

Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982

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

| Chemicals used | South Dakota | | | | | | | | |
|--|--|--|-----------|---------|-----------|-----------|---------|---------|--------|
| | South Dakota | Aurora | Beadle | Bennett | Bon Homme | Brookings | Brown | | |
| Commercial fertilizer ----- farms, 1987.. | 21 427 | 336 | 474 | 82 | 585 | 688 | 716 | | |
| | 19 287 | 285 | 418 | 60 | 572 | 698 | 609 | | |
| | 1982.. | 6 901 886 | 86 613 | 212 810 | 34 934 | 108 057 | 179 045 | 385 835 | |
| | 1982.. | 5 701 718 | 56 970 | 154 625 | 19 417 | 91 359 | 213 159 | 350 297 | |
| Cropland fertilized, except pastureland ----- farms, 1987.. | 21 161 | 320 | 456 | 81 | 584 | 687 | 714 | | |
| | 19 012 | 281 | 417 | 59 | 572 | 669 | 599 | | |
| | 1982.. | 6 746 598 | 82 859 | 201 014 | (D) | 104 534 | 175 983 | 380 598 | |
| | 1982.. | 5 550 869 | 54 059 | 151 285 | (D) | 88 231 | 206 354 | 343 942 | |
| Pastureland and rangeland fertilized ----- farms, 1987.. | 1 700 | 41 | 67 | 2 | 64 | 47 | 56 | | |
| | 1 880 | 33 | 31 | 2 | 57 | 89 | 49 | | |
| | 1982.. | 155 288 | 3 754 | 11 796 | (D) | 3 523 | 3 062 | 5 237 | |
| | 1982.. | 150 849 | 2 911 | 3 340 | (D) | 3 128 | 6 805 | 6 355 | |
| Lime ----- farms, 1987.. | 108 | - | - | - | 1 | 3 | 19 | | |
| | 108 | - | - | - | 6 | 6 | 1 | | |
| | 1982.. | 18 021 | - | - | (D) | (D) | 7 820 | | |
| | 1982.. | 11 713 | - | (D) | - | 6 | 1 200 | (D) | |
| acres on which used, 1987.. | 18 425 | - | - | - | (D) | (D) | 3 440 | | |
| | 1982.. | 13 416 | - | (D) | - | 6 | (D) | | |
| | Sprays, dusts, granules, fumigants, etc., to control-- | Insects on hay and other crops ----- farms, 1987.. | 7 237 | 116 | 202 | 23 | 119 | 281 | 237 |
| | | | 1982.. | 6 798 | 77 | 158 | 6 | 178 | 252 |
| 1987.. | | | 1 491 899 | 22 181 | 33 734 | 13 288 | 17 686 | 40 263 | 55 599 |
| 1982.. | | | 1 315 622 | 9 933 | 35 521 | 3 438 | 18 423 | 35 008 | 57 160 |
| Nematodes in crops ----- farms, 1987.. | 508 | 8 | 5 | - | 12 | 20 | 8 | | |
| | 532 | 8 | 10 | - | 14 | 24 | 7 | | |
| | 1982.. | 76 683 | 730 | 430 | - | 1 869 | 5 287 | 1 751 | |
| | 1982.. | 74 975 | 380 | 2 257 | - | 846 | 1 741 | 360 | |
| Diseases in crops and orchards ----- farms, 1987.. | 243 | 2 | 26 | - | 1 | 24 | 2 | | |
| | 175 | - | 13 | - | - | - | 5 | | |
| | 1982.. | 36 911 | (D) | 4 560 | - | (D) | 3 093 | (D) | |
| | 1982.. | 45 326 | - | 3 250 | (D) | - | - | 3 242 | |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987.. | 21 254 | 258 | 404 | 107 | 518 | 651 | 693 | | |
| | 17 464 | 122 | 399 | 48 | 478 | 586 | 553 | | |
| | 1982.. | 6 977 251 | 54 047 | 157 409 | 27 615 | 106 382 | 186 151 | 327 251 | |
| | 1982.. | 5 577 936 | 28 212 | 137 620 | 23 824 | 98 814 | 184 466 | 248 773 | |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987.. | 277 | - | 4 | - | 5 | 8 | 6 | | |
| | 280 | 9 | 5 | - | 3 | 8 | 7 | | |
| | 1982.. | 62 646 | - | 876 | - | 1 893 | 979 | 3 690 | |
| | 1982.. | 70 057 | 3 600 | 2 814 | - | (D) | (D) | 3 022 | |

