

**Table 39. Fertilizers and Chemicals Applied: 2002 and 1997**

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

| Item  | Kansas     | Allen   | Anderson | Atchison   | Barber   | Barton   | Bourbon |
|---|------------|---------|----------|------------|----------|----------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |            |         |          |            |          |          |         |
| farms, 2002   | 37,497     | 382     | 391      | 407        | 261      | 535      | 482     |
| 1997  | 43,746     | 352     | 525      | 530        | 297      | 597      | 434     |
| acres treated, 2002   | 18,108,114 | 92,922  | 123,518  | 106,012    | 164,741  | 363,974  | 105,447 |
| 1997  | 17,437,467 | 91,421  | 107,730  | 107,183    | 148,829  | 264,499  | 73,891  |
| Cropland fertilized, except cropland pastured                   |            |         |          |            |          |          |         |
| farms, 2002   | 33,682     | 352     | 313      | 326        | 260      | 534      | 334     |
| 1997  | 40,136     | 317     | 455      | 390        | 296      | 581      | 280     |
| acres treated, 2002   | 16,781,674 | 76,865  | 89,873   | 73,686     | 158,633  | 361,338  | 49,745  |
| 1997  | 16,717,947 | 82,380  | 87,363   | 80,478     | 146,986  | 262,897  | 42,687  |
| Pastureland and rangeland fertilized                            |            |         |          |            |          |          |         |
| farms, 2002   | 9,712      | 187     | 179      | 264        | 38       | 25       | 332     |
| 1997  | 8,175      | 109     | 153      | 314        | 17       | 35       | 234     |
| acres treated, 2002   | 1,326,440  | 16,057  | 33,645   | 32,326     | 6,108    | 2,636    | 55,702  |
| 1997  | 719,520    | 9,041   | 20,367   | 26,705     | 1,843    | 1,602    | 31,204  |
| Manure  |            |         |          |            |          |          |         |
| farms, 2002   | 5,881      | 89      | 93       | 71         | 15       | 27       | 58      |
| 1997  | (NA)       | (NA)    | (NA)     | (NA)       | (NA)     | (NA)     | (NA)    |
| acres treated, 2002   | 540,838    | 6,040   | 4,138    | 2,795      | 521      | 3,855    | 3,431   |
| 1997  | (NA)       | (NA)    | (NA)     | (NA)       | (NA)     | (NA)     | (NA)    |
| Chemicals used to control-                                      |            |         |          |            |          |          |         |
| Insects <sup>2</sup>  |            |         |          |            |          |          |         |
| farms, 2002   | 8,944      | 32      | 70       | 103        | 55       | 196      | 32      |
| 1997  | 9,509      | 48      | 64       | 77         | 30       | 170      | 37      |
| acres treated, 2002   | 2,175,534  | 2,456   | 24,766   | 21,043     | 19,500   | 37,528   | 1,740   |
| 1997  | 2,637,425  | 5,206   | 9,824    | 18,396     | 6,605    | 29,642   | 7,521   |
| Weeds, grass, or brush  |            |         |          |            |          |          |         |
| farms, 2002   | 24,597     | 302     | 322      | 288        | 137      | 427      | 201     |
| 1997  | 29,054     | 232     | 326      | 410        | 110      | 345      | 226     |
| acres treated, 2002   | 10,303,445 | 106,151 | 97,975   | 110,325    | 43,193   | 202,267  | 36,961  |
| 1997  | 10,505,603 | 77,169  | 119,812  | 92,730     | 38,170   | 128,268  | 44,718  |
| Nematodes   |            |         |          |            |          |          |         |
| farms, 2002   | 362        | -       | -        | -          | -        | 22       | 8       |
| 1997  | 481        | -       | -        | 10         | -        | 4        | 16      |
| acres treated, 2002   | 64,566     | -       | -        | -          | -        | 1,877    | 2,022   |
| 1997  | 112,086    | -       | -        | 190        | 460      | 10,810   | 1,112   |
| Diseases in crops and orchards                                  |            |         |          |            |          |          |         |
| farms, 2002   | 548        | -       | 2        | 10         | 10       | -        | 9       |
| 1997  | 892        | 2       | 11       | -          | 1        | 4        | -       |
| acres treated, 2002   | 71,114     | -       | (D)      | 2,000      | 1,540    | -        | 1,710   |
| 1997  | 153,056    | (D)     | (D)      | -          | (D)      | 233      | -       |
| Chemicals used to control growth, thin fruit, or defoliate      |            |         |          |            |          |          |         |
| farms, 2002   | 432        | 1       | 14       | -          | 19       | 4        | -       |
| 1997  | 676        | -       | 1        | 4          | 3        | 17       | 7       |
| acres on which used, 2002                                       | 94,612     | (D)     | 1,296    | -          | 4,623    | 1,435    | -       |
| 1997  | 160,951    | -       | (D)      | 1,996      | 775      | 2,186    | 420     |
| Item  | Brown      | Butler  | Chase    | Chautauqua | Cherokee | Cheyenne | Clark   |
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |            |         |          |            |          |          |         |
| farms, 2002   | 445        | 693     | 138      | 95         | 383      | 263      | 113     |
| 1997  | 487        | 704     | 197      | 184        | 466      | 330      | 160     |
| acres treated, 2002   | 194,263    | 223,088 | 42,299   | 18,974     | 144,720  | 169,677  | 91,250  |
| 1997  | 170,347    | 182,909 | 46,075   | 30,443     | 140,952  | 170,477  | 98,402  |
| Cropland fertilized, except cropland pastured                   |            |         |          |            |          |          |         |
| farms, 2002   | 416        | 605     | 122      | 56         | 309      | 263      | 113     |
| 1997  | 447        | 633     | 172      | 127        | 386      | 330      | 160     |
| acres treated, 2002   | 175,072    | 203,356 | 36,858   | 6,790      | 126,220  | 165,839  | 88,310  |
| 1997  | 147,456    | 165,878 | 40,958   | 21,086     | 125,137  | 170,477  | (D)     |
| Pastureland and rangeland fertilized                            |            |         |          |            |          |          |         |
| farms, 2002   | 170        | 171     | 44       | 57         | 156      | 6        | 7       |
| 1997  | 222        | 128     | 55       | 70         | 192      | -        | 2       |
| acres treated, 2002   | 19,191     | 19,732  | 5,441    | 12,184     | 18,500   | 3,838    | 2,940   |
| 1997  | 22,891     | 17,031  | 5,117    | 9,357      | 15,815   | -        | (D)     |
| Manure  |            |         |          |            |          |          |         |
| farms, 2002   | 90         | 92      | 17       | 15         | 62       | 37       | 23      |
| 1997  | (NA)       | (NA)    | (NA)     | (NA)       | (NA)     | (NA)     | (NA)    |
| acres treated, 2002   | 2,679      | 6,277   | 1,159    | 1,779      | 8,809    | 10,660   | 3,579   |
| 1997  | (NA)       | (NA)    | (NA)     | (NA)       | (NA)     | (NA)     | (NA)    |
| Chemicals used to control-                                      |            |         |          |            |          |          |         |
| Insects <sup>2</sup>  |            |         |          |            |          |          |         |
| farms, 2002   | 119        | 113     | 33       | 19         | 31       | 34       | 13      |
| 1997  | 59         | 162     | 34       | 3          | 67       | 87       | 15      |
| acres treated, 2002   | 40,694     | 32,022  | 2,122    | 2,454      | 6,096    | 14,982   | 4,808   |
| 1997  | 12,788     | 25,651  | 3,633    | (D)        | 24,496   | 32,689   | 3,059   |
| Weeds, grass, or brush  |            |         |          |            |          |          |         |
| farms, 2002   | 336        | 493     | 115      | 62         | 215      | 112      | 67      |
| 1997  | 362        | 437     | 104      | 98         | 269      | 205      | 96      |
| acres treated, 2002   | 188,197    | 186,180 | 25,789   | 15,253     | 96,709   | 63,916   | 40,076  |
| 1997  | 184,719    | 133,104 | 29,821   | 43,522     | 71,989   | 76,693   | 56,048  |
| Nematodes   |            |         |          |            |          |          |         |
| farms, 2002   | 6          | 2       | -        | -          | 2        | -        | -       |
| 1997  | 6          | 18      | 2        | -          | 1        | 7        | -       |
| acres treated, 2002   | 1,140      | (D)     | -        | -          | (D)      | -        | -       |
| 1997  | 260        | 2,304   | (D)      | -          | (D)      | 974      | -       |
| Diseases in crops and orchards                                  |            |         |          |            |          |          |         |
| farms, 2002   | 10         | 13      | 6        | 10         | 3        | 2        | -       |
| 1997  | 8          | 8       | 7        | 1          | 10       | 18       | -       |
| acres treated, 2002   | 6,406      | 1,562   | 18       | 1,274      | (D)      | (D)      | -       |
| 1997  | 376        | 2,892   | 14       | (D)        | (D)      | 2,166    | -       |
| Chemicals used to control growth, thin fruit, or defoliate      |            |         |          |            |          |          |         |
| farms, 2002   | 9          | -       | -        | 10         | 1        | -        | -       |
| 1997  | 23         | 6       | -        | -          | 1        | 1        | -       |
| acres on which used, 2002                                       | 1,539      | -       | -        | 239        | (D)      | -        | -       |
| 1997  | 2,387      | 2,216   | -        | -          | (D)      | (D)      | -       |

See footnote(s) at end of table.

