

Form 9501

Universe: Pickup trucks, SUVs, minivans, other light vans **ONLY**

**Truck strata 1 and 2**

STATUS D=Delete(Old) N=New DN=Delete(New) C=Change/Rewording Null =Active	SECTION	QUESTION NUMBER	PAGE	TOPIC NAME
C	A	1	1	Registration information
	B	1	2	Disposal
	B	2	2	Disposal
C	B	3	2	Disposal

C	C	1	2	Acquisition
C	C	2	2	Acquisition
C	D	1	2	Leasing

C	D	2	2	Leasing
C	E	1	3	Type of Vehicle
C	F	1	3	Physical Characteristics
N	F	2	3	Physical Characteristics

C	F	3	3	Physical Characteristics
C	F	4	3	Physical Characteristics
DN	F	5		Physical Characteristics

D	F	6		Physical Characteristics
N	F	5	4	Physical Characteristics

DN	F	6		Physical Characteristics
N	F	6	4	Physical Characteristics
N	F	7	4	Physical Characteristics

N	F	8	4	Physical Characteristics
N	F	9	5	Physical Characteristics
N	F	10	5	Physical Characteristics

N	F	<del>8</del> , 7, 11	5	Physical Characteristics
N	F	7, <del>8</del> , 12	6	Physical Characteristics
DN	F	9		Physical Characteristics



N	F	<del>7,10,9,13</del>	6	Physical Characteristics
N	EF	2,8,11,10,14	6	Type of Vehicle Physical Characteristics
DN	F	<del>9</del> *new		Physical Characteristics

C	G	21	6	Time Operated
C	G	12	6	Time Operated
D	H	1		Home Base

C	H	31	7	Home Base
	H	2	7	Home Base

C	H	43	7	Home Base
C	I	1	8	Miles
N	I	32	8	Miles

	1	53	8	Miles
N	1	64	8	Miles
C	1	25	8	Miles

C	I	76	9	Miles
N	I	7	9	Miles
	I	4,7,8	9	Miles

DN	†	8		Miles
C	J	1	9	Fuel and Maintenance
C	J	2	10	Fuel and Maintenance

C	J	3	10	Fuel and Maintenance
N	J	4	10	Fuel and Maintenance
C	J	5	10	Fuel and Maintenance
C	J	7-6	10	Fuel and Maintenance
N	J	6-7	11	Fuel and Maintenance



N	J	8	11	Fuel and Maintenance
N	J	9	11	Fuel and Maintenance
DN	K	1		Vehicle Configuration
D	K	1		Vehicle Configuration
N	K	1	11	Vehicle Configuration

N	K	2	11	
DN	K	3		Vehicle Configuration

	K	<del>3</del> , 2, 3	11	Vehicle Configuration
	K	4, <del>3</del> , 4	11	Vehicle Configuration
N	K	4, 5	11	Vehicle Configuration

C	K	5, 6	12	Vehicle Configuration
C	L	1	12	Weight
D	L	2		Weight

N	L	3-2	12	Weight
N	L	4-3	12	Weight
DN	L	5		Weight
N	M	1	12	Kind of Business

D	M	1		Kind of Business
C	M	2	13	Kind of Business

N	M	3	13	Kind of Business
N	M	4	14	Kind of Business
D	N	1		Product, Equipment, or Materials

DN	N	±		Product, Equipment, or Materials



	N	1	15	Product, Equipment, or Materials
N	N	2	15	Product, Equipment, or Materials
N	N	3	15	Product, Equipment, or Materials

C	N	2,4	16-18	Product, Equipment, or Materials
	O		20	Contact Information

9501 VARIABLE NAME(S)	FORM * = Same question but different categories text	QUESTION TEXT <i>Green cells are new questions</i>
STILLOWN	9501&9502	Is the vehicle identified above still in your or your company's possession?
DISPOSED	9501&9502	Did you dispose of this vehicle prior to January 1, 2020?
DISPOSEMnth DISPOSEYEAR	9501&9502	When did you dispose of this vehicle? <i>Enter 2-digit month and 4-digit year.</i>
DISPOSEHOW	9501&9502	How did you dispose of this vehicle? Mark ONE circle only. NOTE: If you disposed of this vehicle after January 1, 2020, answer all of the remaining applicable questions according to how you used the vehicle during 2020. If you disposed of this vehicle prior to January 1, 2020 skip to section O - Contact Information.

ACQUIREMNTH ACQUIREYEAR	9501&9502	When did you obtain this vehicle? <i>If purchased after lease, report the date you <b>originally</b> took possession of this vehicle. Enter 2-digit month and 4-digit year.</i>
ACQUIREHOW	9501&9502	<i>Was this vehicle new when you obtained it? Mark ONE box only.</i>
LEASEFROM	9501&9502	<b>NOTE: This section pertains to ownership leasing. Rental agreements are NOT covered.</b> <b>Was this vehicle leased during 2020? Mark ONE box only.</b>

LEASET0	9501&9502	Which of the following do your represent? Mark ONE box only.
BODYTYPE WBODYTYPE	9501&9502*	In 2020, which body type most closely resembled this vehicle? Mark ONE box only.
AXLESTOTAL	9501&9502*	In 2020, what was the total number of axles on this vehicle? Include front and rear axles, but do NOT include axles on any trailers pulled. Mark ONE box only.
AXLEREARTIRES	9501&9502	How many tires are on the rear axle? Mark ONE box only.

AXLEDRIVING WAXLEDRIVING	9501&9502	From question 1 above, how many axles were driving (powered) axles? Mark ONE box only.
TRANSMSSN WTRANSMSSN	9501&9502	What type of transmission did this vehicle have? Mark ONE box only.
WNUMGEARS	9501&9502	How many gears did this vehicle have?

<p>EQ_AERIAL  EQ_AIRBAG  EQ_AIRCOND  EQ_ABS  EQ_AUTOSOT  EQ_TIRINFSYS  EQ_DRIVETRAN  EQ_FWD  EQ_LORESDRWHEEL  EQ_LOWRESSTEERWHEEL  EQ_SNOWPLOW  EQ_RADIAL  EQ_ROUTECH  EQ_SINGLEWIDE  EQ_TIRMONSYS  EQ_TOOLBOX  EQ_WTRIP  EQ_WOTRIP  EQ_WCLIFT  EQ_WINCH</p>	<p>9501&amp;9502</p>	<p>Did this vehicle have any of the following permanent equipment?  Mark ALL that apply.</p>
<p>EQ_AIRBAG  EQ_ABS  EQ_CRUISE  EQ_DRIVERCAM  EQ_GPS  EQ_INTERNET  EQ_NAVSYS  EQ_ROLLOVER  EQ_NONE_1</p>	<p>9501&amp;9502</p>	<p>In 2020, did this vehicle have any of the following <b>basic safety and information systems</b>?  Mark ALL that apply.</p>

<p>EQ_ACC EQ_ADS EQ_AES EQ_BSW EQ_FAEB EQ_FCW EQ_LDW EQ_LKA EQ_PARKA EQ_PARKOW EQ_PED EQ_RCTW EQ_RAEB</p>	<p>9501&amp;9502</p>	<p>In 2020, did this vehicle have any of the following Advanced Driver Assistance Systems (ADAS)? Mark all that apply.</p>
<p>EQ_ACC EQ_ADA EQ_LKA EQ_NONE_2</p>	<p>9501&amp;9502</p>	<p>In 2020, did this vehicle have any of the following driving control assistance features? Mark ALL that apply.</p>
<p>EQ_BSW EQ_FCW EQ_LDW EQ_POW EQ_RCTW EQ_NONE_3</p>	<p>9501&amp;9502</p>	<p>In 2020, did this vehicle have any of the following collision warning features? Mark ALL that apply.</p>



EQ_AEB EQ_AES EQ_RAEB EQ_NONE_4	9501&9502	In 2020, did this vehicle have any of the following collision intervention features? Mark ALL that apply.
EQ_APA EQ_RP EQ_NONE_5	9501&9502	In 2020, did this vehicle have any of the following parking assistance features? Mark ALL that apply.
EQ_AHB EQ_BC EQ_DM EQ_HUD EQ_NV EQ_SVC EQ_NONE_6	9501&9502	In 2020, did this vehicle have any of the following other driver assistance systems features? Mark ALL that apply.

<p>EQ_AEROB  EQ_AEROH  EQ_AEROM  EQ_AEST  EQ_ATIS  EQ_FTC  EQ_GAP  EQ_IRT  EQ_LRRT  EQ_NONE_7</p>	<p>9501&amp;9502</p>	<p>In 2020, did this vehicle have any of the following <b>fuel economy features and equipment</b>?  Mark all that apply.</p>
<p>EQ_AERIAL  EQ_AIRCOMP  EQ_SPRINGS  EQ_CHRISTREE  EQ_CRANE  EQ_EVI  EQ_RETARDER  EQ_HOIST  EQ_LIFTGATE  EQ_SNOWPLOW  EQ_HAZMAT  EQ_PTO  EQ_TOOLBOX  EQ_WINCH  EQ_NONE_8</p>	<p>9501&amp;9502</p>	<p>In 2020, did this vehicle have any of the following <b>custom (aftermarket) features and equipment</b>?  Mark all that apply.</p>
<p>Pending for approval</p>	<p>9501&amp;9502</p>	<p>In 2020, did this vehicle have any of the following <b>other features and equipment</b>?  Mark all that apply.</p>

WGCWRPOUND	9501&9502	What was this vehicle's towing capacity in pounds?
WCABHEIGHTFT WCABHEIGHTIN	9501&9502	In 2020, what was the height of this vehicle's cabin?
	9501	What was this vehicle's maximum seating capacity?

TIMEOPERATE	9501&9502	During 2020, how many months was this vehicle used? Round to the nearest whole month. Mark ONE box only.
TIME_NA TIME_SEASNL TIME_IDLE TIME_REPAIR TIME_OTH WTIME_OTH	9501&9502	During 2020, what reasons (if any) was this vehicle NOT in use for periods of 90 consecutive days or more? Mark ALL that apply.
HB	9501&9502	Did this vehicle operate from a home base location during 2020? Home base refers to the location where the vehicle was usually parked when it was not on the road, such as a home, farm, terminal, etc. Vehicles that might NOT operate from a home base are typically consumer one-way rentals or some over-the-road truck tractors. If this vehicle is on lease to someone else, answer ALL home base questions as they pertain to the lessee. Mark ONE box only.

HBTYPE WHBTYPE	9501&9502	What was the type of home base from which this vehicle operated? Mark ONE box only.
HB_CITY HB_COUNTY HB_STATE HB_ZIP HB_ZIP4	9501&9502	Where was the home base of this vehicle on July 1, 2020? If this vehicle was put into service after July 1, 2020, enter current home base.

FLEET_SMALL FLEET_TRCTR FLEET_OTH FLEET_TRLRS FLEET_DOLLY FLEET_NONE	9501&9502	Of the following, how many trucks/trailers do you or your company operate from the home base location indicated above?
MILES_ANNL	9501&9502	How many miles was this vehicle driven in 2020? Round to the nearest whole mile.
MILES_ODOM MILES_RECEIPT MILES_TRIP MILES_GPS MILES_OTHER WMILES_OTH	9501&9502	How was the annual mileage calculated?

MPG	9501&9502	<p>How many miles-per-gallon (mpg) did this vehicle average during 2020?</p> <p>If compressed natural gas (CNG) is used, give miles per gasoline gallon equivalent (GGE). 1 GGE = 123 cubic feet CNG. Report to the nearest tenth.</p>
MPG_ODOM MPG_RECEIPT MPG_TRIP MPG_GPS MPG_OTHER WMPG_OTH	9501&9502	<p>How was miles-per-gallon (mpg) calculated?</p>
OPERATEHB OPERATEOTH OPERATECAN OPERATEMEX <b>OPERATE_PRIMARY (for tabulation)</b>	9501&9502	<p>What was the approximate percent of this vehicle's 2020 mileage for each of the following jurisdictions?</p> <p><i>Round to the nearest whole percent. Total should sum to 100%.</i></p>

<p>TRIP0_50  TRIP51_100  TRIP101_200  TRIP201_500  TRIP500MORE  <b>TRIP_PRIMARY (for tabulation)</b></p>	<p>9501&amp;9502</p>	<p>What was the approximate percent of this vehicle's 2020 mileage accounted for by the type of trips listed below? If this vehicle does not operate from a home base, report the average range of operation. Round to the nearest whole percent.</p>
<p>TRIPOFFROAD</p>	<p>9501&amp;9502</p>	<p>What was the approximate percent of this vehicle's 2020 mileage driven off road (not on an established public or private roads)?  <i>Round to the nearest whole percent.</i></p>
<p>MILES_LIFE (with adjustment)  MILES_LIFENOIMP (without adjustment)</p>	<p>9501&amp;9502</p>	<p>How many miles has this vehicle been driven since it was manufactured? If the odometer has turned over, please enter the figure for the total amount. If the vehicle is no longer in your possession, enter the figure when you last operated the vehicle. Round to the nearest whole mile.</p>



WAVHHRSPWK WAVGHRSPWK_IDL WAVGHRSPW_AUXPWR	9501&9502	On average, in 2020, how many hours per week did this vehicle spend: Round to the nearest hour.
FUELGAS FUELDIESEL FUELNATGAS FUELPROPANE FUELALCOHOL FUELECTRIC FUELOTHER WFUELOTHER	9501&9502	During 2020, what type of fuel or fuel combination was most often used in this vehicle? If a fuel combination was used, mark ALL that make up the combination. Otherwise, mark ONE box only.
FUELWHERE WFUELWHERE	9501&9502	During 2020, at what type of location was this vehicle typically refueled? Mark ONE box only.

MAINT_GEN MAINT_DEAL MAINT_LSNG MAINT_SELF MAINT_COMP MAINT_NONE MAINT_OTH	9501&9502	During 2020, who performed any GENERAL maintenance (oil change, brake change, headlight replacement, etc.) on this vehicle? Mark ALL that apply.
WMAINTCOST	9501&9502	What was the total cost of all GENERAL maintenance in 2020? <i>Round to the nearest whole dollar.</i>
REPAIR	9501&9502	During 2020, were any EXTENSIVE repairs (driveline repair, engine repair/rebuild, transmission repair/rebuild, differential repair/rebuild, etc.) performed on this vehicle? Mark ONE box only.
REPAIR_GEN REPAIR_DEAL REPAIR_LSNG REPAIR_SELF REPAIR_COMP REPAIR_OTH	9501&9502	Who performed these EXTENSIVE repairs? Mark ALL that apply.
WREPAIRCOST	9501&9502	What was the total cost of all EXTENSIVE repairs in 2020? <i>Round to the nearest whole dollar.</i>

ENGREBLD	9501&9502	Has this vehicle's engine EVER been rebuilt? Mark ONE box only.
WENGREBLDYR	9501&9502	In what year was this vehicle's engine LAST rebuilt?
TRAILERPULL	9501&9502	In 2020, did you ever pull a trailer with this vehicle?
TRAILER0 TRAILER1 TRAILER—(for tabulation)	9501&9502*	In 2020, what percent of the miles driven by this vehicle were in each of the following configurations? <i>Trailer mounted equipment should be treated as a trailer. Total should sum to 100%</i>
TRAILERPULL	9501&9502	In 2020, was this vehicle used to pull a trailer? <i>Trailer mounted equipment should be treated as a trailer.</i>

TRAILERPULL50	9501&9502	In 2020, did this vehicle pull a trailer for at least half of all miles driven? <i>Trailer mounted equipment should be treated as a trailer.</i>
	9501&9502	Which type of trailer resembles that most often attached to this vehicle? Mark ONE box only.

AXLESTRLR1	9501&9502	How many axles were on the trailer unit most often pulled by this vehicle? Mark ONE box only.
LENGTHRLR1	9501&9502	What was the length, in feet, of the trailer unit most often pulled by this vehicle? Round to the nearest whole number.
ALUMINUM_WHEELS FRONT_FARING LIGHT_WG_LANDING_GEAR REAR_FARING SIDE_SKIRTS UNDERCARRIAGE_AERO_DEVICES TRAILEREQ_NONE TRAILEREQ_OTH WTRAILEREQ_OTH	9501&9502	Does the trailer have any of the following add-on equipment? Mark ALL that apply.

<p>LENGTHTOTAL WLENGTHTOTAL</p>	<p>9501&amp;9502*</p>	<p>Referring to the most common configuration indicated in question 1 (no trailer or trailer pulled), what was the total length of this vehicle or vehicle/trailer combination? Report distance, in feet, from front bumper to rear of vehicle or trailer(s). Mark ONE box only.</p>
<p>WEIGHTEMPCK WWEIGHTEMPCK</p>	<p>9501</p>	<p>What was the empty weight of this vehicle or vehicle/trailer combination? Mark ONE box only.</p>
<p>WEIGHTAVGCK</p>	<p>9501&amp;9502*</p>	<p>What was the average weight (vehicle weight plus cargo weight) of this vehicle or vehicle/trailer combination as it was most often operated when carrying a typical payload during 2020? Mark ONE box only.</p>

WAVGPAYLD	9501&9502	<p>What was the average payload, in pounds, transported by this vehicle or vehicle/trailer combination during 2020? Round to the nearest whole pound.</p>
AVGWGHTLIGHTTRCARGO	9501	<p>What was the average weight, in pounds, of non-trailer cargo (non-tractors)? Round to the nearest whole pound.</p>
WAVGOVERWGHT	9501&9502	<p>What were the average hours per week that the trailer(s) was permitted over weight? Round to the nearest whole hour.</p>
BUSINESSRELATED	9501&9502	<p>In 2020, was this vehicle used, at least partially, for any commercial or business-related activities?</p>

<p> <del>OPCLASS_PVT</del>  <del>OPCLASS_MTR</del>  <del>OPCLASS_OWN</del>  <del>OPCLASS_RNT</del>  <del>OPCLASS_PSL</del>  <b>OPCLASS (for tabulation)</b> </p>	<p>9501&amp;9502</p>	<p>Approximately, what percent of this vehicle's 2020 mileage was from each of the following operator classifications? Round to the nearest whole percent.  NOTE: If your highest percentage occurs for personal transportation or rental, go to section O—CONTACT INFORMATION on page 25. Otherwise, continue to question 2 on page 22.</p>
<p>BUSINESS  WBUSINESS</p>	<p>9501&amp;9502</p>	<p>Which of the following best describes your business (or part of your business) in which this vehicle was most often used during 2020?  If vehicle was leased, indicate business of lessee. Mark ONE box only.</p>



<p>OPCLASS_PVT  OPCLASS_MTR  OPCLASS_TOOL  OPCLASS_PAS  OPCLASS_RNT  OPCLASS_OTH  WOPCLASSOTH</p>	<p>9501&amp;9502</p>	<p>In 2020, was this vehicle used for any of the following commercial activities?</p> <p>Mark ALL that apply.</p>
<p>OPCLASS_PVT_P  OPCLASS_MTR_P  OPCLASS_TOOL_P  OPCLASS_PAS_P  OPCLASS_RNT_P  OPCLASS_PER_P  OPCLASS_OTH_P  WOPCLASSOTH_P  <b>OPCLASS_P (for tabulation)</b></p>	<p>9501&amp;9502</p>	<p>What was the approximate percent of this vehicle's 2020 mileage for each of the following commercial activities?  <i>Total should sum to 100%.</i></p>
<p>P_EMPTY  P_LOADED</p>	<p>9501&amp;9502</p>	<p>What was the approximate percent of this vehicle's 2020 mileage for each of the following activities?  NOTE: If you reported 100% for empty mileage, go to section O—CONTACT INFORMATION on page 25. Otherwise, continue to question 2 on page 24.</p>

WPERCUBEDOUT WPERWEIGHOUT WPERCEMPTY	9501&9502	What was the approximate percent of this vehicle's 2020 mileage accounted for by the type of trips listed below? <i>Round to the nearest whole percent. Total should sum to 100%</i>
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P_EMPTY P_LOADED	9501&9502	What was the approximate percent of this vehicle's 2020 mileage for each of the following categories? <i>Round to the nearest whole percent. Total should sum to 100%</i>
WPERCUBEDOUT	9501&9502	What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to physical capacity (cubed out)? Round to the nearest whole percent.
WPERWEIGHOUT	9501&9502	What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to weight limit (weighed out)? Round to the nearest whole percent.

<p>         PLIVEANIMAL          PANIMALFEED          PGRAINS          POTHERAGRIC          PCHEMICALS          PFERTILIZER          PPHARMACEUT          PALCOHOLIC          PBAKERYPROD          PMEATS          PTOBACCO          POTHERFOOD          PLOGS          PPAPER          PPRINTPROD          PNEWSPRINT          PWOOD          PBASEMETAL          PMETALPRIM          PNONMETAL          PTOOLS_NON          PTOOLS_PWD          PELECTRONIC          PFURNITURE          PMACHINERY          PMISCPROD          PPRECISION          PTEXTILES          PVEHICLES          POTHERTRANS          PCOAL          PCRUDEPETRLM          PGRAVEL          PORES          PSTONE          PSANDS          POTHERMIN          PFUELOIL          PGASOLINE          PPLASTICS  <b>Next is Natural Gas which couldn't fine it.          Also not in the list of PRODUCT_PRINCPL</b>          POTHERCOAL          PHAZWASTE          POTHERWASTE       </p>	<p>9501&amp;9502</p>	<p>         During 2020, what products, tools, equipment, or materials did this vehicle carry, and what approximate percent of LOADED mileage were they carried?          Categorize your products, tools, equipment, or materials carried into the groupings provided. Each applicable grouping code should be entered only once. Each item carried should be categorized into ONLY ONE GROUP. Include any backhauls, trip leasing, etc. Round to the nearest whole percent.           Example: If the vehicle carried landscaping tools and hauled debris away, your response might be similar to this:           Product Code (with example description) /Percent of Loaded Miles (with example scenarios)          22 (For items such as rakes, shovels, handsaws, etc.) / 100% (When carried for all of the loaded miles)          23 (For items such as leaf blowers, chainsaws, etc.) / 100% (When carried for all of the loaded miles)          18 (For tree limbs, wood chips, etc.) / 50% (When carried for half of the loaded miles)          44 (For grass clippings or other waste) / 25% (When carried for one quarter of the loaded)       </p>
<p>         WCNT_LNAME          WCNT_FNAME          WCNT_INITIAL          WCNT_STREET          WCNT_STREET2          WCNT_CITY          WCNT_STATE          WCNT_ZIP          WCNT_ZIP4          WCNT_AREACDE          WCNT_PHONE          WCNT_EXTSN          WCNT_EMAIL          WCNT_MONTH          WCNT_DAY          WCNT_YEAR       </p>	<p>9501&amp;9502</p>	

<b>2002 VIUS w/weight 9501&amp;9502 Combined 85,174.8 (100%)</b>	<b>2002 VIUS wo/weight 9501&amp;9502 Combined 98,682 (100%)</b>	<b>2002 VIUS w/weight 9501 79,654.3 (93.5%)</b>
Yes -85.5% (72,818.9) No - 14.5% (12,355.8)  Total 85,174.8	Yes - 89.8% (88,627) No - 10.2% (10,055)  Total 98,682	Yes -85.1% (67,775.5) No - 14.9% (11,878.8)  Total 79,654.3
This question prevent out of scope	This question prevent out of scope	
Dispose after 1/1/2002 <b>Dispose 14.5% (12,355.8)</b> Yr 2002 - 8.2% (6,953.6) Yr 2003 - 6.3% (5,402.2)	Dispose after 1/1/2002 <b>Dispose 10.2%(10,055)</b> Yr 2002 - 6.0% (5,885) Yr 2003 - 4.2% (4,170)	Dispose after 1/1/2002 <b>Dispose 14.9% (11,878.8)</b> Yr 2002 - 8.4% (6,671.8) Yr 2003 - 6.5% (5,207.0)
<b>of Dispose 14.5% (12,355.8)</b> Sold - 6.3% Traded - 5.1% Junked - 1.1% Rtn lease - 1.4% Repossed - 0.4% NR - 0.3%	<b>of Dispose 10.2%(10,055)</b> Sold - 6.0% Traded - 2.3% Junked - 0.8% Rtn lease - 0.6% Repossed - 0.2% NR - 0.3%	<b>of Dispose 14.9% (11,878.8)</b> Sold - 6.3% (5,037.7) Traded - 5.3% (4,247.1) Junked - 1.1% (877.2) Rtn lease - 1.4% (1,146.2) Repossed - 0.4% (315.4) NR - 0.3% (255.1)

<p>NR Yr - 18.6% (15,859.8)</p>	<p>NR Yr - 16.7% (16,488)</p>	<p>NR - 18.8%(14,975.1)</p>
<p>New - 44.6% (37,979.5) Used - 48.6% (41,378.6) NR - 6.8% (5,816.7)</p>	<p>New - 41.1% (40,537) Used - 51.8% (51,125) NR - 7.1% (7,020)</p>	<p>New - 44.5% (35,471.8) Used - 48.7% (38,763.9) NR - 6.8% (5,418.6)</p>
<p>Lease/Y - 5.8% (4,898.9) Lease/N - 53.7% (45,730.1) NR - 40.6% (34,545.8) 35.6% Still own &amp; 4.9 % Disposed Total 85,174.8</p>	<p>Lease/Y - 10.3% (10,167) Lease/N - 55.7% (55,008) NR - 34.0% (33,507) 30.8% Still own &amp; 3.2 % Disposed Total 98,682</p>	<p>Lease/Y - 5.3% (4,223.3) Lease/N - 53.5% (42,622.7) NR - 41.2% (32,808.3) 36.1% Still own &amp; 5.1% Disposed</p>

<p><b>of Lease/Y - 5.8% (4,898.9)</b>  Lessee - 4.5% (3,871.4)  Lessor - 0.8% (653.8)  NR - 0.4% (373.6)</p>	<p><b>of Lease/Y - 10.3% (10,167)</b>  Lessee - 5.8% (5,711)  Lessor - 4.2% (4,137)  NR - 0.3% (319)</p>	<p><b>of Lease/Y - 5.3% (4,223.3)</b>  Lessee - 4.4% (3,516.8)  Lessor - 0.4% (348.0)  NR - 0.4% (358.4)</p>
<p>Pickup - 44.6% (37,991.1)  Minivan - 14.3% (12,207.3)  Light van- 6.2% (5,251.4)  SUV - 28.4% (24,204.4)  Tractor - 1.7% (1,421.9)  Dump - 0.9% (727.0)  Flatbed - 1.1% (948.1)  Van basic enclosed - 0.7% (583.1)  all other bodytype - 2.2% (1,840.3)</p>	<p>Pickup - 13.4% (13,206)  Minivan - 3.4% (3,367)  Light van- 1.6% (1,602)  SUV - 7.4% (7,259)  Tractor -25.3% (24,924)  Dump - 10.8% (10,618)  Flatbed - 10.1% (9,954)  Van basic enclosed - 6.2% (6,147)  all other bodytype - 21.9% (21,605)</p>	<p>Pickup - 47.7% (37,991.1)  Minivan - 15.3% (12,207.3)  Light van- 6.6% (5,251.4)  SUV - 30.4% (24,204.4)</p>



























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<p>2002 VIUS w/weight 9502 5,520.5 (6.5%)</p>	<p>2002 VIUS wo/weight 9501 25,434(25.8%)</p>	<p>2002 VIUS wo/weight 9502 73,248(74.2%)</p>
<p>Yes -91.4% (5,043.5) No - 8.6% (477.0)  Total 5,520.5</p>	<p>Yes - 85.3% (21,698) No - 14.7% (3,736)  Total 25,434</p>	<p>Yes -91.4 % (66,929) No - 8.6% (6,319)  Total 73,248</p>
<p>Dispose after 1/1/2002 <b>Dispose 8.6% (477.0)</b> Yr 2002 - 5.1% (281.8) Yr 2003 - 3.5% (195.2)</p>	<p>Dispose after 1/1/2002 <b>Dispose 14.7%(3,736)</b> Yr 2002 - 8.2% (2,089) Yr 2003 - 6.5% (1,647)</p>	<p>Dispose after 1/1/2002 <b>Dispose 8.6%(6,319)</b> Yr 2002 - 5.2% (3,796) Yr 2003 - 3.4% (2,523)</p>
<p><b>of Dispose 8.6% (477.0)</b> Sold - 6.0% (332.6) Traded - 1.2% (67.2) Junked - 0.6% (34.1) Rtn lease - 0.4% (21.3) Repossesd - 0.1% (7.3) <b>NR - 0.3% (14.5)</b></p>	<p><b>of Dispose 14.7%(3,736)</b> Sold - 6.6% (1,684) Traded - 5.3% (1,348) Junked - 1.1% (272) Rtn lease - 1.0% (262) Repossesd - 0.3% (84) <b>NR - 0.3% (86)</b></p>	<p><b>of Dispose 8.6%(6,319)</b> Sold - 5.8% (4,226) Traded - 1.3% (947) Junked - 0.7% (482) Rtn lease - 0.5% (330) Repossesd - 0.2% (120) <b>NR - 0.3% (214)</b></p>

