1997 AGRICULTURAL CHEMICAL USE ESTIMATES FOR LIVESTOCK AND GENERAL FARM USE

for the complete report see http://usda.mannlib.cornell.edu/reports/nassr/other/pcu-bb/

OVERVIEW: The agricultural chemical use estimates presented here are based on data compiled from a survey conducted in the Fall of 1997. All results refer to the on-farm use of pesticides during the 1997 calendar year. Fertilizer use was not included. As of December 1999, this is the most recent data available on the subject.

This information includes segments of agriculture not previously collected by the National Agricultural Statistics Service (NASS). Prior to 1997, the NASS pesticide use program focused on crop-specific items such as corn, soybeans, apples, lettuce, etc. The data in this report, along with the crop-specific pesticide use data, will enable a more comprehensive look at the total amounts of pesticides used in the United States.

Pesticides in this report are defined as herbicides, insecticides, fungicides, and other chemicals. Pesticides are regulated by the Environmental Protection Agency (EPA) and have an EPA number on the container of the product.

A pharmaceutical is classified as a drug and is regulated by the Federal Drug Administration (FDA). Pharma-ceuticals generally target internal livestock pests such as viruses, bacteria, worms and grubs. This report excludes pharmaceutical products that treat livestock for only internal pests. Some products can be classified as either a pesticide or a pharmaceutical because they can treat both external and internal pests. Examples of dual purpose products are Doramectin, Eprinomectin, and Ivermectin. These products can be applied to livestock internally as an injectable or oral, or externally as a pour-on.

Livestock species targeted in this survey included cattle, hogs, sheep, equine, and goats. The use of pesticides on goats was collected only in Texas. Equine includes horses, ponies, mules, burros, and donkeys. Domesticated species such as buffalo, emus, ostrich, lamas, etc. were not targeted. The data in this report cannot be used to calculate rates since the number of animal treatments was not within the scope of the survey.

General farm use included buildings and structures, roads, ditches, grain storage facilities, farmstead, and other non-cropland areas. Other non-cropland areas include drainage ditches, irrigation canals, riding areas, feedlots, fence rows, etc. Excluded were pesticide applications to cropland and to residential sites such as home, lawn, and garden.

Sample sizes were adequate to publish data only by region and U.S. level. Although data for pesticide usage on poultry was collected during the survey, it was not published due to too few responses.

The use of trade names is for information only and should not be construed as a recommendation by NASS.

Livestock: Pesticide [1/] Use By Region, 1997
Total Amount Applied

REGION	Insecticides			
	All Livestock [2/]	Dairy Cattle	Beef Cattle	Other Livestock [3/]
	1,000 Pounds			
Northeast	37.80	19.80	4.90	13.00
North Central	1,215.80	163.20	1,004.70	47.90
South	473.70	54.70	349.00	70.00
West	570.40	18.10	519.90	32.40
United States	2,297.60	255.70	1,878.50	163.30

[1/] Fungicides were not reported for the Northeast. Other chemicals were reported on other livestock in the North Central region, but there were insufficient reports to publish the data.

[2/] All livestock includes beef cattle, dairy cattle, hogs, sheep, equine, and goats (goats in Texas only).

[3/] Other Livestock includes hogs, sheep, equine, and goats (goats in Texas only).

General Farm Use: Pesticide Use by Region, 1997
Total Amount Applied

TREATMENT SITE & REGION	Herbicide	Insecticide[1/]	Fungicide	Other Chemical
	1,000 Pounds			
GENERAL FARM USE [2/]				
Northeast	1,410.9	89.2	*	255.6
North Central	1,105.6	291.0	*	136.7
South	1,231.9	460.3	*	9.9
West	2,251.0	899.5	140.3	1.1
United States	5,999.4	1,740.0	177.3	403.3
GRAIN STORAGE FACILITIES				
Northeast	--	14.7	--	*
United States	--	215.9	--	*
BUILDING & STRUCTURES				
Northeast	44.9	65.0	*	--
United States	760.1	401.7	*	--
ROADS, DITCHES & MISC. GENERAL FARM USE				
Northeast	1,366.0	9.5	--	0
United States	5,239.4	1,122.5	--	42.0

[1/] *Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredient are not comparable between products.*
[2/] *General Farm Use includes grain storage facility, buildings & structures, roads, ditches & miscellaneous general farm use.*
* *Insufficient reports to publish data.*