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**Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.**

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

| Item  | Clay    | Cloud   | Coffey | Comanche | Cowley  | Crawford | Decatur |
|---|---------|---------|--------|----------|---------|----------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |         |         |        |          |         |          |         |
| farms, 2002   | 373     | 355     | 358    | 121      | 552     | 457      | 270     |
| 1997  | 410     | 393     | 376    | 171      | 681     | 539      | 315     |
| acres treated, 2002   | 191,900 | 211,167 | 76,704 | 75,440   | 171,870 | 143,032  | 161,315 |
| 1997  | 155,698 | 190,602 | 66,217 | 99,972   | 188,086 | 120,987  | 173,459 |
| farms, 2002   | 359     | 346     | 292    | 115      | 411     | 363      | 270     |
| 1997  | 410     | 386     | 313    | 170      | 606     | 436      | 315     |
| acres treated, 2002   | 185,793 | 203,368 | 69,421 | 74,700   | 158,994 | 114,578  | 158,398 |
| 1997  | 153,786 | 187,561 | 58,743 | (D)      | 177,422 | 92,719   | (D)     |
| Pastureland and rangeland fertilized                            |         |         |        |          |         |          |         |
| farms, 2002   | 93      | 58      | 135    | 8        | 189     | 218      | 20      |
| 1997  | 30      | 56      | 115    | 2        | 165     | 208      | 1       |
| acres treated, 2002   | 6,107   | 7,799   | 7,283  | 740      | 12,876  | 28,454   | 2,917   |
| 1997  | 1,912   | 3,041   | 7,474  | (D)      | 10,664  | 28,268   | (D)     |
| Manure  |         |         |        |          |         |          |         |
| farms, 2002   | 91      | 9       | 45     | 8        | 49      | 45       | 12      |
| 1997  | (NA)    | (NA)    | (NA)   | (NA)     | (NA)    | (NA)     | (NA)    |
| acres treated, 2002   | 3,681   | 575     | 982    | 1,202    | 3,374   | 3,075    | 805     |
| 1997  | (NA)    | (NA)    | (NA)   | (NA)     | (NA)    | (NA)     | (NA)    |
| Chemicals used to control-                                      |         |         |        |          |         |          |         |
| Insects <sup>2</sup>  |         |         |        |          |         |          |         |
| farms, 2002   | 118     | 86      | 127    | 28       | 73      | 67       | 36      |
| 1997  | 56      | 51      | 28     | 45       | 158     | 43       | 83      |
| acres treated, 2002   | 14,737  | 13,420  | 29,604 | 3,922    | 20,007  | 15,130   | 5,283   |
| 1997  | 6,126   | 13,098  | 3,598  | 9,093    | 22,222  | 2,015    | 23,324  |
| Weeds, grass, or brush  |         |         |        |          |         |          |         |
| farms, 2002   | 302     | 187     | 275    | 49       | 295     | 231      | 161     |
| 1997  | 352     | 314     | 289    | 91       | 423     | 271      | 179     |
| acres treated, 2002   | 150,352 | 116,882 | 91,421 | 12,612   | 109,077 | 86,988   | 78,106  |
| 1997  | 120,347 | 162,692 | 73,780 | 49,932   | 132,861 | 80,812   | 81,090  |
| Nematodes   |         |         |        |          |         |          |         |
| farms, 2002   | -       | -       | -      | -        | 16      | -        | 9       |
| 1997  | -       | -       | -      | -        | 1       | -        | -       |
| acres treated, 2002   | -       | -       | (D)    | -        | 6,110   | -        | 225     |
| 1997  | -       | (D)     | -      | -        | (D)     | -        | (D)     |
| Diseases in crops and orchards                                  |         |         |        |          |         |          |         |
| farms, 2002   | 1       | -       | -      | -        | 12      | -        | 1       |
| 1997  | 22      | 9       | 6      | 3        | 21      | 9        | 6       |
| acres treated, 2002   | (D)     | -       | -      | -        | 2,674   | -        | (D)     |
| 1997  | 134     | 7,311   | 66     | (D)      | 218     | 129      | 360     |
| Chemicals used to control growth, thin fruit, or defoliate      |         |         |        |          |         |          |         |
| farms, 2002   | -       | -       | 1      | 1        | 7       | 1        | 2       |
| 1997  | 6       | 2       | 14     | 4        | 19      | -        | 12      |
| acres on which used, 2002                                       | -       | -       | (D)    | (D)      | 3,916   | (D)      | (D)     |
| 1997  | 1,523   | (D)     | 3,156  | 3,752    | 5,163   | -        | 1,595   |

  

| Item  | Dickinson | Doniphan | Douglas | Edwards | Elk    | Ellis   | Ellsworth |
|---|-----------|----------|---------|---------|--------|---------|-----------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |           |          |         |         |        |         |           |
| farms, 2002   | 623       | 232      | 528     | 232     | 118    | 413     | 285       |
| 1997  | 719       | 327      | 554     | 219     | 224    | 380     | 336       |
| acres treated, 2002   | 290,146   | 108,292  | 78,904  | 207,253 | 28,662 | 130,323 | 126,508   |
| 1997  | 295,672   | 90,170   | 77,094  | 167,934 | 31,985 | 103,755 | 125,528   |
| farms, 2002   | 598       | 232      | 343     | 226     | 62     | 405     | 278       |
| 1997  | 689       | 297      | 438     | 205     | 176    | 379     | 336       |
| acres treated, 2002   | 270,292   | 97,871   | 59,594  | 202,152 | 13,452 | 129,115 | 124,422   |
| 1997  | 285,730   | 78,192   | 63,190  | 163,429 | 25,196 | (D)     | 124,854   |
| Pastureland and rangeland fertilized                            |           |          |         |         |        |         |           |
| farms, 2002   | 126       | 47       | 302     | 12      | 83     | 16      | 22        |
| 1997  | 163       | 116      | 187     | 16      | 68     | 2       | 16        |
| acres treated, 2002   | 19,854    | 10,421   | 19,310  | 5,101   | 15,210 | 1,208   | 2,086     |
| 1997  | 9,942     | 11,978   | 13,904  | 4,505   | 6,789  | (D)     | 674       |
| Manure  |           |          |         |         |        |         |           |
| farms, 2002   | 138       | 53       | 122     | 14      | 10     | 98      | 19        |
| 1997  | (NA)      | (NA)     | (NA)    | (NA)    | (NA)   | (NA)    | (NA)      |
| acres treated, 2002   | 10,578    | 1,822    | 2,252   | 2,465   | 5,783  | 22,020  | 1,578     |
| 1997  | (NA)      | (NA)     | (NA)    | (NA)    | (NA)   | (NA)    | (NA)      |
| Chemicals used to control-                                      |           |          |         |         |        |         |           |
| Insects <sup>2</sup>  |           |          |         |         |        |         |           |
| farms, 2002   | 178       | 110      | 47      | 72      | 14     | 56      | 38        |
| 1997  | 151       | 146      | 47      | 97      | 20     | 18      | 35        |
| acres treated, 2002   | 18,043    | 41,044   | 2,574   | 47,796  | 286    | 10,070  | 5,166     |
| 1997  | 25,697    | 15,712   | 8,014   | 45,015  | 4,266  | 2,494   | 9,202     |
| Weeds, grass, or brush  |           |          |         |         |        |         |           |
| farms, 2002   | 410       | 248      | 352     | 121     | 60     | 212     | 200       |
| 1997  | 500       | 285      | 322     | 163     | 116    | 229     | 205       |
| acres treated, 2002   | 173,311   | 98,284   | 80,054  | 101,294 | 22,648 | 73,517  | 52,328    |
| 1997  | 191,561   | 107,010  | 80,473  | 114,640 | 25,032 | 45,036  | 58,843    |
| Nematodes   |           |          |         |         |        |         |           |
| farms, 2002   | 1         | -        | 21      | 4       | -      | -       | 8         |
| 1997  | 7         | -        | -       | 6       | 7      | -       | -         |
| acres treated, 2002   | (D)       | -        | 21      | 6,104   | -      | -       | 320       |
| 1997  | 1,820     | -        | -       | 1,971   | 1,960  | -       | -         |
| Diseases in crops and orchards                                  |           |          |         |         |        |         |           |
| farms, 2002   | 1         | 1        | 20      | 2       | -      | -       | 1         |
| 1997  | 1         | 16       | 29      | 9       | -      | 8       | -         |
| acres treated, 2002   | (D)       | (D)      | 408     | (D)     | -      | -       | (D)       |
| 1997  | (D)       | 2,539    | 1,327   | 1,966   | -      | 720     | -         |
| Chemicals used to control growth, thin fruit, or defoliate      |           |          |         |         |        |         |           |
| farms, 2002   | -         | -        | -       | 2       | 10     | -       | -         |
| 1997  | 12        | 1        | 11      | 5       | 7      | -       | 2         |
| acres on which used, 2002                                       | -         | -        | -       | (D)     | 580    | -       | -         |
| 1997  | 1,837     | (D)      | 60      | 1,775   | 1,228  | -       | (D)       |