NR - 16.0% (884.8)	NR - 19.2% (4,881)	NR - 15.8% (11,607)
New - 45.4% (2,507.7) Used - 47.4% (2,614.7) NR - 7.2% (398.1)	New - 39.7% (10,088) Used - 53.2% (13,526) NR - 7.2% (1,820)	New - 41.6% (30,449) Used - 51.3% (37,599) NR - 7.1% (5,200)
Lease/Y - 12.2% (675.6) Lease/N - 56.3% (3,107.5) NR - 31.5.0% (1,737.4) 29.0% Still own & 2.5% Disposed	Lease/Y - 4.2% (1,074) Lease/N - 54.1% (13,754) NR - 41.7% (10,606) 36.4% Still own & 5.3% Disposed	Lease/Y - 12.4% (9,093) Lease/N - 56.3% (41,254) NR - 31.3% (22,901) 28.8% Still own & 2.4% Disposed



<p><b>of Lease/Y - 12.2% (675.6)</b>  Lessee - 6.4% (354.6)  Lessor - 5.5% (305.9)  NR - 0.3% (15.2)</p>	<p><b>of Lease/Y - 4.2% (1,074)</b>  Lessee - 3.5% (879)  Lessor - 0.4% (95)  NR - 0.4% (100)</p>	<p><b>of Lease/Y - 12.4% (9,093)</b>  Lessee - 6.6% (4,832)  Lessor - 5.5% (4,042)  NR - 0.3% (219)</p>
<p>Tractor - 25.8 % (1,421.9)  Dump - 13.2% (727.0)  Flatbed - 17.2% (948.1)  Van basic enclosed - 10.6% (583.1)  all other bodytype 33.3-% (1,840.3)</p>	<p>Pickup - 51.9% (13,206)  Minivan - 13.2% (3,367)  Light van- 6.3% (1,602)  SUV - 28.5% (7,259)</p>	<p>Tractor - 34.0 % (24,924)  Dump - 14.5% (10,618)  Flatbed - 13.6% (9,954)  Van basic enclosed - 8.4 % (6,147)  all other bodytype - 29.5% (21,605)</p>















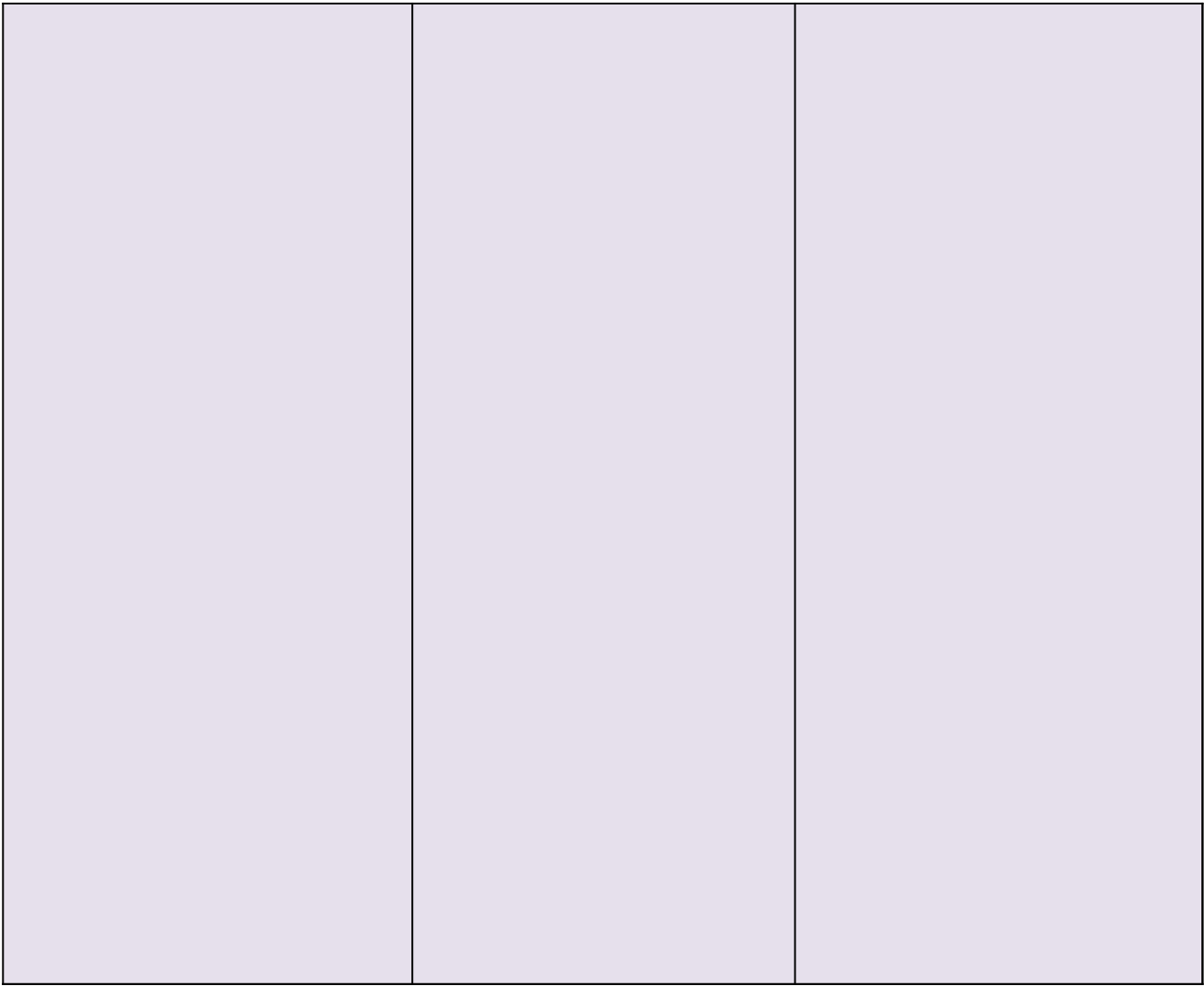
















**RESPONSE CATEGORIES**

- Yes
- No

- Yes
- No

Month \_\_\_\_ / Year \_\_\_\_\_

- Sold or gave it away
- Traded it in
- Junked, scrapped, or otherwise destroyed it
- Returned it to leasing company
- Repossessed

Month \_\_\_\_ / Year \_\_\_\_\_

- Yes
- No

- Yes
- No

- Lessee (leased this vehicle FROM someone else)
- Lessor (leased this vehicle TO someone else)

- Pickup
  - Minivan
  - Van other than minivan
  - Sport Utility
  - Other not elsewhere specified:
- 

- Two
- Three or more

- Two
- Four

- One axle
- Two axles
- Other - please specify: \_\_\_\_\_

- Automatic
- Manual
- Semi-automated manual (driver shifts with an electronic module)
- Automated manual (no driver shifting - done electronically)

Number of gears: \_\_\_\_\_

- ~~o Aerial work platform/bucket~~
- ~~o Air bag(s) (safety device only)~~
- ~~o Air conditioning~~
- ~~o Anti lock brake system~~
- ~~o Automatic engine shutoff technology~~
- ~~o Automatic tire inflation system~~
- ~~o Computerized drive train control unit~~
- ~~o Front wheel drive~~
- ~~o Low rolling resistance tires on the drive wheels~~
- ~~o Low rolling resistance tires on the steering wheels~~
- ~~o Mounting bar for snowplow~~
- ~~o Radial tires~~
- ~~o Route guidance technology~~
- ~~o Single wide tires~~
- ~~o Tire pressure monitoring system~~
- ~~o Toolbox~~
- ~~o Trip recorder or on board computer WITH remote communication capabilities~~
- ~~o Trip recorder or on board computer WITHOUT remote communication capabilities~~
- ~~o Vehicle control aids for handicapped drivers~~
- ~~o Wheelchair lift~~
- ~~o Winch~~

- o Air bags
- o Anti-lock brake system
- o Automatic engine shutoff technology
- o Automatic tire inflation system
- o Driver camera
- o Engine retarder/brake
- o Global Positioning System (GPS)
- o Navigation system
- o Power take-off
- o Rollover protection

- Adaptive Cruise Control
- Automatic Emergency Steering
- Blind Spot Warning
- Forward Automatic Emergency Braking
- Forward Collision Warning
- Lane Departure Warning
- Lane Keeping Assistance
- Parking Assistance
- Parking Obstruction Warning
- Pedestrian Detection
- Rear Cross Traffic Warning
- Reverse Automatic Emergency Braking

- Adaptive Cruise Control
- Active Driving Assistance
- Lane Keeping Assistance
- None of the above

- Blind Spot Warning
- Forward Collision Warning
- Lane Departure Warning
- Parking Obstruction Warning
- Rear Cross Traffic Warning
- None of the above

- Automatic Emergency Braking
- Automatic Emergency Steering
- Rear Automatic Emergency Braking
- None of the above

- Active Parking Assistance
- Remote Parking
- None of the above

- Automated High Beams
- Backup Camera
- Driver Monitoring
- Head-Up Display
- Night Vision
- Surround-View Camera
- None of the above

- o Aerodynamic bumper
- o Aerodynamic hood
- o Aerodynamic mirrors
- o Fuel tank covers
- o Gap reducers
- o Idle-reducing technologies (portable auxiliary pack, electrification, etc.)
- o Low rolling resistance tires

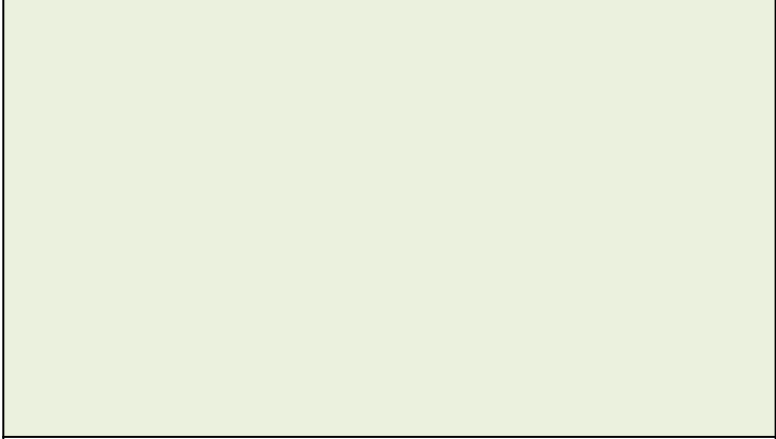
- o Aerial work platform/bucket
- o Air compressor (except for air brakes)
- o Bobtail
- o Christmas tree
- o Crane
- o Electronic vehicle identification (transponder, etc.)
- o Hoist
- o Lift gate
- o Mounting bar for snowplow
- o Multi-hazmat
- o Toolbox
- o Winch

- ~~o Air conditioning~~
- ~~o Air springs~~
- ~~o Cruise control~~
- ~~o Internet access~~





Feet: \_\_\_\_\_ Inches: \_\_\_\_\_



\_\_\_\_\_ passengers



- 12 months
- 7-11 months
- 2-6 months
- 1 month or less
- Vehicle not used (no miles driven)

- Not applicable
- Seasonal
- Not needed/idle (excluding seasonal)
- Under repair
- Other - please specify: \_\_\_\_\_

- Yes (Continue with question 2 below)
- No (Go to section I — MILES on page 11)

- Private residence
- Company office/headquarters
- Terminal
- Distribution center
- Manufacturing plant
- Other - please specify:

---

City: \_\_\_\_\_  
County/Parish/Borough (or equivalent):  
\_\_\_\_\_  
State: \_\_\_\_\_  
ZIP Code: \_\_\_\_\_

Pickups, small vans (including minivans), and sport utility vehicles: \_\_\_\_\_  
Tractors (power units only): \_\_\_\_\_  
All other trucks: \_\_\_\_\_  
Trailers (including trailer mounted equipment): \_\_\_\_\_  
Converter dollies: \_\_\_\_\_

Miles: \_\_\_\_\_

- Odometer readings
- Gas receipts
- Trip meter
- GPS
- Other: \_\_\_\_\_

MPG: \_\_\_\_\_

- Odometer readings
- Gas receipts
- Trip meter
- GPS
- Other: \_\_\_\_\_

Operated in Canada: \_\_\_\_\_%  
Operated in Mexico: \_\_\_\_\_%  
Operated within the home base state: \_\_\_\_\_%  
Operated in states other than the home base state (or has no home base): \_\_\_\_\_%

Trips off-the-road: \_\_\_\_\_  
Trips on public private roads within

- 50 miles or less from vehicle's home base: \_\_\_\_\_
- 51 to 100 miles from vehicle's home base: \_\_\_\_\_
- 101 to 200 miles from vehicle's home base: \_\_\_\_\_
- 201 to 500 miles from vehicle's home base: \_\_\_\_\_
- 501 miles or more from vehicle's home base: \_\_\_\_\_

Percent of miles off road \_\_\_\_\_%

Miles: \_\_\_\_\_

Operating: \_\_\_\_\_ hours per week  
Idling: \_\_\_\_\_ hours per week  
Using auxiliary power: \_\_\_\_\_ hours per week

- Gasoline (including gasohol)
- Diesel (including biodiesel)
- Natural gas (compressed or liquid)
- Propane (liquefied petroleum gas)
- Alcohol fuels (ethanol or methanol)
- Electricity
- Other - please specify: \_\_\_\_\_

- Gas station
- Truck stop
- Your own facility (including home, farm, ranch, on-site by mobile supplier, etc.)
- Other company's/contractor's facility not open to the public
- Other - please specify: \_\_\_\_\_

- None performed
- Company-owned maintenance facility
- General repair business or private mechanic (includes gas stations, truck stops, parts stores, etc.)
- Dealership service department
- Leasing company
- Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility
- Other – please specify: \_\_\_\_\_

\$ \_\_\_\_\_

- Yes
- No

- Company-owned maintenance facility
- General repair business or private mechanic (includes gas stations, truck stops, parts stores, etc.)
- Dealership service department
- Leasing company
- Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility
- Other – please specify: \_\_\_\_\_

\$ \_\_\_\_\_



- Yes (Continue with question 9 below)
- No (Go to section K - Vehicle Configuration)

Year (4 digit): \_\_\_\_ \_ \_ \_

- Yes
- No

No trailer pulled: \_\_\_\_\_ %  
Trailer pulled: \_\_\_\_\_ %

- Yes
- No

- o Yes, this vehicle pulled a trailer for 50% or more of all miles driven.
- o No, this vehicle pulled a trailer for less than 50% of all miles driven.

- ~~o Automobile carrier (excluding curtain, van, or flatbed)~~
  - ~~o Beverage~~
  - ~~o Curtainside~~
  - ~~o Dump (including belly or bottom dump)~~
  - ~~o Flatbed, platform, etc.~~
  - ~~o Livestock (including livestock drop frame)~~
  - ~~o Low boy (platform with depressed center)~~
  - ~~o Mobile home toter~~
  - ~~o Open top (including vans, low-side grain, fruit, etc.)~~
  - ~~o Pole, logging, pulpwood, or pipe~~
  - ~~o Refrigerated trailer~~
  - ~~o Tank, dry bulk~~
  - ~~o Tank, liquids or gases~~
  - ~~o Trailer mounted equipment~~
  - ~~o Van, basic enclosed (dry cargo)~~
  - ~~o Van, drop frame (excluding livestock)~~
  - ~~o Van, insulated non-refrigerated~~
  - ~~o Van, insulated refrigerated~~
  - ~~o Other not elsewhere classified — please specify:~~
- 
-

- o One axle on trailer
- o Two axles on trailer
- o Three or more axles on trailer

\_\_\_\_\_ feet

- o Aluminum wheels
- o Front fairing
- o Lightweight landing gear
- o Rear fairing
- o Side skirts
- o Undercarriage aerodynamic devices

- o Less than 16.0 feet (Go to section L - WEIGHT)
- o 16.0 to 19.9 feet (Go to section L - WEIGHT)
- o 20.0 to 27.9 feet (Go to section L - WEIGHT)
- o 28.0 to 35.9 feet (Go to section L - WEIGHT)
- o 36.0 to 40.9 feet (Go to section L - WEIGHT)
- o 41.0 to 44.9 feet (Go to section L - WEIGHT)
- o 45.0 to 49.9 feet (Go to section L - WEIGHT)
- o More than 50 feet (Continue with question 3)

- o Less than 6,001 pounds
- o 6,001 to 8,500 pounds
- o 8,501 to 10,000 pounds
- o More than 10,000 pounds

- ~~o Less than 6,001 pounds~~
- ~~o 6,001 to 8,500 pounds~~
- ~~o 8,501 to 10,000 pounds~~
- ~~o 10,001 to 14,000 pounds~~
- ~~o 14,001 to 16,000 pounds~~
- ~~o 16,001 to 19,500 pounds~~
- ~~o More than 19,500 pounds~~

\_\_\_\_\_ pounds

\_\_\_\_\_ pounds

\_\_\_\_\_ hours per week

- Yes, this vehicle was used at least part time for commercial activities
- No, this vehicle was strictly used for personal transportation

Personal transportation (operated as a personal-use vehicle for travel to work, carpooling, pleasure driving, etc.): \_\_\_\_\_%

Rental (daily and other short term): \_\_\_\_\_%

Business use: Private (carry own goods, or use truck for internal company business only): \_\_\_\_\_%

Business use: Motor carrier (company owned trucks hired to carry other people's goods): \_\_\_\_\_%

Business use: Owner operator (independent truckers hired to carry other people's goods): \_\_\_\_\_%

- o Vehicle leasing or rental (includes short-term rentals)
- o Agriculture, forestry, fishing, or hunting
- o Mining (includes quarrying, well operations, and beneficiating)
- o Utilities (includes electric power, natural gas, steam supply, water supply, and sewage removal)
- o Construction (includes land subdivision and development, as well as construction activity by special trade contractors)
- o Manufacturing
- o Wholesale trade
- o Retail Trade
- o Information services (includes telephone and television)
- o Waste management, landscaping, or administrative/support services
- o Arts, entertainment, or recreation services
- o Accommodation or food services (for immediate consumption)
- o Other services, including real estate, nonvehicle leasing or rental, educational, health care, social assistance, finance, insurance, professional, scientific, or technical services
- o For-hire transportation or warehousing
- o Other - please specify:

- o Transporting goods belonging to you or your company
- o Transporting goods belonging to another person or company
- o Transporting tools related to your business
- o Transporting paying passengers
- o Used as a daily or short term rental
- o Other: \_\_\_\_\_

- o Transporting goods belonging to you or your company \_\_\_\_\_ %
- o Transporting goods belonging to another person or company \_\_\_\_\_ %
- o Transporting tools related to your business \_\_\_\_\_ %
- o Transporting paying passengers \_\_\_\_\_ %
- o Used as a daily or short term rental \_\_\_\_\_ %
- o Personal transportation (non-commercial use) \_\_\_\_\_ %
- o Other: \_\_\_\_\_ %

Empty — NOT CARRYING any products, tools, equipment, or materials): \_\_\_\_\_ %  
Loaded — CARRYING products, tools, equipment, or materials): \_\_\_\_\_ %

Vehicle was cubed out: \_\_\_\_\_%

Vehicle was weighed out: \_\_\_\_\_%

Vehicle was empty: \_\_\_\_\_%



• Empty - NOT CARRYING any products, tools, equipment, or materials: \_\_\_\_\_% (If you report 100% empty, go to Section O - Contact Information)

• Loaded - CARRYING products, tools, equipment, or materials: \_\_\_\_\_%

• Vehicle was filled to physical capacity (cubed out): \_\_\_\_\_%

• Vehicle was filled to weight limit (weighed out): \_\_\_\_\_%

Product Code/ Percent of Loaded Miles

\_\_\_\_/\_\_\_\_\_%  
\_\_\_\_/\_\_\_\_\_%  
\_\_\_\_/\_\_\_\_\_%  
\_\_\_\_/\_\_\_\_\_%  
\_\_\_\_/\_\_\_\_\_%

Last Name: \_\_\_\_\_  
First Name: \_\_\_\_\_  
Middle Initial: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
Street Address 2: \_\_\_\_\_  
City (or city equivalent): \_\_\_\_\_  
State: \_\_\_\_\_  
Zip Code: \_\_\_\_\_  
Area Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
Extension: \_\_\_\_\_  
Email: \_\_\_\_\_  
Month: \_\_\_\_ \_\_\_\_  
Day: \_\_\_\_ \_\_\_\_

**SKIP PATTERN - PAPER**

- Yes (Go to section C - Acquisition)
- No (Go to section B - Disposal)

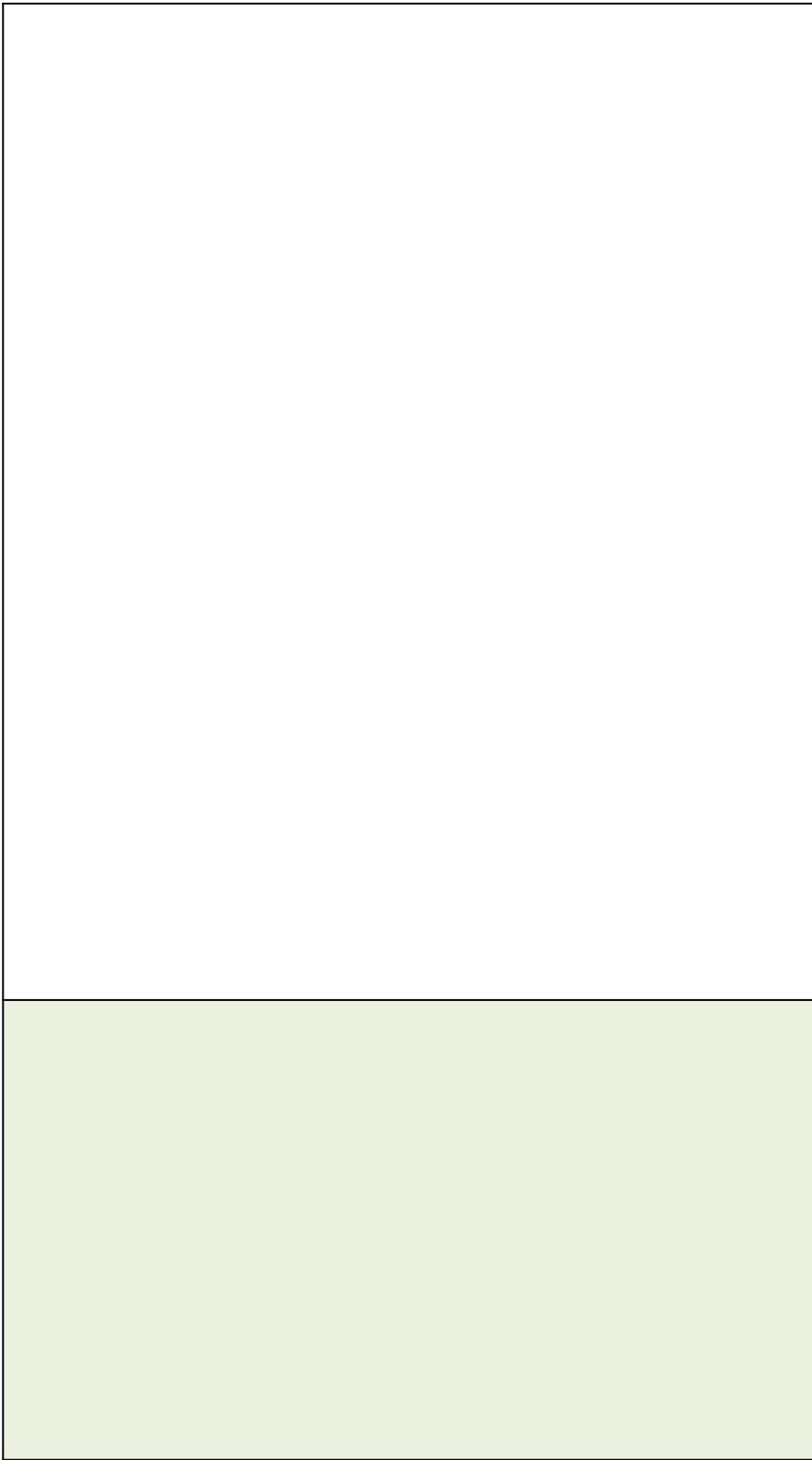
- Yes (Go to section O- Contact Information)
- No (Continue with question 2 below)

