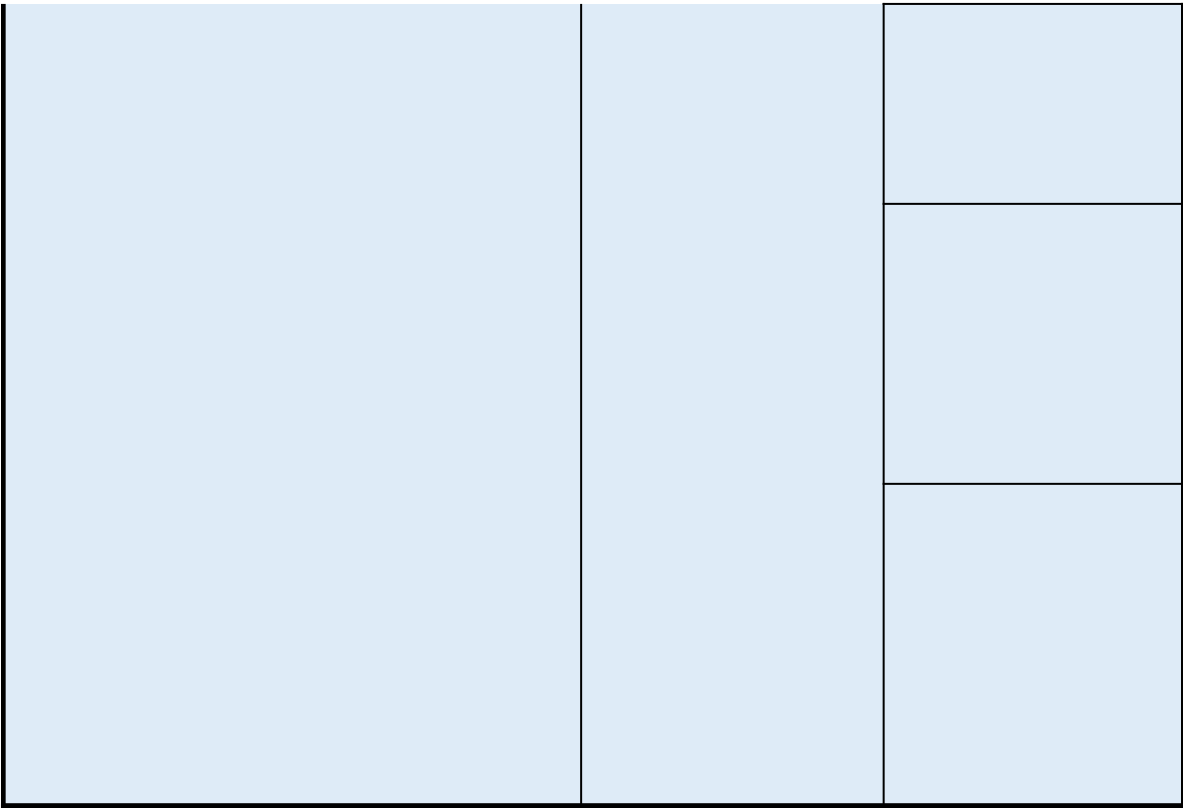


Year 2019

Total Number of Manufacturers		55
Small Manufacturers		10
Foreign Manufacturers	?	
Large Manufacturers (>10,000 sales)/ non-SVM		45

Type	Regulatory citation	Labor Hours
Production Reports	86.415-78(b)	
Certification Application	86.416-80	
Certification/durability Test	86.427-78	
Confirmatory test	86.434-78	
Production testing	86.415-78(a)	
Amendments to the Application	86.438-78, 86.439-78	
Maintain certificaion and testing records	86.440-78	
ABT end-of-year report	86.449	
Evaporative testing and standards	86.410-2006(g)	
Emissions Defect Reporting	85.1903	
Voluntary Emissions Recall Report	85.1904	



Notes	Forms (not already included under EV-CIS)
Due 45-days after the end of the model year	5900-90
Appropriately describe the vehicle, all emissions control devices, adjustable parameters, certification data	5900-464, 5900-NEW
Service accumulation, (1/2) useful life deterioration and certification testing	
Requested by the EPA and performed at the direction and location of the EPA test order.	
Requested by the EPA. Manufacturers may be requested to provide service accumulation to some minimal test distance before providing the production vehicle to the EPA for testing.	
As requested by the manufacturer for various purposes, i.e. add models or alter certified configurations.	
Prepared only by manufacturers that are utilizing the averaging flexibility for an averaging set of engine families.	5900-339
Defect information reports required under paragraph (a) of this section shall be submitted not more than 15 working days after an emission-related defect is found to affect twenty-five vehicles or engines of the same model year.	
Quarterly submission of a report describing the manufacturer's voluntary emissions recall plan as prescribed by this section within 15 working days of the date owner notification was begun. The manufacturer shall report on the progress of the recall campaign by submitting subsequent reports for six consecutive quarters commencing with the quarter after the voluntary emissions recall campaign actually begins.	