See footnote(s) at end of table.

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**Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.**

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

| Item  | Finney  | Ford    | Franklin  | Geary    | Gove    | Graham  | Grant   |
|---|---------|---------|-----------|----------|---------|---------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002 | 275     | 365     | 604       | 142      | 224     | 209     | 155     |
| 1997  | 368     | 471     | 700       | 153      | 319     | 250     | 180     |
| acres treated, 2002   | 331,351 | 279,930 | 110,237   | 50,236   | 193,059 | 151,354 | 134,318 |
| 1997  | 361,306 | 265,428 | 79,526    | 36,110   | 181,230 | 115,356 | 145,662 |
| Cropland fertilized, except cropland pastured . . . . . farms, 2002                   | 274     | 357     | 453       | 140      | 224     | 209     | 153     |
| 1997  | 368     | 471     | 600       | 153      | 319     | 250     | 179     |
| acres treated, 2002   | 330,140 | 277,377 | 85,570    | 45,457   | 193,059 | 150,949 | (D)     |
| 1997  | (D)     | (D)     | 67,613    | 35,233   | (D)     | (D)     | 145,043 |
| Pastureland and rangeland fertilized . . . . . farms, 2002                            | 6       | 38      | 303       | 28       | -       | 9       | 4       |
| 1997  | 4       | 1       | 205       | 23       | 2       | 1       | 5       |
| acres treated, 2002   | 1,211   | 2,553   | 24,667    | 4,779    | -       | 405     | (D)     |
| 1997  | (D)     | (D)     | 11,913    | 877      | (D)     | (D)     | 619     |
| Manure . . . . . farms, 2002  | 45      | 71      | 194       | 42       | 84      | 36      | 32      |
| 1997  | (NA)    | (NA)    | (NA)      | (NA)     | (NA)    | (NA)    | (NA)    |
| acres treated, 2002   | 16,060  | 18,024  | 7,864     | 1,327    | 8,811   | 7,498   | 6,290   |
| 1997  | (NA)    | (NA)    | (NA)      | (NA)     | (NA)    | (NA)    | (NA)    |
| Chemicals used to control-  |         |         |           |          |         |         |         |
| Insects <sup>2</sup> . . . . . farms, 2002  | 143     | 68      | 113       | 49       | 33      | 38      | 76      |
| 1997  | 229     | 158     | 38        | 32       | 84      | 49      | 138     |
| acres treated, 2002   | 93,989  | 41,071  | 11,736    | 4,313    | 4,025   | 6,628   | 38,018  |
| 1997  | 161,831 | 74,818  | 4,794     | 3,018    | 17,817  | 8,823   | 65,443  |
| Weeds, grass, or brush . . . . . farms, 2002  | 187     | 235     | 409       | 117      | 144     | 158     | 105     |
| 1997  | 285     | 282     | 483       | 128      | 220     | 177     | 141     |
| acres treated, 2002   | 193,123 | 116,338 | 117,648   | 34,018   | 106,005 | 62,779  | 69,707  |
| 1997  | 238,251 | 115,068 | 83,633    | 32,324   | 97,354  | 46,213  | 91,126  |
| Nematodes . . . . . farms, 2002   | 5       | 2       | 1         | -        | -       | 2       | 3       |
| 1997  | 8       | 4       | -         | -        | 22      | 2       | 4       |
| acres treated, 2002   | 3,328   | (D)     | (D)       | -        | (D)     | -       | 611     |
| 1997  | 7,412   | 2,120   | -         | -        | 2,288   | (D)     | 1,108   |
| Diseases in crops and orchards . . . . . farms, 2002                                  | 4       | 1       | 55        | 3        | -       | -       | 2       |
| 1997  | 5       | 8       | 9         | 16       | 12      | 5       | 5       |
| acres treated, 2002   | 2,392   | (D)     | 851       | (D)      | -       | -       | (D)     |
| 1997  | 6,801   | 2,005   | 18        | 3,004    | 2,149   | 2,550   | 1,904   |
| Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002      | 2       | 3       | 16        | 2        | 1       | -       | 8       |
| 1997  | 4       | 11      | 24        | -        | 1       | -       | 4       |
| acres on which used, 2002   | (D)     | 1,237   | 32        | (D)      | (D)     | -       | 1,280   |
| 1997  | 2,426   | 1,450   | 474       | -        | (D)     | -       | 1,050   |
| Item  | Gray    | Greeley | Greenwood | Hamilton | Harper  | Harvey  | Haskell |
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002 | 268     | 108     | 278       | 122      | 355     | 504     | 158     |
| 1997  | 370     | 182     | 295       | 159      | 545     | 686     | 189     |
| acres treated, 2002   | 276,508 | 141,689 | 48,757    | 129,877  | 241,137 | 239,838 | 221,070 |
| 1997  | 265,915 | 174,542 | 50,582    | 159,093  | 462,573 | 257,914 | 209,515 |
| Cropland fertilized, except cropland pastured . . . . . farms, 2002                   | 268     | 108     | 197       | 122      | 355     | 489     | 157     |
| 1997  | 367     | 182     | 236       | 159      | 533     | 673     | 187     |
| acres treated, 2002   | 273,469 | 141,689 | 33,340    | (D)      | 232,213 | 228,385 | 218,506 |
| 1997  | 265,185 | 174,402 | 42,453    | 159,093  | 459,884 | 256,023 | (D)     |
| Pastureland and rangeland fertilized . . . . . farms, 2002                            | 12      | -       | 106       | 2        | 57      | 83      | 11      |
| 1997  | 9       | 7       | 94        | -        | 19      | 62      | 3       |
| acres treated, 2002   | 3,039   | -       | 15,417    | (D)      | 8,924   | 11,453  | 2,564   |
| 1997  | 730     | 140     | 8,129     | -        | 2,689   | 1,891   | (D)     |
| Manure . . . . . farms, 2002  | 50      | 24      | 54        | 15       | 22      | 93      | 38      |
| 1997  | (NA)    | (NA)    | (NA)      | (NA)     | (NA)    | (NA)    | (NA)    |
| acres treated, 2002   | 12,265  | 5,497   | 13,621    | 4,299    | 1,720   | 7,774   | 7,277   |
| 1997  | (NA)    | (NA)    | (NA)      | (NA)     | (NA)    | (NA)    | (NA)    |
| Chemicals used to control-  |         |         |           |          |         |         |         |
| Insects <sup>2</sup> . . . . . farms, 2002  | 168     | 19      | 61        | 21       | 95      | 147     | 87      |
| 1997  | 260     | 55      | 45        | 64       | 88      | 240     | 145     |
| acres treated, 2002   | 77,264  | 7,503   | 3,090     | 7,035    | 31,749  | 28,359  | 82,882  |
| 1997  | 126,866 | 35,085  | 2,836     | 25,662   | 52,101  | 35,641  | 113,278 |
| Weeds, grass, or brush . . . . . farms, 2002  | 181     | 83      | 212       | 58       | 155     | 296     | 99      |
| 1997  | 279     | 116     | 198       | 98       | 181     | 504     | 138     |
| acres treated, 2002   | 135,859 | 79,345  | 98,767    | 46,608   | 50,625  | 140,103 | 114,055 |
| 1997  | 168,358 | 72,478  | 51,483    | 60,741   | 77,336  | 169,789 | 118,249 |
| Nematodes . . . . . farms, 2002   | 3       | -       | 8         | 1        | -       | -       | -       |
| 1997  | 20      | -       | -         | -        | -       | 1       | 8       |
| acres treated, 2002   | 390     | -       | 56        | (D)      | -       | -       | -       |
| 1997  | 5,315   | -       | -         | -        | -       | (D)     | 3,657   |
| Diseases in crops and orchards . . . . . farms, 2002                                  | 8       | -       | 9         | -        | -       | -       | 4       |
| 1997  | 17      | -       | 1         | 1        | 1       | 17      | 4       |
| acres treated, 2002   | 97      | -       | 321       | -        | -       | -       | 2,685   |
| 1997  | 4,438   | -       | (D)       | (D)      | (D)     | 2,741   | 1,921   |
| Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002      | 1       | -       | -         | -        | 6       | 9       | 12      |
| 1997  | 8       | -       | 7         | -        | 1       | 15      | 1       |
| acres on which used, 2002   | (D)     | -       | -         | -        | 4,065   | 554     | 5,567   |
| 1997  | 7,140   | -       | 420       | -        | (D)     | 3,074   | (D)     |

