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Case #: 0290 AI #: 53301 EPA'S QUANTITATIVE-USAGE ANALYSIS
 Analyst: Alan Halvorson Date: March 11, 1999

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Site	Units Treated (000)			% Units Treated			Pounds A.I.			Average Application Rates		
	Units Grown (000)	Wtd Ave	Est Max	Wtd Ave	Est Max	Wtd Ave	Est Max	Wtd Ave	Est Max	lb ai/unit/yr	appl/year	lb ai/unit
LIVESTOCK HEAD:												
U.S. Cattle/Calves --	96,136	7,012	10,518	7%	11%	148,037	222,055	0.025	1.0	0.025	0.026	0.0062
- Pour-on	96,136	5,156	7,734	5%	8%	136,590	204,885	0.026	1.0	0.026	0.0062	
- Ear tags	96,136	1,856	2,784	2%	3%	11,446	17,169	0.0062	1.0	0.0062		
- Beef cow herd	62,128	4,937	7,405	8%	12%							
- Pour-on	62,128	3,918	5,877	6%	9%							
- Ear tags	62,128	1,019	1,529	2%	2%							
- Milk cow herd	19,857	1,043	1,564	5%	8%							
- Pour-on	19,857	479	719	2%	4%							
- Ear tags	19,857	564	845	3%	4%							
FL Dairy Cattle Only	72	3	5	4%	7%							
ND Cattle Only ---												
- Beef, pour-on				2% (*)	3% (*)	12	18					
- Dairy, pour-on				0.6% (*)	0.9% (*)	0.2	0.3					
NE Only --												
- Beef cattle				7% (*)	11% (*)	81	121					
- Pour-on						81	121					
- Ear tags						0.006	0.009					
- Feedlot cattle, pour-on				14% (*)	21% (*)	295	443					
- Dairy cattle, pour-on				4% (*)	6% (*)	2	3					
- Swine, pour-on				6% (*)	9% (*)	26	39					
NV Only --												
- Beef cattle	539	47	71	9%	13%							
- Sheep	101	30	40	29%	39%							
SD Beef Cattle Only --												
- Pour-on	1,950	174	261	9%	13%	4,614	6,921	0.026	1.0	0.026	0.0062	
- Ear tags	1,950	17	25	1%	1%	104	155	0.0062	1.0	0.0062		
TN Beef Cattle Only						489	733					
WY Only --												
- Cattle	1,390	68	102	5%	7%	561	842	0.0083				
- Horses	41	0.1	0.2	0.3%	0.4%							
- Sheep	790	215	287	27%	36%	384	576	0.0018				
- Swine	51	0.3	0.4	1%	1%	0.6	0.9	0.0023				
ACREAGE:												
FL Mosquito Abate Dist	26,364	2,006	3,009	8%	11%	74,398	111,596	0.037	1.6	0.024		
Commercial Pesticide Appl						1,598	2,397					
CA Only --												
- Public health control						201	375					
- Structural pest control						37	44					
- Vertebrate pest control						3	5					
Total						224,058	336,088					

COLUMN HEADINGS

- Wtd Ave -- the most recent years and more reliable data are weighted more heavily.
- Est Max is estimated from available data.
- Average application rates are calculated from the weighted averages.
- Units of application rates are pounds a.i. per head or pounds a.i per acre.
- Units of livestock are 1000 head, units of acreage are 1000 acres, and units of pounds applied are pounds a.i.

NOTES ON TABLE DATA

- Usage data primarily covers 1990 - 1995.
- A dash (-) indicates that information on this site is NOT available in EPA sources or is insufficient.
- A star(*) indicates that this percentage is the percent of respondents using, not percent of animals treated.
- Availability of usage information for livestock is limited.
- Beef cow herd includes cows/heifers that have calved (which are mostly beef cows); heifers and heifer calves; and steers, steer calves, bulls, and bull calves.
- Milk cow herd includes cows/heifers that have calved (which are mostly milk cows); heifers and heifer calves; and steers, steer calves, bulls, and bull calves.

SOURCES

- Agricultural Marketing Research Services, The Market for Cattle Insecticides, June 1995
- CA EPA, Pesticide Use Reports, Annuals 1990-1995
- EPA proprietary source, 1997 data
- Kline & Co., Professional Markets for Pesticides and Fertilizers, 1995
- Research Triangle Institute, Results of the 1993 Certified/Commercial Pesticide Applicator Survey
- SD Dept. of Agric., SD Agriculture: 1996-1997
- SD State Univ., 1995 SD Beef Cattle Pesticide Use Survey
- Seehusen & Assocs., A Study of the Insecticide Usage on Mosquitoes in the U.S., 1994
- Univ. of FL, FL Coordinating Council on Mosquito Control, FL Mosquito Control, 1994-1995 data
- Univ. of FL, Pest and Pesticide Use Assessment Survey for FL Dairy Cattle for 1994
- Univ. of NE & WY and ND State Univ., A Survey of Insecticide Use for Controlling Arthropod Pests of Livestock in NE, ND, and WY -- 1994
- Univ. of NV, Pesticide Use in NV Agriculture: Grower's Response, 1990
- Univ. of TN, Assessment of Pesticide Use in TN Beef Cattle Production for 1995
- Univ. of WY, Pesticide Use on WY Major Crops and Livestock in 1994
- US Dept. of Commerce, 1992 Census of Agriculture: US

9
24