(1) General Records(A) Identification and description of all certification vehicles for which testing is required under this subpart.

(B) A description of all emission control systems which are installed on or incorporated in each certification vehicle.

(C) A description of all procedures used to test each such certification vehicle.

(2) Individual records. (i) A brief history of each motorcycle used for certification under this subpart including:

(A)(1) In the case where a current production engine is modified for use in a certification vehicle, a description of the process by which the engine was selected and of the modification made.

(2) In the case where the engine for a certification vehicle is not derived from a current production engine, a general description of the build-up of the engine (e.g., experimental heads were cast and machined according to supplied drawings, etc.)

(3) In both cases above, a description of the origin and selection process for the carburetor, fuel system, emission control system components, and exhaust after treatment device shall be included.

(B) A complete record of all emission tests performed (except tests performed by EPA directly) including test results, the date and purpose of each test, and the distance accumulated on the vehicle.

(C) The date of each service accumulation run, listing the distance accumulated.

(E) A record and description of all maintenance and other servicing performed, giving the date of the maintenance or service and the reason for it.

(F) A record and description of each test performed to diagnose engine or emissions control system performance, giving the date and time of the test and the reason for it.

(H) A brief description of any significant events affecting the vehicle during any time in the period covered by the history, not described by an entry under one of the previous headings, including such extraordinary events as vehicle accidents or dynamometer runaway.

(3) ...retained by the manufacturer for a period of six (6) years after the issuance of all certificates of conformity to which they relate. Routine emission test records shall be retained by the manufacturer for a period of one (1) year after issuance of all certificates of conformity to which they relate.

Information Collection Activity		Respondents (manufacturers)	Annual Occurrences of Activity
86.416-80	Prepare and Submit application for certification	95	314
86.427-78	Perform emissions testing on the EDV, including service accumulation and deterioration factor testing.		
	<i>Internal Test facility</i>	3	4
	<i>Contract Cost testing</i>	16	17
	<i>Electric Motorcycle manufacturers</i>	27	40
86.438-78, 86.439-78	<i>Amendments to the application ("running changes" requiring the issue of a new certificate revision number)</i>	18	183
86.416-80	<i>Certify Using Previous Year Cert Data</i>	49	253
86.410-2006(g)	Permeation Testing (if applicable)	55	140
86.415-78(a)	Production testing	9	9
86.434-78	EPA Confirmatory Testing	6	6
86.415-78(b)	Production vehicle test reports (45-day report)	95	314
86.449	Averaging report (end-of-year report)	4	61
85.1903	Emissions Defect Reporting	4	4
85.1904	Voluntary Emissions Recall Report	4	4
86.440-78	Record Keeping requirements: General records of vehicles, history of engine family certification, routine emissions test records, and all other records related to certification and testing to be kept for 6-years.	95	314
		Unique Respondents: 95	1663
		Engine families	314
		Average annual activities per respondent	17.505263158

Color Legend	Certification
	Reporting
	Record Keeping

NAICS classification: 336991	
336310	

Labor:

NAICS 336000:		
Category-		
		Multiplier (130%)
Mangement	\$ 80.72	\$ 104.94
Legal Asstsnce	\$ 72.11	\$ 93.74
Engineer	\$ 55.02	\$ 71.53
Engineer technologist	\$ 35.56	\$ 46.23
Administrative Support	\$ 29.36	\$ 38.17

Managerial/\$104.94		Engineer/ \$71.53		Technologist/ 46.23		Administrat
2	\$ 210	4	\$ 286	4	\$ 185	16
5	\$ 525	10	\$ 715	250	\$ 11,557	10
1	\$ 105	2	\$ 143	3	\$ 139	1
	\$ -	1	\$ 72	1	\$ 46	4
	\$ -	1	\$ 72	0	\$ -	4
	\$ -	1	\$ 72	1	\$ 46	1
	\$ -	1	\$ 72	1	\$ 46	1
	\$ -	1	\$ 72	5	\$ 231	1
	\$ -	1	\$ 72	1	\$ 46	4
	\$ -	1	\$ 72	0	\$ -	4
1	\$ 105	1	\$ 72	1	\$ 46	1
1	\$ 105	4	\$ 286	5	\$ 231	4
	\$ -	1	\$ 72	1	\$ 46	4