See footnote(s) at end of table.

--continued

**Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.**

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

| Item  | Hodgeman | Jackson | Jefferson | Jewell  | Johnson | Kearny  | Kingman | Kiowa   |
|---|----------|---------|-----------|---------|---------|---------|---------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> farms, 2002 | 208      | 554     | 667       | 388     | 376     | 141     | 494     | 181     |
| 1997  | 213      | 663     | 743       | 408     | 426     | 175     | 647     | 229     |
| acres treated, 2002   | 141,405  | 107,833 | 127,764   | 222,776 | 60,417  | 189,199 | 252,794 | 137,210 |
| 1997  | 122,623  | 96,480  | 105,043   | 191,743 | 57,582  | 182,356 | 366,586 | 143,826 |
| Cropland fertilized, except cropland pastured farms, 2002                   | 208      | 382     | 490       | 388     | 244     | 141     | 486     | 180     |
| 1997  | 213      | 488     | 576       | 381     | 317     | 175     | 640     | 229     |
| acres treated, 2002   | (D)      | 65,910  | 86,612    | 211,280 | 42,657  | 181,528 | 236,301 | 126,439 |
| 1997  | 122,623  | 51,615  | 75,813    | 190,471 | 41,340  | (D)     | 366,280 | (D)     |
| Pastureland and rangeland fertilized farms, 2002                            | 4        | 359     | 347       | 51      | 163     | 13      | 68      | 22      |
| 1997  | -        | 363     | 347       | 60      | 190     | 2       | 19      | 2       |
| acres treated, 2002   | (D)      | 41,923  | 41,152    | 11,496  | 17,760  | 7,671   | 16,493  | 10,771  |
| 1997  | -        | 44,865  | 29,230    | 1,272   | 16,242  | (D)     | 306     | (D)     |
| Manure farms, 2002  | 55       | 125     | 117       | 28      | 97      | 25      | 30      | 8       |
| 1997  | (NA)     | (NA)    | (NA)      | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    |
| acres treated, 2002   | 11,262   | 8,041   | 8,019     | 1,127   | 4,433   | 17,634  | 1,683   | 997     |
| 1997  | (NA)     | (NA)    | (NA)      | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    |
| Chemicals used to control-Insects <sup>2</sup> farms, 2002                  | 62       | 93      | 67        | 110     | 75      | 59      | 104     | 48      |
| 1997  | 62       | 32      | 63        | 59      | 92      | 91      | 242     | 69      |
| acres treated, 2002   | 13,121   | 11,441  | 4,696     | 9,446   | 12,063  | 61,332  | 42,761  | 25,261  |
| 1997  | 14,294   | 3,279   | 11,396    | 18,101  | 8,033   | 66,963  | 38,006  | 33,656  |
| Weeds, grass, or brush farms, 2002  | 166      | 342     | 525       | 249     | 222     | 95      | 280     | 83      |
| 1997  | 181      | 424     | 477       | 325     | 309     | 144     | 327     | 166     |
| acres treated, 2002   | 85,031   | 59,477  | 89,526    | 94,932  | 62,649  | 96,661  | 100,080 | 49,411  |
| 1997  | 66,426   | 60,960  | 71,599    | 145,312 | 53,009  | 109,251 | 146,426 | 65,111  |
| Nematodes farms, 2002   | 1        | 13      | 23        | 2       | 12      | 4       | 2       | -       |
| 1997  | -        | 10      | 8         | -       | 8       | 3       | -       | -       |
| acres treated, 2002   | (D)      | 1,810   | 2,622     | -       | 1,345   | 500     | -       | -       |
| 1997  | -        | 236     | 290       | (D)     | 720     | 832     | (D)     | -       |
| Diseases in crops and orchards farms, 2002                                  | 1        | -       | 1         | -       | 26      | 1       | 2       | -       |
| 1997  | -        | 17      | 2         | 1       | 11      | 8       | 8       | 16      |
| acres treated, 2002   | (D)      | -       | (D)       | -       | 743     | (D)     | (D)     | -       |
| 1997  | -        | 3,843   | (D)       | (D)     | 26      | 2,690   | 120     | 4,334   |
| Chemicals used to control growth, thin fruit, or defoliate farms, 2002      | -        | -       | -         | 11      | 12      | 4       | 2       | 3       |
| 1997  | 12       | -       | 16        | 11      | -       | 1       | 1       | 4       |
| acres on which used, 2002   | -        | -       | -         | 1,265   | 24      | (D)     | (D)     | (D)     |
| 1997  | 3,775    | -       | 3,323     | 1,100   | -       | (D)     | (D)     | 4,430   |

  