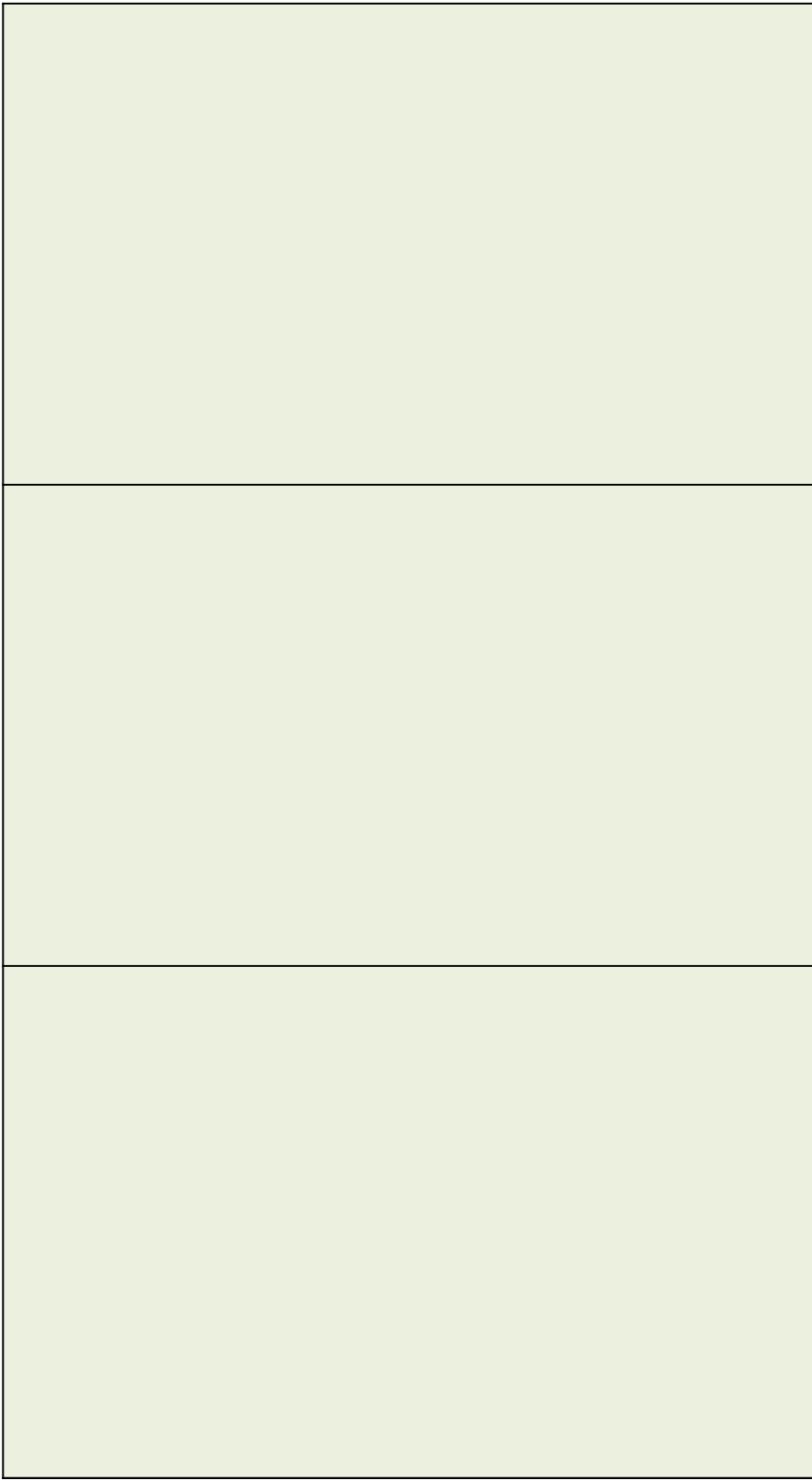
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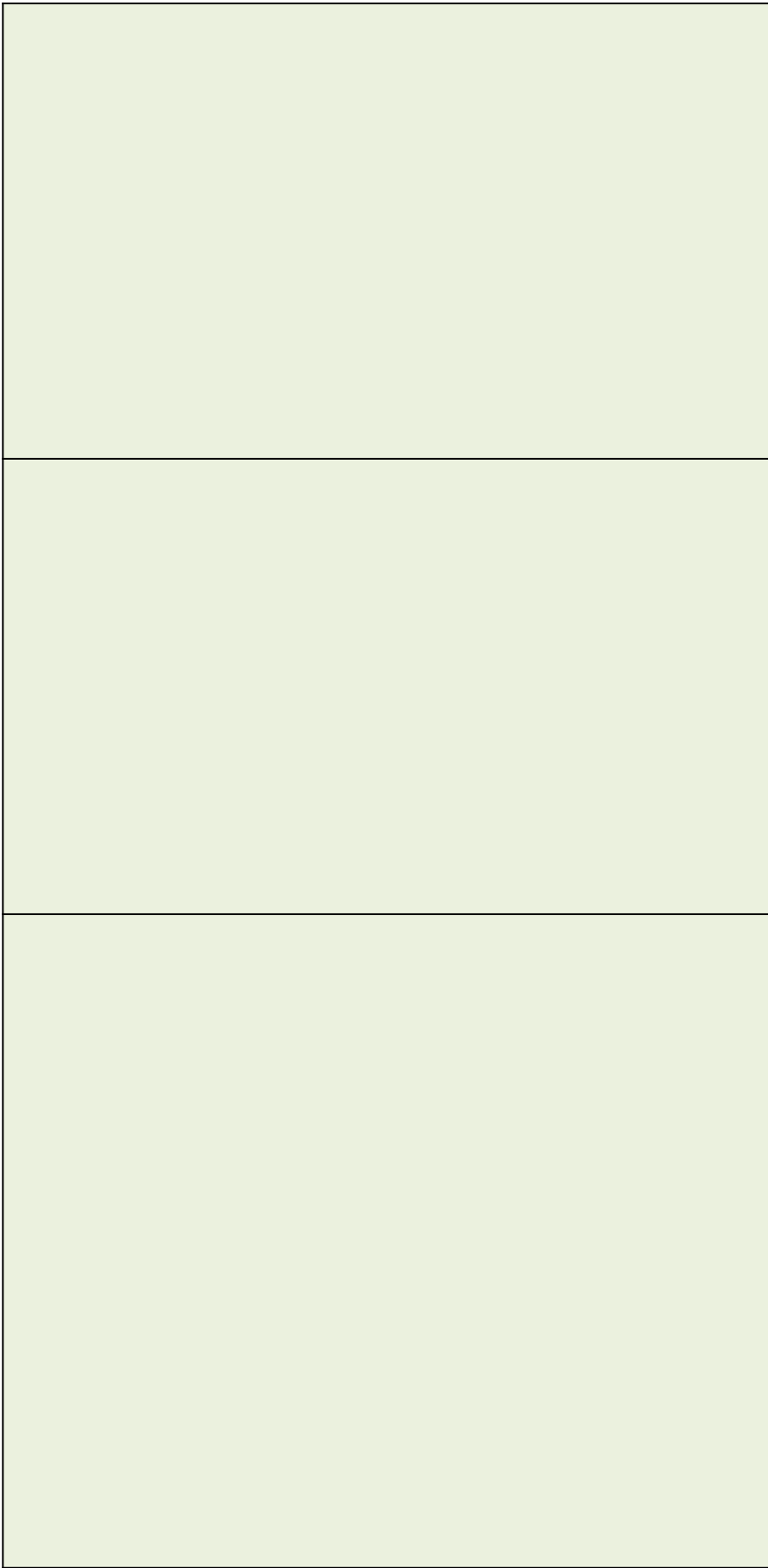
<p><input type="radio"/> Yes (Go to question section E - TYPE OF VEHICLE)</p> <p><input type="radio"/> No</p>
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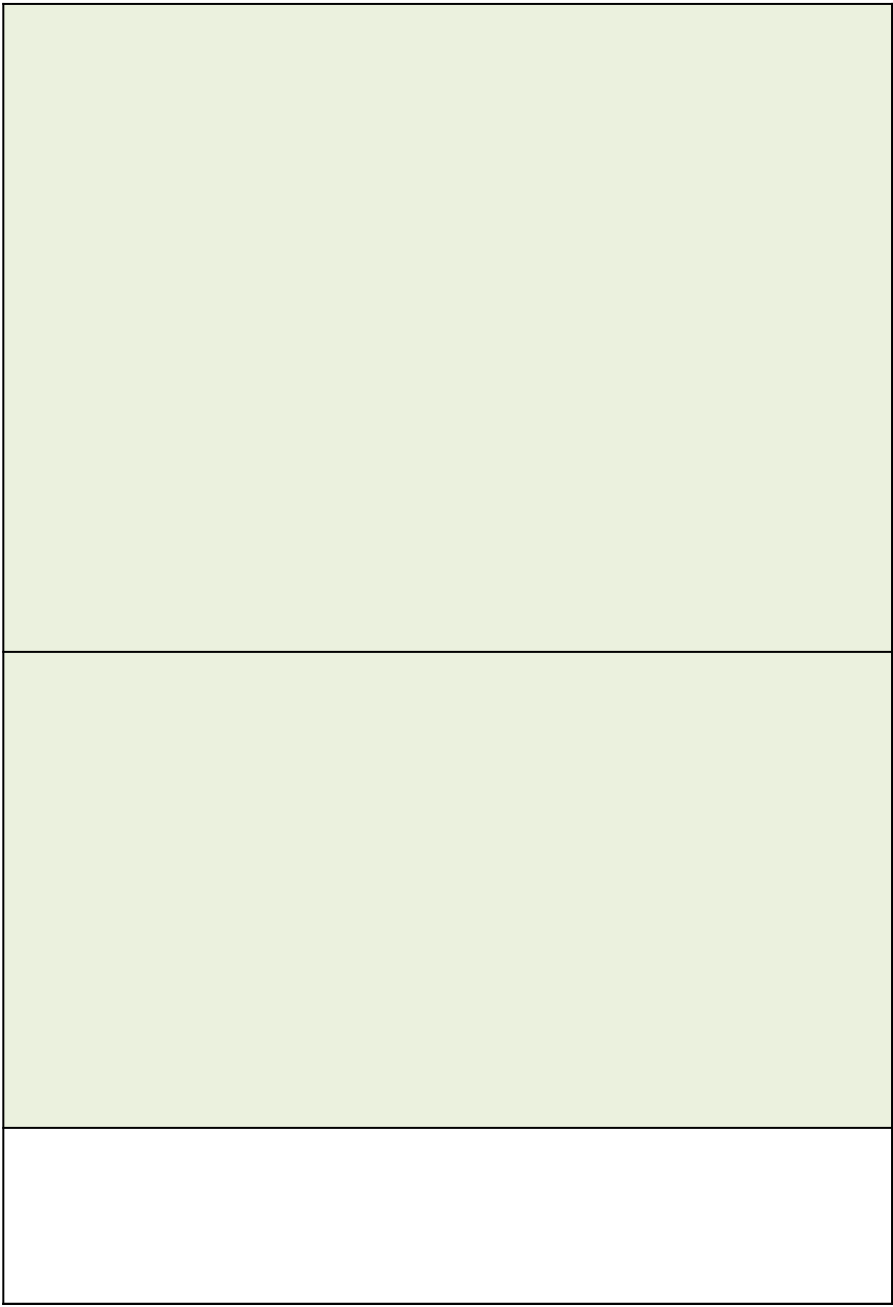












- 12 months (Go to section H -Home base)
- 7-11 months
- 2-6 months
- 1 month or less
- Vehicle not used (no miles driven)

After answering this question and you reported question 1 above "Vehicle not used(no miles driven)", go to section O - Contact Information

- Not applicable
- Seasonal
- Not needed/idle (excluding seasonal)
- Under repair
- Other - please specify: \_\_\_\_\_

- Private residence
- Corporate office/headquarters
- Terminal
- Distribution center
- Manufacturing plant
- Farm/Agricultural Production
- Mining or other Energy Production Site
- Truck leasing company
- Other (please specify) \_\_\_\_\_
- No home base (Go to Section I - Miles)





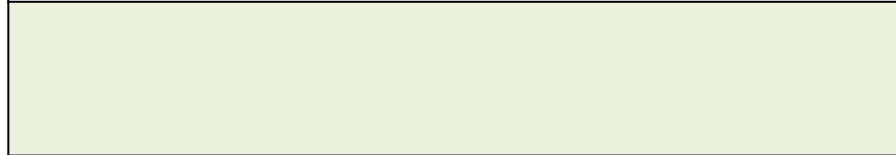




- General repair business or private mechanic (includes gas stations, truck stops, parts stores, etc.)
- Dealership service department
- Leasing company
- Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility
- Company-owned maintenance facility
- None performed (Skip question 4, proceed to question 5)
- Other - please specify: \_\_\_\_\_



- Yes (Continue with question 6 below)
- No (Skip questions 6 and 7, proceed to question 8)



- Yes (Continue with question 9 below)
- No (Go to section K - Vehicle Configuration)
- Don't know (Go to section K - Vehicle Configuration)

- Yes
- No (Skip to K 6)

~~If No trailer pulled more than 50%, skip to K5~~

- Yes
- No (If no, go to question 6 )

Yes, this vehicle pulled a trailer for 50% or more of all miles driven.  
 No, this vehicle pulled a trailer for less than 50% of all miles driven. (If no, go to question 6 )



Yes, this vehicle was used at least part time for commercial activities  
(Continue with question 2 below)

No, this vehicle was strictly used for personal transportation (Go to  
section O - Contact information)

NOTE: If your highest percentage occurs for:

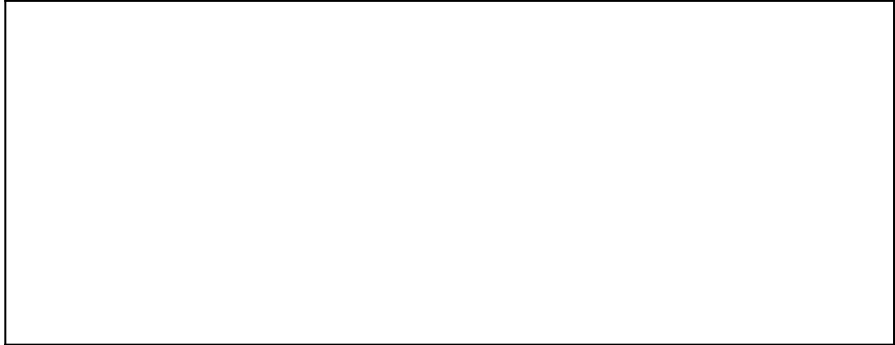
- ~~Motor Carrier or Owner Operator or Private, continue to (section N—Product, Equipment, or Materials)~~
- ~~Personal transportation or Rental, go to (section O—CONTACT INFORMATION)~~



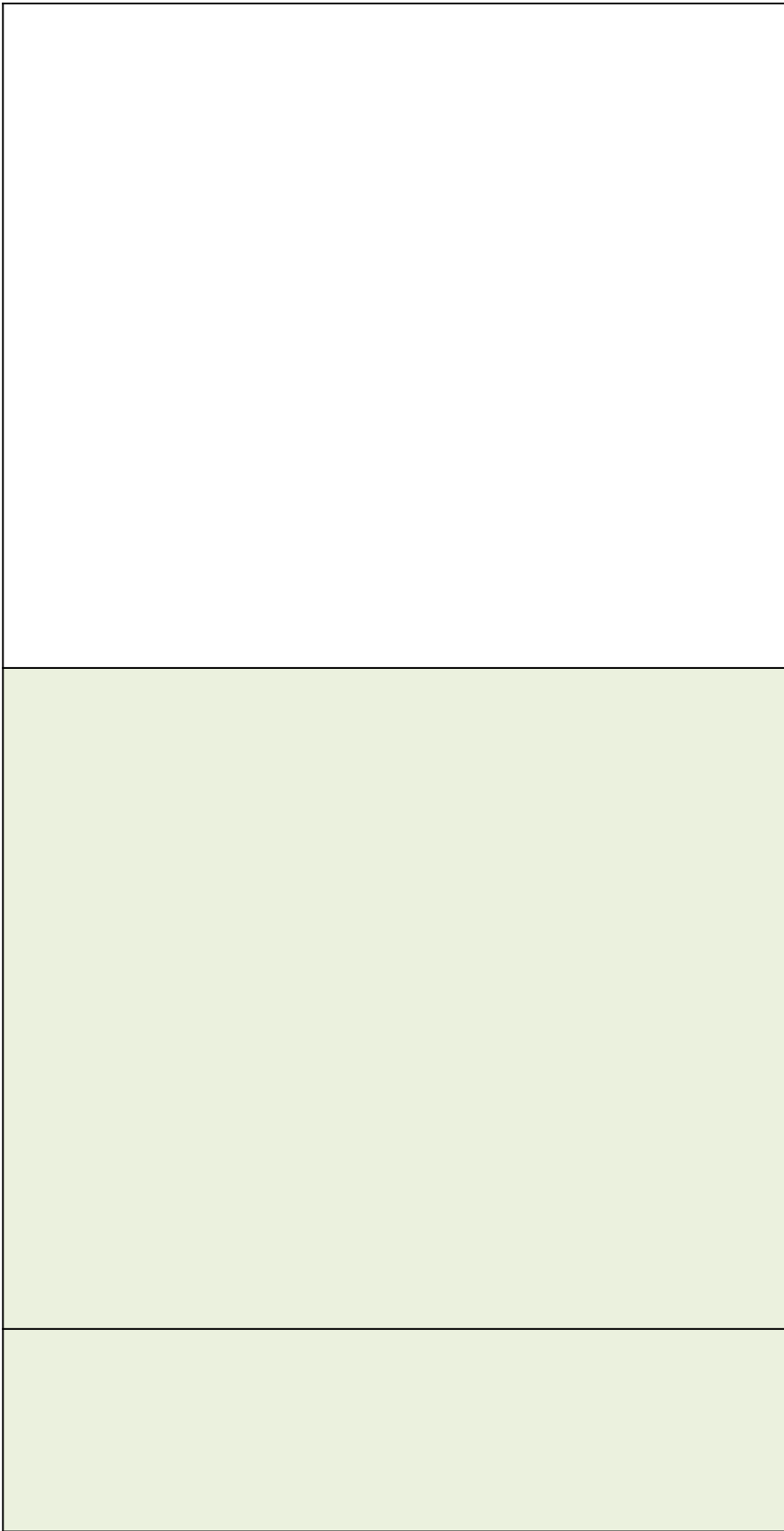


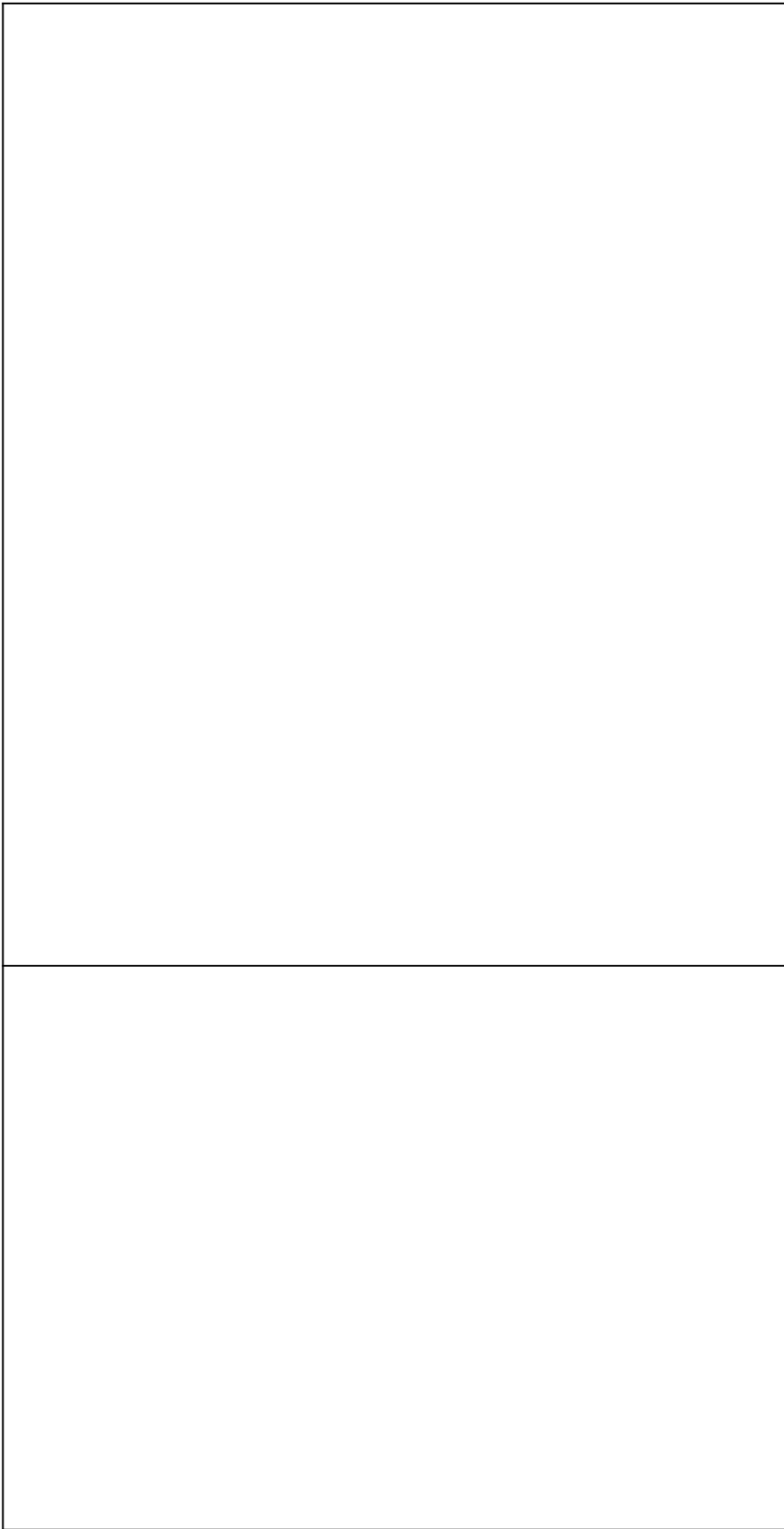
If you report your highest percent of miles, skip to the following:

- o Transporting goods belonging to you or your company
- o Transporting goods belonging to another person or company
- o Transporting tools related to your business (Skip to section O - Contact Information)
- o Transporting paying passengers (Skip to section O - Contact Information)
- o Used as a daily or short term rental (Skip to section O - Contact Information)
- o Personal transportation (non-commercial use) (Skip to section O - Contact Information)
- o Other (Skip to section O - Contact Information)



If you reported 100 percent for empty mileage, skip to Contact Information.





REVISED QUESTION TEXT	Approved by BTS (date)
<p>Is the vehicle identified above still in your possession OR your company's possession?</p>	<p>28-Jan</p>
<p>How did you dispose of this vehicle?</p> <p><b>Note:</b> <i>If you disposed of this vehicle after January 1, 2020, answer all of the remaining applicable questions according to how you used the vehicle during 2020. If you disposed of this vehicle prior to January 1, 2020 skip to section O - Contact Information.</i></p> <p>Mark ONE box only.</p>	<p>28-Jan</p>

<p>When did you originally take physical possession of this vehicle?</p> <p><i>Enter 2-digit month and 4-digit year.</i></p>	28-Jan
<p>Was this vehicle new when you took physical possession of it?</p>	28-Jan
<p><b>NOTE:</b> This section pertains to ownership leasing. Rental agreements are NOT covered.</p> <p>Did you lease this vehicle FROM another person or company during 2020?</p>	2-Jun

Did you lease this vehicle TO another person or company during 2020?	2-Jun
Which body type most closely resembled this vehicle? <i>Mark ONE box only.</i>	28-Jan
What was the total number of axles on this vehicle? Include front and rear axles, but do NOT include axles on any trailers pulled. <i>Mark ONE box only.</i>	2-Jun
How many tires were on the rear axle? <i>Mark ONE box only.</i>	

<p>How many of this vehicle's axles were powered? Mark ONE box only.</p>	28-Jan
*remove question per BTS	28-Jan



<p>Did this vehicle have any of the following equipment? Mark ALL that apply.</p>	28-Jan
<p>In 2020, did this vehicle have any of the following <b>standard features</b>? Mark ALL that apply.</p>	2-Jun

<p>In 2020, did this vehicle have any of the following <b>driver assistance features</b>? <i>Select all that apply.</i></p>	2-Jun
	2-Jun
	2-Jun

2-Jun

2-Jun

2-Jun

<p>In 2020, did this vehicle have any of the following <b>fuel economy features</b>? <i>Mark ALL that apply.</i></p>	2-Jun
<p>In 2020, did this vehicle have any of the following <b>other features</b>? <i>Mark ALL that apply.</i></p>	2-Jun

<p>What was this vehicle's towing capacity in pounds?</p>	<p>2-Jun</p>
<p>What was the height of this vehicle's cabin (measured from the ground to the top of the roof)? Include any equipment that extends above the roof of the cabin such as an antenna, a fairing, or a smoke stack.</p>	<p>2-Jun</p>

<p>In 2020, how many months was this vehicle used? Round to the nearest whole month. Mark ONE box only.</p>	28-Jan
<p>In 2020, what reasons (if any) was this vehicle NOT in use for periods of 90 consecutive days or more? Mark ALL that apply.</p>	28-Jan
	28-Jan

<p>What was the primary function of the home base from which this vehicle operated?</p> <p>Note: Home base refers to the location where the vehicle was usually parked when it was not on the road.</p> <p>Mark ONE box only.</p>	28-Jan

<p>In addition to this vehicle, how many other vehicles/trailers were operated from the home base location?</p>	<p>28-Jan</p>
<p>How many total miles was this vehicle driven in 2020? Round to the nearest whole mile.</p>	<p>2-Jun</p>
<p>How was the annual mileage calculated? Mark ALL that apply.</p>	<p>28-Jan</p>



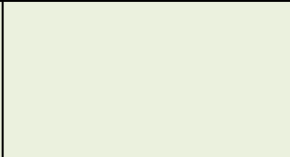
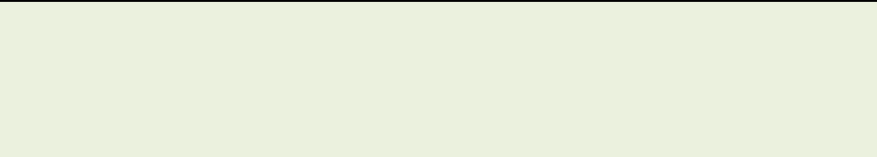
<p>How was miles-per-gallon (mpg) calculated? Mark ALL that apply.</p>	28-Jan

<p>What was the approximate percent of this vehicle's 2020 mileage driven within the following ranges of operation? <i>If this vehicle does not operate from a home base, report its average range of operation.</i> <i>Round to the nearest whole percent. Total should sum to 100%.</i></p>	2-Jun
	2-Jun

	11-Mar
<p>In 2020, what type of fuel or fuel combination was most often used in this vehicle? If a fuel combination was used, select ALL that make up the combination. Otherwise, Mark ONE box only.</p>	28-Jan
<p>In 2020, at what type of location was this vehicle typically refueled? Mark ONE box only.</p>	28-Jan

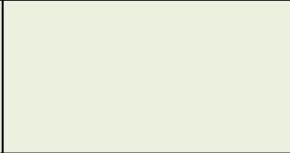
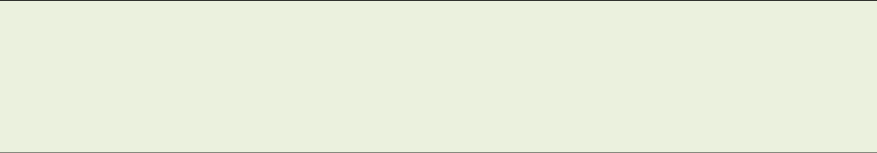
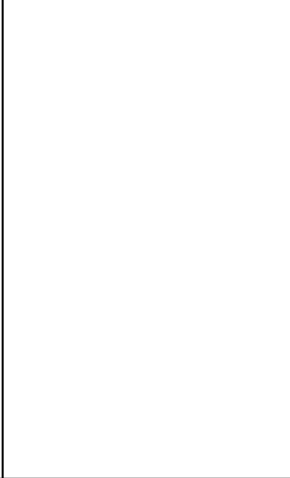
In 2020, who performed any GENERAL maintenance (oil change, brake change, headlight replacement, etc.) on this vehicle?  
Mark ALL that apply.

28-Jan



In 2020, were any EXTENSIVE repairs over \$500 performed on this vehicle?

2-Jun



Has this vehicle's engine EVER been rebuilt or overhauled? Mark ONE box only.	11-Mar
In what year was this vehicle's engine LAST rebuilt or overhauled?	11-Mar
	2-Jun
	2-Jun

2-Jun

11-Mar


<p>Paper instrument: Referring to the most common configuration indicated in question 1 (no trailer or trailer pulled), what was the total length of this vehicle or vehicle/trailer combination? Report distance, in feet, from front bumper to rear of vehicle or trailer(s). Mark ONE box only.</p> <p>Electronic instrument:  if the R did not answer question 1: Referring to the most common configuration indicated in question 1 (no trailer or trailer pulled), what was the total length of this vehicle or vehicle/trailer combination? Report distance, in feet, from front bumper to rear of vehicle or trailer(s). Mark ONE box only.</p> <p>if the R has indicated pulling a trailer: What was the total length of this [insert year, make, model] plus the [single/double/triple] trailer combination?</p> <p>if the R has indicated that they do not pull a trailer: What was the total length of this [insert year, make, model]?</p>	2-Jun



<p>What was the average payload, in pounds, transported by this vehicle or vehicle/trailer combination during 2020? Do not include passenger weight. Round to the nearest whole pound.</p>	2-Jun
<p>What was the average weight, in pounds, of non-trailer cargo? <i>Do not include passenger weight.</i> <i>Round to the nearest whole pound.</i></p>	2-Jun
<p>What were the average hours per week that the trailer(s) was pulled with a permit to operate over weight? Round to nearest whole hour.</p>	28-Jan
	11-Mar

<p>Which of the following best described the business activity in which this vehicle was most often used during 2020? If vehicle was leased, indicate business of lessee. Mark ONE box only.</p>	2-Jun

<p>In 2020, was this vehicle used for any of the following commercial activities? Mark ALL that apply.</p>	11-Mar
<p>What was the approximate percent of this vehicle's 2020 mileage for each of the following activities?</p>	2-Jun

11-Mar

2-Jun

2-Jun

2-Jun

In 2020, for the miles driven while carrying a load, what percentage of those "LOADED miles" were driven while carry the following products, tools, equipment, or materials?

2-Jun

Round to the nearest whole percent. Percentages can add to more than 100% if more than one type of tool or product was carried at the same time.

Categorize your products, tools, equipment, or materials carried into the groupings provided. Each applicable grouping code should be entered only once. Each item carried should be categorized into ONLY ONE GROUP. Include any backhauls, trip leasing, etc. Round to the nearest whole percent.

