

APPENDIX E

Off-Road Equipment Types by Horsepower, Frequency of Gas-Can Refills, and Fuel Consumptions						
Type	Engine	Horsepower	Frequency of Refuel		Fuel Consumption (gal/day)	
	Cycle		% Refueling Source	Gas Can	All	Gas Can Only
Tampers/Rammers	G2	15	100	0	699	0
Plate Compactors	G2	15	100	0	68	0
Other General Industrial Equ	G2	15	50	50	79	40
Lawn Mowers	G2	15	0	100	8280	8280
Chainsaws <=5 HP	G2	2	0	100	5490	5490
Chainsaws <=5 HP	G2	15	0	100	9350	9350
Chainsaws <=5 HP	G2	2	0	100	11637	11637
Trimmers/Edgers/Brush Cutter	G2	2	0	100	9259	9259
Leaf Blowers/Vacuums	G2	2	0	100	6535	6535
Snowblowers	G2	15	0	100	52	52
Snowblowers	G2	25	0	100	0	0
Shredders <=5 HP	G2	15	0	100	1057	1057
Commercial Turf Equipment	G2	25	0	100	1870	1870
Commercial Turf Equipment	G2	15	0	100	1946	1946
Other Lawn & Garden Equipmen	G2	2	0	100	66	66
Other Lawn & Garden Equipmen	G2	15	0	100	145	145
Generator Sets	G2	15	50	50	16	8
Generator Sets	G2	2	50	50	15	7
Pumps	G2	25	50	50	127	64
Pumps	G2	15	50	50	2686	1343
Pumps	G2	2	50	50	69	34
Chainsaws >5 HP	G2	15	50	50	8025	4012
Vessels w/Outboard Engines	G2	2	80	20	42	8
Vessels w/Outboard Engines	G2	15	80	20	7011	1402
Vessels w/Outboard Engines	G2	25	80	20	6350	1270
Vessels w/Outboard Engines	G2	50	80	20	11469	2294
Vessels w/Outboard Engines	G2	120	80	20	21534	4307
Vessels w/Outboard Engines	G2	175	80	20	18251	3650
Vessels w/Outboard Engines	G2	250	80	20	7082	1416
Vessels w/Outboard Engines	G2	500	80	20	1998	400
Sailboat Auxiliary Outboard Engin	G2	15	80	20	26	5
Sailboat Auxiliary Outboard Engin	G2	25	80	20	34	7
Sailboat Auxiliary Outboard Engin	G2	50	80	20	64	13
Personal Water Craft	G2	999	80	20	65966	13193
Asphalt Pavers	G4	15	100	0	62	0
Asphalt Pavers	G4	25	100	0	231	0
Asphalt Pavers	G4	50	100	0	184	0
Asphalt Pavers	G4	120	100	0	152	0
Tampers/Rammers	G4	15	100	0	50	0
Plate Compactors	G4	5	100	0	987	0
Plate Compactors	G4	15	100	0	1978	0
Rollers	G4	5	100	0	71	0
Rollers	G4	15	100	0	642	0
Rollers	G4	25	100	0	813	0
Rollers	G4	50	100	0	220	0
Rollers	G4	120	100	0	666	0
Paving Equipment	G4	5	100	0	1399	0
Paving Equipment	G4	15	100	0	5748	0
Paving Equipment	G4	25	100	0	250	0
Paving Equipment	G4	50	100	0	230	0
Paving Equipment	G4	120	100	0	83	0
Surfacing Equipment	G4	5	100	0	314	0
Surfacing Equipment	G4	15	100	0	3097	0
Surfacing Equipment	G4	25	100	0	90	0
Signal Boards	G4	5	100	0	4	0
Signal Boards	G4	15	100	0	80	0
Trenchers	G4	15	100	0	1231	0
Trenchers	G4	25	100	0	1780	0
Trenchers	G4	50	100	0	1125	0
Trenchers	G4	120	100	0	645	0
Bore/Drill Rigs	G4	15	100	0	12	0
Bore/Drill Rigs	G4	25	100	0	96	0
Bore/Drill Rigs	G4	50	100	0	18	0
Bore/Drill Rigs	G4	120	100	0	184	0
Bore/Drill Rigs	G4	175	100	0	65	0
Subtotal:		65			229804	89160
Type	Engine	Horsepower	Frequency of Refuel		Fuel Consumption (gal/day)	
	Cycle		% Refueling Source	Gas Can	All	Gas Can Only
Concrete/Industrial Saws	G4	5	100	0	111	0

