Service Inc.	36355 E. Wisconsin Ave.	Oconomowoc	53066	Waukesha	12

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Station	Company	Address	City	Zip	County	Total Equip Audits
WIST7069	Silvernail Emissions Car Care & Uhaul	2210 Silvernail Rd	Pewaukee	53072	Waukesha	12
WIST7054	Sippl's Auto Service Inc.	N87 W17460 Main St.	Menomonee Falls	53051	Waukesha	0
WIST7055	South Milwaukee Car Care Center	1221 N. Chicago Ave.	South Milwaukee	53172	Milwaukee	12
WIST7056	Southtown Tire & Auto	2906 S. 108th St.	West Allis	53227	Milwaukee	15
WISTT007	Sunset Auto Service	1194 FOND DU LAC AVE	Sheboygan Falls	53085	Sheboygan	15
WIST8022	Take 5 Oil Change - 27th Street	4296 S 27TH ST	Milwaukee	53221	Milwaukee	12
WIST6053	Take 5 Oil Change - Brookfield	14245 West Capitol Ave	Brookfield	53005	Waukesha	12
WIST1025	Take 5 Oil Change - Brown Deer	6942 W Brown Deer Rd	Brown Deer	53223	Milwaukee	12
WIST4066	Take 5 Oil Change - Capitol	7515 W Capitol Dr	Milwaukee	53216	Milwaukee	12
WIST6047	Take 5 Oil Change - Cedarburg	W62N271 Washington Ave	Cedarburg	53012	Ozaukee	12
WIST6048	Take 5 Oil Change - Glendale	5450 N Port Washington Rd	Glendale	53217	Milwaukee	12
WIST8020	Take 5 Oil Change - Hales Corners	5400 South 108th Street	Hales Corners	53130	Milwaukee	12
WIST6050	Take 5 Oil Change - Mukwanago	1146 North Rochester Street	Mukwonago	53149	Waukesha	3
WIST3036	Take 5 Oil Change - New Berlin	15400 West National Ave	New Berlin	53151	Waukesha	6
WIST2036	Take 5 Oil Change - Racine	5428 Washington Ave	Racine	53406	Racine	12
WIST8021	Take 5 Oil Change - Waukesha	1557 East Moreland Ave	Waukesha	53186	Waukesha	6
WIST6049	Take 5 Oil Change - Wauwatosa	6207 West North Ave	Wauwatosa	53213	Milwaukee	6
WIST3037	Take 5 Oil Change - West Allis	3130 South 108th Street	West Allis	53227	Milwaukee	12
WIST6052	Take 5 Oil Change Sheboygan - Calumet	2757 Calumet Drive	Sheboygan	53081	Sheboygan	12
WIST6051	Take 5 Oil Change Sheboygan - Indiana	1328 Indiana Ave	Sheboygan	53081	Sheboygan	12
WIST4067	Take 5 Oil Change Sheboygan - Taylor	3669 S. Taylor Dr.	Sheboygan	53081	Sheboygan	12
WIST2035	Tech Way	4004 S Kinnickinnic Ave	Cudahy	53235	Milwaukee	12
WIST1016	Tenley Auto	9208 West Capitol Drive	Milwaukee	53222	Milwaukee	12
WIST7061	Theel Auto Inc.	N8364 County Rd J	Elkhart Lake	53020	Sheboygan	15
WIST7123	Tires Plus - Kenosha	7424 74th Place	Kenosha	53142	Kenosha	12
WIST2028	Tires Unlimited Automotive Service	1557 N. Wisconsin St.	Port Washington	53074	Ozaukee	15
WIST7065	Twenty First Century Auto	5300 W. Forest Home Ave.	Milwaukee	53220	Milwaukee	0
WIST5074	Valvoline - 68th St.	112 S. 68th St.	Milwaukee	53214	Milwaukee	12
WIST8017	Valvoline - Cudahy	5912 Packard Ave	Cudahy	53110	Milwaukee	18
WIST6039	Valvoline - Delafield	2325 Sun Valley Dr	Delafield	53018	Waukesha	12
WIST7124	Valvoline - Glendale	6100 N Port Washington Rd	Glendale	53212	Milwaukee	15
WIST3024	Valvoline - Greenfield	4839 S. 27th Street	Greenfield	53221	Milwaukee	18
WIST6037	Valvoline - Kenosha	3015 52nd St	Kenosha	53144	Kenosha	12
WIST7130	Valvoline - Layton	8008 W Layton Ave	Greenfield	53220	Milwaukee	12
WIST6031	Valvoline - Muskego	N167S7825 Lions Park Dr	Muskego	53150	Waukesha	12
WIST7127	Valvoline - Pewaukee	1812 Silvernail Rd	Pewaukee	53072	Waukesha	12
WIST4054	Valvoline - Plymouth	1950 Eastern Ave	Plymouth	53073	Sheboygan	15
WIST7126	Valvoline - Racine	5920 21st St	Racine	53405	Racine	15
WIST3034	Valvoline - Sussex	N65 W24922 Highway W	Sussex	53089	Waukesha	15
WIST2024	Valvoline - Waukesha	1951 E Main St	Waukesha	53186	Waukesha	12
WIST1022	VI Auto Repair	1522 Wisconsin AVE	Grafton	53024	Ozaukee	12
WIST7067	Village Tire & Auto	W172 N12185 Division Rd	Germantown	53022	Washington	15

40 CFR 51.366(c)(2)
Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST7068	Wales Super Lube #421	120 W. Summit Ave	Wales	53183	Waukesha	12
WIST7070	Weissman Automotive	W140 N10455 Fond du Lac Ave.	Germantown	53022	Washington	15
WIST7071	Welks Automotive	8333 W. Layton Ave.	Greenfield	53220	Milwaukee	12
WIST4048	West Bend Super Lube	2353 W Washington St	West Bend	53095	Washington	15
WIST7072	Westside Auto Center	820 W. Sumner St.	Hartford	53027	Washington	15
WIST7106	Wilde Toyota	3225 S. 108 St.	West Allis	53227	Milwaukee	12
WIST7073	Wilmot Auto Service Inc.	11307 Fox River Rd	Wilmot	53192	Kenosha	12
WIST1021	WISCO Automotive	496 Pine Street	Burlington	53105	Racine	12
WIST7074	Wisconsin Muffler - Lincoln Ave.	3634 W. Lincoln Ave.	Milwaukee	53215	Milwaukee	12
WIST7075	Wisconsin Muffler - New Berlin	13320 W. College Ave.	New Berlin	53151	Waukesha	12
WIST7076	WJ Kuhn Automotive Center Inc.	8511 S. Howell Ave.	Oak Creek	53154	Milwaukee	12
WIST5080	Wrench Workz LLC	1285 Morgan Drive	Hubertus	53033	Washington	15
					Total	2,718