Example: If the vehicle carried landscaping tools and hauled debris away, your response might be similar to this:

Product Code (with example description) /Percent of Loaded Miles (with example scenarios)

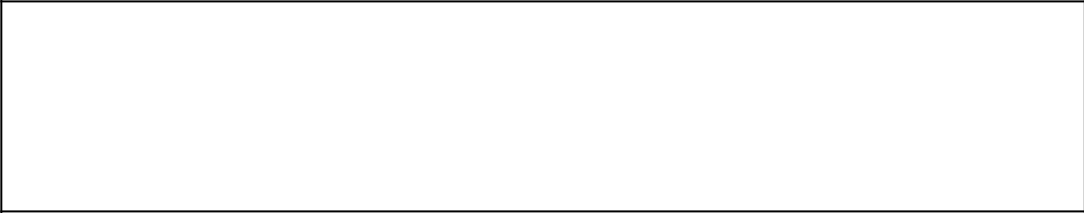
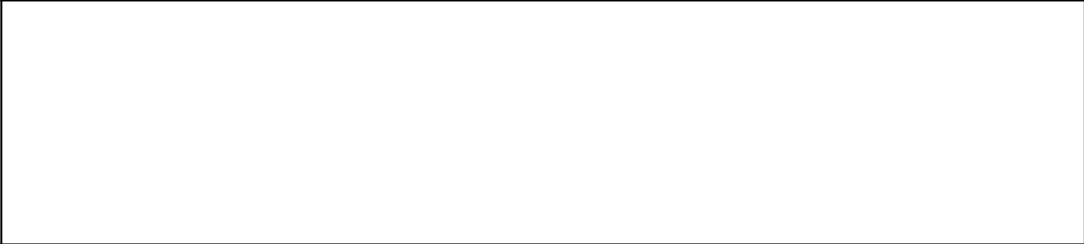
22 (For items such as rakes, shovels, handsaws, etc.) / 100% (When carried for all of the loaded miles)

23 (For items such as leaf blowers, chainsaws, etc.) / 100% (When carried for all of the loaded miles)

18 (For tree limbs, wood chips, etc.) / 50% (When carried for half of the loaded miles)

44 (For grass clippings or other waste) / 25% (When carried for one quarter of the loaded)

REVISED CATEGORY TEXT





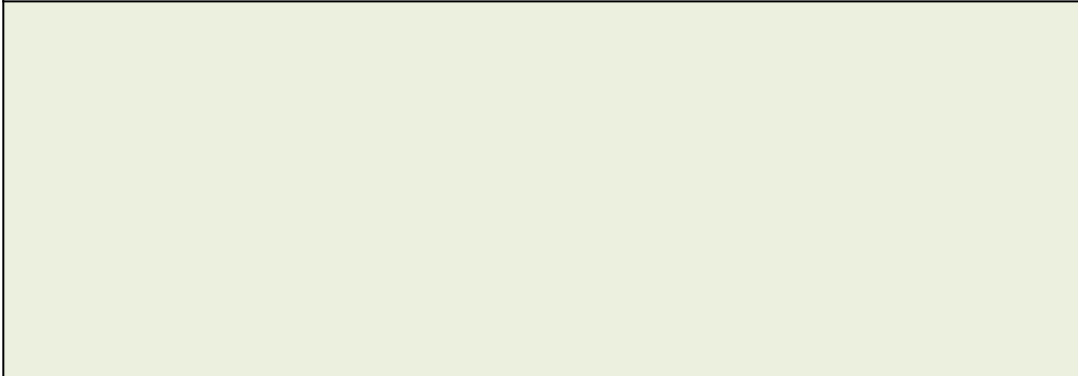

- Yes
- No

- Pickup
- Minivan
- Van other than minivan
- Sport Utility Vehicle / Jeep
- Other not elsewhere specified: \_\_\_\_\_



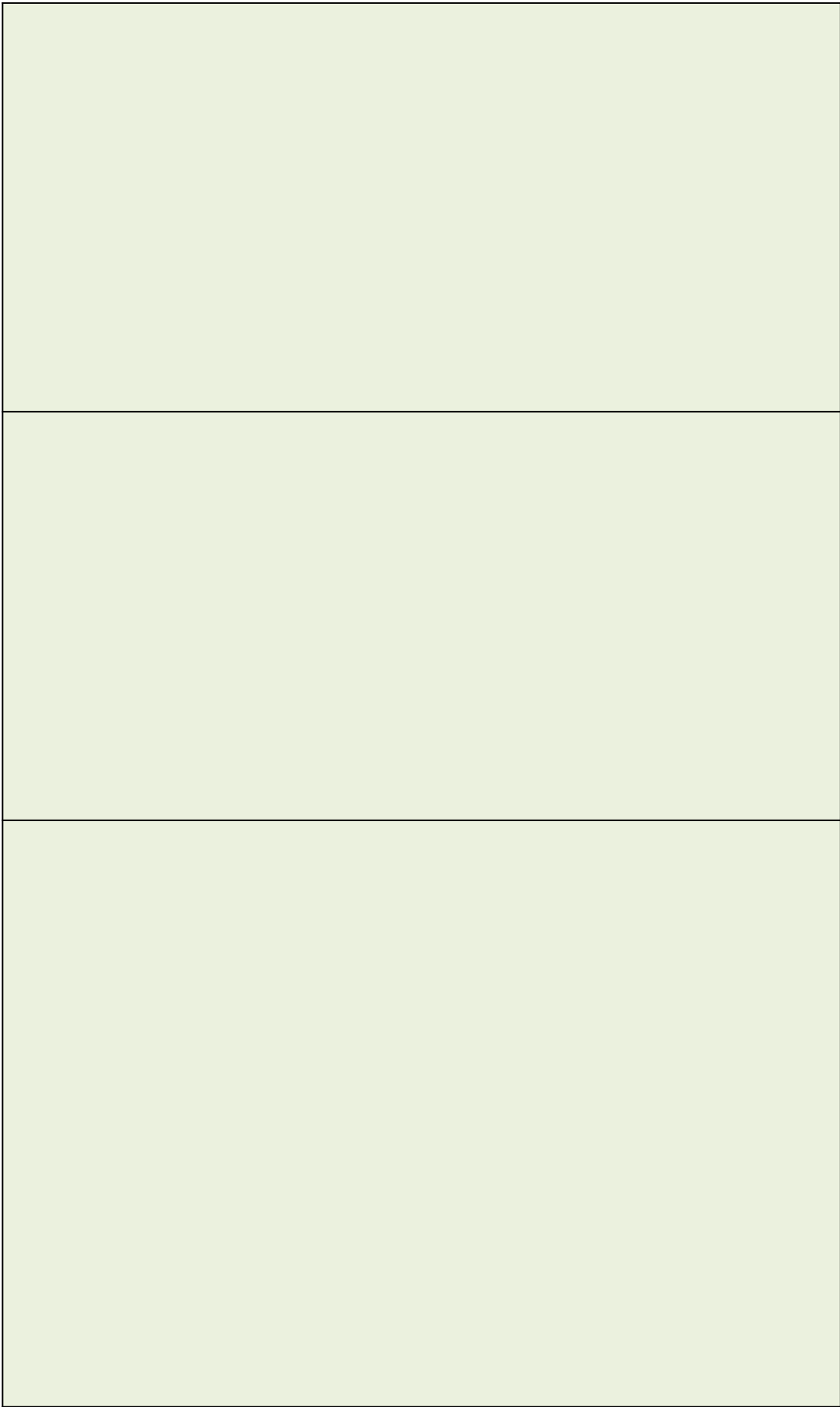
- One
- Two
- Other - please specify: \_\_\_\_\_

- Automatic
- Manual
- Both
- Other \_\_\_\_\_ (specify)



- Air bags
- Anti-lock brake system
- Cruise control
- Driver-facing camera
- Global Positioning System (GPS) , without navigational aid
- Internet access
- Navigation system
- Rollover protection
- None of the above

- o Adaptive Cruise Control
- o Automated Driving System (ADS—full or partial)
- o Automatic Emergency Steering
- o Blind Spot Warning
- o Forward Automatic Emergency Braking
- o Forward Collision Warning
- o Lane Departure Warning
- o Lane Keeping Assistance
- o Parking Assistance
- o Parking Obstruction Warning
- o Pedestrian Detection
- o Rear Cross Traffic Warning
- o Reverse Automatic Emergency Braking



- o Aerodynamic bumper
- o Aerodynamic hood
- o Aerodynamic mirrors
- o Automatic engine shutoff technology
- o Automatic tire inflation system
- o Fuel tank covers
- o Gap reducers
- o Idle-reducing technologies (portable auxiliary pack, electrification, etc.)
- o Low rolling resistance tires
- o None of the above

- o Aerial work platform/bucket
- o Air compressor (except for air brakes)
- o Air springs
- o Christmas tree (chip box)
- o Crane
- o Electronic vehicle identification
- o Engine retarder/brake
- o Hoist
- o Lift gate
- o Mounting bar for snowplow
- o Multi-hazmat
- o Power take-off
- o Toolbox
- o Winch
- o None of above

\_\_\_\_\_ pounds




- Private residence
- Corporate office/headquarters
- Terminal
- Distribution center
- Manufacturing plant
- Farm/Agricultural Production
- Mining or other Energy Production Site
- Truck leasing company
- Other (please specify) \_\_\_\_\_
- No home base

Pickups, small vans (including minivans), and sport utility vehicles: \_\_\_\_\_

Semi-trucks (tractor/trailer trucks): \_\_\_\_\_

Any other trucks or vans: \_\_\_\_\_

Trailers (including trailer mounted equipment): \_\_\_\_\_

Converter dollies : \_\_\_\_\_

- No other vehicles at this home base

Odometer readings

Gas or fuel receipts

Trip meter

GPS

Other: \_\_\_\_\_

- Odometer readings
- Gas or fuel receipts
- Trip meter
- GPS
- Other: \_\_\_\_\_

Operated within the home base state: \_\_\_\_\_%

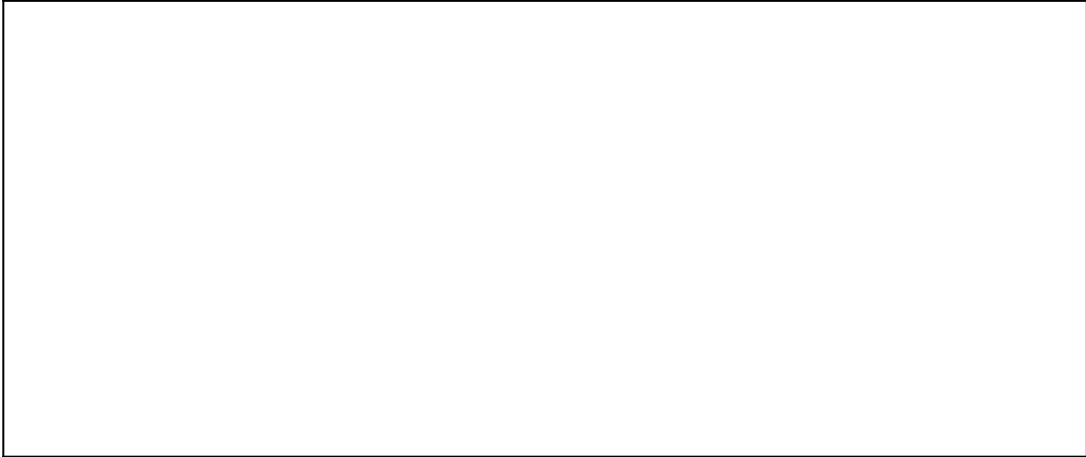
Operated in states other than the home base state (or has no home base): \_\_\_\_\_%

Operated in Canada: \_\_\_\_\_%

Operated in Mexico: \_\_\_\_\_%

- o 50 miles or less from its home base \_\_\_\_\_%
- o 51 to 100 miles from its home base \_\_\_\_\_%
- o 101 to 200 miles from its home base \_\_\_\_\_%
- o 201 to 500 miles from its home base \_\_\_\_\_%
- o More than 500 miles from its home base \_\_\_\_\_%

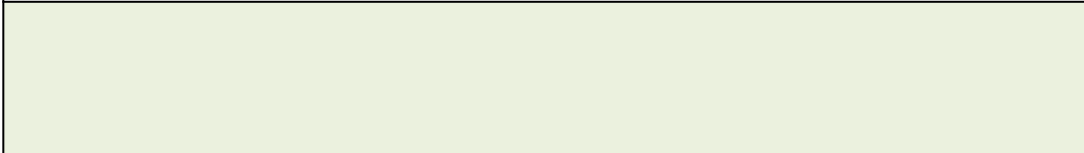




- General repair business or private mechanic (includes gas stations, truck stops, parts stores, etc.)
- Dealership service department
- Leasing company
- Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility
- Company-owned maintenance facility
- None performed
- Other - please specify: \_\_\_\_\_



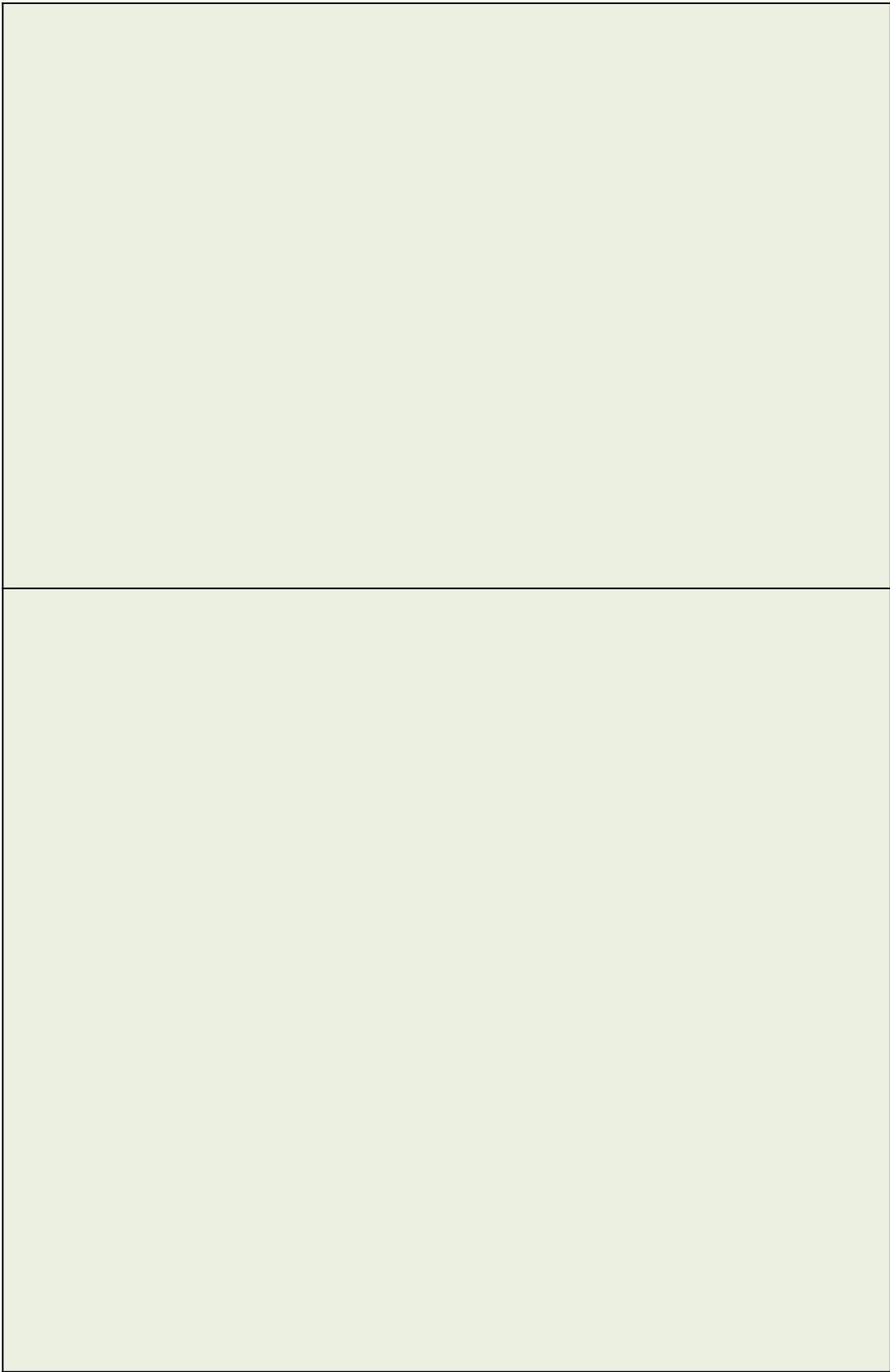
- General repair business or private mechanic (includes gas stations, truck stops, parts stores, etc.)
- Dealership service department
- Leasing company
- Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility
- Company-owned maintenance facility
- Other - please specify: \_\_\_\_\_



- Yes
- No
- Don't know

No trailer pulled: \_\_\_\_\_%

Trailer pulled: \_\_\_\_\_%



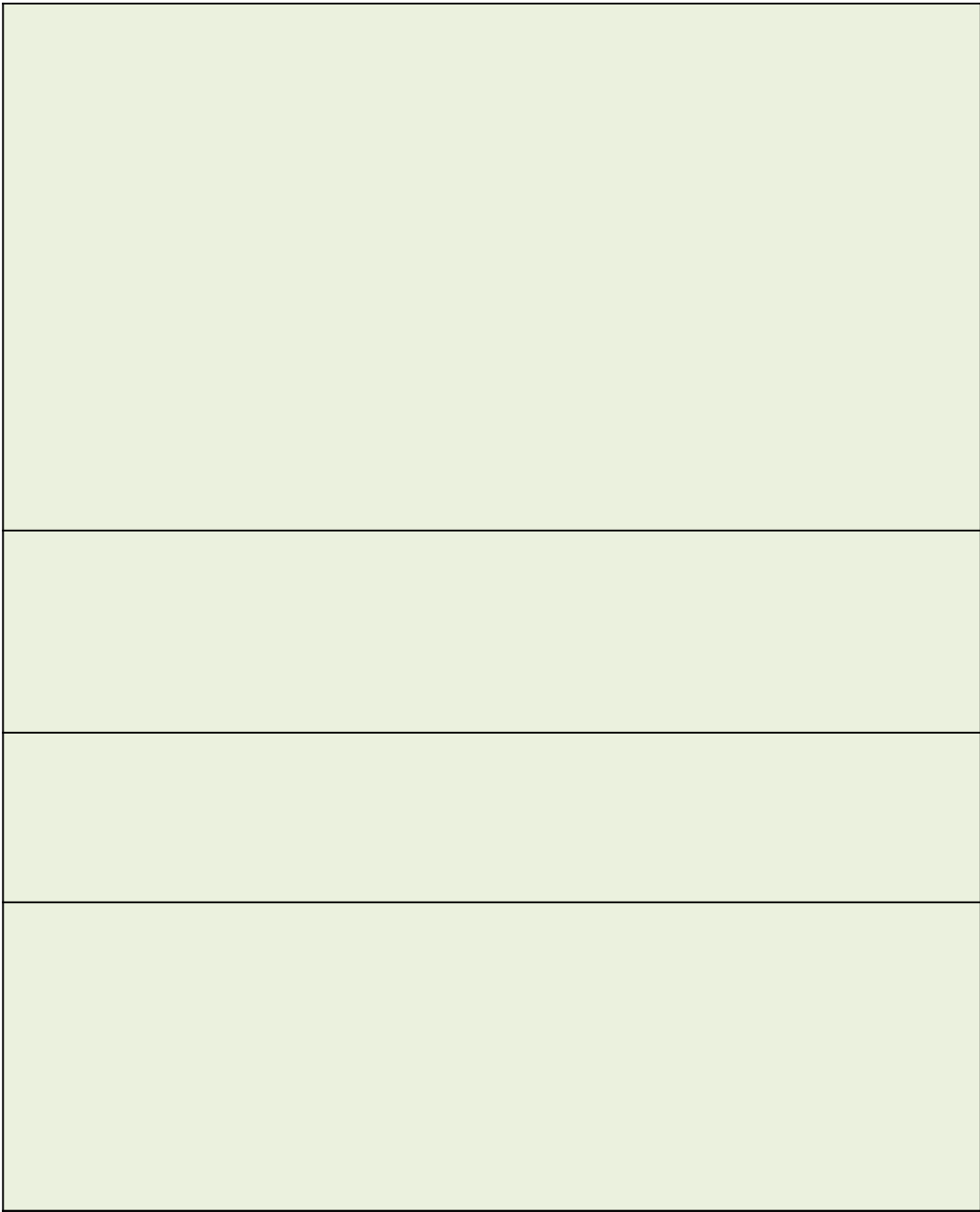


- Aluminum wheels
- Front fairing
- Lightweight landing gear
- Rear fairing
- Side skirts
- Undercarriage aerodynamic devices
- None of above
- Other \_\_\_\_\_ specify

- Less than 16.0 feet
- 16.0 to 19.9 feet
- 20.0 to 27.9 feet
- 28.0 to 35.9 feet
- 36.0 to 40.9 feet
- 41.0 to 44.9 feet
- 45.0 to 49.9 feet
- Other \_\_\_\_\_ please specify

- Less than 6,001 pounds
- 6,001 to 8,500 pounds
- 8,501 to 10,000 pounds
- Other \_\_\_\_\_ specify

- ~~Less than 6,001 pounds~~
- ~~6,001 to 8,500 pounds~~
- ~~8,501 to 10,000 pounds~~
- ~~10,001 to 14,000 pounds~~
- ~~14,001 to 16,000 pounds~~
- ~~16,001 to 19,500 pounds~~
- Other \_\_\_\_\_ (please specify)



~~Private business use (carry own goods, or use vehicle for internal company business):~~

~~\_\_\_\_\_%~~

~~Motor carrier (company owned vehicles hired to carry people or goods): \_\_\_\_\_%~~

~~Owner operator (independent drivers hired to carry people or goods): \_\_\_\_\_%~~

~~Rental (daily and other short term): \_\_\_\_\_%~~

~~Personal transportation (non-commercial use): \_\_\_\_\_%~~

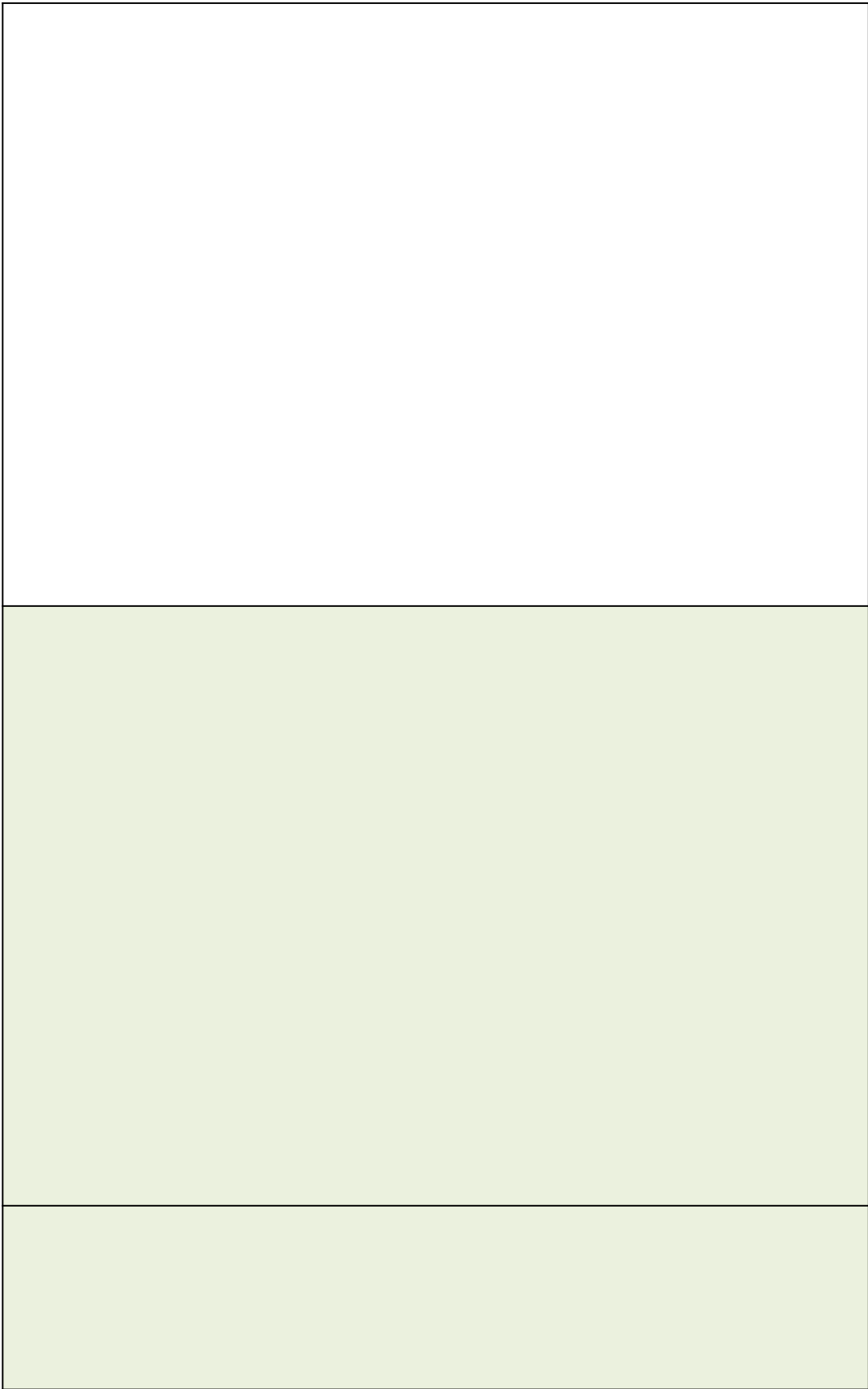
- o Accommodation or food services (for immediate consumption)
- o Agriculture, forestry, fishing, or hunting
- o Arts, entertainment, or recreation services
- o Construction (includes land subdivision and development, as well as construction activity by special trade contractors)
- o For-hire transportation (of goods or people)
- o Fuel wholesale or distribution
- o HVAC, plumbing, electrician
- o Information services (includes telephone and television)
- o Manufacturing
- o Mining (includes quarrying, well operations, and beneficiating)
- o Retail Trade
- o Utilities (includes electric power, natural gas, steam supply, water supply, and sewage removal)
- o Vehicle leasing or rental (includes short-term rentals)
- o Warehousing
- o Waste management, landscaping, or administrative/support services
- o Wholesale trade
- o Other services, including advertising, real estate, nonvehicle leasing or rental, educational, health care, social assistance, finance, insurance, professional, scientific, or technical services
- o Other - please specify: \_\_\_\_\_


Vehicle was filled to physical capacity (cubed out): \_\_\_\_\_%

Vehicle was filled to weight limit (weighed out): \_\_\_\_\_%

Vehicle was empty: \_\_\_\_\_%

NOTE: Percentages should sum up to 100%



\*\*\* please see the sample table of product and percentage of loaded miles in the file "9501 Rd 2 Findings and Recommendations Handout" page 38. \*\*\*



Approved by BTS (date)	<b>FINAL QUESTION AND RESPONSE TEXT</b> As of 6/2/2020
	Is the vehicle identified above still in your possession OR your company's possession? <input type="radio"/> Yes (Go to section C - Acquisition) <input type="radio"/> No (Go to section B - Disposal)
	Did you dispose of this vehicle prior to January 1, 2020? <input type="radio"/> Yes (Go to section O- Contact Information) <input type="radio"/> No (Continue with question 2 below)
	When did you dispose of this vehicle? Enter 2-digit month and 4-digit year. Month ____ / Year ____
	How did you dispose of this vehicle?  Note: If you disposed of this vehicle after January 1, 2020, answer all of the remaining applicable questions according to how you used the vehicle during 2020. If you disposed of this vehicle prior to January 1, 2020 skip to section O - Contact Information.  Mark ONE box only. <input type="radio"/> Sold or gave it away <input type="radio"/> Traded it in <input type="radio"/> Junked, scrapped, or otherwise destroyed it <input type="radio"/> Returned it to leasing company <input type="radio"/> Repossessed

	<p>When did you originally take physical possession of this vehicle?</p> <p>Enter 2-digit month and 4-digit year. Month ____ / Year _____</p>
	<p>Was this vehicle new when you took physical possession of it?</p> <ul style="list-style-type: none"><li><input type="radio"/> Yes</li><li><input type="radio"/> No</li></ul>
	<p>NOTE: This section pertains to ownership leasing. Rental agreements are NOT covered.</p> <p>Did you lease this vehicle FROM another person or company during 2020?</p> <ul style="list-style-type: none"><li><input type="radio"/> Yes (Go to question section E - TYPE OF VEHICLE)</li><li><input type="radio"/> No</li></ul>

	<p>Did you lease this vehicle TO another person or company during 2020?</p> <ul style="list-style-type: none"><li><input type="radio"/> Yes</li><li><input type="radio"/> No</li></ul>
2-Jun	<p>Which body type most closely resembled this vehicle? Mark ONE box only.</p> <ul style="list-style-type: none"><li><input type="radio"/> Pickup</li><li><input type="radio"/> Minivan</li><li><input type="radio"/> Van other than minivan</li><li><input type="radio"/> Sport Utility Vehicle / Jeep</li><li><input type="radio"/> Other not elsewhere specified: _____</li></ul>
	<p>What was the total number of axles on this vehicle? Include front and rear axles, but do NOT include axles on any trailers pulled. Mark ONE box only.</p> <ul style="list-style-type: none"><li><input type="radio"/> Two</li><li><input type="radio"/> Three or more</li></ul>
	<p>How many tires were on the rear axle? Mark ONE box only.</p> <ul style="list-style-type: none"><li><input type="radio"/> Two</li><li><input type="radio"/> Four</li></ul>

28-Jan	How many of this vehicle's axles were powered? Mark ONE box only. <input type="radio"/> One <input type="radio"/> Two <input type="radio"/> Other - please specify: _____
28-Jan	What type of transmission did this vehicle have? Mark ONE box only.  <input type="radio"/> Automatic <input type="radio"/> Manual <input type="radio"/> Both <input type="radio"/> Other _____ (specify)
	<del>*remove question per BTS</del> Number of gears: _____