General Farm Use: Agricultural Chemical Applications, Total Applied, 1997

Agricultural Chemical	North-East	United States
	1,000 Pounds	
HERBICIDES:		
2,4-D	19.1	1,082.0
2,4-D, Dimet. salt	--	*
2,4-DB	*	*
Acetochlor	--	11.2
Acifluorfen	*	*
Alachlor	*	60.0
Ametryn	--	0.9
Ammonium benzadox	--	*
Atrazine	400.1	541.9
Barban	--	*
Benefin	--	*
Bentazon	*	*
Bromacil	--	3.6
Bromoxynil	--	1.7
Butylate	--	*
Chlorimuron-ethyl	*	1.2
Chlorsulfuron	--	*
Clomazone	*	*
Clopyralid	*	5.3
Cyanazine	*	59.1
Diallate	--	*
Dicamba	*	139.6
Dichlobenil	--	*
Dichlorprop	--	*
Difenzoquat	--	*
Dimethenamid	*	*
Dipot. Endothall	--	*
Diuron	--	65.9
EPTC	*	*

General Farm Use: Agricultural Chemical Applications, Total Applied, 1997 *(cont'd)*

Agricultural Chemical	North-East	United States
	1,000 Pounds	
HERBICIDES: *(cont'd)*		
Ethalfluralin	*	*
Fenoxaprop	*	3.6
Fluazifop-P-butyl	*	1.3
Flumetsulam	*	*
Fomesafen	--	*
Glufosinate-ammonium	--	*
Glyphosate	224.6	2,790.5
Halosulfuron	--	*
Hexazinone	--	2.0
Imazamethabenz	--	*
Imazapyr	--	*
Imazapyr, iso. salt	--	0.3
Imazaquin	*	3.3
Imazethapyr	*	1.0
Linuron	*	*
MCPA	--	20.8
MCPB	--	*
Metolachlor	*	521.1
Metribuzin	6.1	21.0
Metsulfuron-methyl	--	0.7
MSMA	--	*
Napropamide	--	*
Nicosulfuron	--	0.5
Oryzalin	*	49.1
Oxyfluorfen	--	65.8
Paraquat	41.5	105.5
Pebulate	--	*
Pendimethalin	*	59.4
Picloram	--	43.6

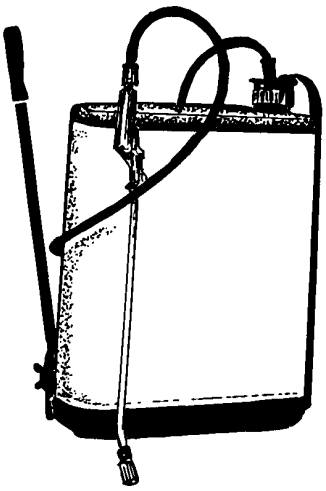
General Farm Use: Agricultural Chemical Applications, Total Applied, 1997 *(cont'd)*

Agricultural Chemical	North-East	United States
	1,000 Pounds	
HERBICIDES: *(cont'd)*		
Primisulfuron	--	*
Prometon	*	16.9
Prometryn	--	*
Propachlor	*	*
Propanil	--	*
Propanoic acid	--	*
Propazine	*	*
Prosulfuron	--	*
Pyridate	--	*
Quinclorac	--	*
Sethoxydim	*	6.6
Simazine	*	24.1
Sodium metaborate	--	*
Sulfometuron methyl	--	*
Sulfosate	--	*
Tebuthiuron	--	0.6
Terbacil	*	*
Thifensulfuron	0.8	1.1
Thiobencarb	--	*
Triasulfuron	--	25.1
Tribenuron-methyl	*	0.6
Triclopyr	*	59.4
Trifluralin	*	41.3
TOTAL HERBICIDES	1,410.9	5,999.4
INSECTICIDES:		
Abamectin	--	*
Acephate	--	21.2
Aldicarb	--	*
Amitraz	*	*
Azinphos-methyl	--	*
Bendiocarb	*	*
Bicycloheptene	*	0.1
Bifenthrin	*	*
Bomyl	--	*
Bt (Bacillus thur.) [1/]	--	*
Butoxypolypr. glycol	--	*
Carbaryl	*	64.3
Carbofuran	*	*
Chlorpyrifos	--	30.9
Chlorpyrifos-methyl	*	26.9
Coumaphos	--	*
Cyfluthrin	40.3	55.1
Cyromazine	--	*
Diazinon	*	91.1
Dichlorvos	*	62.0
Dicofol	--	*
Diflubenzuron	--	*
Dimethoate	*	4.0
Endosulfan	--	*
Esfenvalerate	*	24.2
Famphur	--	*
Fenoxycarb	--	*
Fenvalerate	--	*
Formetanate hydro.	--	*

General Farm Use: Agricultural Chemical Applications, Total Applied, 1997 *(cont'd)*

Agricultural Chemical	North-East	United States
	1,000 Pounds	
INSECTICIDES: *(cont'd)*		
Hydramethylnon	--	0.3
Lambda-cyhalothrin	*	7.9
Lindane	--	*
Malathion	17.0	363.5
Methomyl	*	22.1
Methoprene	*	*
Methoxychlor	*	5.1
Methyl parathion	--	*
Mevinphos	--	*
Naled	*	53.8
Permethrin	14.9	36.7
Petroleum distillate	--	121.2
Phosmet	--	*
Piperonyl butoxide	*	9.3
Pirimiphos-methyl	*	3.5
Propargite	--	*
Pyrethrins	*	1.4
Pyriproxyfen	--	*
Ronnel	*	*
Rotenone	--	*
Silicon dioxide	--	3.7
Sulfur	--	658.9
Tebufenozide	--	*
Tefluthrin	--	*
Tetrachlorvinphos	*	*
Tetramethrin	--	*
Trichlorfon	--	*
Xylene	--	*
TOTAL INSECTICIDES	89.2	1,740.0

See footnotes at the end of the General Farm Use Ag Chemical tables.