| Chemicals used | South Dakota | | | | | | | | |
|--|--|---------|--------|----------|-------------|---------|---------|---------|--------|
| | Brule | Buffalo | Butte | Campbell | Charles Mix | Clark | Clay | | |
| Commercial fertilizer ----- farms, 1987.. | 289 | 63 | 193 | 213 | 659 | 424 | 390 | | |
| | 203 | 27 | 179 | 106 | 551 | 393 | 431 | | |
| | 1982.. | 81 765 | 26 703 | 24 377 | 78 216 | 203 761 | 160 683 | 96 571 | |
| | 1982.. | 52 231 | 10 837 | 22 552 | 32 070 | 159 516 | 126 085 | 104 136 | |
| Cropland fertilized, except pastureland ----- farms, 1987.. | 287 | 60 | 193 | 213 | 659 | 421 | 377 | | |
| | 203 | 26 | 179 | 105 | 539 | 392 | 431 | | |
| | 1982.. | 79 126 | 25 363 | 24 177 | (D) | 194 624 | 154 425 | 94 736 | |
| | 1982.. | 49 786 | (D) | 22 232 | (D) | 151 271 | 122 067 | 103 057 | |
| Pastureland and rangeland fertilized ----- farms, 1987.. | 20 | 7 | 10 | 2 | 110 | 46 | 31 | | |
| | 23 | 1 | 16 | 1 | 93 | 25 | 25 | | |
| | 1982.. | 2 639 | 1 340 | 200 | (D) | 9 137 | 6 258 | 1 835 | |
| | 1982.. | 2 445 | (D) | 320 | (D) | 8 245 | 4 018 | 1 079 | |
| Lime ----- farms, 1987.. | - | - | - | - | 1 | - | 2 | | |
| | - | - | - | - | 6 | - | 1 | | |
| | 1982.. | - | - | - | (D) | - | (D) | | |
| | 1982.. | - | - | - | - | 720 | - | (D) | |
| Sprays, dusts, granules, fumigants, etc., to control-- | Insects on hay and other crops ----- farms, 1987.. | 71 | 25 | 100 | 28 | 222 | 117 | 84 | |
| | | 105 | 28 | 36 | 11 | 313 | 175 | 119 | |
| | | 1982.. | 14 348 | 10 703 | 14 581 | 6 238 | 36 610 | 36 021 | 12 239 |
| | | 1982.. | 18 139 | 7 810 | 5 306 | 3 712 | 67 384 | 37 756 | 17 258 |
| Nematodes in crops ----- farms, 1987.. | 1 | 1 | - | - | 34 | 3 | 1 | | |
| | 2 | 2 | 2 | - | 28 | 1 | 3 | | |
| | 1982.. | (D) | (D) | - | 4 395 | (D) | (D) | | |
| | 1982.. | (D) | (D) | (D) | 4 421 | (D) | (D) | | |
| Diseases in crops and orchards ----- farms, 1987.. | - | - | - | - | 9 | 18 | - | | |
| | - | - | 2 | - | 1 | 17 | 7 | | |
| | 1982.. | - | - | (D) | - | 1 609 | 3 378 | - | |
| | 1982.. | - | - | - | - | (D) | 2 619 | 1 688 | |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987.. | 256 | 47 | 174 | 199 | 611 | 454 | 372 | | |
| | 154 | 29 | 138 | 123 | 369 | 370 | 375 | | |
| | 1982.. | 60 955 | 22 242 | 40 062 | 67 235 | 153 422 | 178 368 | 121 728 | |
| | 1982.. | 32 477 | 13 132 | 32 049 | 43 155 | 83 885 | 124 084 | 99 526 | |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987.. | - | - | - | 1 | - | 20 | - | | |
| | - | - | - | - | - | 9 | 1 | | |
| | 1982.. | - | - | - | (D) | - | 5 762 | | |
| | 1982.. | - | - | - | - | - | 3 010 | (D) | |

Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.