| Item  | Labette | Lane    | Leavenworth | Lincoln | Linn   | Logan   | Lyon    | McPherson |
|---|---------|---------|-------------|---------|--------|---------|---------|-----------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> farms, 2002 | 609     | 192     | 633         | 295     | 347    | 200     | 484     | 797       |
| 1997  | 629     | 213     | 724         | 341     | 425    | 177     | 604     | 1,046     |
| acres treated, 2002   | 197,056 | 151,010 | 76,670      | 165,834 | 64,446 | 125,141 | 113,730 | 356,577   |
| 1997  | 146,672 | 157,151 | 68,781      | 148,778 | 68,064 | 104,719 | 99,339  | 336,065   |
| Cropland fertilized, except cropland pastured farms, 2002                   | 366     | 187     | 510         | 286     | 200    | 200     | 431     | 777       |
| 1997  | 486     | 213     | 547         | 341     | 298    | 177     | 520     | 1,031     |
| acres treated, 2002   | 105,378 | 150,550 | 58,420      | 161,554 | 53,906 | 124,201 | 96,213  | 339,560   |
| 1997  | 108,339 | 157,151 | 51,439      | 147,512 | 46,418 | 104,719 | 86,306  | 334,186   |
| Pastureland and rangeland fertilized farms, 2002                            | 418     | 5       | 332         | 25      | 140    | 10      | 155     | 110       |
| 1997  | 330     | -       | 407         | 23      | 215    | -       | 177     | 61        |
| acres treated, 2002   | 91,678  | 460     | 18,250      | 4,280   | 10,540 | 940     | 17,517  | 17,017    |
| 1997  | 38,333  | -       | 17,342      | 1,266   | 21,646 | -       | 13,033  | 1,879     |
| Manure farms, 2002  | 78      | 34      | 154         | 13      | 41     | 25      | 69      | 140       |
| 1997  | (NA)    | (NA)    | (NA)        | (NA)    | (NA)   | (NA)    | (NA)    | (NA)      |
| acres treated, 2002   | 2,103   | 3,372   | 3,972       | 786     | 1,129  | 1,412   | 3,027   | 7,530     |
| 1997  | (NA)    | (NA)    | (NA)        | (NA)    | (NA)   | (NA)    | (NA)    | (NA)      |
| Chemicals used to control-Insects <sup>2</sup> farms, 2002                  | 43      | 15      | 57          | 88      | 10     | 17      | 119     | 233       |
| 1997  | 18      | 65      | 67          | 77      | 14     | 41      | 108     | 203       |
| acres treated, 2002   | 6,941   | 7,971   | 11,436      | 6,240   | 6,984  | 2,385   | 11,465  | 18,889    |
| 1997  | 1,700   | 12,066  | 5,220       | 11,285  | 2,688  | 17,193  | 9,483   | 36,562    |
| Weeds, grass, or brush farms, 2002  | 300     | 123     | 387         | 178     | 155    | 134     | 408     | 576       |
| 1997  | 270     | 148     | 417         | 268     | 230    | 130     | 492     | 776       |
| acres treated, 2002   | 103,978 | 91,818  | 54,565      | 55,135  | 35,834 | 78,309  | 91,069  | 190,391   |
| 1997  | 87,315  | 76,444  | 57,358      | 84,631  | 41,078 | 56,996  | 99,909  | 207,111   |
| Nematodes farms, 2002   | -       | 6       | 9           | 1       | 1      | -       | 1       | 15        |
| 1997  | 1       | -       | 1           | 2       | 10     | 2       | 7       | 10        |
| acres treated, 2002   | (D)     | 3,528   | 108         | 11      | (D)    | -       | (D)     | 15        |
| 1997  | -       | -       | (D)         | (D)     | 280    | (D)     | 70      | 4,206     |
| Diseases in crops and orchards farms, 2002                                  | 1       | 3       | 9           | -       | 1      | -       | 16      | 1         |
| 1997  | 1       | 5       | 19          | -       | 12     | 7       | -       | 11        |
| acres treated, 2002   | (D)     | (D)     | 108         | -       | (D)    | -       | 1,676   | (D)       |
| 1997  | (D)     | 100     | 3,229       | -       | 442    | 4,150   | -       | 30        |
| Chemicals used to control growth, thin fruit, or defoliate farms, 2002      | -       | 2       | 1           | 14      | 1      | 1       | -       | -         |
| 1997  | 1       | 1       | 1           | 50      | 10     | 1       | 1       | 11        |
| acres on which used, 2002   | -       | (D)     | (D)         | 314     | (D)    | (D)     | -       | -         |
| 1997  | (D)     | (D)     | (D)         | 12,587  | 2,894  | (D)     | (D)     | 3,443     |

See footnote(s) at end of table.

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**Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.**

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

| Item  | Marion  | Marshall | Meade   | Miami   | Mitchell | Montgomery | Morris  | Morton  |
|---|---------|----------|---------|---------|----------|------------|---------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |         |          |         |         |          |            |         |         |
| farms, 2002   | 637     | 690      | 255     | 767     | 374      | 389        | 318     | 106     |
| 1997  | 809     | 676      | 283     | 797     | 419      | 486        | 330     | 132     |
| acres treated, 2002   | 281,076 | 308,453  | 192,113 | 140,356 | 254,679  | 124,908    | 103,356 | 143,351 |
| 1997  | 260,329 | 210,267  | 194,449 | 95,044  | 288,203  | 113,423    | 70,504  | 133,997 |
| Cropland fertilized, except cropland pastured                   |         |          |         |         |          |            |         |         |
| farms, 2002   | 595     | 660      | 252     | 514     | 374      | 315        | 302     | 106     |
| 1997  | 798     | 645      | 283     | 534     | 418      | 327        | 320     | 132     |
| acres treated, 2002   | 255,012 | 271,716  | 187,564 | 79,485  | 244,103  | 107,688    | 85,474  | 141,586 |
| 1997  | 253,156 | 199,430  | (D)     | 66,749  | 285,360  | 92,224     | 66,249  | 133,997 |
| Pastureland and rangeland fertilized                            |         |          |         |         |          |            |         |         |
| farms, 2002   | 197     | 232      | 14      | 433     | 46       | 206        | 72      | 7       |
| 1997  | 70      | 133      | 2       | 489     | 35       | 269        | 41      | -       |
| acres treated, 2002   | 26,064  | 36,737   | 4,549   | 60,871  | 10,576   | 17,220     | 17,882  | 1,765   |
| 1997  | 7,173   | 10,837   | (D)     | 28,295  | 2,843    | 21,199     | 4,255   | -       |
| Manure  |         |          |         |         |          |            |         |         |
| farms, 2002   | 178     | 133      | 59      | 122     | 26       | 66         | 70      | 6       |
| 1997  | (NA)    | (NA)     | (NA)    | (NA)    | (NA)     | (NA)       | (NA)    | (NA)    |
| acres treated, 2002   | 14,866  | 5,134    | 11,781  | 4,169   | 1,979    | 4,243      | 3,226   | 2,034   |
| 1997  | (NA)    | (NA)     | (NA)    | (NA)    | (NA)     | (NA)       | (NA)    | (NA)    |
| Chemicals used to control-                                      |         |          |         |         |          |            |         |         |
| Insects <sup>2</sup>  |         |          |         |         |          |            |         |         |
| farms, 2002   | 247     | 176      | 117     | 90      | 102      | 73         | 88      | 21      |
| 1997  | 237     | 103      | 120     | 47      | 58       | 21         | 72      | 57      |
| acres treated, 2002   | 37,289  | 24,118   | 63,530  | 9,423   | 12,717   | 9,144      | 5,742   | 12,872  |
| 1997  | 28,116  | 13,274   | 67,277  | 7,425   | 11,079   | 3,057      | 4,356   | 31,429  |
| Weeds, grass, or brush  |         |          |         |         |          |            |         |         |
| farms, 2002   | 480     | 551      | 152     | 432     | 239      | 225        | 279     | 65      |
| 1997  | 568     | 541      | 174     | 407     | 350      | 264        | 244     | 94      |
| acres treated, 2002   | 176,726 | 223,790  | 103,910 | 76,222  | 108,021  | 86,144     | 84,245  | 55,190  |
| 1997  | 158,081 | 196,650  | 96,146  | 70,197  | 174,204  | 99,916     | 61,155  | 68,971  |
| Nematodes   |         |          |         |         |          |            |         |         |
| farms, 2002   | -       | 1        | 3       | 1       | -        | -          | -       | -       |
| 1997  | 12      | -        | 2       | 8       | 11       | -          | -       | -       |
| acres treated, 2002   | -       | 2,982    | 2,391   | (D)     | -        | -          | -       | -       |
| 1997  | 2,545   | -        | (D)     | 240     | 3,300    | -          | -       | -       |
| Diseases in crops and orchards                                  |         |          |         |         |          |            |         |         |
| farms, 2002   | 8       | 1        | 4       | -       | 9        | 1          | -       | -       |
| 1997  | 13      | 1        | 7       | 21      | 12       | -          | -       | 2       |
| acres treated, 2002   | 2,625   | (D)      | (D)     | -       | 728      | (D)        | -       | -       |
| 1997  | 1,982   | (D)      | 4,437   | 271     | 3,714    | -          | -       | (D)     |
| Chemicals used to control growth, thin fruit, or defoliate      |         |          |         |         |          |            |         |         |
| farms, 2002   | 24      | -        | 1       | -       | 3        | 2          | 2       | 4       |
| 1997  | 7       | 17       | 2       | 8       | 3        | 1          | 1       | -       |
| acres on which used, 2002                                       | 9,036   | -        | (D)     | -       | 1,112    | (D)        | (D)     | 664     |
| 1997  | 2,555   | 1,225    | (D)     | 1,024   | (D)      | (D)        | (D)     | -       |

