



## Market Analysis and News Branch

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In Cooperation with the United States Department of Agriculture  
National Agricultural Statistics Service, Pacific Region

### Statistics on Agricultural Land Treated with Chemical and Fertilizer State of Hawai‘i, 2012 – 2022

The USDA NASS collects information on the acres of farmland treated with chemicals and fertilizer through the Census of Agriculture, which is conducted every five years. For each type of chemical used (e.g., fungicide, herbicide, and insecticide), the acres treated were reported only once, even if the acres were treated more than once. Furthermore, if multi-purpose chemicals were used, the acres treated for each purpose were reported.

In Hawai‘i, the area treated with fungicide increased by 136% from 9,143 acres in 2012 to 21,598 acres in 2022. In contrast, the area treated with herbicide decreased by 35% from 114,713 acres in 2012 to 74,641 acres in 2022. Additionally, the area treated with insecticide (excluding nematicides) increased by 66% from 30,417 acres in 2012 to 50,380 acres in 2017, before falling back to 33,906 acres in 2022. For nematicides only, the treated area increased by 42% from 4,089 acres in 2012 to 5,788 acres in 2022.

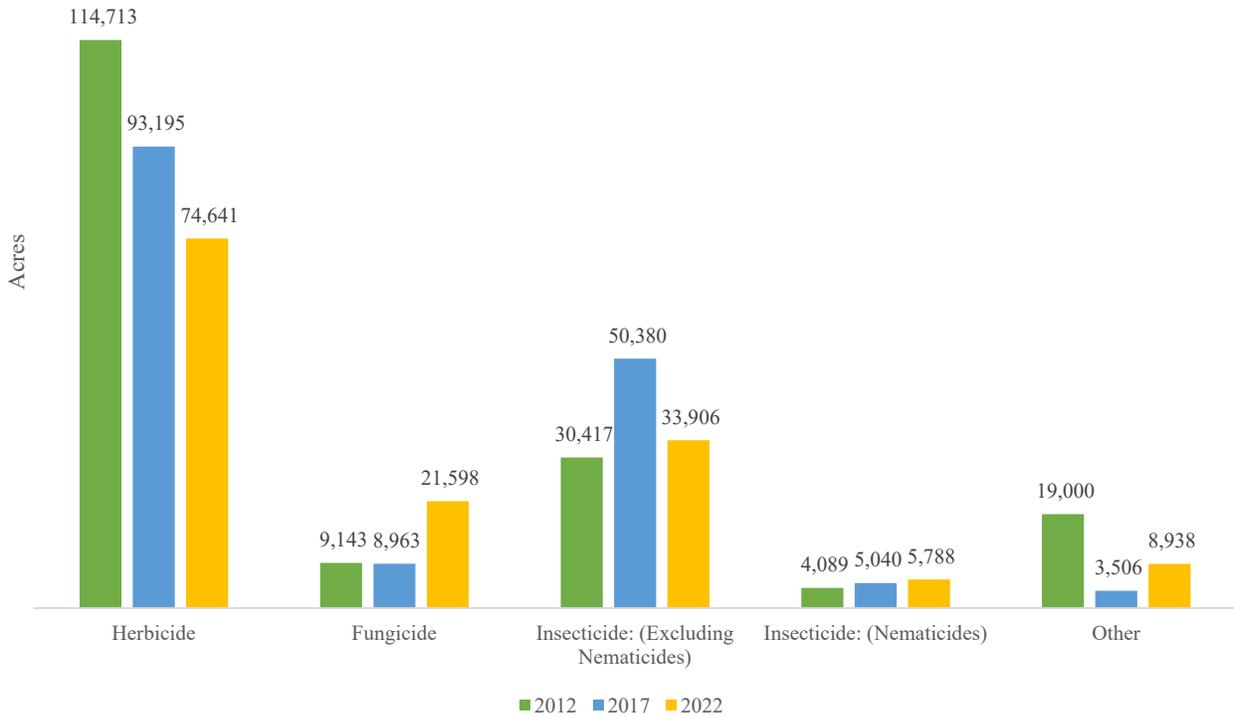
The area treated with fertilizer in Hawai‘i decreased by 29% from 109,503 acres in 2012 to 77,755 acres in 2022. More specifically, the area treated with manure declined by 35%, while the area treated with organic fertilizer declined by 5.8%. These two categories constituted a small portion of the total fertilizer application, with manure accounting for 4.3% (3,385 out of 77,755 acres) and organic fertilizer for 6.3% (4,930 out of 77,755 acres) in 2022.

