About one-half of the total increase ( 1.3 million tons) of liquid fertilizer between 1969 and 1974 was applied to corn. Other crops, such as wheat and soybeans, for which comparable data are available also showed substantial increases in the use of liquid fertilizers.

## Table 8. Fertilizer Used or Purchased: 1909 to 1974

| All Farms | $\begin{gathered} \text { Farns } \\ \text { reporting } \end{gathered}$ | Increase or decrease(-)over preceding censuses |  | $\left\lvert\, \begin{gathered} \text { Percent } \\ \text { of all } \\ \text { farms } \end{gathered}\right.$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Farme | Perc |  |
|  | 1,625,097 | -328,4 | -26.8 | 70.2 |
|  | 1,953,510 | -210,207 | $-12.2$ | 71.6 |
|  | 2, 223, 217 | -154,737 | -6.5 | 70.4 |
| 1.1959 |  | - $\begin{array}{r}\text {-537, 952 } \\ 336,135\end{array}$ | -18.4 | 64.1 <br> 60.1 |
|  | 2,580,271 | 243,240 | 10.4 | 44.0 |
|  | 2,337,031 | 12,941 | ${ }^{6}$ | 38.3 |
|  | 2,324,0 | 140,034 | 6.4 | 36.9 <br> 36 |
|  | 2,184,056 | -87, 123 | -3.8 |  |
| ${ }_{19999 . . . . . . . . . . ~}^{\text {19, }}$ |  | 448,147 | 24.6 | 35.2 28.6 |

## Table 9. Fertilizer Used: 1954 to 1974

Farms With
Sales of $\$ 2,500$ and Over


| Tons of <br> fertilizer <br> used | Tncrease or <br> decrease $(-)$ |  |
| ---: | ---: | ---: |
|  | Tons Percent |  |
| $29,333,869$ | $3,124,818$ | 11.9 |
| $26,209,051$ | $4,786,356$ | 22.3 |
| $21,422,695$ | $4,040,410$ | 23.2 |
| $17,382,285$ | $2,480,868$ | 16.6 |
| $14,901,417$ | - | - |

Table 10. Dry and Liquid Fertilizer Used: 1959 to 1974

| Farms With Sales of | $\begin{aligned} & \text { Fertilizer } \\ & \text { (tons) used } \end{aligned}$ |  | Increase or decrease <br> $(-)$ over preceding censuses |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| $\$ 2,500$ <br> and Over | Dry | Liquid | $\begin{gathered} \text { Dry } \\ \text { (tons) } \end{gathered}$ | $\begin{aligned} & \text { Liquid } \\ & \text { (tons) } \end{aligned}$ |
| 1574. | 22,480,383 | 6,853,486 | 1,832,493 | 1,292,325 |
|  | 20,647,890 | 5,561,161 | 2,194,253 | 2,592,103 |
| 1964. | 18,453,637 | 2,969,058 | 2,628,107 | 1,412,303 |
| 1959. | 15,825,530 | 1,556,755 |  |  |

## Use on Selected Crops

The acreage of corn fertilized has increased 30 percent from 1969 to 1974 and the tonnage increased by almost one-fourth. The largest increase in acres fertilized and tons of fertilizer used on crops has been on corn, wheat, hay crops, soybeans, and cotton.

From 1969 to 1974, the average number of pounds per acre applied to all crops decreased 5.6 percent. Two primary contributors to the decline were the rapid price increase and the spot shortages of fertilizer which began occurring in 1973. The rate for corn decreased by about 4 percent This situation closely paralleled the fast-paced price rise of petroleum inputs used in fertilizer production.

For crops in States for which comparable data are available from prior censuses, the most significant increases in the use of fertilizer occurred for corn, wheat, and soybeans. These three crops also accounted for the largest increases in acres of crops harvested between the 1969 and 1974 censuses. The percent of corn acres fertilized increased 5 percent to 86 percent while wheat increased 7 percent to 62 percent. Soybeans, cotton, and hay crops show an average 3.7-percent increase in their respective acres fertilized. The acres fertilized for corn, wheat, and soybeans accounted for 67 percent of all acres of cropland fertilized. The comparable data for five selected crops are shown in table 11.