  

| Item  | Nemaha  | Neosho  | Ness    | Norton  | Osage   | Osborne | Ottawa  | Pawnee  |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |         |         |         |         |         |         |         |         |
| farms, 2002   | 704     | 462     | 313     | 275     | 530     | 357     | 347     | 302     |
| 1997  | 736     | 478     | 307     | 273     | 542     | 389     | 372     | 328     |
| acres treated, 2002   | 205,438 | 135,149 | 181,549 | 156,351 | 98,303  | 209,679 | 158,938 | 269,081 |
| 1997  | 185,118 | 116,962 | 155,953 | 159,194 | 79,278  | 174,450 | 173,253 | 181,635 |
| Cropland fertilized, except cropland pastured                   |         |         |         |         |         |         |         |         |
| farms, 2002   | 630     | 328     | 312     | 269     | 390     | 357     | 329     | 298     |
| 1997  | 650     | 419     | 298     | 257     | 474     | 389     | 372     | 321     |
| acres treated, 2002   | 166,240 | 97,580  | (D)     | 148,555 | 75,970  | 199,497 | 141,277 | 253,788 |
| 1997  | 158,453 | 85,515  | 153,883 | 157,744 | 66,549  | 174,240 | 172,491 | 179,325 |
| Pastureland and rangeland fertilized                            |         |         |         |         |         |         |         |         |
| farms, 2002   | 328     | 230     | 2       | 16      | 223     | 45      | 34      | 34      |
| 1997  | 323     | 207     | 18      | 16      | 156     | 6       | 28      | 11      |
| acres treated, 2002   | 39,198  | 37,569  | (D)     | 7,796   | 22,333  | 10,182  | 17,661  | 15,293  |
| 1997  | 26,665  | 31,447  | 2,070   | 1,450   | 12,729  | 210     | 762     | 2,310   |
| Manure  |         |         |         |         |         |         |         |         |
| farms, 2002   | 148     | 49      | 37      | 18      | 32      | 42      | 36      | 38      |
| 1997  | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    |
| acres treated, 2002   | 9,164   | 3,246   | 1,333   | 1,629   | 1,587   | 2,776   | 2,098   | 5,860   |
| 1997  | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    |
| Chemicals used to control-                                      |         |         |         |         |         |         |         |         |
| Insects <sup>2</sup>  |         |         |         |         |         |         |         |         |
| farms, 2002   | 152     | 68      | 27      | 48      | 56      | 89      | 93      | 102     |
| 1997  | 95      | 77      | 55      | 56      | 79      | 72      | 63      | 124     |
| acres treated, 2002   | 18,727  | 11,966  | 2,057   | 8,662   | 5,713   | 8,926   | 13,894  | 29,417  |
| 1997  | 14,332  | 7,532   | 30,038  | 8,024   | 6,659   | 7,260   | 5,936   | 29,615  |
| Weeds, grass, or brush  |         |         |         |         |         |         |         |         |
| farms, 2002   | 529     | 218     | 242     | 94      | 432     | 230     | 284     | 170     |
| 1997  | 594     | 325     | 226     | 201     | 479     | 253     | 308     | 196     |
| acres treated, 2002   | 148,814 | 70,343  | 105,492 | 50,804  | 108,746 | 88,917  | 79,234  | 114,647 |
| 1997  | 143,605 | 78,622  | 70,414  | 79,550  | 110,825 | 112,832 | 132,718 | 94,548  |
| Nematodes   |         |         |         |         |         |         |         |         |
| farms, 2002   | 1       | 10      | -       | -       | 13      | -       | -       | 1       |
| 1997  | 13      | -       | 8       | -       | 8       | -       | -       | -       |
| acres treated, 2002   | (D)     | 2,907   | -       | -       | 1,950   | -       | -       | (D)     |
| 1997  | 517     | -       | 3,700   | -       | 270     | -       | -       | -       |
| Diseases in crops and orchards                                  |         |         |         |         |         |         |         |         |
| farms, 2002   | 10      | 22      | -       | -       | -       | -       | 2       | 6       |
| 1997  | 5       | 11      | 24      | -       | 6       | 13      | 7       | -       |
| acres treated, 2002   | 10      | 130     | -       | -       | -       | -       | (D)     | 1,505   |
| 1997  | 742     | 82      | 4,408   | -       | 18      | 1,235   | 2,536   | -       |
| Chemicals used to control growth, thin fruit, or defoliate      |         |         |         |         |         |         |         |         |
| farms, 2002   | 17      | -       | -       | 1       | 1       | -       | 1       | 8       |
| 1997  | 1       | 24      | 24      | 8       | -       | 5       | -       | -       |
| acres on which used, 2002                                       | 920     | -       | (D)     | (D)     | (D)     | -       | (D)     | 720     |
| 1997  | (D)     | 1,668   | 14,970  | 1,341   | -       | 1,750   | -       | -       |

See footnote(s) at end of table.

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**Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.**

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

| Item  | Phillips | Pottawatomie | Pratt   | Rawlins | Reno    | Republic | Rice    | Riley  |
|---|----------|--------------|---------|---------|---------|----------|---------|--------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> farms, 2002 | 352      | 472          | 409     | 269     | 811     | 439      | 312     | 238    |
| 1997  | 337      | 430          | 347     | 348     | 956     | 537      | 429     | 334    |
| acres treated, 2002   | 170,520  | 95,368       | 261,368 | 214,894 | 413,015 | 214,188  | 241,491 | 78,278 |
| 1997  | 135,695  | 86,313       | 284,264 | 205,944 | 373,951 | 232,449  | 261,491 | 59,755 |
| Cropland fertilized, except cropland pastured farms, 2002                   | 334      | 399          | 407     | 269     | 787     | 422      | 295     | 231    |
| 1997  | 337      | 393          | 341     | 348     | 940     | 530      | 429     | 291    |
| acres treated, 2002   | 167,505  | 75,242       | 246,781 | 208,006 | 395,312 | 206,230  | 226,844 | 63,609 |
| 1997  | 135,475  | 77,630       | 280,764 | 205,944 | 372,154 | 231,039  | (D)     | 56,485 |
| Pastureland and rangeland fertilized farms, 2002                            | 26       | 154          | 53      | 12      | 142     | 44       | 41      | 57     |
| 1997  | 5        | 71           | 12      | -       | 50      | 31       | 2       | 66     |
| acres treated, 2002   | 3,015    | 20,126       | 14,587  | 6,888   | 17,703  | 7,958    | 14,647  | 14,669 |
| 1997  | 220      | 8,683        | 3,500   | -       | 1,797   | 1,410    | (D)     | 3,270  |
| Manure farms, 2002  | 100      | 69           | 43      | 26      | 129     | 26       | (D)     | 92     |
| 1997  | (NA)     | (NA)         | (NA)    | (NA)    | (NA)    | (NA)     | (NA)    | (NA)   |
| acres treated, 2002   | 3,818    | 2,972        | 6,123   | 3,415   | 6,401   | 861      | 2,387   | 3,164  |
| 1997  | (NA)     | (NA)         | (NA)    | (NA)    | (NA)    | (NA)     | (NA)    | (NA)   |
| Chemicals used to control-Insects <sup>2</sup> farms, 2002                  | 65       | 65           | 89      | 29      | 270     | 166      | 130     | 102    |
| 1997  | 71       | 58           | 112     | 39      | 338     | 176      | 124     | 86     |
| acres treated, 2002   | 7,348    | 8,337        | 39,740  | 3,939   | 46,758  | 19,802   | 17,366  | 5,677  |
| 1997  | 25,923   | 7,305        | 76,325  | 10,989  | 41,343  | 43,879   | 27,766  | 9,249  |
| Weeds, grass, or brush farms, 2002  | 238      | 324          | 169     | 168     | 530     | 288      | 223     | 231    |
| 1997  | 227      | 350          | 183     | 204     | 529     | 459      | 310     | 258    |
| acres treated, 2002   | 105,572  | 105,131      | 114,176 | 86,064  | 214,948 | 154,456  | 145,950 | 59,005 |
| 1997  | 68,031   | 76,926       | 150,958 | 99,150  | 187,211 | 195,736  | 139,845 | 54,946 |
| Nematodes farms, 2002   | 2        | 1            | 2       | 3       | -       | -        | 1       | 6      |
| 1997  | 6        | 4            | 7       | 7       | 35      | -        | (D)     | 330    |
| acres treated, 2002   | (D)      | (D)          | (D)     | (D)     | (D)     | (D)      | (D)     | (D)    |
| 1997  | 2,300    | (D)          | 893     | -       | 914     | 7,654    | (D)     | -      |
| Diseases in crops and orchards farms, 2002                                  | 14       | 12           | 2       | 1       | 2       | 7        | 5       | 5      |
| 1997  | 6        | 6            | 22      | 9       | 8       | 7        | 11      | 4      |
| acres treated, 2002   | 11,200   | 794          | (D)     | (D)     | (D)     | 1,862    | (D)     | 45     |
| 1997  | -        | 12           | 6,250   | -       | 2,482   | 4,137    | (D)     | (D)    |
| Chemicals used to control growth, thin fruit, or defoliate farms, 2002      | -        | 1            | 20      | 1       | 12      | 7        | -       | 1      |
| 1997  | 1        | 26           | 1       | 5       | -       | 3        | 30      | -      |
| acres on which used, 2002   | (D)      | (D)          | 4,660   | (D)     | 1,510   | 532      | -       | (D)    |
| 1997  | (D)      | 1,398        | (D)     | 2,325   | -       | (D)      | 1,639   | -      |