Motorcycle and
motorcycle parts
manufacturers

Motor Vehicle Gasoline
Engine and Engine Parts
Manufacturing

ive/ \$38.17	total hrs per activity	total labor cost per activity	Total Hours per yr	Total Labor Cost/ Year	total hours per respondent (manufacturer) per year	total labor costs per respondent (manufacturer) per year
\$ 611	26	\$ 1,292	8,164	\$ 405,555	86	\$ 4,269
\$ 382	275	\$ 13,179	1,100	\$ 52,714	367	\$ 17,571
\$ 38	7	\$ 425	119	\$ 7,222	7	\$ 451
\$ -	-	\$ -	-	\$ -	-	\$ -
\$ 153	6	\$ 270	1,098	\$ 49,488	61	\$ 2,749
\$ 153	5	\$ 224	1,265	\$ 56,722	26	\$ 1,158
\$ 38	3	\$ 156	420	\$ 21,829	8	\$ 397
\$ 38	3	\$ 156	27	\$ 1,403	3	\$ 156
\$ 38	7	\$ 341	42	\$ 2,045	7	\$ 341
\$ 153	6	\$ 270	1,884	\$ 84,914	20	\$ 894
\$ 153	5	\$ 224	305	\$ 13,676	76	\$ 3,419
\$ 38	4	\$ 261	16	\$ 1,043	4	\$ 261
\$ 153	14	\$ 775	56	\$ 3,099	14	\$ 775
\$ 153	6	\$ 270	1,884	\$ 84,914	20	\$ 894

	total	16,380	\$ 784,626
	Reporting	14,496	\$ 699,712
	Recordkeeping	1,884	\$ 84,914

	Hrs	Labor Costs	O&M	Capital
Total Average Annual	16,380	\$ 784,626	\$ 105,740	\$ 110,999

	Hrs	Labor Costs	O&M	Capital
Per Respondent (95 manufacturers) per Year	172	\$ 8,259	\$ 1,113	\$ 1,168

	Hrs	Labor Costs	O&M	Capital
Per engine family (314 total)per Year	52	\$ 2,499	\$ 337	\$ 354

Change between .03 and what .02 should ha

	Hrs	Labor Costs	O&M	Capital
Total Average Annual	(480)	\$ 190,123		

	Hrs	Labor Costs	O&M	Capital
Per Respondent per Year	(134)	\$ (2,550)		

	Hrs	Labor Costs	O&M	Capital
Per engine family (282 to 314 total)per Year	(8)	\$ 391		

Capital & Startup per Activity per respondent (manufacturer)	O&M per Activity per respondent (manufacturer)	Total Capital Cost/ year	Total O&M Cost/ Year	Total Non-Labor Cost/ Year
\$ 5,333	\$ 2,335	\$ 15,999	\$ 9,340	\$ 25,339
	\$ 5,000	\$ -	\$ 85,000	\$ 85,000
				\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
\$ 1,000	\$ 120	\$ 95,000	\$ 11,400	\$ 106,400
	Total	\$ 110,999	\$ 105,740	\$ 216,739
		Reporting	\$ 15,999	\$ 110,339
		Recordkeeping	\$ 95,000	\$ 106,400

Total Non-Labor Costs	Total Costs
\$ 216,739	\$ 1,001,365

Total Non-Labor Costs	Total Costs
\$ 2,281	\$ 10,541

Total Non-Labor Costs	Total Costs
\$ 690	\$ 3,189

ive been

Total Non-Labor Costs	Total Costs
\$ (44,805)	\$ 145,318

Total Non-Labor Costs	Total Costs
\$ (2,474)	\$ (5,024)

Total Non-Labor Costs	Total Costs
\$ (237)	\$ 153

Delta from .0 .0
RESPONDENTS
BURDEN HOURS
LABOR COST
OPERATING COST
CAPITAL COST

non-labor costs

total cost

Total Cost/ Year	
\$	405,555
\$	78,053
\$	92,222
\$	-
\$	49,488
\$	56,722
\$	21,829
\$	1,403
\$	2,045
\$	84,914
\$	13,676
\$	1,043
\$	3,099
\$	191,314
\$	1,001,365
\$	110,339
\$	106,400

Total non-labor per
response
351.3980891719750

338.8535031847130

13 to what was in
2 ICR

40

960

\$ 323,351

\$ (76,820)

\$ 13,355

\$ (63,465)