General Farm Use: Agricultural Chemical Applications, Total Applied, 1997 *(cont'd)*

Agricultural Chemical	North-East	United States
	1,000 Pounds	
FUNGICIDES:		
Benomyl	--	*
Captan	--	*
Chlorothalonil	--	*
Coal tar creosote	--	*
Copper sulfate	--	*
Cresol	--	*
Fenarimol	--	*
Mancozeb	--	*
Metalaxyl	--	*
Metiram	--	*
Myclobutanil	--	*
Streptomycin	--	*
TOTAL FUNGICIDES	--	177.3
OTHER CHEMICALS:		
4-tert-Amylphenol	17.0	17.2
Alk. dim. benz.	*	*
Alk. dim. eth. benz.	*	*
Aluminum phosphide	--	1.3
Ammonium soap	--	*
Amylphenol	--	*
Benzylchlorophenol	42.6	43.3
Brodifacoum	*	*
Bromadiolone	*	*
Bromethalin	*	*
Capric acid	4.2	4.2
Caprylic acid	12.6	12.6
Chlorine dioxide	5.2	5.2
Cholecalciferol	*	*
Citric acid	41.9	41.9
Difethialone	--	*
Diphacinone	*	*
Dodecylbenzene	*	*
Ethephon	*	*
Orthophenylphenol	51.1	51.8
Phosphoric acid	58.1	58.1
Potassium 4-tert-am.	--	*
Potassium o-benzyl	--	*
Potassium salt	--	*
Scilliroside	--	*
Sodium chlorate	--	*
Sodium hypochlorite	*	155.1
Sodium o-benzyl	--	*
Sodium o-phenylphen.	--	*
Warfarin	*	*
Zinc phosphide	--	*
TOTAL OTHER CHEMICALS	255.6	403.3

* *Insufficient reports to publish data.*

[1/] *Total applied is not available because amounts of active ingredient are not comparable between products and are not included in Total Insecticides.*

All Livestock: Agricultural Chemical Applications, [1/] Total Applied, 1997

Agricultural Chemical	North-East	United States
	1,000 Pounds	
INSECTICIDES:		
Amitraz	*	10.1
Bicycloheptene	0.5	5.2
Bomyl	--	*
Butoxypolypr. glycol	5.3	67.8
Carbaryl	*	38.1
Chlorpyrifos	--	24.8
Coumaphos	0.9	59.8
Crotoxyphos	--	0.7
Cyfluthrin	*	0.6
Cypermethrin	--	*
Cyromazine	--	*
Diazinon	*	14.6
Dichlorvos	5.3	127.1
Diflubenzuron	--	*
Dimethoate	*	4.8
Dioxathion	--	5.8
Dipropyl isocinchom.	--	0.4
Doramectin	--	0.5
Eprinomectin	*	1.6
Ethion	--	0.3
Famphur	--	273.2
Fenthion	0.3	52.0
Fenvalerate	0.2	7.0
Flucythrinate	*	1.9
Ivermectin	0.2	15.9
Lambda-cyhalothrin	*	0.6
Lindane	--	11.4
Malathion	0.5	81.5
Methoprene	*	4.2
Methoxychlor	2.5	53.9
Naled	--	23.1
Permethrin	6.3	62.7
Petroleum distillate	*	237.4
Phosmet	--	12.1
Piperonyl butoxide	7.8	50.8
Pirimiphos-methyl	*	4.3
Pyrethrins	1.2	10.1
Pyridaben	--	*
Pyriproxyfen	--	*
Sulfur	--	*
Tefluthrin	--	*
Tetrachlorvinphos	*	40.3
Toxaphene	--	*
Trichlorfon	*	10.5
Trimethacarb	--	*
Xylene	--	956.1
Zeta-cypermethrin	--	0.1
TOTAL INSECTICIDES	37.8	2,297.6
OTHER CHEMICALS:		
Sodium hypochlorite	--	*
TOTAL OTHER CHEMICALS	--	*

* *Insufficient reports to publish data.*

[1/] *All livestock includes beef cattle, dairy cattle,hogs, sheep, equine, and goats (goats in Texas only).*