  

| Item  | Rooks   | Rush    | Russell | Saline  | Scott   | Sedgwick | Seward  | Shawnee |
|---|---------|---------|---------|---------|---------|----------|---------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> farms, 2002 | 254     | 300     | 250     | 429     | 195     | 910      | 115     | 420     |
| 1997  | 303     | 354     | 294     | 554     | 205     | 1,187    | 125     | 581     |
| acres treated, 2002   | 161,338 | 163,776 | 135,948 | 175,760 | 236,898 | 326,170  | 128,838 | 82,004  |
| 1997  | 167,458 | 157,493 | 101,555 | 225,410 | 152,781 | 435,234  | 136,174 | 73,640  |
| Cropland fertilized, except cropland pastured farms, 2002                   | 254     | 300     | 250     | 410     | 189     | 888      | 111     | 344     |
| 1997  | 303     | 354     | 293     | 546     | 205     | 1,166    | 125     | 480     |
| acres treated, 2002   | 158,332 | 161,690 | 134,740 | 174,194 | 234,178 | 313,003  | 126,113 | 69,243  |
| 1997  | 167,080 | 157,173 | 100,614 | 224,830 | 152,781 | 432,948  | 135,476 | 65,463  |
| Pastureland and rangeland fertilized farms, 2002                            | 3       | 31      | 9       | 23      | 21      | 162      | 13      | 191     |
| 1997  | 9       | 7       | 4       | 24      | -       | 48       | 4       | 155     |
| acres treated, 2002   | 3,006   | 2,086   | 1,208   | 1,566   | 2,720   | 13,167   | 2,725   | 12,761  |
| 1997  | 378     | 320     | 941     | 580     | -       | 2,286    | 698     | 8,177   |
| Manure farms, 2002  | 18      | 44      | 42      | 64      | 66      | 116      | 26      | 94      |
| 1997  | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)     | (NA)    | (NA)    |
| acres treated, 2002   | 1,671   | 2,531   | 1,538   | 3,539   | 26,433  | 5,126    | 11,011  | 3,088   |
| 1997  | (NA)    | (NA)    | (NA)    | (NA)    | (NA)    | (NA)     | (NA)    | (NA)    |
| Chemicals used to control-Insects <sup>2</sup> farms, 2002                  | 57      | 61      | 69      | 120     | 85      | 386      | 51      | 126     |
| 1997  | 35      | 32      | 11      | 122     | 116     | 282      | 82      | 94      |
| acres treated, 2002   | 7,157   | 3,791   | 7,420   | 16,128  | 38,121  | 43,920   | 40,235  | 9,939   |
| 1997  | 2,786   | 3,163   | (D)     | 17,096  | 31,398  | 38,202   | 60,174  | 11,444  |
| Weeds, grass, or brush farms, 2002  | 189     | 237     | 179     | 176     | 163     | 606      | 75      | 381     |
| 1997  | 203     | 225     | 166     | 370     | 168     | 562      | 111     | 384     |
| acres treated, 2002   | 83,568  | 73,768  | 66,482  | 64,939  | 214,046 | 134,469  | 65,072  | 88,407  |
| 1997  | 82,362  | 70,086  | 35,695  | 146,707 | 103,717 | 171,727  | 113,005 | 66,681  |
| Nematodes farms, 2002   | 1       | 2       | -       | -       | 25      | 12       | 2       | 37      |
| 1997  | -       | -       | -       | 10      | 3       | 20       | 3       | 4       |
| acres treated, 2002   | (D)     | (D)     | -       | -       | 7,439   | (D)      | (D)     | 1,210   |
| 1997  | -       | -       | -       | 400     | (D)     | 910      | 1,782   | 24      |
| Diseases in crops and orchards farms, 2002                                  | 1       | -       | -       | -       | -       | 30       | -       | 32      |
| 1997  | -       | -       | -       | 16      | 1       | 39       | 9       | 35      |
| acres treated, 2002   | (D)     | -       | -       | -       | -       | 1,152    | -       | 947     |
| 1997  | -       | -       | -       | 1,258   | (D)     | 3,983    | 1,405   | 964     |
| Chemicals used to control growth, thin fruit, or defoliate farms, 2002      | 1       | 8       | -       | 1       | 1       | 22       | 1       | 17      |
| 1997  | 1       | 7       | -       | -       | 11      | 43       | -       | 6       |
| acres on which used, 2002   | (D)     | 3,579   | -       | (D)     | (D)     | 1,361    | (D)     | 530     |
| 1997  | (D)     | 700     | -       | -       | 5,340   | 2,111    | -       | 6       |

See footnote(s) at end of table.

