Chemical Applications on Lettuce

The Arizona Agricultural Statistics Office continues their series of on-farm agricultural chemical use statistics. The data presented in this summary are part of the data series on chemical use funded through the Water Quality Initiative.

The Water Quality Initiative is a multi-agency program designed to provide information for farmers, ranchers, and foresters to address on-farm and off-farm environmental issues. In the past, there has been an inadequate amount of farm level data to determine the magnitude of water quality problems or to permit an assessment of alternatives for farmers and other affected parties. This summary and other agricultural chemical reports help fill the needs of analysts evaluating the complex environmental issues.

The Arizona Agricultural Statistics Office is responsible for collecting on-farm agricultural chemical use information to support the evaluation of water quality and food safety issues. The Economic Research Service (ERS) conducts research on the impact of alternative pesticide regulations, policies, and practices.

Included in this summary is farm use of pesticides during 2002 on lettuce grown in Arizona. This data was not collected in 2003, since the survey is conducted every other year.

Lettuce: Agricultural Chemical Applications, 2002

Active Ingredient	Head Lettuce 2/					Other Lettuce 3/				
	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	Percent	Number	Pounds per Acre		1,000 Pounds	Percent	Number	Pounds per Acre		1,000 Pounds
Herbicides:										
Benefin	40	1.2	1.21	1.49	31.0					
Bensulide	27	1.0	3.93	3.94	56.5	17	1.5	3.98	6.10	19.7
Pronamide	41	1.1	0.74	0.82	17.6	65	1.6	0.79	1.27	15.3
Insecticides:										
Acephate	14	1.0	0.79	0.80	6.0					
Bt (Bacillus thur.) 1/	8	1.0								
Cypermethrin	35	1.0	0.08	0.08	1.5					
Diazinon	34	1.0	0.48	0.48	8.5	34	1.3	0.47	0.61	3.8
Dimethoate	10	1.1	0.24	0.28	1.4					
Endosulfan	18	1.0	0.92	0.94	8.7	4	1.1	0.87	1.00	0.7
Esfenvalerate	11	1.0	0.04	0.05	0.3					
Imidacloprid	18	1.0	0.18	0.19	1.7	22	1.9	0.22	0.43	1.8
Indoxacarb	27	1.0	0.06	0.07	0.9	33	1.6	0.06	0.11	0.7
Lambda-cyhalothrin	18	1.0	0.03	0.03	0.3	28	1.5	0.03	0.04	0.2
Methomyl	65	1.1	0.71	0.79	26.6	68	1.2	0.72	0.93	11.8
Permethrin	82	1.5	0.17	0.26	11.3	93	1.8	0.16	0.29	5.0
Spinosad	93	2.3	0.07	0.17	8.0	96	3.3	0.08	0.25	4.5
Tebufenozide	22	1.1	0.12	0.13	1.5	26	1.2	0.12	0.15	0.7
Zeta-cypermethrin	57	1.4	0.04	0.07	2.0					
Fungicides:										
Maneb	44	1.0	1.22	1.24	28.5	37	2.2	1.39	3.11	21.1

1/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.
2/ 51,900 planted acres.
3/ 21,400 planted acres.