	<p>Did this vehicle have any of the following equipment?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Aerial work platform/bucket</li> <li><input type="checkbox"/> Air bag(s) (safety device only)</li> <li><input type="checkbox"/> Air conditioning</li> <li><input type="checkbox"/> Anti lock brake system</li> <li><input type="checkbox"/> Automatic engine shutoff technology</li> <li><input type="checkbox"/> Automatic tire inflation system</li> <li><input type="checkbox"/> Computerized drive train control unit</li> <li><input type="checkbox"/> Front wheel drive</li> <li><input type="checkbox"/> Low rolling resistance tires on the drive wheels</li> <li><input type="checkbox"/> Low rolling resistance tires on the steering wheels</li> <li><input type="checkbox"/> Mounting bar for snowplow</li> <li><input type="checkbox"/> Radial tires</li> <li><input type="checkbox"/> Route guidance technology</li> <li><input type="checkbox"/> Single wide tires</li> <li><input type="checkbox"/> Tire pressure monitoring system</li> <li><input type="checkbox"/> Toolbox</li> <li><input type="checkbox"/> Trip recorder or on board computer WITH remote communication capabilities</li> <li><input type="checkbox"/> Trip recorder or on board computer WITHOUT remote communication capabilities</li> <li><input type="checkbox"/> Vehicle control aids for handicapped drivers</li> <li><input type="checkbox"/> Wheelchair lift</li> <li><input type="checkbox"/> Winch</li> </ul>
2-Jun	<p>In 2020, did this vehicle have any of the following standard features?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Air bags</li> <li><input type="checkbox"/> Anti-lock brake system</li> <li><input type="checkbox"/> Cruise control</li> <li><input type="checkbox"/> Driver-facing camera</li> <li><input type="checkbox"/> Global Positioning System (GPS) , without navigational aid</li> <li><input type="checkbox"/> Internet access</li> <li><input type="checkbox"/> Navigation system</li> <li><input type="checkbox"/> Rollover protection</li> <li><input type="checkbox"/> None of the above</li> </ul>

2-Jun	<p>In 2020, did this vehicle have any of the following driver assistance features?  Select all that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Adaptive Cruise Control</li> <li><input type="checkbox"/> Automated Driving System (ADS—full or partial)</li> <li><input type="checkbox"/> Automatic Emergency Steering</li> <li><input type="checkbox"/> Blind Spot Warning</li> <li><input type="checkbox"/> Forward Automatic Emergency Braking</li> <li><input type="checkbox"/> Forward Collision Warning</li> <li><input type="checkbox"/> Lane Departure Warning</li> <li><input type="checkbox"/> Lane Keeping Assistance</li> <li><input type="checkbox"/> Parking Assistance</li> <li><input type="checkbox"/> Parking Obstruction Warning</li> <li><input type="checkbox"/> Pedestrian Detection</li> <li><input type="checkbox"/> Rear Cross Traffic Warning</li> <li><input type="checkbox"/> Reverse Automatic Emergency Braking</li> </ul>
2-Jun	<p>In 2020, did this vehicle have any of the following driving control assistance features?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Adaptive Cruise Control</li> <li><input type="checkbox"/> Active Driving Assistance</li> <li><input type="checkbox"/> Lane Keeping Assistance</li> <li><input type="checkbox"/> None of the above</li> </ul>
2-Jun	<p>In 2020, did this vehicle have any of the following collision warning features?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Blind Spot Warning</li> <li><input type="checkbox"/> Forward Collision Warning</li> <li><input type="checkbox"/> Lane Departure Warning</li> <li><input type="checkbox"/> Parking Obstruction Warning</li> <li><input type="checkbox"/> Rear Cross Traffic Warning</li> <li><input type="checkbox"/> None of the above</li> </ul>

2-Jun	<p>In 2020, did this vehicle have any of the following collision intervention features? Mark ALL that apply.</p> <ul style="list-style-type: none"><li><input type="radio"/> Automatic Emergency Braking</li><li><input type="radio"/> Automatic Emergency Steering</li><li><input type="radio"/> Rear Automatic Emergency Braking</li><li><input type="radio"/> None of the above</li></ul>
2-Jun	<p>In 2020, did this vehicle have any of the following parking assistance features? Mark ALL that apply.</p> <ul style="list-style-type: none"><li><input type="radio"/> Active Parking Assistance</li><li><input type="radio"/> Remote Parking</li><li><input type="radio"/> None of the above</li></ul>
2-Jun	<p>In 2020, did this vehicle have any of the following other driver assistance systems features? Mark ALL that apply.</p> <ul style="list-style-type: none"><li><input type="radio"/> Automated High Beams</li><li><input type="radio"/> Backup Camera</li><li><input type="radio"/> Driver Monitoring</li><li><input type="radio"/> Head-Up Display</li><li><input type="radio"/> Night Vision</li><li><input type="radio"/> Surround-View Camera</li><li><input type="radio"/> None of the above</li></ul>

2-Jun	<p>In 2020, did this vehicle have any of the following fuel economy features?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Aerodynamic bumper</li> <li><input type="checkbox"/> Aerodynamic hood</li> <li><input type="checkbox"/> Aerodynamic mirrors</li> <li><input type="checkbox"/> Automatic engine shutoff technology</li> <li><input type="checkbox"/> Automatic tire inflation system</li> <li><input type="checkbox"/> Fuel tank covers</li> <li><input type="checkbox"/> Gap reducers</li> <li><input type="checkbox"/> Idle-reducing technologies (portable auxiliary pack, electrification, etc.)</li> <li><input type="checkbox"/> Low rolling resistance tires</li> <li><input type="checkbox"/> None of the above</li> </ul>
2-Jun	<p>In 2020, did this vehicle have any of the following other features?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Aerial work platform/bucket</li> <li><input type="checkbox"/> Air compressor (except for air brakes)</li> <li><input type="checkbox"/> Air springs</li> <li><input type="checkbox"/> Christmas tree (chip box)</li> <li><input type="checkbox"/> Crane</li> <li><input type="checkbox"/> Electronic vehicle identification</li> <li><input type="checkbox"/> Engine retarder/brake</li> <li><input type="checkbox"/> Hoist</li> <li><input type="checkbox"/> Lift gate</li> <li><input type="checkbox"/> Mounting bar for snowplow</li> <li><input type="checkbox"/> Multi-hazmat</li> <li><input type="checkbox"/> Power take-off</li> <li><input type="checkbox"/> Toolbox</li> <li><input type="checkbox"/> Winch</li> <li><input type="checkbox"/> None of above</li> </ul>
	<p><del>In 2020, did this vehicle have any of the following other features and equipment?</del>  <del>Mark all that apply.</del></p> <ul style="list-style-type: none"> <li><del><input type="checkbox"/> Air conditioning</del></li> <li><del><input type="checkbox"/> Air springs</del></li> <li><del><input type="checkbox"/> Cruise control</del></li> <li><del><input type="checkbox"/> Internet access</del></li> </ul>



What was this vehicle's towing capacity in pounds?  
\_\_\_\_\_ pounds

What was the height of this vehicle's cabin (measured from the ground to the top of the roof)? Include any equipment that extends above the roof of the cabin such as an antenna, a fairing, or a smoke stack.  
Feet: \_\_\_\_\_ Inches: \_\_\_\_\_

What was this vehicle's maximum seating capacity?  
\_\_\_\_\_  
\_\_\_\_\_ passengers

	<p>In 2020, how many months was this vehicle used?  Round to the nearest whole month. Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="radio"/> 12 months (Go to section H -Home base)</li> <li><input type="radio"/> 7-11 months</li> <li><input type="radio"/> 2-6 months</li> <li><input type="radio"/> 1 month or less</li> <li><input type="radio"/> Vehicle not used (no miles driven)</li> </ul>
	<p>In 2020, what reasons (if any) was this vehicle NOT in use for periods of 90 consecutive days or more?  Mark ALL that apply.  After answering this question and you reported question 1 above "Vehicle not used(no miles driven)", go to section O - Contact Information</p> <ul style="list-style-type: none"> <li><input type="radio"/> Not applicable</li> <li><input type="radio"/> Seasonal</li> <li><input type="radio"/> Not needed/idle (excluding seasonal)</li> <li><input type="radio"/> Under repair</li> <li><input type="radio"/> Other - please specify: _____</li> </ul>
	<p>Did this vehicle operate from a home base location during 2020?  Home base refers to the location where the vehicle was usually parked when it was not on the road, such as a home, farm, terminal, etc. Vehicles that might NOT operate from a home base are typically consumer one-way rentals or some over the road truck tractors. If this vehicle is on lease to someone else, answer ALL home base questions as they pertain to the lessee. Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Yes (Continue with question 2 below)</li> <li><input type="radio"/> No (Go to section I - MILES on page 11)</li> </ul>

28-Jan	<p>What was the primary function of the home base from which this vehicle operated?</p> <p>Note: Home base refers to the location where the vehicle was usually parked when it was not on the road.</p> <p>Mark ONE box only.</p> <ul style="list-style-type: none"> <li>• Private residence</li> <li>• Corporate office/headquarters</li> <li>• Terminal</li> <li>• Distribution center</li> <li>• Manufacturing plant</li> <li>• Farm/Agricultural Production</li> <li>• Mining or other Energy Production Site</li> <li>• Truck leasing company</li> <li>• Other (please specify) _____</li> <li>• No home base (Go to Section I - Miles)</li> </ul>
	<p>Where was the home base of this vehicle on July 1, 2020? If this vehicle was put into service after July 1, 2020, enter current home base.</p> <p>City: _____</p> <p>County/Parish/Borough (or equivalent): _____</p> <p>State: _____</p> <p>ZIP Code: _____</p>

2-Jun	<p>In addition to this vehicle, how many other vehicles/trailers were operated from the home base location?</p> <p>Pickups, small vans (including minivans), and sport utility vehicles: _____</p> <p>Semi-trucks (tractor/trailer trucks): _____</p> <p>Any other trucks or vans: _____</p> <p>Trailers (including trailer mounted equipment): _____</p> <p>Converter dollies : _____</p> <ul style="list-style-type: none"> <li>• No other vehicles at this home base</li> </ul>
	<p>How many total miles was this vehicle driven in 2020? Round to the nearest whole mile.</p> <p>Miles: _____</p>
2-Jun	<p>How was the annual mileage calculated?</p> <p>Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Odometer readings</li> <li><input type="checkbox"/> Gas or fuel receipts</li> <li><input type="checkbox"/> Trip meter</li> <li><input type="checkbox"/> GPS</li> <li><input type="checkbox"/> Other: _____</li> </ul>

	<p>How many miles-per-gallon (mpg) did this vehicle average during 2020? If compressed natural gas (CNG) is used, give miles per gasoline gallon equivalent (GGE). 1 GGE = 123 cubic feet CNG. Report to the nearest tenth.</p> <p>MPG: _____</p>
2-Jun	<p>How was miles-per-gallon (mpg) calculated?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Odometer readings</li> <li><input type="checkbox"/> Gas or fuel receipts</li> <li><input type="checkbox"/> Trip meter</li> <li><input type="checkbox"/> GPS</li> <li><input type="checkbox"/> Other: _____</li> </ul>
28-Jan	<p>What was the approximate percent of this vehicle's 2020 mileage for each of the following jurisdictions?  Round to the nearest whole percent. Total should sum to 100%.</p> <p>Operated within the home base state: _____%</p> <p>Operated in states other than the home base state (or has no home base): _____%</p> <p>Operated in Canada: _____%</p> <p>Operated in Mexico: _____%</p>

2-Jun What was the approximate percent of this vehicle's 2020 mileage driven within the following ranges of operation?  
If this vehicle does not operate from a home base, report its average range of operation.  
Round to the nearest whole percent. Total should sum to 100%.

- 50 miles or less from its home base \_\_\_\_\_%
- 51 to 100 miles from its home base \_\_\_\_\_%
- 101 to 200 miles from its home base \_\_\_\_\_%
- 201 to 500 miles from its home base \_\_\_\_\_%
- More than 500 miles from its home base \_\_\_\_\_%

2-Jun What was the approximate percent of this vehicle's 2020 mileage driven off road (not on an established public or private roads)?  
Round to the nearest whole percent.

Percent of miles off road \_\_\_\_\_%

How many miles has this vehicle been driven since it was manufactured?  
If the odometer has turned over, please enter the figure for the total amount.  
If the vehicle is no longer in your possession, enter the figure when you last operated the vehicle. Round to the nearest whole mile.

Miles: \_\_\_\_\_

<p>11-Mar</p>	<p>On average, in 2020, how many hours per week did this vehicle spend: Round to the nearest hour.</p> <p>Operating: _____ hours per week  Idling: _____ hours per week  Using auxiliary power: _____ hours per week</p>
	<p>In 2020, what type of fuel or fuel combination was most often used in this vehicle?  If a fuel combination was used, select ALL that make up the combination.  Otherwise, Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gasoline (including gasohol)</li> <li><input type="checkbox"/> Diesel (including biodiesel)</li> <li><input type="checkbox"/> Natural gas (compressed or liquid)</li> <li><input type="checkbox"/> Propane (liquefied petroleum gas)</li> <li><input type="checkbox"/> Alcohol fuels (ethanol or methanol)</li> <li><input type="checkbox"/> Electricity</li> <li><input type="checkbox"/> Other - please specify: _____</li> </ul>
	<p>In 2020, at what type of location was this vehicle typically refueled?  Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gas station</li> <li><input type="checkbox"/> Truck stop</li> <li><input type="checkbox"/> Your own facility (including home, farm, ranch, on-site by mobile supplier, etc.)</li> <li><input type="checkbox"/> Other company's/contractor's facility not open to the public</li> <li><input type="checkbox"/> Other - please specify: _____</li> </ul>

28-Jan	<p>In 2020, who performed any GENERAL maintenance (oil change, brake change, headlight replacement, etc.) on this vehicle?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> General repair business or private mechanic (includes gas stations, truck stops, parts stores, etc.)</li> <li><input type="checkbox"/> Dealership service department</li> <li><input type="checkbox"/> Leasing company</li> <li><input type="checkbox"/> Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility</li> <li><input type="checkbox"/> Company-owned maintenance facility</li> <li><input type="checkbox"/> None performed (Skip question 4, proceed to question 5)</li> <li><input type="checkbox"/> Other - please specify: _____</li> </ul>
	<p>What was the total cost of all GENERAL maintenance in 2020?  Round to the nearest whole dollar.  \$ _____</p>
	<p>In 2020, were any EXTENSIVE repairs over \$500 performed on this vehicle?  <input type="checkbox"/> Yes (Continue with question 6 below)  <input type="checkbox"/> No (Skip questions 6 and 7, proceed to question 8)</p>
28-Jan	<p>Who performed these EXTENSIVE repairs?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> General repair business or private mechanic (includes gas stations, truck stops, parts stores, etc.)</li> <li><input type="checkbox"/> Dealership service department</li> <li><input type="checkbox"/> Leasing company</li> <li><input type="checkbox"/> Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility</li> <li><input type="checkbox"/> Company-owned maintenance facility</li> <li><input type="checkbox"/> Other - please specify: _____</li> </ul>
	<p>What was the total cost of all EXTENSIVE repairs in 2020?  Round to the nearest whole dollar.  \$ _____</p>



28-Jan	<p>Has this vehicle's engine EVER been rebuilt or overhauled?  Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Yes (Continue with question 9 below)</li> <li><input type="radio"/> No (Go to section K - Vehicle Configuration)</li> <li><input type="radio"/> Don't know (Go to section K - Vehicle Configuration)</li> </ul>
	<p>In what year was this vehicle's engine LAST rebuilt or overhauled?  Year (4 digit): ____ ____ ____ ____</p>
	<p>In 2020, did you ever pull a trailer with this vehicle?  <input type="radio"/> Yes  <input type="radio"/> No (Skip to K-6)</p>
2-Jun	<p>In 2020, what percent of the miles driven by this vehicle were in each of the following configurations?  Trailer mounted equipment should be treated as a trailer. Total should sum to 100%   If No trailer pulled more than 50%, skip to K5</p>
2-Jun	<p>In 2020, was this vehicle used to pull a trailer?  Trailer mounted equipment should be treated as a trailer.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Yes</li> <li><input type="radio"/> No (If no, go to question 6 )</li> </ul>

2-Jun

In 2020, did this vehicle pull a trailer for at least half of all miles driven?  
Trailer mounted equipment should be treated as a trailer.

- Yes, this vehicle pulled a trailer for 50% or more of all miles driven.
- No, this vehicle pulled a trailer for less than 50% of all miles driven. (If no, go to question 6 )

Which type of trailer resembles that most often attached to this vehicle?  
Mark ONE box only.

- Automobile carrier (excluding curtain, van, or flatbed)
- Beverage
- Curtainside
- Dump (including belly or bottom dump)
- Flatbed, platform, etc.
- Livestock (including livestock drop frame)
- Low boy (platform with depressed center)
- Mobile home toter
- Open top (including vans, low side grain, fruit, etc.)
- Pole, logging, pulpwood, or pipe
- Refrigerated trailer
- Tank, dry bulk
- Tank, liquids or gases
- Trailer mounted equipment
- Van, basic enclosed (dry cargo)
- Van, drop frame (excluding livestock)
- Van, insulated non refrigerated
- Van, insulated refrigerated
- Other not elsewhere classified — please specify:  
\_\_\_\_\_  
\_\_\_\_\_

	<p>How many axles were on the trailer unit most often pulled by this vehicle? Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="radio"/> One axle on trailer</li> <li><input type="radio"/> Two axles on trailer</li> <li><input type="radio"/> Three or more axles on trailer</li> </ul>
	<p>What was the length, in feet, of the trailer unit most often pulled by this vehicle? Round to the nearest whole number.</p> <p>_____ feet</p>
2-Jun	<p>Does the trailer have any of the following add-on equipment? Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Aluminum wheels</li> <li><input type="radio"/> Front fairing</li> <li><input type="radio"/> Lightweight landing gear</li> <li><input type="radio"/> Rear fairing</li> <li><input type="radio"/> Side skirts</li> <li><input type="radio"/> Undercarriage aerodynamic devices</li> <li><input type="radio"/> None of above</li> <li><input type="radio"/> Other _____ specify</li> </ul>

<p>28-Jan</p>	<p>Paper instrument: Referring to the most common configuration indicated in question 1 (no trailer or trailer pulled), what was the total length of this vehicle or vehicle/trailer combination? Report distance, in feet, from front bumper to rear of vehicle or trailer(s). Mark ONE box only.</p> <p>Electronic instrument: if the R did not answer question 1: Referring to the most common configuration indicated in question 1 (no trailer or trailer pulled), what was the total length of this vehicle or vehicle/trailer combination? Report distance, in feet, from front bumper to rear of vehicle or trailer(s). Mark ONE box only.</p> <p>if the R has indicated pulling a trailer: What was the total length of this [insert year, make, model] plus the [single/double/triple] trailer combination?</p> <p>if the R has indicated that they do not pull a trailer: What was the total length of this [insert year, make, model]?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Less than 16.0 feet</li> <li><input type="radio"/> 16.0 to 19.9 feet</li> <li><input type="radio"/> 20.0 to 27.9 feet</li> <li><input type="radio"/> 28.0 to 35.9 feet</li> <li><input type="radio"/> 36.0 to 40.9 feet</li> <li><input type="radio"/> 41.0 to 44.9 feet</li> <li><input type="radio"/> 45.0 to 49.9 feet</li> <li><input type="radio"/> Other _____ please specify</li> </ul>
<p>28-Jan</p>	<p>What was the empty weight of this vehicle or vehicle/trailer combination? Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Less than 6,001 pounds</li> <li><input type="radio"/> 6,001 to 8,500 pounds</li> <li><input type="radio"/> 8,501 to 10,000 pounds</li> <li><input type="radio"/> Other _____ specify</li> </ul>
<p>11-Mar</p>	<p>What was the average weight (vehicle weight plus cargo weight) of this vehicle or vehicle/trailer combination as it was most often operated when carrying a typical payload during 2020? Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Less than 6,001 pounds</li> <li><input type="radio"/> 6,001 to 8,500 pounds</li> <li><input type="radio"/> 8,501 to 10,000 pounds</li> <li><input type="radio"/> 10,001 to 14,000 pounds</li> <li><input type="radio"/> 14,001 to 16,000 pounds</li> <li><input type="radio"/> 16,001 to 19,500 pounds</li> <li><input type="radio"/> Other _____ (please specify)</li> </ul>

	<p>What was the average payload, in pounds, transported by this vehicle or vehicle/trailer combination during 2020? Do not include passenger weight. Round to the nearest whole pound.</p> <p>_____ pounds</p>
	<p>What was the average weight, in pounds, of non-trailer cargo? Do not include passenger weight. Round to the nearest whole pound.</p> <p>_____ pounds</p>
	<p><del>What were the average hours per week that the trailer(s) was pulled with a permit to operate over weight? Round to nearest whole hour.</del></p> <p>_____ hours per week</p>
	<p>In 2020, was this vehicle used, at least partially, for any commercial or business-related activities?</p> <p><input type="radio"/> Yes, this vehicle was used at least part time for commercial activities (Continue with question 2 below)</p> <p><input type="radio"/> No, this vehicle was strictly used for personal transportation (Go to section O - Contact information)</p>

not approved	<p>Approximately, what percent of this vehicle's 2020 mileage was from each of the following operator classifications? Round to the nearest whole percent. NOTE: If your highest percentage occurs for personal transportation or rental, go to section O—CONTACT INFORMATION on page 25. Otherwise, continue to question 2 on page 22.</p> <p>NOTE: If your highest percentage occurs for:</p> <ul style="list-style-type: none"> <li>• Motor Carrier or Owner Operator or Private, continue to (section N—Product, Equipment, or Materials)</li> <li>• Personal transportation or Rental, go to (section O—CONTACT INFORMATION )</li> </ul>
2-Jun	<p>Which of the following best described the business activity in which this vehicle was most often used during 2020? If vehicle was leased, indicate business of lessee. Mark ONE box only.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Accommodation or food services (for immediate consumption)</li> <li><input type="radio"/> Agriculture, forestry, fishing, or hunting</li> <li><input type="radio"/> Arts, entertainment, or recreation services</li> <li><input type="radio"/> Construction (includes land subdivision and development, as well as construction activity by special trade contractors)</li> <li><input type="radio"/> For-hire transportation (of goods or people)</li> <li><input type="radio"/> Fuel wholesale or distribution</li> <li><input type="radio"/> HVAC, plumbing, electrician</li> <li><input type="radio"/> Information services (includes telephone and television)</li> <li><input type="radio"/> Manufacturing</li> <li><input type="radio"/> Mining (includes quarrying, well operations, and beneficiating)</li> <li><input type="radio"/> Retail Trade</li> <li><input type="radio"/> Utilities (includes electric power, natural gas, steam supply, water supply, and sewage removal)</li> <li><input type="radio"/> Vehicle leasing or rental (includes short-term rentals)</li> <li><input type="radio"/> Warehousing</li> <li><input type="radio"/> Waste management, landscaping, or administrative/support services</li> <li><input type="radio"/> Wholesale trade</li> <li><input type="radio"/> Other services, including advertising, real estate, nonvehicle leasing or rental, educational, health care, social assistance, finance, insurance, professional, scientific, or technical services</li> <li><input type="radio"/> Other - please specify: _____</li> </ul>

	<p>In 2020, was this vehicle used for any of the following commercial activities?  Mark ALL that apply.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Transporting goods belonging to you or your company</li> <li><input type="checkbox"/> Transporting goods belonging to another person or company</li> <li><input type="checkbox"/> Transporting tools related to your business</li> <li><input type="checkbox"/> Transporting paying passengers</li> <li><input type="checkbox"/> Used as a daily or short term rental</li> <li><input type="checkbox"/> Other: _____</li> </ul>
	<p>What was the approximate percent of this vehicle's 2020 mileage for each of the following activities?  If you report your highest percent of miles, skip to the following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Transporting goods belonging to you or your company</li> <li><input type="checkbox"/> Transporting goods belonging to another person or company</li> <li><input type="checkbox"/> Transporting tools related to your business (Skip to section O - Contact Information)</li> <li><input type="checkbox"/> Transporting paying passengers (Skip to section O - Contact Information)</li> <li><input type="checkbox"/> Used as a daily or short term rental (Skip to section O - Contact Information)</li> <li><input type="checkbox"/> Personal transportation (non-commercial use) (Skip to section O - Contact Information)</li> <li><input type="checkbox"/> Other (Skip to section O - Contact Information)</li> </ul>
	<p><del>What was the approximate percent of this vehicle's 2020 mileage for each of the following activities?</del></p> <p><del>NOTE: If you reported 100% for empty mileage, go to section O - CONTACT INFORMATION on page 25. Otherwise, continue to question 2 on page 24.</del></p> <p><del>Empty - NOT CARRYING any products, tools, equipment, or materials): _____ %</del></p> <p><del>Loaded - CARRYING products, tools, equipment, or materials): _____ %</del></p>

11-Mar

What was the approximate percent of this vehicle's 2020 mileage accounted for by the type of trips listed below?  
Round to the nearest whole percent. Total should sum to 100%  
If you reported 100 percent for empty mileage, skip to Contact Information.



2-Jun What was the approximate percent of this vehicle's 2020 mileage for each of the following categories?  
Round to the nearest whole percent. Total should sum to 100%

- Empty - NOT CARRYING any products, tools, equipment, or materials: \_\_\_\_\_% (If you report 100% empty, go to Section O - Contact Information)
- Loaded - CARRYING products, tools, equipment, or materials: \_\_\_\_\_%

2-Jun What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to physical capacity (cubed out)?  
Round to the nearest whole percent.

- Vehicle was filled to physical capacity (cubed out): \_\_\_\_\_%

2-Jun What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to weight limit (weighed out)?  
Round to the nearest whole percent.

- Vehicle was filled to weight limit (weighed out): \_\_\_\_\_%

In 2020, for the miles driven while carrying a load, what percentage of those "LOADED miles" were driven while carry the following products, tools, equipment, or materials?

Round to the nearest whole percent. Percentages can add to more than 100% if more than one type of tool or product was carried at the same time.

Categorize your products, tools, equipment, or materials carried into the groupings provided. Each applicable grouping code should be entered only once. Each item carried should be categorized into ONLY ONE GROUP. Include any backhauls, trip leasing, etc. Round to the nearest whole percent.

Example: If the vehicle carried landscaping tools and hauled debris away, your response might be similar to this:

Product Code (with example description) /Percent of Loaded Miles (with example scenarios)

22 (For items such as rakes, shovels, handsaws, etc.) / 100% (When carried for all of the loaded miles)

23 (For items such as leaf blowers, chainsaws, etc.) / 100% (When carried for all of the loaded miles)

18 (For tree limbs, wood chips, etc.) / 50% (When carried for half of the loaded miles)

44 (For grass clippings or other waste) / 25% (When carried for one quarter of the loaded)

\*\*\* please see the sample table of product and percentage of loaded miles in the file "9501 Rd 2 Findings and Recommendations Handout" page 38. \*\*\*

Last Name: \_\_\_\_\_

First Name: \_\_\_\_\_

Middle Initial: \_\_\_\_\_

Street Address: \_\_\_\_\_

Street Address 2: \_\_\_\_\_

City (or city equivalent): \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Area Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Extension: \_\_\_\_\_

Email: \_\_\_\_\_

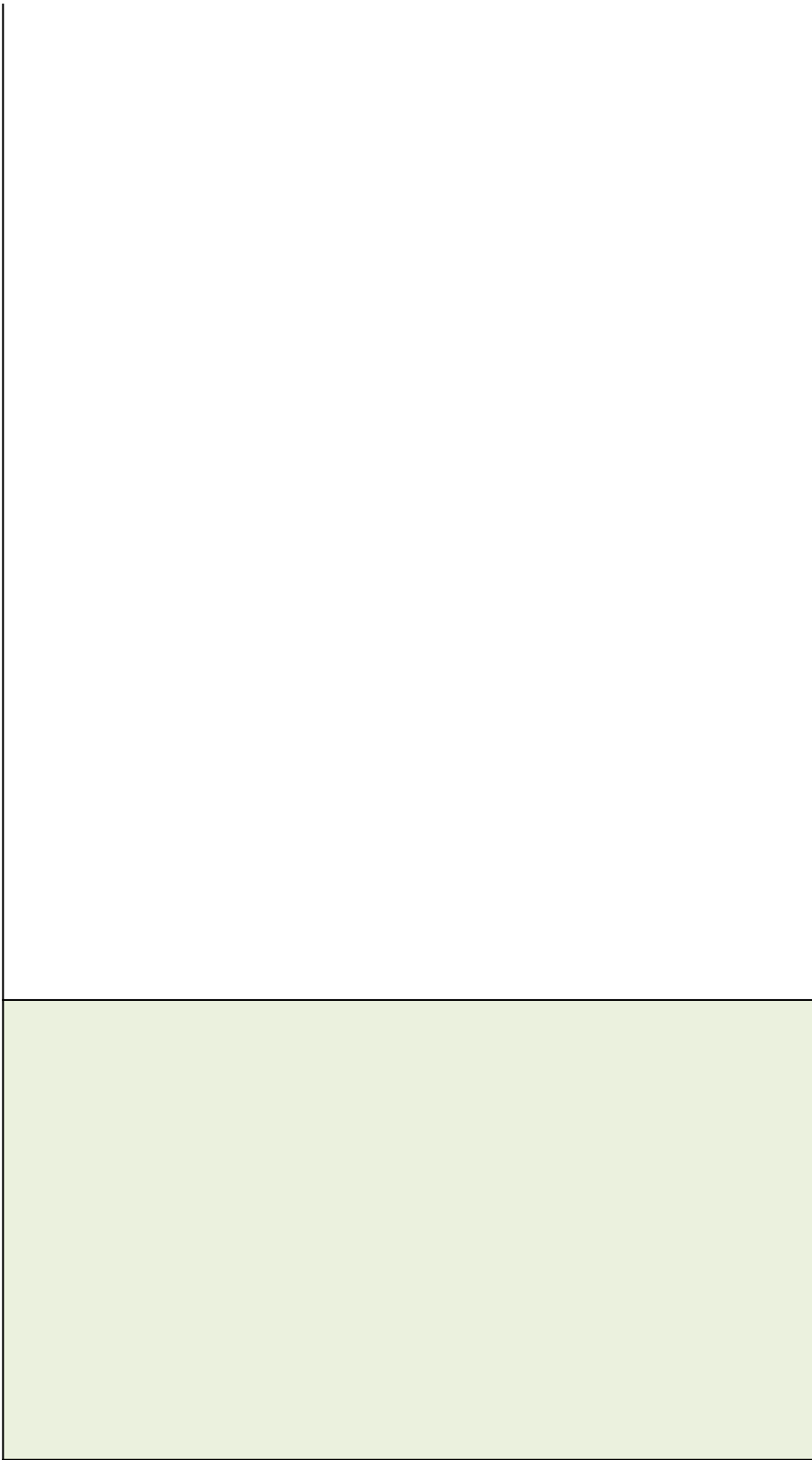
Month: \_\_\_\_ \_\_\_\_

Day: \_\_\_\_ \_\_\_\_

**FINAL HELP TEXT**

Help text is in red.


