NASS *Highlights*

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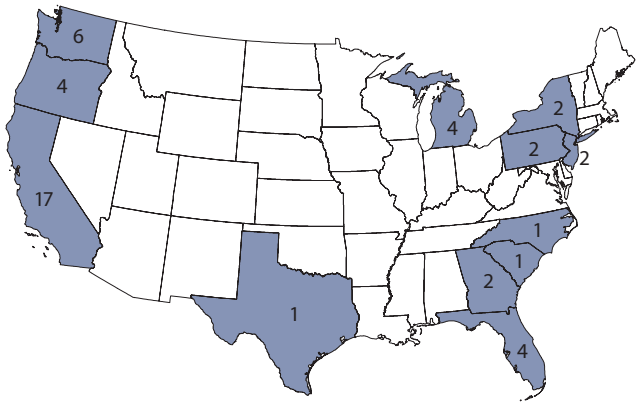
2025 AGRICULTURAL CHEMICAL USE
Fruit Crops

The 2025 Agricultural Chemical Use Survey of fruit producers collected data about pesticide use as well as pest management practices on acres planted to 20 different fruit crops. NASS conducted the survey among producers in 12 states, focusing on the states that were major producers for the surveyed crops. (Fig. 1)

Data are for the 2025 crop year, the one-year period beginning after the 2024 harvest and ending with the 2025 harvest. Data are available online for all 20 fruit crops (see sidebar for how to access). This document highlights three fruits – apples, blueberries, and peaches, each produced in at least six geographically diverse states.

Fig. 1. States Included in the 2025 Fruit Chemical Use Survey
(number of crops surveyed in state)



Pesticide Use

The pesticide active ingredients used on fruit are classified as *herbicides* (targeting weeds), *insecticides* (targeting insects), *fungicides* (targeting fungal disease), and *other chemicals* (targeting all other pests and other materials, including extraneous crop foliage).

Apple growers applied insecticides and fungicides to 77% and 75% of acres, respectively. Blueberry and peach growers applied fungicides to 75% and 89% percent of acres, respectively. Other chemicals were applied to 72% of the peach acres and 71% of apple acres, respectively. Herbicides were applied to 61% of the blueberry acres and 60% of the peach acres, respectively.

About the Survey

The Agricultural Chemical Use Program of USDA's National Agricultural Statistics Service (NASS) is the federal government's official source of statistics about on-farm and post-harvest commercial pesticide use and pest management practices. NASS conducts agricultural chemical use surveys as part of the Agricultural Resource Management Survey. NASS conducted the fruit chemical use survey in fall 2025.

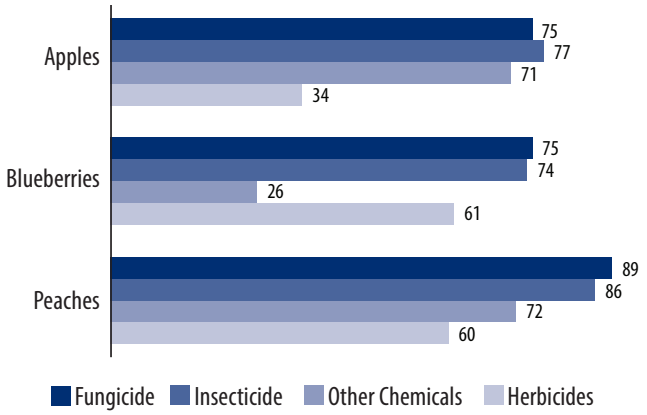
Access the Data

Access 2025 and earlier fruit chemical use data through the Quick Stats database (http://quickstats.nass.usda.gov).

- In Program, select "Survey"
- In Sector, select "Environmental"
- In Group, select "Fruit & Tree Nuts"
- In Commodity, select the fruit(s) you want data for
- Select your category, data item, geographic level, and year

For pre-defined Quick Stats queries that take you to data for a particular fruit, go to bit.ly/AgChem and click "Data Tables" under the 2025 Fruits heading. For survey methodology information, click "Methodology."

Fig. 2. Pesticides Applied to Selected Fruits, 2025 Crop Year
(percent of planted acres)



Percent of acres treated.

Pest Management Practices

The survey asked growers to report on the practices they used to manage pests, including weeds, insects, and diseases. Fruit growers reported practices in three categories. Table 2 shows the top practices in each category.

- *Prevention* practices involve actions to keep a pest population from infesting a crop or field.
- *Monitoring* practices involve observing or detecting pests through systematic sampling, counting, or other forms of scouting.
- *Suppression* practices involve controlling or reducing existing pest populations to mitigate crop damage.

Table 2. Top Practices in Pest Management Category, 2025 Crop Year
(percent of planted acres, 20 fruits)

Prevention: Crop acres irrigated	94
Prevention: Cleaned equipment and implements after field work	89
Monitoring: Scouted for insects and mites	98
Monitoring: Scouted for diseases	96
Monitoring: Scouted for weeds	96
Suppression: Used pesticides with different mechanisms of action to keep pest from becoming resistant to pesticides	72
Suppression: Applied biological pesticides	66
Suppression: Maintained ground covers, mulches or other physical barriers	66

Table 3. Top Pesticides Applied to Selected Fruits, 2025 Crop Year
(percent of planted acres, 20 fruits)

Active Ingredient	% of Acres with Ingredient Applied	Avg. Rate (lbs/acre)	Total Applied (lbs)
Fungicides			
Apples			
Calcium polysulfide	40	22.318	2,533,000
Trifloxystrobin	40	0.125	14,300
Blueberries			
Captan	52	4.265	199,600
Azoxystrobin	38	0.447	14,900
Peaches			
Sulfur	47	10.535	341,900
Pyraclostrobin	38	0.147	3,800
Insecticides			
Apples			
Carbaryl	51	1.665	244,400
Chlorantraniliprole	51	0.114	16,700
Blueberries			
Bifenthrin	23	0.436	8,700
Acetamiprid	20	0.218	3,900
Zeta-cypermethrin	20	0.060	1,100
Peaches			
Fenpropathrin	25	0.376	6,500
Esfenvalerate	24	0.104	1,700
Herbicides			
Apples			
Glyphosate isopropylamine salt	21	1.275[a]	75,700[a]
Pyraflufen-ethyl	15	0.006	200
Blueberries			
Flumioxazin	23	0.443	9,000
Mesotrione	18	0.149	2,300
Peaches			
Glyphosate isopropylamine salt	32	1.041[a]	22,800[a]
Glufosinate-ammonium	28	2.281	43,100
Other Chemicals			
Apples			
Mineral oil	41	37.778	4,443,300
Potassium 1-naphthaleneacetate	27	0.017	1,300
Blueberries			
Hydrogen peroxide	12	0.261	3,000
Peroxyacetic acid	12	0.049	600
Peaches			
Mineral oil	56	19.078	734,700
E-8-Dodecen-1-yl acetate	24	0.031	500
Z-8-Dodecen-1-yl acetate	24	0.310	5,100
(Z)-8-Dodecen-1-ol	24	0.006	100

[a]*Expressed in acid equivalent.*