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

| Chemicals used | Codington | Corson | Custer | Davison | Day | Deuel | Dewey |
|--|-----------|--------|--------|---------|---------|---------|--------|
| Commercial fertilizer ----- farms, 1987-- | 401 | 195 | 42 | 305 | 532 | 555 | 59 |
| 1982-- | 402 | 115 | 31 | 316 | 444 | 507 | 76 |
| acres on which used, 1987-- | 159 251 | 72 879 | 3 108 | 80 710 | 213 999 | 149 016 | 25 374 |
| 1982-- | 144 196 | 30 277 | 1 790 | 67 393 | 191 506 | 147 167 | 13 355 |
| Cropland fertilized, except pastureland ----- farms, 1987-- | 398 | 195 | 42 | 296 | 532 | 548 | 58 |
| 1982-- | 400 | 115 | 26 | 310 | 444 | 507 | 76 |
| acres on which used, 1987-- | 158 547 | 71 769 | 3 108 | 79 466 | 213 764 | 147 823 | 24 994 |
| 1982-- | 142 154 | 29 697 | 1 730 | 65 189 | 190 365 | 145 465 | (D) |
| Pastureland and rangeland fertilized ----- farms, 1987-- | 9 | 7 | - | 17 | 13 | 32 | 3 |
| 1982-- | 15 | 4 | 5 | 48 | 20 | 27 | 1 |
| acres on which used, 1987-- | 704 | 1 110 | - | 1 244 | 235 | 1 193 | 380 |
| 1982-- | 2 042 | 580 | 60 | 2 204 | 1 141 | 1 702 | (D) |
| Lime ----- farms, 1987-- | - | - | - | - | - | 10 | - |
| 1982-- | - | - | - | - | - | 5 | - |
| acres on which used, 1987-- | - | - | - | - | - | 2 860 | - |
| 1982-- | - | - | - | - | - | 845 | - |
| tons, 1987-- | - | - | - | - | - | 2 860 | - |
| 1982-- | - | - | - | - | - | 775 | - |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | |
| insects on hay and other crops ----- farms, 1987-- | 80 | 50 | 15 | 49 | 63 | 101 | 60 |
| 1982-- | 99 | 90 | 5 | 91 | 46 | 104 | 57 |
| acres on which used, 1987-- | 23 914 | 16 953 | 514 | 8 453 | 10 958 | 14 863 | 11 937 |
| 1982-- | 23 095 | 20 378 | (D) | 19 059 | 9 480 | 15 643 | 15 877 |
| Nematodes in crops ----- farms, 1987-- | 15 | - | - | 13 | 5 | - | - |
| 1982-- | 5 | - | - | 3 | 1 | 9 | - |
| acres on which used, 1987-- | 1 112 | - | - | 1 488 | 500 | - | - |
| 1982-- | 508 | - | - | 1 346 | (D) | 530 | - |
| Diseases in crops and orchards ----- farms, 1987-- | 24 | 1 | - | 1 | 5 | - | - |
| 1982-- | 2 | - | - | - | 2 | - | - |
| acres on which used, 1987-- | 497 | (D) | - | (D) | 500 | - | - |
| 1982-- | (D) | - | - | - | (D) | - | - |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987-- | 414 | 186 | 89 | 297 | 528 | 553 | 90 |
| 1982-- | 395 | 144 | 39 | 173 | 434 | 509 | 71 |
| acres on which used, 1987-- | 149 171 | 95 216 | 9 794 | 79 809 | 202 742 | 151 715 | 32 683 |
| 1982-- | 131 591 | 64 535 | 3 162 | 34 064 | 192 022 | 145 552 | 36 054 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987-- | 8 | - | - | - | 9 | 9 | 2 |
| 1982-- | 3 | - | - | - | 11 | 2 | - |
| acres on which used, 1987-- | 3 085 | - | - | - | 1 512 | 473 | (D) |
| 1982-- | (D) | - | - | - | 60 | (D) | - |