## Use on Fully Irrigated and Nonirrigated Selected Crops

Proportionally less nonirrigated harvested cropland is fertilized than fully irrigated harvested cropland. Table 12 shows that the overall percent of selected crops fertilized on fully irrigated cropland was 84.3 percent. However, the sum of the acres of nonirrigated selected crops harvested averaged 62.8 percent fertilized.

Vegetable, wheat, orchard, and tobacco acreage generally had a higher application rate of fertilizer per acre on fully irrigated crop acreage than on nonirrigated crops.

Corn, soybeans, and cotton acreage generally had a lower application rate of fertilizer per acre on fully irrigated crop acreage than on nonirrigated crops. This relationship may be the result of analysis of fertilizer used in different geographic areas and not necessarily a valid comparison if the nutrient values were known.

## Use of Lime and Liming Materials

In 1974, about 1 out of 12 farms with sales of $\$ 2,500$ or more reported the use of lime and liming materials. Both the number of these farms and the proportion of farms reporting the use of lime have decreased since 1964. The proportion of farms using lime has decreased from 15.1 to 8.5 percent since 1969. In 1974,

Table 11. Acres Fertilized for Selected Crops: 1969 and 1974
Farms With Sales of $\$ \mathbf{2 , 5 0 0}$ and Over


| Acres fertilized | Tons used |  |  |
| :---: | ---: | ---: | ---: |
| 1974 | 1969 | 1974 | 1969 |
|  |  |  |  |
| $61,417,259$ | $47,541,038$ | $11,834,744$ | $9,558,346$ |
| $38,785,874$ | $24,182,158$ | $3,270,790$ | $1,893,562$ |
| $14,785,316$ | $9,875,613$ | $1,728,123$ | $1,103,718$ |
| $9,733,967$ | $8,587,434$ | $1,673,987$ | $1,551,600$ |
| $10,061,006$ | $7,917,453$ | $1,462,985$ | $1,184,781$ |

## Table 12. Fertilizer Usage on Fully Irrigated and Nonirrigated Selected Crops: 1974

| Farms With Sales of \$2,500 and Over |
| :---: |
| comf for ail purpose |
| Sopbeans for beans.. |
| , ineat |
| vegetabies, sweet corn, |
|  |
| tand |
| acco. |


| Total <br> acres harvested | Fully irrigated |  |  |  |  |  |  | Nonirrigated |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Acres <br> harvested | Percent | Acres fertilized |  | Fertilizer used |  |  | Acres <br> harvested | Acres Eertilized |  | Fertilizer used |  |  |
|  |  |  | Total | Percent | $\begin{array}{r} \text { Dry } \\ \text { (tons) } \end{array}$ | liquid <br> (tons) | Pounds per acre |  | Total | percent | $\begin{array}{r} \text { Dry } \\ \text { (tons }) \end{array}$ | Liquid (Eons) | Pounds per ecre |
| 71,220,393 | 5,335,315 | 7.5 | 5,112,169 | 95.8 | 418,742 | 436,346 | 335 | 63,607,530 | 54,187,466 | 85.2 | 7,588,563 | 3,066,141 | 393 |
| 47,787,723 | 254,002 | . 5 | 136,454 | 53.7 | 11,974 | 2,024 | 205 | 46,874,394 | 14,315,033 | 30.5 | 1,512,656 | 168,098 | 235 |
| 12,128,978 | 3,114,461 | 25.7 | 2,693,966 | 86.5 | 272,825 | 171,325 | 330 | 7,828,641 | 6,335,197 | 8 C .9 | , 534,076 | 307, 924 | 361 |
| 62,594,072 | 2,495,720 | 4.0 | 2,171,244 | 87.0 | 188,135 | 117,478 | 282 | 57,685,650 | 35,184,458 | 61.0 | 2,151,726 | 705,502 | 162 |
| 3,070,068 | 1,479,517 | 48.2 | 1,432,689 | 96,8 | 543,160 | 172,912 | 1,000 | 1,288,155 | 964,530 | 74.9 | 240,572 | 30,706 | 563 |
| 4,048,121 | 2,244,315 | 55.4 | 1,860,641 | 82.9 | 546,843 | 69,405 | 662 | 1,243,736 | 796,932 | 64.1 | 243,200 | 9,667 | 635 |
| 842,041 | 70,506 | 8.4 | 70,457 | 99.9 | 70,585 | 718 | 2,024 | 733,377 | 730,029 | 99.5 | 668,120 | 7,195 | 1,850 |

