

**Table 19.19-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER:  
2007 AND 2012**

Chemicals used	Unit	2007	2012
Any fertilizer, manure, or chemicals used	farms	5,742	4,457
Manure used	farms	705	634
	acres on which used	3,859	5,165
Any fertilizer or chemical expense	farms	6,158	5,101
	\$1,000	47,046	79,577
Commercial fertilizer, lime and soil conditioners used	farms	4,785	3,450
	acres on which used	116,530	109,503
Commercial fertilizer, lime and soil conditioners expenses	farms	5,653	4,428
	\$1,000	29,807	46,584
Chemical expenses	farms	4,207	4,487
	\$1,000	17,238	32,993
Chemicals used to control			
Insects	farms	2,012	2,349
	acres on which used	33,474	30,417
Nematodes	farms	253	379
	acres on which used	6,889	4,089
Diseases in crops and orchards	farms	836	963
	acres on which used	9,716	9,143
Weeds, grass, or brush	farms	3,053	3,299
	acres on which used	98,108	114,713
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate	farms	255	338
	acres on which used	15,677	19,000

Source: U.S. Department of Agriculture, *2012 Census of Agriculture, Hawaii*, (May 2014), p. 34.