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Concrete/Industrial Saws	G4	15	100	0	2206	0
Concrete/Industrial Saws	G4	25	100	0	1158	0
Concrete/Industrial Saws	G4	50	100	0	426	0
Concrete/Industrial Saws	G4	120	100	0	358	0
Cement and Mortar Mixers	G4	5	100	0	1345	0
Cement and Mortar Mixers	G4	15	100	0	3011	0
Cement and Mortar Mixers	G4	25	100	0	35	0
Cranes	G4	50	100	0	56	0
Cranes	G4	120	100	0	177	0
Cranes	G4	175	100	0	11	0
Crushing/Proc. Equipment	G4	15	100	0	25	0
Crushing/Proc. Equipment	G4	25	100	0	25	0
Crushing/Proc. Equipment	G4	120	100	0	140	0
Rough Terrain Forklifts	G4	50	100	0	39	0
Rough Terrain Forklifts	G4	120	100	0	765	0
Rough Terrain Forklifts	G4	175	100	0	49	0
Rubber Tired Loaders	G4	50	100	0	85	0
Rubber Tired Loaders	G4	120	100	0	806	0
Tractors/Loaders/Backhoes	G4	120	100	0	568	0
Skid Steer Loaders	G4	15	100	0	57	0
Skid Steer Loaders	G4	25	100	0	4571	0
Skid Steer Loaders	G4	50	100	0	1219	0
Skid Steer Loaders	G4	120	100	0	1433	0
Dumpers/Tenders	G4	5	100	0	62	0
Dumpers/Tenders	G4	15	100	0	245	0
Dumpers/Tenders	G4	25	100	0	85	0
Dumpers/Tenders	G4	120	100	0	15	0
Other Construction Equipment	G4	175	100	0	385	0
Aerial Lifts	G4	15	50	50	15	7
Aerial Lifts	G4	25	50	50	812	406
Aerial Lifts	G4	50	50	50	1551	775
Aerial Lifts	G4	120	50	50	2315	1158
Forklifts	G4	25	50	50	37	18
Forklifts	G4	50	50	50	19562	9781
Forklifts	G4	120	50	50	92090	46045
Forklifts	G4	175	50	50	7020	3510
Sweepers/Scrubbers	G4	15	50	50	290	145
Sweepers/Scrubbers	G4	25	50	50	568	284
Sweepers/Scrubbers	G4	50	50	50	3159	1579
Sweepers/Scrubbers	G4	120	50	50	4027	2014
Sweepers/Scrubbers	G4	175	50	50	49	24
Other General Industrial Equ	G4	15	50	50	608	304
Other General Industrial Equ	G4	25	50	50	457	229
Other General Industrial Equ	G4	50	50	50	976	488
Other General Industrial Equ	G4	120	50	50	666	333
Other General Industrial Equ	G4	175	50	50	144	72
Other Material Handling Equi	G4	50	50	50	10	5
Other Material Handling Equi	G4	120	50	50	460	230
Lawn Mowers	G4	5	0	100	56331	56331
Tillers	G4	5	0	100	3903	3903
Trimmers/Edgers/Brush Cutter	G4	5	0	100	627	627
Leaf Blowers/Vacuums	G4	5	0	100	83	83
Snowblowers	G4	5	0	100	313	313
Snowblowers	G4	15	0	100	440	440
Snowblowers	G4	25	0	100	2	2
Rear Engine Riding Mowers	G4	25	0	100	1745	1745
Rear Engine Riding Mowers	G4	15	0	100	13	13
Front Mowers	G4	25	0	100	5018	5018
Front Mowers	G4	15	0	100	4568	4568
Shredders <=5 HP	G4	5	0	100	476	476
Lawn & Garden Tractors	G4	15	0	100	5010	5010
Lawn & Garden Tractors	G4	25	0	100	2714	2714
Lawn & Garden Tractors	G4	50	0	100	63	63
Wood Splitters	G4	5	0	100	8934	8934
Chippers/Stump Grinders	G4	15	0	100	482	482
Subtotal:		66			245005	158130
				Frequency of Refuel		
	Engine			% Refueling Source	Fuel Consumption (gal/day)	
Type	Cycle	Horsepower	Pump	Gas Can	All	Gas Can Only
Chippers/Stump Grinders	G4	25	0	100	3966	3966
Commercial Turf Equipment	G4	15	0	100	14242	14242
Commercial Turf Equipment	G4	25	0	100	10770	10770
Other Lawn & Garden Equipmen	G4	5	0	100	4171	4171
Other Lawn & Garden Equipmen	G4	15	0	100	3059	3059