\$ 259,886

Information Collection Activity		Respondents (manufacturers)	Responses (Engine Families)
86.416-80	Prepare and Submit application for certification	55	282
86.427-78	Perform emissions testing on the EDV, including service accumulation and deterioration factor testing.		
	<i>Internal Test facility</i>	8	16
	<i>Contract Cost testing</i>	9	26
	<i>Electric Motorcycle manufacturers</i>	0	0
86.438-78, 86.439-78	<i>Amendments to the application ("running changes" requiring the issue of a new certificate revision number)</i>	18	183
86.416-80	<i>Certify Using Previous Year Cert Data</i>	38	240
86.410-2006(g)	Permeation Testing (if applicable)	55	140
86.415-78(a)	Production testing	9	9
86.434-78	EPA Confirmatory Testing	6	6
86.415-78(b)	Production vehicle test reports (45-day report)	55	282
86.449	Averaging report (end-of-year report)	4	61
85.1903	Emissions Defect Reporting	4	4
85.1904	Voluntary Emissions Recall Report	4	4
86.440-78	Record Keeping requirements: General records of vehicles, history of engine family certification, routine emissions test records, and all other records related to certification and testing to be kept for 6-years.	55	282
		55	1253
	Engine families		282
	Average annual activities per respondent		22.7818182

Color Legend	Certification
	Reporting
	Record Keeping

NAICS classification: 336991	
336310	

Labor:

NAICS 336000:		
Category-		
		Multiplier (130%)
Mangement	\$ 80.72	\$ 88.55
Legal Asstsance	\$ 72.11	\$ 93.74
Engineer	\$ 55.02	\$ 71.53
Engineer technologist	\$ 35.56	\$ 37.95
Administrative Support	\$ 29.36	\$ 29.15

Managerial/\$104.94		Engineer/ \$71.53		Technologist/ 46.23		Administrat
2	\$ 177	0	\$ -	4	\$ 152	16
5	\$ 443	0	\$ -	245	\$ 9,298	10
1	\$ 89	0	\$ -	0	\$ -	1
	\$ -	0	\$ -	1	\$ 38	4
	\$ -	0	\$ -	1	\$ 38	4
	\$ -	0	\$ -	1	\$ 38	1
	\$ -	0	\$ -	1	\$ 38	1
	\$ -	0	\$ -	1	\$ 38	4
	\$ -	0	\$ -	1	\$ 38	4
1	\$ 105	0	\$ -	1	\$ 38	1
1	\$ 105	0	\$ -	4	\$ 152	4
	\$ -	0	\$ -	4	\$ 152	4

Motorcycle and
motorcycle parts
manufacturers

Motor Vehicle Gasoline
Engine and Engine Parts
Manufacturing

ive/ \$38.17	total hrs per activity	total labor cost per activity	Total Hours per yr	Total Labor Cost/ Year	total hours per respondent (manufacturer) per year	total labor costs per respondent (manufacturer) per year
\$ 466	22	\$ 795	6,204	\$ 224,275	113	\$ 4,078
\$ 292	260	\$ 10,032	4,160	\$ 160,512	520	\$ 20,064
\$ 29	2	\$ 118	52	\$ 3,060	6	\$ 340
\$ -	-	\$ -	-	\$ -		
\$ 117	5	\$ 155	915	\$ 28,283	51	\$ 1,571
\$ 117	5	\$ 155	1,200	\$ 37,092	32	\$ 976
\$ 29	2	\$ 67	280	\$ 9,394	5	\$ 171
\$ 29	2	\$ 67	18	\$ 604	2	\$ 67
\$ 29	2	\$ 67	12	\$ 403	2	\$ 67
\$ 117	5	\$ 155	1,410	\$ 43,583	26	\$ 792
\$ 117	5	\$ 155	305	\$ 9,428	76	\$ 2,357
\$ 29	3	\$ 172	12	\$ 688	3	\$ 172
\$ 117	9	\$ 373	36	\$ 1,493	9	\$ 373
\$ 117	8	\$ 268	2,256	\$ 75,689	41	\$ 1,376
Total:			16,860	\$ 594,503		
Reporting			14,604	\$ 518,814		
Recordkeeping			2,256	\$ 75,689		

	Hrs	Labor Costs	Non-Labor Costs	Total Costs
Total Average Annual	16,860	\$ 594,503	\$ 261,544	\$ 856,047

	Hrs	Labor Costs	Non-Labor Costs	Total Costs
Per Respondent per Year	307	\$ 10,809	\$ 4,755	\$ 15,564

	Hrs	Labor Costs	Non-Labor Costs	Total Costs
Per engine family (282 total) per Year	60	\$ 2,108	\$ 927	\$ 3,036