--continued

**Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.**

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

| Item  | Sheridan | Sherman | Smith   | Stafford | Stanton | Stevens | Sumner  | Thomas  |
|---|----------|---------|---------|----------|---------|---------|---------|---------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |          |         |         |          |         |         |         |         |
| farms, 2002   | 309      | 264     | 374     | 281      | 140     | 157     | 768     | 318     |
| 1997  | 339      | 351     | 441     | 353      | 150     | 182     | 1,087   | 455     |
| acres treated, 2002   | 249,334  | 232,103 | 242,806 | 241,943  | 167,548 | 253,140 | 535,332 | 307,647 |
| 1997  | 178,590  | 249,033 | 210,586 | 215,148  | 166,185 | 247,837 | 669,111 | 331,932 |
| Cropland fertilized, except cropland pastured                   |          |         |         |          |         |         |         |         |
| farms, 2002   | 309      | 258     | 374     | 281      | 138     | 156     | 768     | 316     |
| 1997  | 333      | 351     | 441     | 353      | 150     | 182     | 1,073   | 455     |
| acres treated, 2002   | 239,516  | 227,505 | 236,900 | 232,777  | 167,104 | 243,667 | 516,839 | 301,869 |
| 1997  | 176,076  | 249,033 | 209,648 | 213,086  | (D)     | 247,837 | 663,216 | 331,632 |
| Pastureland and rangeland fertilized                            |          |         |         |          |         |         |         |         |
| farms, 2002   | 36       | 21      | 25      | 29       | 4       | 17      | 77      | 17      |
| 1997  | 8        | -       | 24      | 16       | 1       | -       | 57      | -       |
| acres treated, 2002   | 9,818    | 4,598   | 5,906   | 9,166    | 444     | 9,473   | 18,493  | 5,778   |
| 1997  | 2,514    | -       | 938     | 2,062    | (D)     | -       | 5,895   | 300     |
| Manure  |          |         |         |          |         |         |         |         |
| farms, 2002   | 31       | 41      | 29      | 29       | 27      | 33      | 46      | 26      |
| 1997  | (NA)     | (NA)    | (NA)    | (NA)     | (NA)    | (NA)    | (NA)    | (NA)    |
| acres treated, 2002   | 4,666    | 3,338   | 3,195   | 4,075    | 9,837   | 6,105   | 1,314   | 3,758   |
| 1997  | (NA)     | (NA)    | (NA)    | (NA)     | (NA)    | (NA)    | (NA)    | (NA)    |
| Chemicals used to control-                                      |          |         |         |          |         |         |         |         |
| Insects <sup>2</sup>  |          |         |         |          |         |         |         |         |
| farms, 2002   | 106      | 85      | 106     | 120      | 80      | 88      | 189     | 92      |
| 1997  | 165      | 165     | 107     | 144      | 93      | 123     | 223     | 209     |
| acres treated, 2002   | 38,420   | 45,609  | 16,086  | 46,737   | 57,720  | 81,697  | 56,826  | 47,971  |
| 1997  | 66,297   | 57,904  | 21,377  | 55,698   | 63,634  | 117,936 | 15,894  | 81,493  |
| Weeds, grass, or brush  |          |         |         |          |         |         |         |         |
| farms, 2002   | 214      | 166     | 287     | 155      | 102     | 104     | 420     | 247     |
| 1997  | 239      | 211     | 319     | 218      | 121     | 143     | 554     | 358     |
| acres treated, 2002   | 148,669  | 126,775 | 115,211 | 86,668   | 107,425 | 149,884 | 166,001 | 191,288 |
| 1997  | 109,176  | 116,506 | 118,446 | 101,112  | 87,223  | 177,615 | 233,810 | 201,731 |
| Nematodes   |          |         |         |          |         |         |         |         |
| farms, 2002   | 5        | 2       | -       | 3        | -       | 1       | 1       | -       |
| 1997  | 2        | 1       | -       | 18       | 7       | 3       | 2       | 27      |
| acres treated, 2002   | 1,158    | (D)     | -       | 998      | -       | (D)     | (D)     | -       |
| 1997  | (D)      | (D)     | -       | 4,782    | 2,376   | 2,565   | (D)     | 8,951   |
| Diseases in crops and orchards                                  |          |         |         |          |         |         |         |         |
| farms, 2002   | 1        | 13      | -       | 22       | 5       | 3       | 1       | -       |
| 1997  | 24       | 33      | -       | 9        | 2       | 2       | 29      | 15      |
| acres treated, 2002   | (D)      | 1,784   | -       | 1,234    | 4,058   | 294     | (D)     | -       |
| 1997  | 6,666    | 5,660   | -       | 3,988    | (D)     | (D)     | 4,315   | 3,690   |
| Chemicals used to control growth, thin fruit, or defoliate      |          |         |         |          |         |         |         |         |
| farms, 2002   | 10       | 1       | -       | -        | 2       | 17      | 12      | 1       |
| 1997  | 8        | 5       | 1       | 22       | 2       | 1       | 10      | 2       |
| acres on which used, 2002                                       | 2,124    | (D)     | -       | -        | (D)     | 11,743  | 3,011   | (D)     |
| 1997  | 144      | 2,308   | (D)     | 11,400   | (D)     | (D)     | 2,896   | (D)     |

  

| Item  | Trego   | Wabaunsee | Wallace | Washington | Wichita | Wilson  | Woodson | Wyandotte |
|---|---------|-----------|---------|------------|---------|---------|---------|-----------|
| Commercial fertilizer, lime, and soil conditioners <sup>1</sup> |         |           |         |            |         |         |         |           |
| farms, 2002   | 274     | 353       | 138     | 552        | 155     | 299     | 204     | 72        |
| 1997  | 258     | 374       | 160     | 563        | 212     | 363     | 229     | 114       |
| acres treated, 2002   | 154,345 | 71,806    | 110,467 | 256,950    | 153,845 | 127,019 | 54,440  | 5,131     |
| 1997  | 119,030 | 66,327    | 84,755  | 218,057    | 151,272 | 106,688 | 48,720  | 11,653    |
| Cropland fertilized, except cropland pastured                   |         |           |         |            |         |         |         |           |
| farms, 2002   | 274     | 278       | 138     | 524        | 154     | 228     | 156     | 59        |
| 1997  | 258     | 277       | 160     | 540        | 212     | 314     | 193     | 87        |
| acres treated, 2002   | 154,201 | 60,724    | 110,212 | 248,091    | (D)     | 116,534 | 44,586  | 4,108     |
| 1997  | (D)     | 53,689    | (D)     | 211,819    | 151,272 | 93,519  | 41,381  | 9,716     |
| Pastureland and rangeland fertilized                            |         |           |         |            |         |         |         |           |
| farms, 2002   | 8       | 135       | 3       | 125        | 1       | 102     | 89      | 42        |
| 1997  | 1       | 155       | 2       | 68         | -       | 119     | 83      | 35        |
| acres treated, 2002   | 144     | 11,082    | 255     | 8,859      | (D)     | 10,485  | 9,854   | 1,023     |
| 1997  | (D)     | 12,638    | (D)     | 6,238      | -       | 13,169  | 7,339   | 1,937     |
| Manure  |         |           |         |            |         |         |         |           |
| farms, 2002   | 22      | 53        | 29      | 115        | 50      | 20      | 24      | 3         |
| 1997  | (NA)    | (NA)      | (NA)    | (NA)       | (NA)    | (NA)    | (NA)    | (NA)      |
| acres treated, 2002   | 2,113   | 2,335     | 5,182   | 6,852      | 13,930  | 2,689   | 1,455   | 3         |
| 1997  | (NA)    | (NA)      | (NA)    | (NA)       | (NA)    | (NA)    | (NA)    | (NA)      |
| Chemicals used to control-                                      |         |           |         |            |         |         |         |           |
| Insects <sup>2</sup>  |         |           |         |            |         |         |         |           |
| farms, 2002   | 47      | 46        | 41      | 164        | 23      | 43      | 45      | 31        |
| 1997  | 21      | 16        | 86      | 50         | 114     | 60      | 25      | 35        |
| acres treated, 2002   | 2,469   | 2,736     | 25,678  | 14,613     | 5,855   | 9,869   | 5,288   | 678       |
| 1997  | 1,622   | 1,711     | 28,360  | 12,978     | 27,566  | 6,645   | 2,919   | 3,917     |
| Weeds, grass, or brush  |         |           |         |            |         |         |         |           |
| farms, 2002   | 199     | 227       | 78      | 410        | 94      | 177     | 128     | 68        |
| 1997  | 190     | 233       | 115     | 447        | 151     | 250     | 166     | 63        |
| acres treated, 2002   | 81,141  | 47,823    | 72,911  | 158,561    | 77,367  | 102,979 | 44,976  | 4,756     |
| 1997  | 56,839  | 49,295    | 57,533  | 178,421    | 84,797  | 108,585 | 34,369  | 6,717     |
| Nematodes   |         |           |         |            |         |         |         |           |
| farms, 2002   | -       | -         | -       | -          | -       | -       | -       | 8         |
| 1997  | -       | 2         | 1       | 1          | 1       | -       | 13      | 3         |
| acres treated, 2002   | -       | -         | -       | -          | -       | -       | -       | 62        |
| 1997  | -       | (D)       | (D)     | (D)        | (D)     | -       | 1,430   | 3         |
| Diseases in crops and orchards                                  |         |           |         |            |         |         |         |           |
| farms, 2002   | 8       | 29        | 16      | -          | -       | 1       | -       | 18        |
| 1997  | -       | 2         | 3       | 11         | -       | -       | 7       | 8         |
| acres treated, 2002   | 800     | 71        | 2,319   | -          | -       | (D)     | -       | 132       |
| 1997  | -       | (D)       | 602     | 4,263      | -       | -       | 14      | 103       |
| Chemicals used to control growth, thin fruit, or defoliate      |         |           |         |            |         |         |         |           |
| farms, 2002   | -       | 13        | -       | 2          | -       | 17      | -       | 7         |
| 1997  | 1       | -         | -       | 11         | 2       | 18      | -       | 3         |
| acres on which used, 2002                                       | -       | 13        | -       | 3          | -       | 8,268   | -       | 86        |
| 1997  | (D)     | -         | -       | 2,786      | (D)     | 2,709   | -       | 282       |

<sup>1</sup> Data for 1997 exclude lime.

<sup>2</sup> Data for 1997 include treatment of crops, including hay, but not other land.