Axles are long steel rods that run parallel with the front and rear bumpers and have wheels attached to them.

- o Adaptive Cruise Control (Assists with acceleration and/or braking to maintain a prescribed distance between it and a vehicle in front. Some systems can come to a stop and continue.)
- o Active Driving Assistance (Assists with vehicle acceleration, braking and steering. Some systems are limited to specific driving conditions. Driver is responsible for primary task of driving.)
- o Lane Keeping Assistance (Assists with steering to maintain vehicle within driving lane.)
- o None of the above

- o Blind Spot Warning (Detects vehicles to rear in adjacent lanes while driving and alerts the driver to their presence.)
- o Forward Collision Warning (Detects impending collision while traveling forward and alerts driver. Some systems include pedestrian or other object detection.)
- o Lane Departure Warning (Monitors vehicle's position within driving lane and alerts driver as the vehicle approaches or crosses lane markers.)
- o Parking Obstruction Warning (Detects obstructions near vehicle during parking maneuvers.)
- o Rear Cross Traffic Warning (Detects vehicles approaching from the side and rear of vehicle while traveling in reverse and alerts driver.)
- o None of the above



- o Automatic Emergency Braking (Detects potential collision while traveling in reverse and automatically applies the brakes to avoid or lessen the severity of impact. Some systems include pedestrian or other object detection.)
- o Automatic Emergency Steering (Detects potential collision and automatically controls steering to avoid or lessen the severity of impact. Some systems include pedestrian or other object detection.)
- o Rear Automatic Emergency Braking (Detects potential collision while traveling in reverse and automatically applies the brakes to avoid or lessen the severity of impact. Some systems include pedestrian or other object detection.)
- o None of the above

- o Active Parking Assistance (Controls steering and potentially other functions during parking. Driver may be responsible for acceleration, braking and gear position. Some systems are capable of parallel and/or perpendicular parking.)
- o Remote Parking (Parks vehicle without driver being physically present inside the vehicle. Automatically controls acceleration, braking, steering and shifting.)
- o None of the above

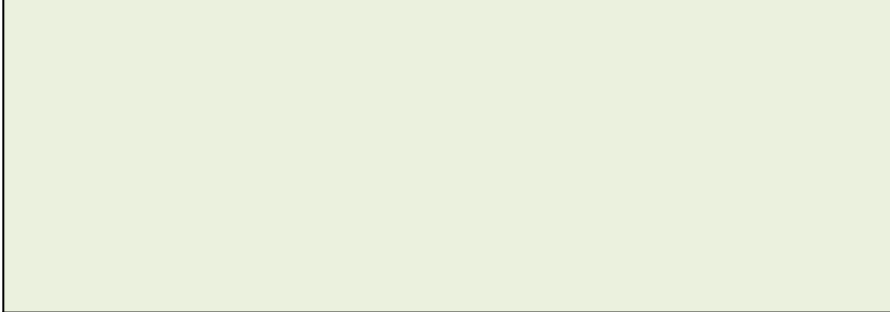
- o Automated High Beams (Switches between high and low beam headlamps automatically based on lighting, surroundings and traffic.)
- o Backup Camera (Provides view of area behind vehicle when in reverse. Could include trailer assistance, a system that assists drivers during backing maneuvers with a trailer attached.)
- o Driver Monitoring (Monitors drivers to determine if they are actively engaged in the task of driving. Some systems monitor driver's eye movement and head position.)
- o Head-Up Display (Projects image of vehicle data and/or navigational info into the driver's forward line of sight.)
- o Night Vision (Aids driver vision at night by projecting enhanced images on instrument cluster or head-up display.)
- o Surround-View Camera (Uses cameras located around vehicle to present view of surroundings.)
- o None of the above



Towing capacity depends on the exact model and/or any aftermarket modifications. Information about towing capacity can be found in the vehicle manual, online, or calculated from the information inside the door.



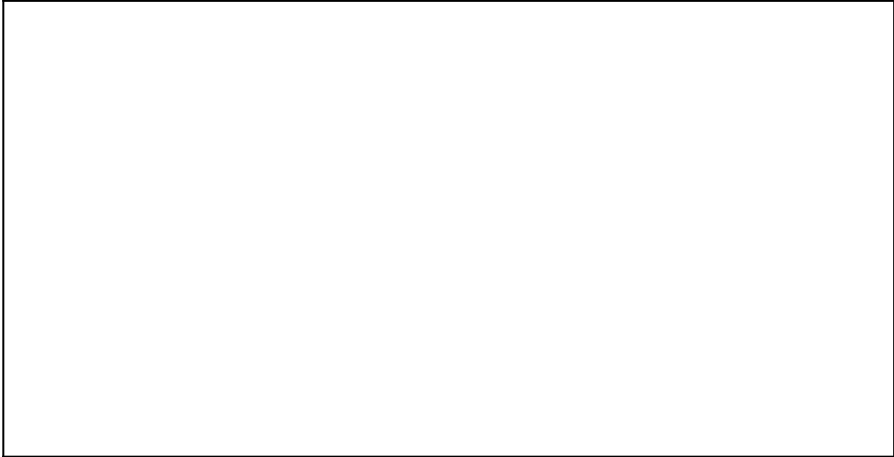
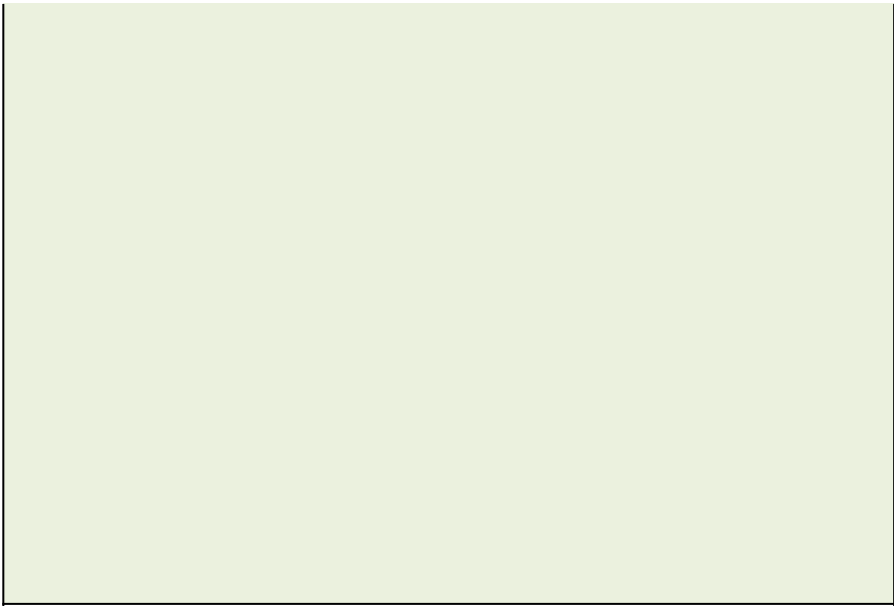

A dolly is an unpowered vehicle designed for connection to a tractor unit, or truck.



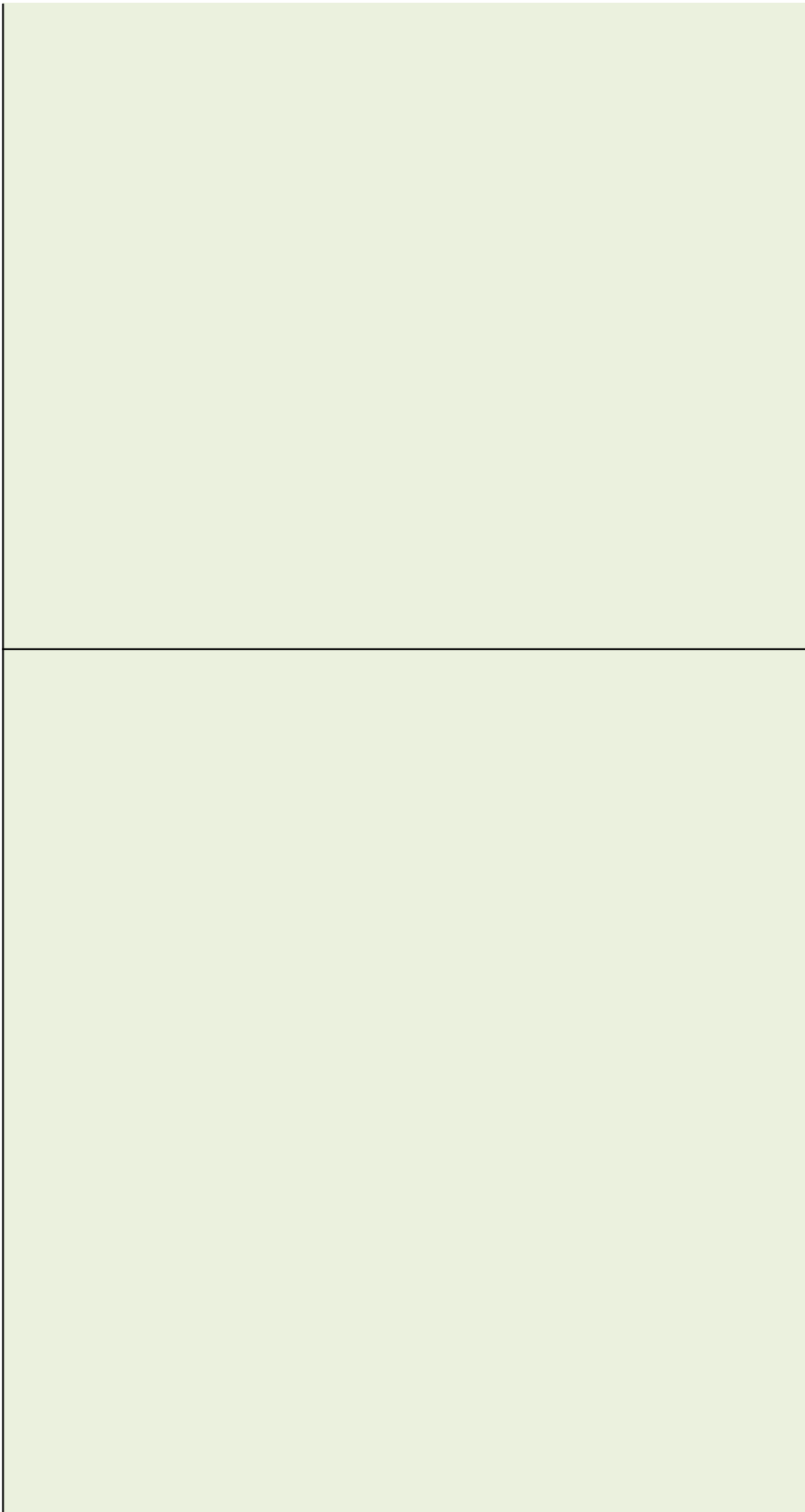




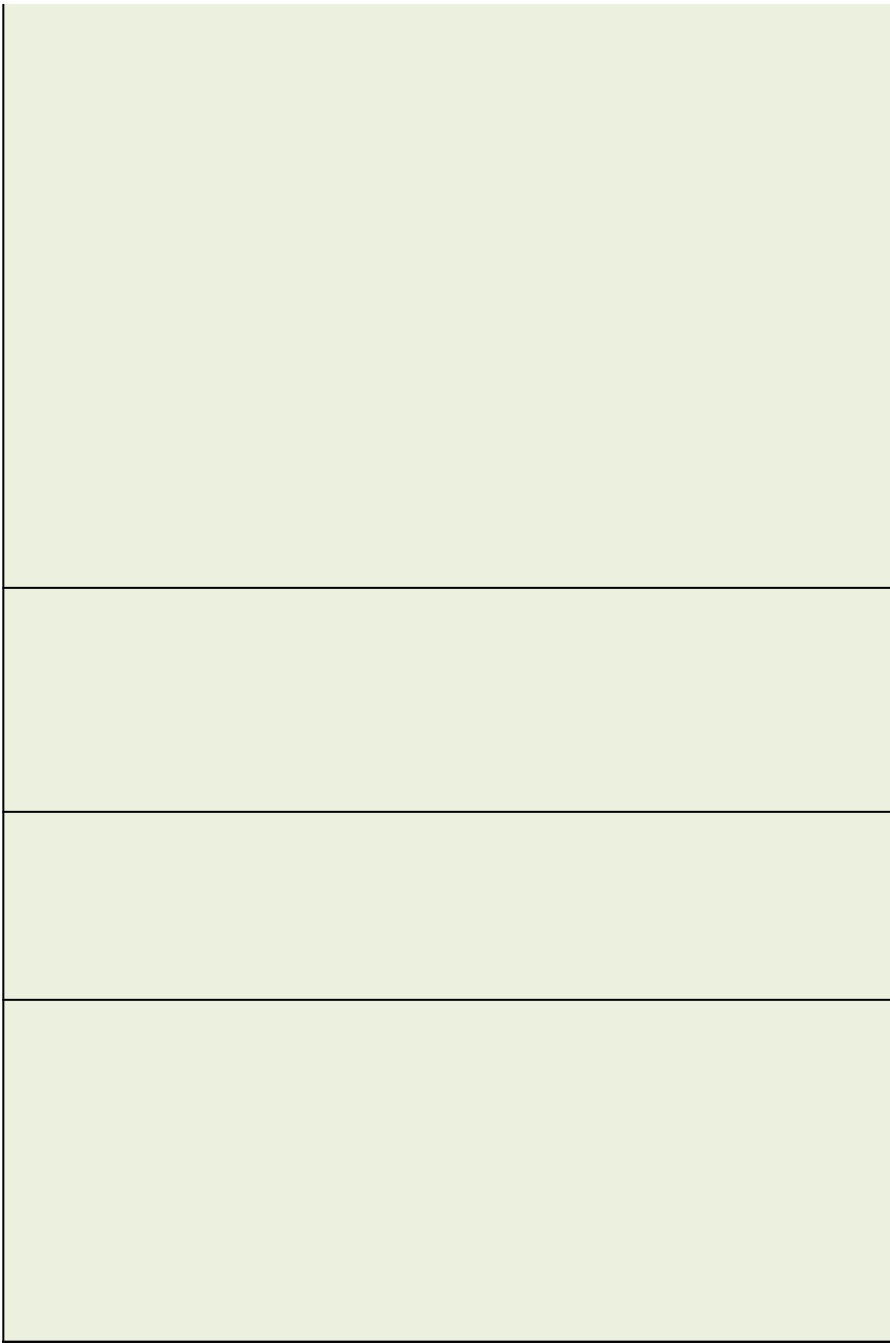






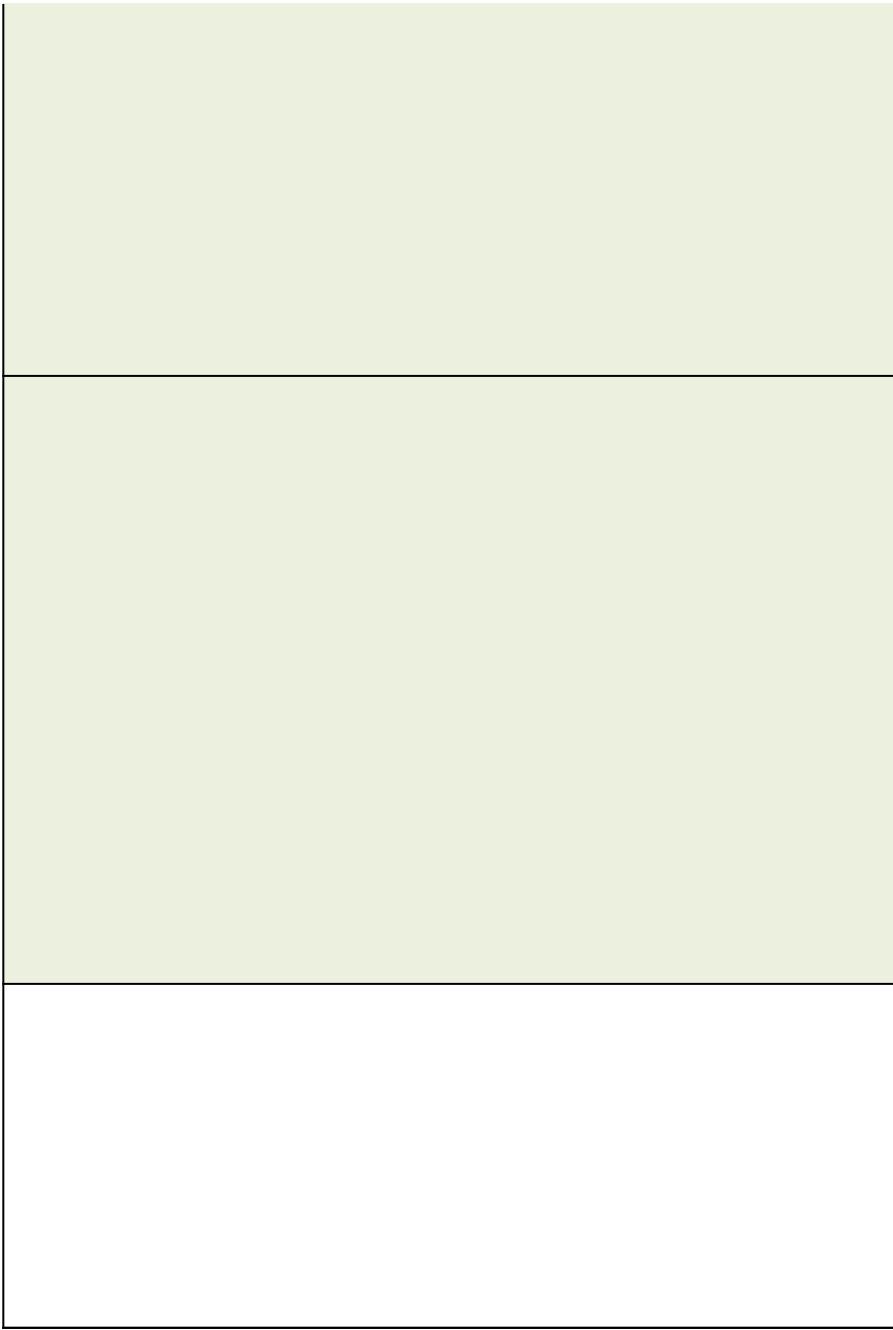



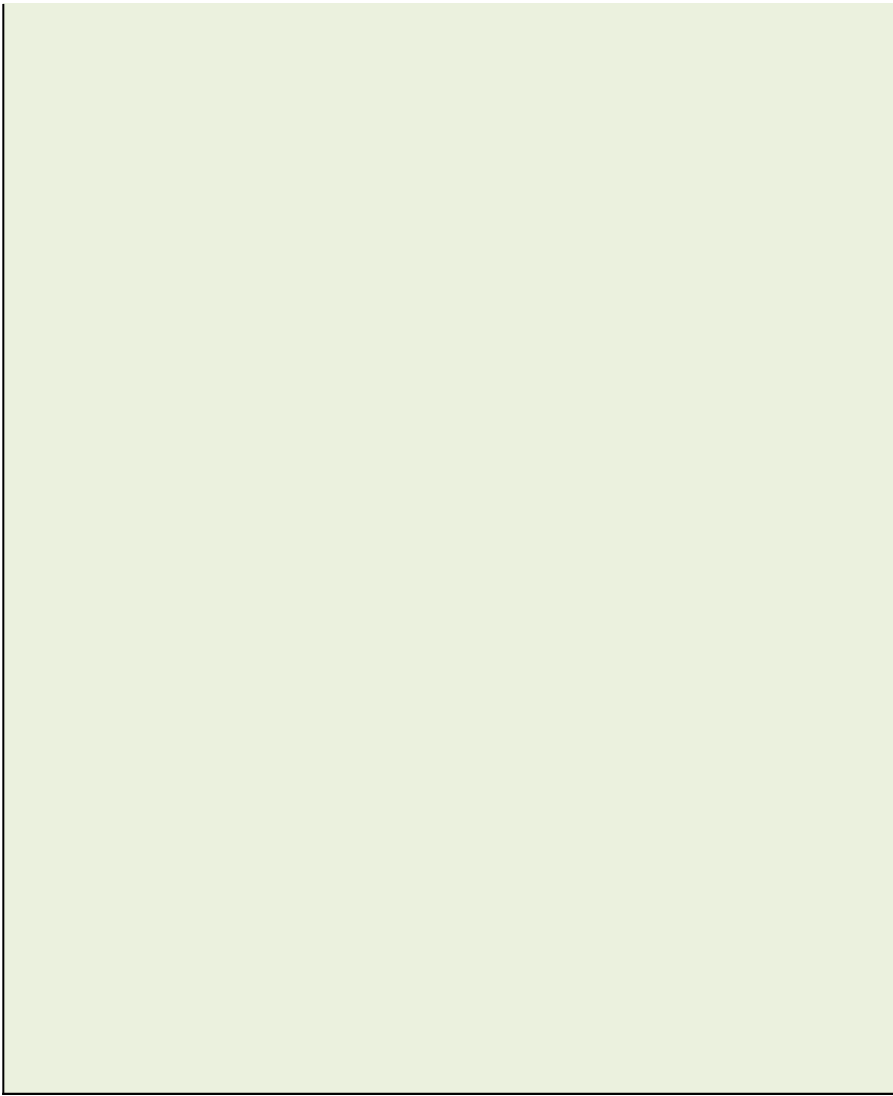


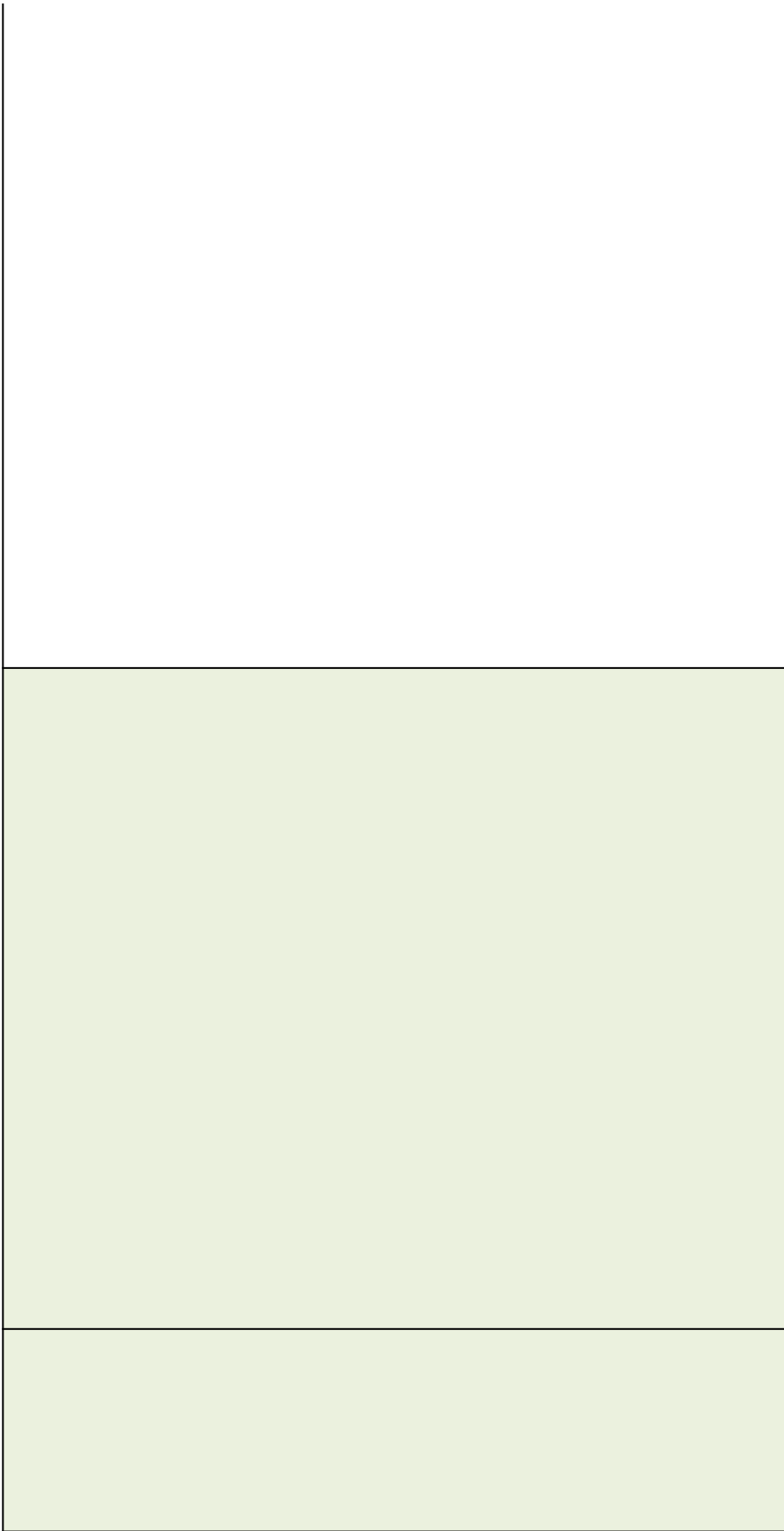


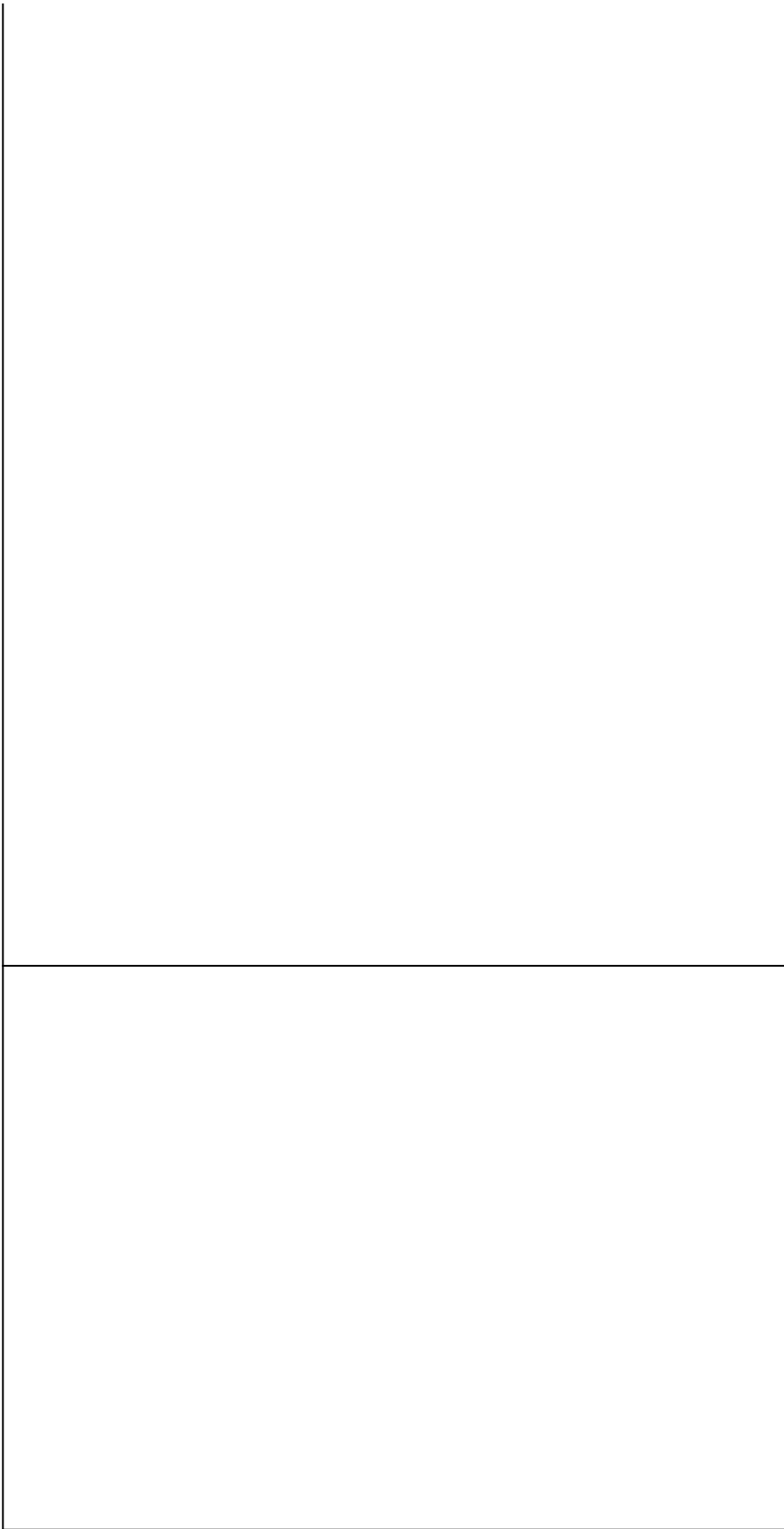












**NOTES**

**Original questions for BTS**

Respondents tended to see "your company" only. Revised text to emphasize your OR your company.

