

## Chemical Applications on Lettuce

The Arizona Agricultural Statistics Service 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 Service 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 1998 on lettuce grown in Arizona.

### Lettuce: Agricultural Chemical Applications, 1998 1/

Active Ingredient	Head Lettuce					Other Lettuce					
	Area applied	Applications	Rate per application	Rate per crop year	Total applied	Area applied	Applications	Rate per application	Rate per crop year	Total applied	
<b>Herbicides:</b>	Percent	Number	---Lbs per acre---			1,000 Lbs	Percent	Number	---Lbs per acre---		
Benefin	21	1.1	1.23	1.35	15.8	29	1.1	1.33	1.55	7.6	
Bensulide	11	1.0	3.56	3.58	22.2	15	1.9	4.31	8.44	21.6	
Pronamide	29	1.0	0.90	0.95	15.2	28	1.3			4.0	
Paraquat					2	1.0	0.70	0.71		0.3	
Sethoxydim	2	1.1	0.27	0.30	0.3	2	1.7	0.26	0.45	0.2	
<b>Insecticides:</b>											
Acephate					8	1.1	0.91	1.00		1.3	
Bt (Bacillus thur.) 2/	35	1.4			33	1.1					
Cypermethrin	70	1.5	0.08	0.12	4.7						
Dimethoate					9	1.6	0.24	0.40		0.6	
Endosulfan	18	1.0	0.85	0.92	9.1	21	1.1	0.78	0.92	3.2	
Imidacloprid	18	1.0	0.23	0.24	2.3						
Lambda-cyhalothrin	24	1.5	0.03	0.04	0.5	3	1.3	0.03	0.03	3/	
Methomyl	80	2.0	0.67	1.33	57.9						
Oxymyl	3/	1.0	0.89	0.89	0.2						
Permethrin	63	1.4	0.17	0.24	8.1						
Pyrethrins					3	1.2	0.01	0.02		3/	
Spinosad	65	1.3	0.09	0.11	4.0	74	1.5	0.09	0.13	1.6	
Tebufenozide	38	1.0	0.11	0.12	2.4	38	1.1	0.11	0.13	0.8	
Thiodicarb	6	1.0	0.69	0.74	2.2						
Zeta-cypermethrin	52	1.1	0.04	0.05	1.5						
<b>Fungicides:</b>											
Iprodione	7	1.0	0.88	0.90	3.2						
Fosetyl-al					44	1.2	2.45	2.95		21.9	
Maneb					79	1.6	1.34	2.22		29.3	
Mefenoxam	9	1.1	0.15	0.16	0.8	20	1.0	0.18	0.19	0.6	
Metalaxyd	2	1.0	0.23	0.23	0.2						
Vinclozolin	21	1.0	0.91	0.92	10.7	17	1.2	0.83	1.03	2.9	

1/ 2000 data will not be available until July 18, 2001.

2/ Rates and total applied are not available because amounts of active ingredient are not comparable between products.

3/ Value too small to publish.