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Other Lawn & Garden Equipmen	G4	25	0	100	123	123
2-Wheel Tractors	G4	5	100	0	199	0
2-Wheel Tractors	G4	15	100	0	792	0
2-Wheel Tractors	G4	25	100	0	38	0
Agricultural Tractors	G4	120	100	0	3192	0
Agricultural Tractors	G4	175	100	0	668	0
Combines	G4	120	100	0	273	0
Combines	G4	175	100	0	242	0
Balers	G4	50	100	0	694	0
Balers	G4	120	100	0	597	0
Agricultural Mowers	G4	15	100	0	297	0
Agricultural Mowers	G4	25	100	0	485	0
Sprayers	G4	5	100	0	387	0
Sprayers	G4	15	100	0	174	0
Sprayers	G4	25	100	0	971	0
Sprayers	G4	50	100	0	132	0
Sprayers	G4	120	100	0	359	0
Sprayers	G4	175	100	0	166	0
Tillers >5 HP	G4	15	100	0	19560	0
Swathers	G4	120	100	0	1856	0
Swathers	G4	175	100	0	2085	0
Hydro Power Units	G4	5	100	0	58	0
Hydro Power Units	G4	15	100	0	407	0
Hydro Power Units	G4	25	100	0	293	0
Hydro Power Units	G4	50	100	0	49	0
Hydro Power Units	G4	120	100	0	10	0
Other Agricultural Equipment	G4	5	100	0	26	0
Other Agricultural Equipment	G4	15	100	0	48	0
Other Agricultural Equipment	G4	25	100	0	27	0
Other Agricultural Equipment	G4	50	100	0	33	0
Other Agricultural Equipment	G4	120	100	0	343	0
Other Agricultural Equipment	G4	175	100	0	80	0
Generator Sets	G4	5	50	50	707	354
Generator Sets	G4	15	50	50	36092	18046
Generator Sets	G4	25	50	50	36389	18195
Generator Sets	G4	50	50	50	9996	4998
Generator Sets	G4	120	50	50	3935	1967
Generator Sets	G4	175	50	50	655	328
Pumps	G4	5	50	50	375	188
Pumps	G4	15	50	50	8754	4377
Pumps	G4	25	50	50	4235	2118
Pumps	G4	50	50	50	1510	755
Pumps	G4	120	50	50	4507	2254
Pumps	G4	175	50	50	208	104
Air Compressors	G4	5	50	50	3927	1963
Air Compressors	G4	15	50	50	2297	1149
Air Compressors	G4	25	50	50	668	334
Air Compressors	G4	50	50	50	1151	575
Air Compressors	G4	120	50	50	5869	2934
Air Compressors	G4	175	50	50	760	380
Welders	G4	15	50	50	3057	1529
Welders	G4	25	50	50	15181	7591
Welders	G4	50	50	50	3029	1514
Welders	G4	120	50	50	3778	1889
Welders	G4	175	50	50	483	241
Pressure Washers	G4	5	50	50	318	159
Pressure Washers	G4	15	50	50	3061	1531
Pressure Washers	G4	25	50	50	1314	657
Pressure Washers	G4	50	50	50	101	50
Shredders >5 HP	G4	15	50	50	8904	4452
A/C Tug Narrow Body	G4	175	100	0	663	0
Subtotal:		66			232795	116962
	Engine		Frequency of Refuel		Fuel Consumption (gal/day)	
Type	Cycle	Horsepower	Pump	Gas Can	All	Gas Can Only
Air Conditioner	G4	175	100	0	0	0
Air Start Unit	G4	175	100	0	3	0
Baggage Tug	G4	120	100	0	8257	0
Belt Loader	G4	120	100	0	1964	0
Bobtail	G4	120	100	0	1183	0
Cargo Loader	G4	120	100	0	620	0
Cart	G4	15	100	0	7	0
Deicer	G4	120	100	0	15	0
Forklift	G4	50	100	0	323	0

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Fuel Truck	G4	175	100	0	11	0
Ground Power Unit	G4	175	100	0	1708	0
Lav Cart	G4	15	100	0	2	0
Lav Truck	G4	175	100	0	747	0
Lift	G4	120	100	0	700	0
Maint. Truck	G4	175	100	0	753	0
Other	G4	50	100	0	247	0
Water Truck	G4	175	100	0	55	0
Transport Refrigeration Unit	G4	15	100	0	8817	0
Vessels w/Inboard Engines	G4	175	80	20	113891	22778
Vessels w/Outboard Engines	G4	250	80	20	2845	569
Sailboat Auxiliary Inboard Engine	G4	15	80	20	47	9
Vessels w/Inboard/Outboard Engin	G4	175	80	20	295076	59015
Vessels w/Inboard Jet Engines	G4	500	80	20	33906	6781
motorcycles	G2	15	80	20	66	13
motorcycles	G2	25	80	20	66	13
motorcycles	G2	50	80	20	66	13
motorcycles	G2	120	80	20	66	13
snowmobiles	G2	25	80	20	1	0
snowmobiles	G2	50	80	20	2	0
snowmobiles	G2	120	80	20	3	1
All-Terrain Vehicles	G2	15	80	20	66	13
All-Terrain Vehicles	G2	25	80	20	66	13
All-Terrain Vehicles	G2	50	80	20	66	13
golfcarts	G2	15	100	0	942	0
Specialty Vehicles	G2	15	80	20	979	196
motorcycles	G4	15	80	20	50	10
motorcycles	G4	25	80	20	50	10
motorcycles	G4	50	80	20	50	10
All-Terrain Vehicles	G4	15	80	20	50	10
All-Terrain Vehicles	G4	25	80	20	50	10
All-Terrain Vehicles	G4	50	80	20	50	10
minibikes	G4	5	100	0	0	0
golfcarts	G4	15	100	0	2	0
Specialty Vehicles	G4	5	80	20	2	0
Specialty Vehicles	G4	15	80	20	2	0
Specialty Vehicles	G4	25	80	20	4	1
Subtotal:		46			473874	89503
					Fuel Consumption (gal/day)	
					All	Gas Can Only
Total:		243			480008	93674