Note for Census: How will this look on the electronic form? Does "vehicle identified above" still make sense?

\*Note for Census: I think disposed trucks were still tabulated in 2002, should they be? Can we identify them better.

\*Note for Census: Check consistency across variables for "Mark only ONE" and "Mark all that apply"

3/4/2020: I moved Mark ONE box only to the bottom. GT

1. obtain - does this include bought, leased, gifted? The italicized note is very confusing. Can you lease but not take possession of car immediately?
2. BTS: Do we really need month and year?  
(this is not "model year" - I assumed the 2002 tables had to have used the Polk data to get that?) Does this determine in/out of scope?
3. BTS: we really need to know the purpose of this question

Note for Census: We should review this in the pilot. We had about 6 million not reported in 2002. Why did they leave it blank?

6/9/2020: Removed "Mark ONE box only." from Yes/No question.

1. Ownership Leasing? Question had almost 50% missing in 2002. It was higher for pickups/etc. than for the 9502 trucks. That note might be confusing people, or the question wording. (Was the vehicle BEING leased during 2020?)

2. We need to understand the purpose of the question: why is this info important for these trucks? Is this a commercial use issue? Why is only leasing important and not owned or financed from dealership/bank?

3. Why is this series of leasing questions different from the 9502? We asked term and what's included in 9502.

NOTE. Source from DMV website: If you register this vehicle and lease it to a person or company that doesn't hold intrastate operating authority, you must complete the For-Hire Vehicle Registration Request form.

Also, Since 7/15/98 DMV require leasing company to report them monthly whether or not the vehicle being leased by a natural person for non-business purposes which require lessee to pay the personal property tax qualify for tax relief. Since Polk gets registration data from DMV which contain leasing info, I think this question might be asked to confirm the info we received.

6/2/2020: BTS Decision:

- Consider changing 'someone else' to 'another person or company' in both D1 and D2.

6/9/2020: Removed "Mark ONE box only." from Yes/No question.

can these type of truck owners lease their trucks to someone else?

6/2/2020: BTS Decision:

- Consider changing 'someone else' to 'another person or company' in both D1 and D2.

6/9/2020: Removed "Mark ONE box only." from Yes/No question.

3/3/2020: Per Kelly, Revised to past tense. GT

6/2/2020: BTS Decision:

- Add 'Vehicle' to 'Sport Utility' category.
- Add Jeep as an option and code it back in to the proper strata.

Notes for Census:

No trucks on this form had 3 axles in 2002. See if that changed in pilot. Can we just recode all trucks on this form as having 2 axles and not ask question in production?

Compare question and "Note" between forms to make sure they are consistent.

3/3/2020: Per Kelly, Revised to past tense. GT

6/2/2020: BTS Decision:

ADD HELP TEXT: Axles are long steel rods that run parallel with the front and rear bumpers and have wheels attached to them.

3/3/2020: Per Kelly, Revised to past tense. GT

3/5/2020: Added "Mark ONE box only". GT

confusing for switchable front/rear wheel drive;  
BTS: does "(powered)" have to be there?

3/3/2020: Per Kelly, Revised to past tense. GT

3/5/2020: Added "Mark ONE box only". GT

Issues we still have to deal with later:  
do we have many electric SUVs now (we will by 2022)? They don't have transmissions. Can they answer these categories? What about hybrids?

\*\*Note for Census: compare with 9502  
We added "Other" to see if we can collect information in the pilot. We know there were missing responses in 2002 but don't know why.

1. do we have electric pickups/SUVs now (we will by 2022)? They don't have gears. Can they answer this question? What about hybrids?
2. BTS: respondent mentioned "Continuously variable transmissions/shiftless transmissions" during cognitive testing -- how to handle those? Do they count drive, neutral, reverse -- most people don't know # of DRIVE gears
3. can this be derived some other way?



1. BTS: how important is the word "permanent" here because it was confusing? We removed it.
2. The word "permanent" stuck out to people. Help text or examples. In electronic, followup with "is this permanent" for things that could possibly be temporary
3. BTS: do all these categories make sense for these kinds of trucks? About half of the list confused respondents.
4. BTS: What is "Computerized drive train control unit"? AND how do we know that the vehicle has this equipment without looking into the manufacture manual? When we Googled that term, it found a lot of PCM (Powertrain Control Module) which is a computer that manages or monitors the engine's ignition system, fuel injection, emissions, mechanical positioning of the rotating assembly, exhaust system, transmission and other function relate to transmission. Could it be that we want to capture one or more electronic system? If yes, should we replace it with "Electronic control unit(ECU)"?
5. BTS: Is it important to distinguish the low rolling tires between drive/steering wheels? Are those the same thing if you have front wheel drive? This will probably be confusing.
6. BTS: Can someone verify that everything o 9501 applies to these trucks and nothing that is on 9502 is missing from these trucks (if the equipment could apply)?
7. BTS: Why do we ask a separate "braking system" on 9502 but not on 9501?

2/28/2020 : removed this question base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

2/28/2020 : added this question base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/4/2020: Revised this question base on "New Content Final 03\_03\_20". GT

6/2/2020:

BTS Decision:

- Driver-Facing Camera.
- Global Positioning System (GPS), without navigational aid
- Add None of the Above.
- All items are needed.

2/28/2020 : Added this question base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/4/2020: Revised this question base on "New Content Final 03\_03\_20". GT

6/2/2020: BTS Decision:  
FHWA replaced this question with new 5 questions.

6/2/2020: BTS Decision:

- FHWA Provide question text and category text.
- Add None of the Above.
- All items are needed.

6/2/2020: BTS Decision:

- FHWA Provide question text and category text.
- Add None of the Above.
- All items are needed.

6/2/2020: BTS Decision:

- FHWA Provide question text and category text.
- Add None of the Above.
- All items are needed.

6/2/2020: BTS Decision:

- FHWA Provide question text and category text.
- Add None of the Above.
- All items are needed.

6/2/2020: BTS Decision:

- FHWA Provide question text and category text.
- Add None of the Above.
- All items are needed.

2/28/2020 : added this question base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/4/2020: Revised this question base on "New Content Final 03\_03\_20", moved from F8 to F7. GT

6/2/2020: BTS Decision:  
• Add None of the Above.

2/28/2020 : added this question base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/4/2020: Revised this question base on "New Content Final 03\_03\_20", moved from F7 to F8. GT

6/2/2020: BTS Decision:  
• Remove 'bobtail' from this question.  
• Remove transponder  
• Add 'None of the above' answer choice.

2/28/2020 : added this question base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/4/2020: Removed this question base on "New Content Final 03\_03\_20". GT

1. BTS: respondents don't know this off-hand. Can this be derived some other way? Do we care about towing capacity of vehicles that never tow anything?
2. should this be in the trailer section instead to only ask people with trailers?

Note for Census: evaluate missing rates from pilot

6/2/2020: BTS Decision:

BTS Decision:

• HELP TEXT:

• Towing capacity depends on the exact model and/or any aftermarket modifications. Information about towing capacity can be found in the vehicle manual, online, or calculated from the information inside the door.

1. We want to move from E section to F section to match 9502. Makes more sense in physical characteristics.
2. BTS: Is this interior or exterior height? Several people asked in cognitive interviews.

6/2/2020: BTS Decision:

Revise question text:

What was the height of this vehicle's cabin (measured from the ground to the top of the roof)? Include and equipment that extends above the roof of the cabin such as an antenna, a fairing, or a smoke stack.

~~\*\* new question added per BTS request for the 9501 form only~~

We want to reverse the original order of these questions; and then skip "reasons" if they select 12 months.

Note for Census: There is a footnote in Table 6 about adjusting miles for partial-year ownership. That must use this question-we need to figure out how.

**If you use truck 10-12 months, you don't have to answer next question. Categories need to be reviewed. such as 7-9 month, 10-12 month, lower categories can stay. Are these categories meaningful to someone?**

- o 10-12 months (skip to Home Base section)**
- o 7-9 months**
- o 2-6 months**
- o 1 month or less**
- o Vehicle not used (no miles driven)**

BTS: This wasn't tabulated in 2002. Why is this asked?

1. remove question(combine with H3 and change to H1)
2. BTS: is there a better example of what trucks might not have a home base for these types of vehicles? This mentions truck tractors and one way rentals.
3. If the "lessee" question earlier doesn't apply to these trucks, that note needs to be removed too.

move from H3 to H1

Note for Census: Insert the correct skip for "no home base"

2/28/2020 : added this question base on "New questions from  
BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/3/2020: Per Kelly, revised question to past tense. GT

1. move after #3
2. BTS: why is the July 1 reference in there? Will this apply in 2022?
3. this was not tabulated in 2002.

1. for some reason in 2002, you could have an answer of zero for FLEET SIZE. Not sure how that is possible if you count the one truck that is part of the survey. Could be an issue with the question wording-how many OTHER trucks?
2. BTS: do we count private use vehicles? such as spouse's vehicle
3. If this is for commercial ONLY, can we move it to a different section?
4. BTS: this was not tabulated in 2002. What is the purpose of this question if the registered vehicle is not a commercial vehicle?

3/3/2020: Per Kelly, revised question to past tense. GT

3/11/2020: Per pilot 9502 round 1, respondents don't know what "All other truck" refer to. Revised it to "Any other truck or van".  
GT

6/2/2020: BTS Decision:

- Add 'No other vehicles at this home base' check box.
- HELP TEXT: A dolly is an unpowered vehicle designed for connection to a tractor unit, or truck.

6/2/2020: BTS Decision:

- Revise question: "How many total miles was this vehicle driven in 2020?"

Respondents want to check more than one category

6/2/2020: BTS Decision:

- Change 'Gas receipts' to 'Gas or fuel receipts.'



1. BTS: can any of these trucks operate on compressed natural gas? or is this note only relevant for form 9502? If not remove that note.

2. BTS: What about hybrids and all electric cars? Is there some equivalent to MPG for electric or hybrid cars that needs to be measured?

Note for Census: electric vehicles will need to be identified earlier and skip over this question. We don't ask about electricity as fuel until after this section.

Respondents want to check more than one category

6/2/2020: BTS Decision:

- Change 'Gas receipts' to 'Gas or fuel receipts.'

1. The word jurisdictions might confuse people.

2. Re-sort categories by how common.

3. Add note "Percents should sum to 100%"

1. reorder "Trips off-the-road:"
2. BTS: Why do we specify "public/private" and not just ON the road and OFF the road?
3. Add note that this should add to 100%
4. BTS: What does "off the road" mean?
5. We added % signs for consistency
6. BTS: should we keep note: "If this vehicle does not operate from a home base, report the average range of operation." -- What are they measuring the distance from if there is no home base?

3/11/2020: Per pilot 9502 round 1, respondents find it's very difficult to estimate % of mileage w/current detail response categories. Most respondents also don't know or have different definition of off-the-road. We decided to remove "off-the-road" and collapse the response categories into three categories. GT

6/2/2020: BTS Decision:  
Census – fix the Q wording to be consistent with others about mileage "what percent of vehicle's 2020 mileage..."

6/2/2020: BTS Decision:  
BTS – want this to be a separate question.

1. BTS: does this question make sense for these trucks? Can they have an APU? Should this only be on 9502?
2. BTS: respondents might not understand what idling means. Is stopping at the red light consider idling? Is parking consider idling? And also don't know what the auxiliary power is.

Notes for Census:

Review missing rates in pilot

Why is this in the "Miles" section? It has nothing to do with miles.

3/11/2020: Per Ken, it's ok to remove b/c it does not apply to 9501. GT

address this question in more detail later. We also do not capture electric/hybrids in fuel location question.

"electricity" is not detailed enough

3/3/2020: Per Kelly, revised question to make it consistent through out the form. GT

Note for Census: Should we change to "gas station/convenience stores"? Looks like that might have been a write in that was edited in 2002. We need to check pilot write ins.

Note for census: Review all questions for the word "typically" - maybe change to "most frequently" or something

3/3/2020: Per Kelly, revised question to make it consistent through out the form. GT

Note for Census: The reordering of this list requires us to deal with this in post processing to match 9502.

3/3/2020: Per Kelly, revised question to make it consistent through out the form. GT

Note for Census: format paper form to make it clear -- add comma and .00, etc. Restrict electronic form to whole dollars.

3/3/2020: Per Kelly, revised question to make it consistent through out the form. GT

6/2/2020: BTS Decision:

- Add clarification (over \$500), remove examples.

6/9/2020: Removed "Mark ONE box only." from Yes/No question.

Note for Census: The reordering of this list requires us to deal with this in post processing to match 9502.

02/28/2020: Per Stefanie, for general maintenance we ask who did maintenance and then cost. For extensive we ask cost and then who did repairs. I reodered the quesiton to make it consistence.

6/2/2020:

Census: Remove "EXTENSIVE" to make it consistent with question above. GT

Note for Census: format paper form to make it clear -- add comma and .00, etc. Restrict electronic form to whole dollars.

02/28/2020: Per Stefanie, for general maintenance we ask who did maintenance and then cost. For extensive we ask cost and

<p>Note for Census: check the skip patterns</p> <p>3/11/2020: Per pilot round 1, respondent suggested overhaul b/c most of his vehicles overhaul. GT</p>
<p>3/11/2020: Make it consistent w/J8. GT</p>
<p>2/28/2020: added per note in Cell L65 in 9502 spreadsheet. (add to help skip patter) GT</p>
<p>Note for Census: We are missing the question K2 from 2002 (variable name TRAILER) since we pulled this from the cog testing sheets. We need that on the actual paper form-it has the skip patterns in it.</p> <p>6/2/2020: BTS Decision: Replaced this question with two new questions. GT</p>
<p>6/2/2020: BTS Decision: Consider including a screener question at the beginning of section K and replacing this question with a yes/no question.</p> <ul style="list-style-type: none"><li>o K1 "In 2020, was this vehicle used to pull a trailer? Trailer mounted equipment should be treated as a trailer."<ul style="list-style-type: none"><li>o Yes</li><li>o No</li></ul></li><li>o K2 (if yes to K1) "In 2020, did this vehicle pull a trailer for more than half of all miles driven? Trailer mounted equipment should be treated as a trailer."<ul style="list-style-type: none"><li>o Yes, this vehicle pulled a trailer for more than 50% of all miles driven.</li><li>o No, this vehicle pulled a trailer for less than 50% of all miles driven.</li></ul></li><li>o Answering no could allow Rs to skip past certain questions, or would allow them to view versions of questions without the phrase 'most common configuration' in the electronic version.</li></ul>

6/2/2020: BTS Decision:

Consider including a screener question at the beginning of section K and replacing this question with a yes/no question.

o K1 "In 2020, was this vehicle used to pull a trailer? Trailer mounted equipment should be treated as a trailer."

o Yes

o No

o K2 (if yes to K1) "In 2020, did this vehicle pull a trailer for more than half of all miles driven? Trailer mounted equipment should be treated as a trailer."

o Yes, this vehicle pulled a trailer for more than 50% of all miles driven.

o No, this vehicle pulled a trailer for less than 50% of all miles driven.

o Answering no could allow Rs to skip past certain questions, or would allow them to view versions of questions without the phrase 'most common configuration' in the electronic version.

1. BTS: are these trailers all relevant for these types of trucks?

2. What if they have an RV? If that is not a "trailer" then it probably needs to be more clear in the "do you use a trailer" question so they don't say YES if all they tow is an RV.

3/1/2020: Move from K5 to K3 and make this question the same question as in 9502 for consistency. (ask axle then length) GT

3/1/2020: Make this question the same question as in 9502 for consistency. GT

1. BTS: Are all of these things relevant for these types of trucks?
2. If yes, Should we add "None of above" and "Other - Please specify....."? In case we didn't capture all new add on equipment

Note for Census: Review None and Other in pilot.

6/2/20: Census - correct spelling faring to fairing. GT

1. Change category back to "Other....." because it needs to be combined with form 9502.
  2. BTS: Why is this a categorical response with such strange ranges?
  4. BTS: why do we need this much detail?
  5. BTS: are the skip patterns correct?
- Note to Census: Fix cog testing worksheets so all responses go to Question 3

6/2/2020: BTS Decision:  
Consider insert year, make, and model to electronic instrument.

6/15/2020: Stef recommend refering to paper question if respondent didn't answer question 1. I agree. Kelly think we should treat it as the respondent answer is no. However, she is ok if Stef and I agree to refer to paper question. We can test it out in Pilot. GT

change back to  
Other\_\_\_\_\_ (please specify)

can't combine with 9502 if it is close ended

change back to  
Other\_\_\_\_\_ (please specify)

can't combine with 9502 if it is close ended

3/11/2020: Removed this question b/c empty weight plus payload equal to this question. GT



BTS: people don't understand avg payload. Does this include you, passenger, pet, luggage? Mentions trailer even if you said you don't have one.

Notes for Census:

Verify skip patterns for trailers, etc to make sure we don't accidentally bounce over this series. Make sure this is the right placement.

Make sure all questions with measurements have note about "round to nearest whole....whatever"

6/2/2020: BTS Decision:

Per Cha-chi's email on 6/4/2020, the passenger weight wouldn't be included.

BTS: what is the difference between cargo and payload?

6/2/2020: 6/2/2020: BTS Decision:

Per Cha-chi's email on 6/4/2020, the passenger weight wouldn't be included.

1. BTS: does this question make sense for these trucks?

3/3/2020: Per Kelly, Fed Hwy said only Truck Tractor get overweight permit. Will remove this question. GT

1. This question is going to be confusing for owners of these kinds of trucks because of the "trucker" language borrowed from 9502.
2. We reworded the answers to make sure all the types of ways people use these trucks for business are covered here (eg, Uber).

Note to Census: If rentals is highest % in question above & they skip over this question then who checks "vehicle leasing or rental" here? The order of these questions is different on the old 9502 and that needs to get corrected because they select business before opclass and don't have that skip for rental. Messes up results.

2. BTS: Where would snowplows go? - other services

3. Revise categories base on OPTION 2 "Approved Business Section 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/3/2020: Per Kelly, revised question to past tense. GT

3/11/2020: Per pilot 9502 round 1, respondent can't find HVAC, Plumbing, electrician which these are common term for them. Added it to prevent respondent pick wrong category or not answer. We can recode this later. GT

6/2/2020: BTS Decision:

- Consider changing instances of 'your business' to 'this business.'
- Add advertising to 'Other services,' which is the NAICS industry it would fall into.

6/2/2020: BTS Decsion:

- Remove note about adding to 100%.

BTS: This question is repetitive to the new question (below) about cubed out/weighed out. If question I8 is not relevant for these trucks, we need to keep this question. Also see note below.

2/28/2020 : Removed base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

1. BTS: does this question make sense for these trucks? Should this only be on 9502?

2. BTS: Should we keep the original language from 2002 (question above) and delete this question instead if it does not pertain to these trucks?

Empty: \_\_\_\_\_%

Loaded: \_\_\_\_\_%

4. Suggest rewording question to:

What was the approximate percent of miles driven by type of trips listed below?

**NOTE:** Round to the nearest whole percent.

5. BTS: If the question on 9501 is different from 9502, we will not be able to combine this into one variable so we need to understand what is being measured here. Is it necessary to know loaded/empty for these trucks?

2/28/2020 : added this question base on "New questions from BTS 2\_13\_20" in ECON\_SHARE\VIUS\2022 VIUS\Coordination. GT

3/11/2020: Per pilot round 1, no one know cube out/weight out mean. need clearer wording. GT

6/2/2020: BTS Decision:

Repleced this question with 3 new questions.

6/2/2020: BTS Decision:

o Bring back O1: "What was the approximate percent of this vehicle's 2020 mileage for each of the following categories?"

o Empty - NOT CARRYING any products, tools, equipment, or materials: \_\_\_\_\_% (If you report 100% empty, go to Section O - Contact Information)

o Loaded - CARRYING products, tools, equipment, or materials: \_\_\_\_\_%

o Add new O2: "What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to physical capacity (cubed out)? Round to the nearest whole percent.

o Vehicle was filled to physical capacity (cubed out): \_\_\_\_\_%

o Add new O3: "What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to weight limit (weighed out)? Round to the nearest whole percent.

o Vehicle was filled to weight limit (weighed out): \_\_\_\_\_%

6/2/2020: BTS Decision:

o Bring back O1: "What was the approximate percent of this vehicle's 2020 mileage for each of the following categories?"

o Empty - NOT CARRYING any products, tools, equipment, or materials: \_\_\_\_\_% (If you report 100% empty, go to Section O - Contact Information)

o Loaded - CARRYING products, tools, equipment, or materials: \_\_\_\_\_%

o Add new O2: "What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to physical capacity (cubed out)? Round to the nearest whole percent.

o Vehicle was filled to physical capacity (cubed out): \_\_\_\_\_%

o Add new O3: "What was the approximate percent of this vehicle's 2020 mileage that this vehicle was filled to weight limit (weighed out)? Round to the nearest whole percent.

o Vehicle was filled to weight limit (weighed out): \_\_\_\_\_%

6/2/2020: BTS Decision:

o Bring back O1: "What was the approximate percent of this vehicle's 2020 mileage for each of the following categories?"

o Empty - NOT CARRYING any products, tools, equipment, or materials: \_\_\_\_\_% (If you report 100% empty, go to Section O - Contact Information)

o Loaded - CARRYING products, tools, equipment, or materials: \_\_\_\_\_%

Note for Census: We are missing the question O2 from 2002 (variable name P\_EMPTY100). We need to have that on the actual paper form. That Q was incorporated into the note in the deleted Q above and it has the skip patterns in it.

2. Example might be a problem.

3. In electronic form, let them select all high level codes (in bold on paper) first and then use that shorter list to fill in the percentages.

3/3/2020: Per Kelly, revised question to make it consistent through out the form. GT

3/11/2020: Per pilot round 1, recommend simplify this question. \*\*use something similar to NAPCS example\*\*

Percentages can add to more than 100% if more than one product was carried at the same time.

6/2/2020: BTS Decision:

- LOADED MILES is not the same as commercial miles. Do not bring the word commercial into this question.
- Revised stem: "In 2020, for the miles driven while carrying a load, what percentage of those "loaded miles" were driven while carry the following products, tools, equipment, or materials?"

**BTS RESPONSE**


yes, keep month



yes

Revisit to see if any trucks on this form can have 3 axles. None in 2002 data.

no

BTS will look into why this is needed on this form. Let us know if we can delete it for sure from 9501.

OBD2 mandates?

Get back to Census with what categories should be here and what the data are used for




Look into Polk data to see if it is included - not in data dictionary  
Don't know how else we can derive it.  
Care about for all vehicles.

exterior height




Revisit after we talk to sampling group to see if Polk data pull is a factor in this question.

all vehicles, not just commercial

Yes, compressed gas is relevant.

BTS will look into the question wording for electric equivalents even if we cannot add a question now


yes it applies

rethink this for electric vehicles, there is no category for charging stations



BTS will look into all the categories to make sure they make sense for these trucks



Might not all be relevant but adding "None" and "other" on pilot might tell us more.

Yes, skip patterns were an error

Ranges are intentional but can BTS look into whether the reasons are still relevant now?

provide help text

provide help text

Don't make changes to the responses

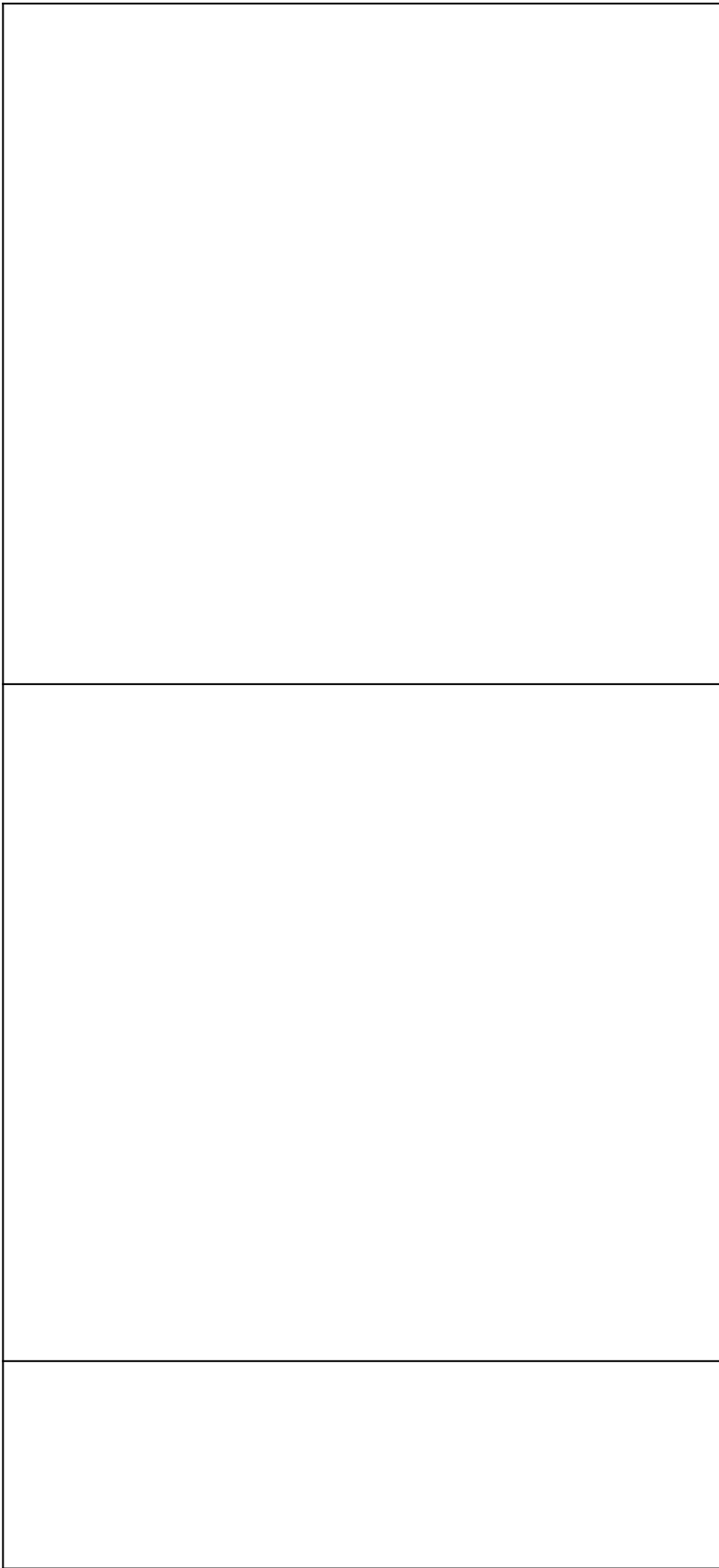
--

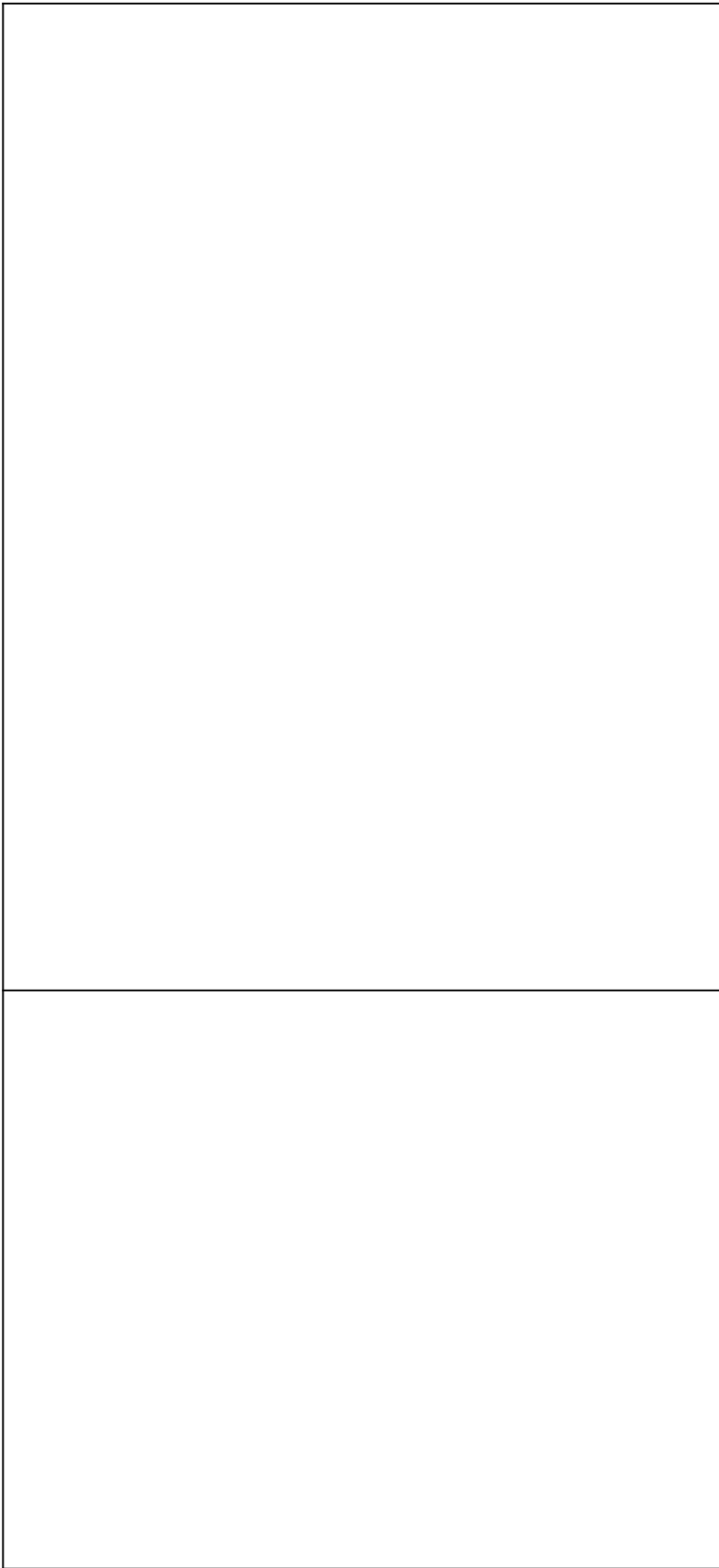
--

Will review this question and the one below to determine which makes more sense on this form. (what is being measured?)