**Table 1: Area Operated and Treated with Chemical and Fertilizer (Acres), Hawai‘i, 2012, 2017 & 2022**

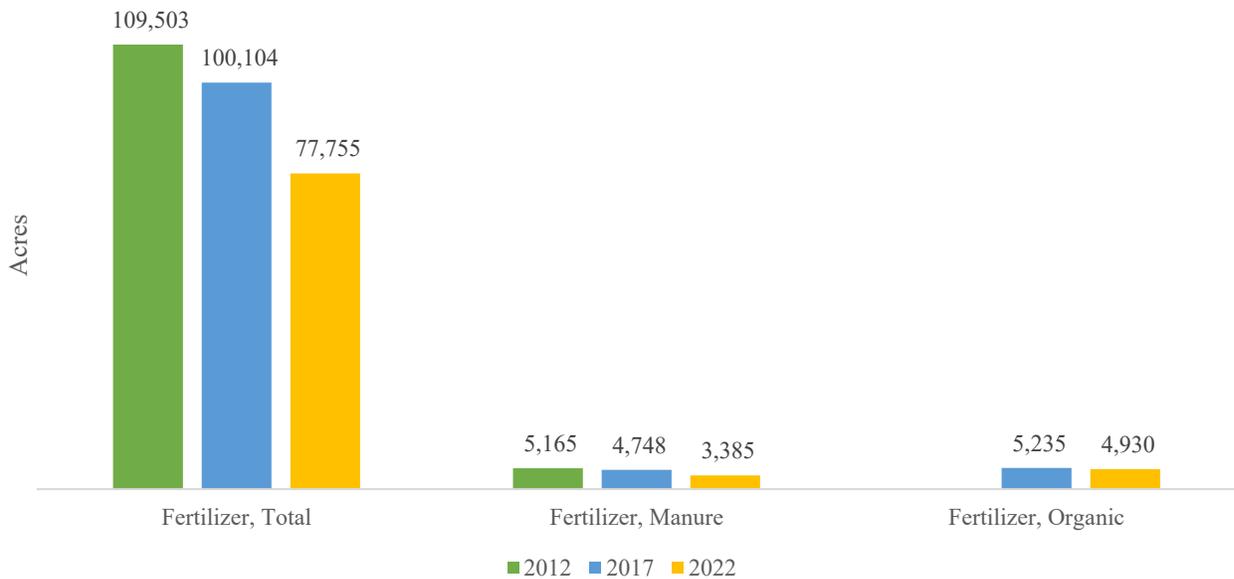
|                                     | 2012    | 2017    | 2022   |
|-------------------------------------|---------|---------|--------|
| Chemical                            |         |         |        |
| Fungicide                           | 9,143   | 8,963   | 21,598 |
| Herbicide                           | 114,713 | 93,195  | 74,641 |
| Insecticide (Excluding Nematicides) | 30,417  | 50,380  | 33,906 |
| Insecticide (Nematicides)           | 4,089   | 5,040   | 5,788  |
| Other                               | 19,000  | 3,506   | 8,938  |
| Fertilizer                          | 109,503 | 100,104 | 77,755 |
| Manure                              | 5,165   | 4,748   | 3,385  |
| Organic                             | -       | 5,235   | 4,930  |

Source: USDA NASS Census of Agriculture, 2012, 2017, and 2022.

**Chart 1: Area Operated and Treated with Chemical, Hawai'i, 2012, 2017, and 2022**



**Chart 2: Area Operated and Treated with Fertilizer, Hawai'i, 2012, 2017, and 2022**



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