From .02 SS	
RESPONDENTS	55
BURDEN HOURS	15,420
LABOR COST	\$461,275
OPERATING COST	\$182,560
CAPITALIZED COST	\$97,644

total non-labor costs \$ 280,204
total cost \$ 741,479

Capital & Startup per Activity/respondent (manufacturer)	O&M per Activity/response	Total Capital Cost/ year	Total O&M Cost/ Year	Total Non-Labor Cost/ Year
\$ 5,333	\$ 2,335	\$ 42,664	\$ 18,680	\$ 61,344
	\$ 4,500	\$ -	\$ 117,000	\$ 117,000
				\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
\$ 1,000	\$ 100	\$ 55,000	\$ 28,200	\$ 83,200

Total: \$ 97,664 \$ 163,880 \$ 261,544

Reporting \$ 42,664 \$ 135,680 \$ 178,344

Recordkeeping \$ 55,000 \$ 28,200 \$ 83,200

Total Cost/ Year	
\$	224,275
\$	221,856
\$	120,060
\$	-
\$	28,283
\$	37,092
\$	9,394
\$	604
\$	403
\$	43,583
\$	9,428
\$	688
\$	1,493
\$	158,889
\$	856,047
\$	697,158
\$	158,889

	Information Collection Activity	Agency Activity
86.416-80	Prepare and Submit application for certification	Review Applications
86.427-78	Perform emissions testing on the EDV, including service accumulation and deterioration factor testing.	Review Emissions Test Data
86.438-78, 86.439-78	<i>Amendments to the application ("running changes" requiring the issue of a new certificate revision number)</i>	
86.416-80	<i>Certify Using Previous Year Cert Data</i>	Review Applications
86.410-2006(g)	Permeation Testing (if applicable)	Review Permeation information
86.415-78(a)	Production testing	Select for testing and assess compliance of test article
86.434-78	EPA Confirmatory Testing	Select for testing and assess certification vehicle for compliance
86.415-78(b)	Production vehicle test reports (45-day report)	Receive and review reports
86.449	Averaging report (end-of-year report)	Receive and review reports
85.1903	Emissions Defect Reporting	Receive and review reports
85.1904	Voluntary Emissions Recall Report	Assess validity of VERR plan, approve or consult until approval
86.440-78	Record Keeping requirements: General records of vehicles, history of engine family certification, routine emissions test records, and all other records related to certification and testing to be kept for 6-years.	Receive and review reports

	Level	Rate
Engineer	Average EPA Employee wage with 1.6% multiplier	\$98.75

IT and Admin Support	Administrative Assistance	\$12.72
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Hours per activity	Responses	EPA Employee Average Wage (\$158.00)		Admin (\$20.35)		Total Labor/ Cost
6	314	\$ 316.00	2	\$ 81.41	4	\$124,785.08
n/a	274	\$ -	0	\$ -	0	\$0.00
n/a	139	\$ -	0	\$ -	0	\$0.00
n/a	253	\$ -	0	\$ -	0	\$0.00
n/a	0	\$ -	0	\$ -	0	\$0.00
11	12	\$ 1,579.98	10	\$ 20.35	1	\$19,204.03
11	12	\$ 1,579.98	10	\$ 20.35	1	\$19,204.03
2	314	\$ 158.00	1	\$ 20.35	1	\$56,002.01
2	4	\$ 158.00	1	\$ 20.35	1	\$713.40
2	0	\$ 158.00	1	\$ 20.35	1	\$0.00
2	0	\$ 158.00	1	\$ 20.35	1	\$0.00
n/a	0	\$ -	0	\$ -	0	\$0.00
1322						\$ 219,909

Rate Increase by 1.6
\$158.00

\$20.35

Total Labor Hours
1884
0
0
0
0
0
132
132
628
8
0
0
0
0

2784

[SALARY TABLE 2022-DCB \(opm.gov\)](https://www.opm.gov)

	Multiplier (1.6%)	
GS-14	74.84952	119.7592
GS-13	59.91635	95.86615
GS-12	50.38846	80.62154
Admin (2)	12.72	20.352

**Average
EPA 98.74897 157.9984**

Motor Vehicle Manufacturing - May 2022 OEWS Industry-Specific Occupational Employment and Wage Estimate

	Multiplier (130%)	
Mangement	80.72	104.936
Legal Asstsance	72.11	93.743
Engineer	55.02	71.526
Engineer technologist	35.56	46.228
Administrative Support	29.36	38.168

[s \(bls.gov\)](https://www.bls.gov)