Is this new question specific to mileage?

Note from Census: The original Q was in the Products section in 2002 and was used to determine the skip to the products question. If we move it to Mileage, we are going to mess up who answers Products. If you answer 100% empty way up in Section I, it will be hard to set up a skip pattern. It makes more sense in it's original location.







If the variable was listed in the ORNL report  
5 = critical to research

RESEARCH PLAN Things we want to review in pilot data	BOTH PERSONAL AND COMMERCIAL USE (per BTS 7/1/20)	COMMERCIAL USE ONLY (per BTS 7/1/20)
	X	
Should we tabulate the disposed trucks? If yes, How?	X	
	X	
	X	

	X	
We had about 6 million not reported in 2002(Table 2a). Why did they leave it blank?	X	
Question had almost 50% missing in 2002. It was higher for pickups/etc. than for the 9502 trucks. Old question wording might be confusing people.		X

<p>can these type of truck owners lease their trucks to someone else? How many say yes?</p>		X
	X	
<p>No trucks on this form had 3 axles in 2002. See if that changed in pilot. Can we just recode all trucks on this form as having 2 axles and not ask question in production?</p>	X	
	X	

	X	
<p>do we have many electric SUVs now (we will by 2022)? They don't have transmissions.</p> <p>Can they answer these categories?</p> <p>What about hybrids?</p> <p>We know there were missing responses in 2002 but don't know why.</p>	X	

	X	

	X	
	X	

	X	
	X	
	X	

	X	
	X	



<p>Can this be derived some other way?</p> <p>How many people who do not attach trailers leave this blank?</p> <p>How many report "0"?</p>	X	
	X	

There is a footnote in Table 6 about adjusting miles for partial-year ownership. That must use this question-we need to figure out how.

X

X

	X	
	X	

	X	
	X	
	X	

<p>Review electric vehicles in pilot. can any of these trucks operate on compressed natural gas? or is this note only relevant for form 9502? If not remove that note.</p> <p>What about hybrids and all electric cars? Is there some equivalent to MPG for electric or hybrid cars that needs to be measured?</p> <p>electric vehicles will need to be identified earlier and skip over this question. We don't ask about electricity as fuel until after this section.</p>	X	
	X	
		X

		X
		X
	X	

address this question in more detail later. We also do not capture electric/hybrids in fuel location question. "electricity" is not detailed enough	X	
Should we change to "gas station/convenience stores"? Looks like that might have been a write in that was edited in 2002. We need to check pilot write ins.	X	

	X	
	X	
	X	
	X	
	X	



	X	
	X	
	X	

	x	

	X	
	X	
Are all of these things relevant for these types of trucks? Review None and Other in pilot.	X	

	X	
	X	
	X	

	X	
	X	
	X	

<p>If rentals is highest % in question above &amp; they skip over this question then who checks "vehicle leasing or rental" here?</p> <p>The order of these questions is different on the old 9502 and that needs to get corrected because they select business before opclass and don't have that skip for rental. Messes up results.</p> <p>Where would snowplows go? - other services</p> <p>Per pilot 9502 round 1, respondent can't find HVAC, Plumbing, electrician which these are common term for them. Added it to prevent respondent pick wrong category or not answer. We can recode this later.</p>		X

		X
		X

--	--	--



		X
		X
		X

		X
	X	

BTS needs to fill these columns out - we provided a starting point  
 ort, we indicated that and the average score based on how critical it was rated by the 6 agencies. A score of  
 :o mission. If all 6 agencies said it was critical, the average score would be 5.0.

Is this a "key indicator"? (per BTS 7/1/20)	Do we need this at the state level? (per BTS 7/1/20, everything tabulated in 2002 should be a state level indicator again. Only new questions that should be added are marked)	Why is this question included? Who is the stakeholder? What are the data uses?
		ORNL-P18 STILLOWN(3.0), Verify registration information is correct FMCSA, FHWA, EIA, NHTSA
		remove disposed vehicles from truck universe? FMCSA, FHWA, EIA, NHTSA
		ORNL-P13 DISPOSEYEAR(3.3), P15 DISPOSEMnth(2.3) FMCSA, FHWA, EIA, NHTSA
		ORNL-P15 DISPOSEHOW(2.8) FMCSA, FHWA, EIA, NHTSA

		<b>ORNL-P15 ACQUIREMNT(2.5), ACQUIREYEAR(3.0)</b> FMCSA, FHWA, EIA, NHTSA
		<b>relate to ORNL-P20(3.5) VEHNEWMPG Vehicle mileage when new</b> FMCSA, FHWA, EIA, NHTSA
		<b>ORNL-P13 LEASE(3.0) Vehicle was leased</b> FMCSA, FHWA, EIA, NHTSA

		<b>ORNL-P16 LEASEWHO(2.7)</b> FMCSA, FHWA, EIA, NHTSA
<b>YES</b>		<b>ORNL-P9 BODYTYPE(5)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P9 AXLESTOTAL(5)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
		<b>new question, not in ORNL</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA

		<b>ORNL-P13 AXLEDRIVING(3.0)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P9 TRANSMSSN(5.0)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
		<b><del>ORNL-P20 NUMGEARS(3.5)</del></b>

		<b>ORNL-P20(3.6) Trailer permanent equipment. Nothing in ORNL mention to pickup, minivan, SUV for permanent equipment.</b>
	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA

	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA
	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA



	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA
	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA
	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA

	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA
	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA

		<b>ORNL-P19 GCWR(4.0)</b> FMCSA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P20 CABHEIGHT(3.8)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA

		<b>ORNL-P12 TIMEOPERATE(3.6)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P14 TIME_IDLE(3.7), TIME_NA(3.5), TIME_OTH(3.5), TIME_REPAIR(3.5), TIME_SEASNL(3.5)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA

<b>YES</b>		<b>ORNL - P11 HBTYP(3.8), P13 HB(3.8)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P10 HB_STATE(4.2)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA

<b>YES</b>		<b>ORNL-P9 FLEET_OTH(5.0)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P9 MILES_RANGE(5.0)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>	<b>YES</b>	ORNL- Page 19, VEHMILESCALC (4.5) FMCSA, USDA, FHWA, EIA, NHTSA, EPA

		<b>ORNL-P10 MPG(4.5)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
		ORNL - Page 19, VEHMPGCALC (4.3) FMCSA, USDA, FHWA, EIA, NHTSA, EPA
		<b>ORNL-P12 OPERATECAN(3.4), OPERATEMEX(3.4), P10 OPERATEHB(4.6), OPERATEOTH(4.2)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA

		<p>ORNL-P9 TRIPOFFROAD(5), P12          TRIPO_50(4.4), TRIP051_100(4.4),          TRIP101_200(4.4), TRIP201_500(4.4),          TRIP500MORE(4.4)          FMCSA, USDA, FHWA, EIA, NHTSA, EPA</p> <p>Used in FAF</p>
		<p>ORNL-P9 TRIPOFFROAD(5), P12          TRIPO_50(4.4), TRIP051_100(4.4),          TRIP101_200(4.4), TRIP201_500(4.4),          TRIP500MORE(4.4)          FMCSA, USDA, FHWA, EIA, NHTSA, EPA</p> <p>Used in FAF</p>
YES		<p>ORNL-P11 MILES_LIFENOIMP(4.0)          FMCSA, USDA, FHWA, EIA, NHTSA, EPA</p>



		<b>ORNL - P19 AVHHRSPWK(not sure typeo or not AVH..)(4.5), P20 AVGHRSPW_IDL(4.3), AVGHRSPW_AUXPWR(3.8)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P9 FUEL(5)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P9 FUELWHERE(5.0)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA

YES		<p>ORNL-P11 MAINT_NONE(3.5), P14 MAINT_COMP(3.3), MAINT_DEAL(3.3), MAINT_GEN(3.3), MAINT_LSNG(3.3), MAINT_SELF(3.3)  FMCSA, FHWA, NHTSA</p>
YES	YES	<p>ORNL-P20 VEHMAINTCOST(3.0)  FMCSA, FHWA, NHTSA</p>
		<p>ORNL-P18 REPAIR(2.5)  FMCSA, USDA, FHWA, EIA, NHTSA</p>
		<p>ORNL-P18 REPAIR_COMP(2.3), REPAIR_DEAL(2.3), REPAIR_DIST(2.3), REPAIR_GEN(2.3), REPAIR_LSNG(2.3), REPAIR_SELF(2.3)  FMCSA, USDA, FHWA, EIA, NHTSA</p>
	YES	<p>ORNL-P20 VEHREPAIRCOST(3.0)  FMCSA, USDA, FHWA, EIA, NHTSA</p>

	<b>YES</b>	<b>ORNL-P19 ENGREBLD(4.4)</b> FMCSA, USDA, FHWA, EIA, NHTSA
	<b>YES</b>	<b>ORNL-P19 ENGREBLDYR(4.4)</b> FMCSA, USDA, FHWA, EIA, NHTSA
		<b>ORNL-P12 TRAILER0(3.6), TRAILER1(3.6)</b>
<b>YES</b>	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA

**YES**

**YES**

FMCSA, USDA, FHWA, EIA, NHTSA, EPA

**ORNL-P9 TRAILERTYPE(5.0)**

		<b>ORNL-P10 AXLESTRLR1(4.5)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
YES		<b>ORNL-P10 LENGTHTRLR1(4.8)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
YES	YES	<b>ORNL - P19 TRAILAEROFRNTFAIR(4.2),          TRALAEROREARFAIR(4.2),          TRAILAEROSIDESRKT(4.2),          TRAILAEROUNDCAR(4.2), P20          WEIGHTMOD_ALUMWH(3.8),WGHTMO          D_LGHTLANDGEAR(3.8)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA

<b>YES</b>		<b>ORNL-P11 LENGTHTOTAL(4.7)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>		<b>ORNL-P9 WEIGHTAVGCK(5.0)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA
		<b>ORNL-P10 VIUS_GVW(4.4) not sure pick the right variable name</b>

YES	YES	<b>ORNL-P20 AVGPAYLD(3.8)</b> FMCSA, FHWA, NHTSA, EPA
YES	YES	<b>ORNL-P20 AVGWGHTLIGHTTRCARGO(3.8)</b> FMCSA, FHWA, NHTSA, EPA
		<b>ORNL-P20 AVGOVERWGHT(4.0)</b>
YES	YES	FMCSA, FHWA, NHTSA, EPA

		<b>ORNL-P9 BUSINESS(5.0)</b>
<b>YES</b>		<b>ORNL-P10 SERVICE_PRIMARY(4.0)</b> FMCSA, USDA, FHWA, EIA, NHTSA, EPA



<b>YES</b>	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA
<b>YES</b>	<b>YES</b>	FMCSA, USDA, FHWA, EIA, NHTSA, EPA

ORNL-P9 P\_EMPTY(5.0), P10  
P\_LOADED(4.2)

<b>YES</b>		ORNL-P9 P_EMPTY(5.0), P10 P_LOADED(4.2) FMCSA, USDA, FHWA, EIA, NHTSA
<b>YES</b>	<b>YES</b>	ORNL - Page 20 PERCUTEOUT, Page 14 P_EMPTY100, WEIGHTEMPCK FMCSA, USDA, FHWA, EIA, NHTSA
<b>YES</b>	<b>YES</b>	ORNL - Page 20 PERCUTEOUT, Page 14 P_EMPTY100, WEIGHTEMPCK FMCSA, USDA, FHWA, EIA, NHTSA

		<p>ORNL-P14 P_EMPTY100(2.6) missing!, Examples: PALCOHOLIC (3.0), PANIMALFEED(3.0), PBAKERYPROD(3.0), PEMPCONTAIN(3.0), PFERTILIZER(3.0) , PGRAINS(3.0), PLIVEANIMAL(3.0), PLOGS(3.0), PMEATS(3.0), PNEWSPRINT(3.0) FMCSA, USDA, FHWA, EIA, NHTSA, EPA</p>

Published table in 2002


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2a. VEHICLE ACQUISITION

2a. LEASE CHARACTERISTIC

2a. LEASE CHARACTERISTIC

2a. BODY TYPE

2.a TRUCK TYPE AND AXLE  
ARRANGEMENT, Single-unit  
trucks and turck-tractor without  
trailer?

\*new

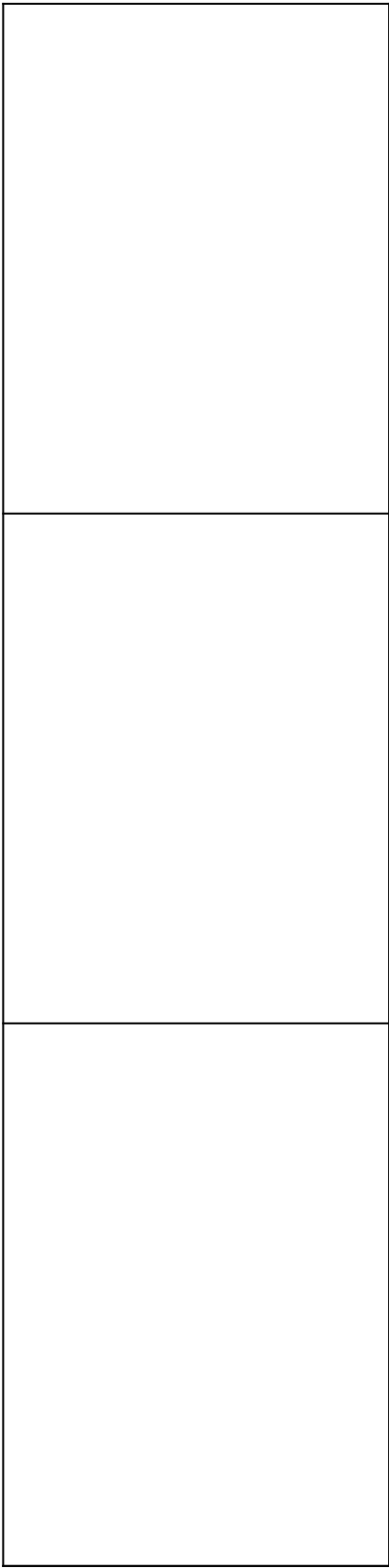
2a. TRUCK TYPE AND AXLE  
ARRANGEMENT, Driving axles

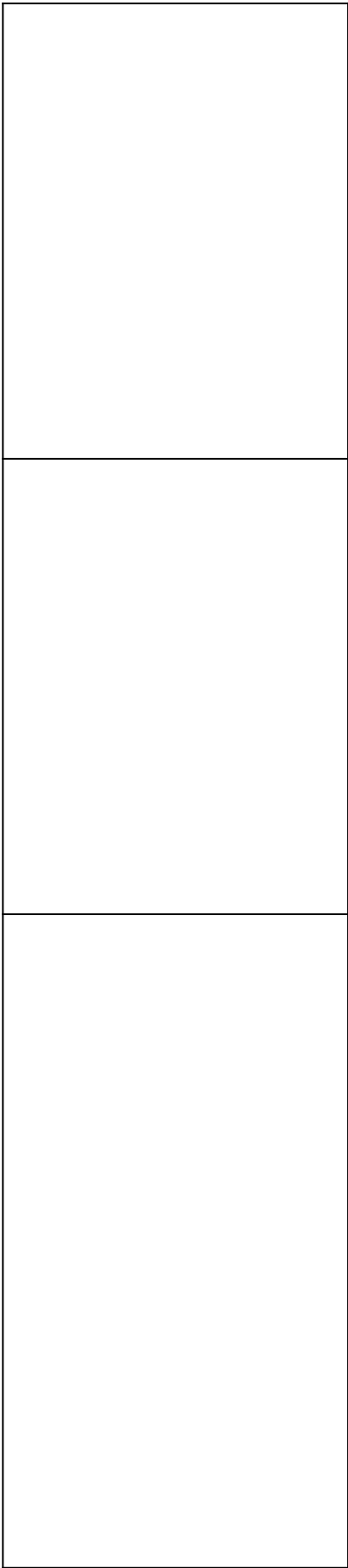
2a. EQUIPMENT TYPE,  
Transmission type

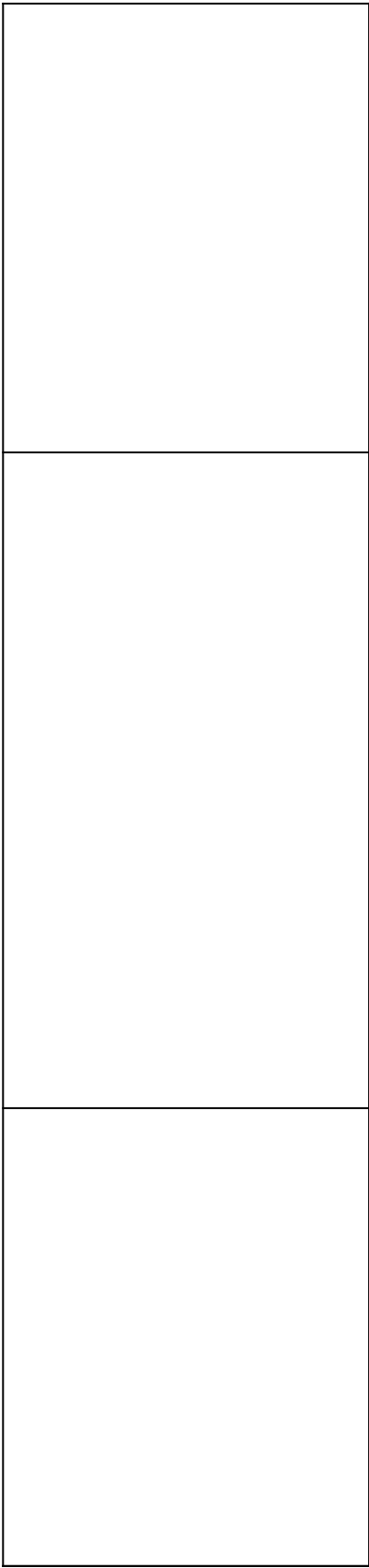
\*new



2a. EQUIPMENT TYPE







\*new

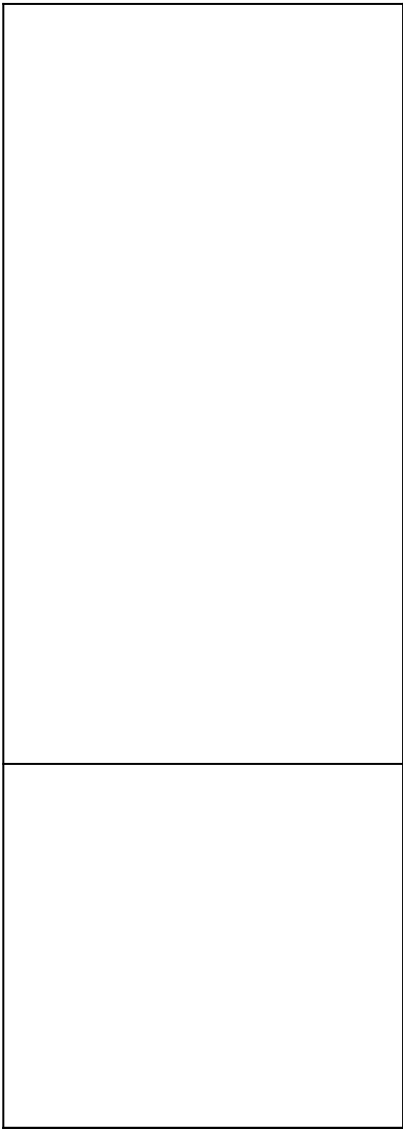
\*new

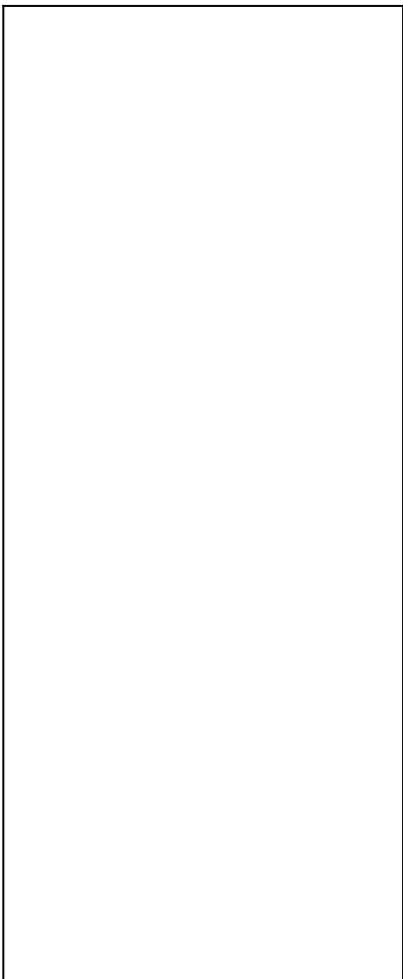
2a. MONTHS OPERATED; Table 7  
MONTHS OPERATED

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2a. ANNUAL MILES

\*new



2a. MILES PER GALLON

\*new

2a. PRIMARY JURIDICTION

2a. PRIMARY RANGE OF  
OPERATION

old question, not in pub table

\*new

2a. FUEL TYPE AND ENGINE SIZE,  
Fuel type

2a. REFUELING LOCATION

2a. MAINTENANCE, General  
maintenance performed by

\*new

2a. MAINTENANCE, Extensive  
repairs performed by

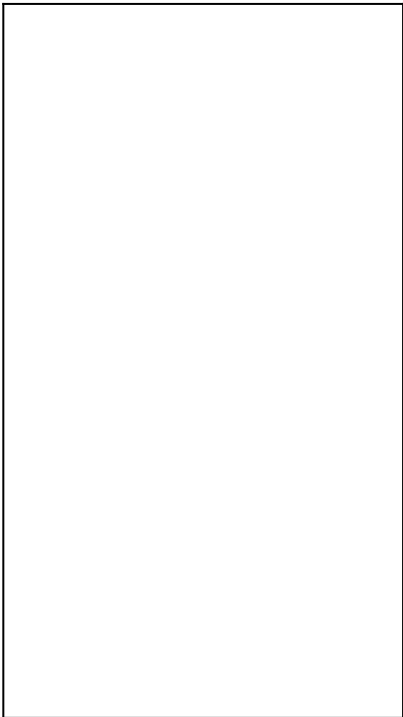
2a. MAINTENANCE, Extensive  
repairs performed by

\*new

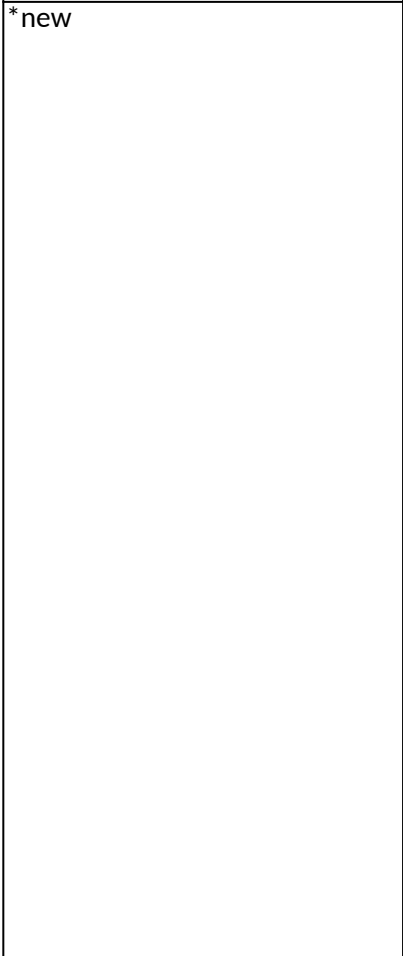
\*new

\*new

2a. TRUCK TYPE



\*new



2a. TRUCK TYPE AND AXLE ARRANGEMENT, Combinations, Single-unit trucks with trailer
*new

2a. TOTAL LENGTH(FEET)

2a. AVERAGE WEIGHT(POUNDS)

2a. AVERAGE WEIGHT(POUNDS)



\*new

\*new

\*new

2a. BUSINESS(1)

2a. BUSINESS(1)


\*new

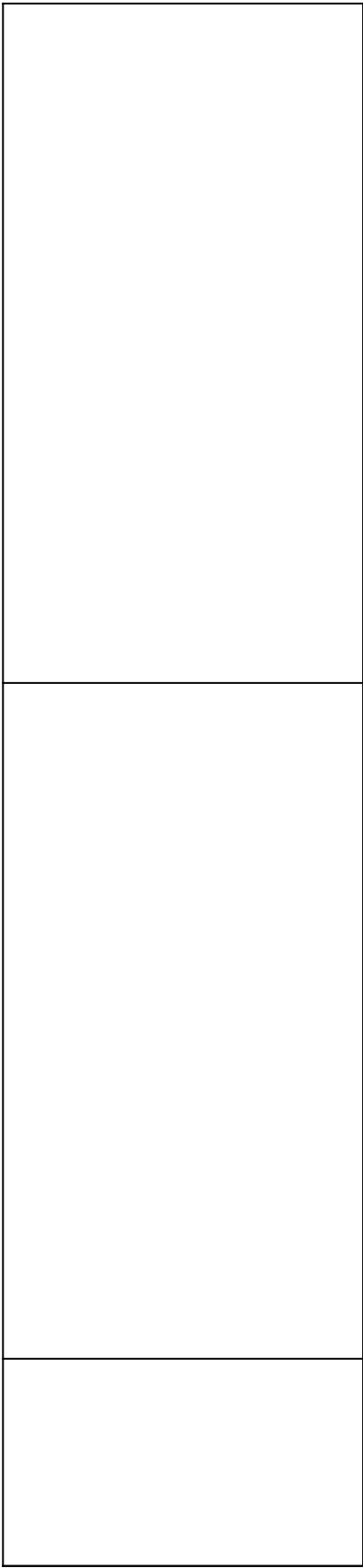


Table 8, PRODUCTS CARRIED
