



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ANN ARBOR, MI 48105

OFFICE OF
AIR AND RADIATION

MEMORANDUM

DATE: November 15, 2000

SUBJECT: Additional Detail on Revised Recreational Vehicle Emissions Inventories

FROM: John Mueller, Mechanical Engineer
Assessment and Standards Division

THRU: Glenn Passavant, Nonroad Center Director
Assessment and Standards Division

TO: Docket A-98-01

We have revised our inventory estimates for the categories of vehicles and engines included in our proposed finding concerning new nonroad spark-ignition engines rated above 19 kilowatts and new land-based recreational spark-ignition (Large SI) engines.^a This memorandum presents additional detail for the recreational vehicle inventories, both nationally (Table 1) and in selected nonattainment areas (Table 2). The details of the modeling for these inventories are documented in a separate memorandum to docket A-98-01.

^a 64 FR 6008, February 8, 1999.

Table 1
National Emissions Inventories for Recreational Engines (short tons)

	HC	CO	NOx	PM
	Year 2000			
Snowmobiles	222,078	531,487	1,394	4,853
Off-road motorcycles/ATVs	364,898	3,699,955	19,920	743
TOTAL	586,976	4,231,442	21,314	5,596
	Year 2007			
Snowmobiles	232,591	556,599	1,461	5,082
Off-road motorcycles/ATVs	383,439	3,888,232	20,955	781
TOTAL	616,030	4,444,831	22,416	5,863

Table 2
Emission Levels of Recreational Engines
in Selected Nonattainment Areas in 2000 (short tons)

Area	Application	CO	NO _x	HC	PM
Maricopa County, Arizona	Motorcycle/ATV	13,304	72	1,426	3
	Snowmobile	0	0	0	0
	TOTAL	13,304	72	1,426	3
El Paso County, Texas	Motorcycle/ATV	4,309	23	418	1
	Snowmobile	0	0	0	0
	TOTAL	4,309	23	418	1
Connecticut	Motorcycle/ATV	24,031	129	2,394	5
	Snowmobile ¹	0	0	0	0
	TOTAL	24,031	129	2,394	5
New Jersey	Motorcycle/ATV	56,251	304	5,886	11
	Snowmobile	0	0	0	0
	TOTAL	56,251	304	5,886	11
Fairbanks, Alaska	Motorcycle/ATV	2,280	12	232	0
	Snowmobile	230	1	96	2
	TOTAL	2,511	13	329	3
Spokane County, Washington	Motorcycle/ATV	4,432	24	464	1
	Snowmobile	580	2	242	5
	TOTAL	5,012	25	706	6
Denver County, Colorado	Motorcycle/ATV	899	5	101	0
	Snowmobile	161	<1	67	1
	TOTAL	1,060	5	168	2
Milwaukee, Wisconsin	Motorcycle/ATV	6,980	38	736	1
	Snowmobile	5,821	15	2,432	53
	TOTAL	12,802	53	3,168	55

1. We believe that there is snowmobile usage in Connecticut. However, we do not have good snowmobile allocation data for Connecticut, and have chosen to show no snowmobiles in Connecticut rather than attempt to estimate Connecticut snowmobile population.