| Chemicals used | Douglas | Edmunds | Fall River | Faulk | Grant | Gregory | Haakon |
|--|---------|---------|------------|---------|---------|---------|---------|
| Commercial fertilizer ----- farms, 1987-- | 355 | 252 | 60 | 241 | 561 | 339 | 81 |
| 1982-- | 414 | 150 | 79 | 163 | 502 | 372 | 46 |
| acres on which used, 1987-- | 93 919 | 98 956 | 4 984 | 119 586 | 163 065 | 73 302 | 42 740 |
| 1982-- | 86 409 | 51 189 | 7 977 | 77 428 | 176 796 | 64 131 | 15 001 |
| Cropland fertilized, except pastureland ----- farms, 1987-- | 352 | 252 | 60 | 232 | 561 | 336 | 80 |
| 1982-- | 413 | 150 | 79 | 183 | 502 | 371 | 46 |
| acres on which used, 1987-- | 91 265 | 96 356 | (D) | 117 051 | 162 388 | 70 189 | (D) |
| 1982-- | 85 092 | 49 931 | 7 746 | 75 906 | 174 871 | 62 226 | 15 001 |
| Pastureland and rangeland fertilized ----- farms, 1987-- | 41 | 19 | 2 | 19 | 17 | 31 | 1 |
| 1982-- | 29 | 10 | 7 | 10 | 28 | 21 | - |
| acres on which used, 1987-- | 2 654 | 2 600 | (D) | 2 535 | 677 | 3 113 | (D) |
| 1982-- | 1 317 | 1 258 | 231 | 1 522 | 1 925 | 1 905 | - |
| Lime ----- farms, 1987-- | - | - | 1 | - | - | - | - |
| 1982-- | - | 1 | - | - | - | - | - |
| acres on which used, 1987-- | - | - | (D) | - | - | - | - |
| 1982-- | - | (D) | - | - | - | - | - |
| tons, 1987-- | - | - | (D) | - | - | - | - |
| 1982-- | - | (D) | - | - | - | - | - |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | |
| insects on hay and other crops ----- farms, 1987-- | 129 | 54 | 46 | 64 | 105 | 144 | 81 |
| 1982-- | 154 | 54 | 48 | 76 | 110 | 218 | 27 |
| acres on which used, 1987-- | 32 012 | 28 220 | 5 879 | 20 168 | 30 436 | 29 272 | 30 424 |
| 1982-- | 26 985 | 16 170 | 6 764 | 12 374 | 17 142 | 21 364 | 15 900 |
| Nematodes in crops ----- farms, 1987-- | 3 | 20 | 2 | 12 | 17 | 10 | - |
| 1982-- | 29 | 1 | 6 | - | - | 10 | - |
| acres on which used, 1987-- | (D) | 3 774 | (D) | 1 403 | 1 813 | 630 | - |
| 1982-- | 3 657 | (D) | 1 275 | - | - | 822 | - |
| Diseases in crops and orchards ----- farms, 1987-- | 15 | - | - | 3 | 1 | 2 | - |
| 1982-- | - | - | - | - | 4 | - | 1 |
| acres on which used, 1987-- | 277 | - | - | (D) | (D) | (D) | - |
| 1982-- | - | - | - | - | 1 101 | - | (D) |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987-- | 346 | 281 | 102 | 195 | 473 | 342 | 167 |
| 1982-- | 228 | 208 | 64 | 141 | 466 | 234 | 114 |
| acres on which used, 1987-- | 72 598 | 130 189 | 13 182 | 79 076 | 160 480 | 67 654 | 101 801 |
| 1982-- | 45 145 | 78 005 | 6 260 | 58 266 | 135 017 | 44 202 | 53 942 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987-- | - | - | - | - | 14 | - | 5 |
| 1982-- | - | 8 | 2 | 2 | 5 | 7 | 2 |
| acres on which used, 1987-- | - | - | - | - | 2 881 | - | 800 |
| 1982-- | - | 800 | (D) | (D) | 2 295 | 14 | (D) |

Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.

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

| Chemicals used | Hamlin | Hand | Hanson | Harding | Hughes | Hutchinson | Hyde |
|--|---------|---------|---------|---------|--------|------------|--------|
| Commercial fertilizer ----- farms, 1987.. | 405 | 313 | 326 | 86 | 95 | 805 | 83 |
| 1982.. | 375 | 216 | 346 | 100 | 81 | 786 | 80 |
| acres on which used, 1987.. | 140 474 | 159 753 | 105 514 | 32 926 | 38 034 | 215 073 | 47 051 |
| 1982.. | 130 204 | 89 835 | 83 503 | 35 388 | 27 982 | 174 529 | 22 489 |
| Cropland fertilized, except pastureland ----- farms, 1987.. | 404 | 306 | 324 | 85 | 94 | 786 | 81 |
| 1982.. | 369 | 208 | 346 | 100 | 81 | 762 | 60 |
| acres on which used, 1987.. | 138 197 | 149 918 | 100 599 | (D) | (D) | 206 206 | 46 591 |
| 1982.. | 126 897 | 87 830 | 79 425 | (D) | (D) | 165 473 | 22 489 |
| Pastureland and rangeland fertilized ----- farms, 1987.. | 35 | 38 | 38 | 2 | 1 | 123 | 3 |
| 1982.. | 38 | 28 | 36 | 2 | 1 | 131 | - |
| acres on which used, 1987.. | 2 277 | 9 835 | 4 915 | (D) | (D) | 8 867 | 460 |
| 1982.. | 3 307 | 2 005 | 4 078 | (D) | (D) | 9 056 | - |
| Lime ----- farms, 1987.. | - | - | - | - | - | 3 | - |
| 1982.. | - | - | 6 | - | - | 1 | - |
| acres on which used, 1987.. | - | - | - | - | - | (D) | - |
| 1982.. | - | - | 655 | - | - | (D) | - |
| tons, 1987.. | - | - | - | - | - | (D) | - |
| 1982.. | - | - | 660 | - | - | (D) | - |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | |
| Insects on hay and other crops ----- farms, 1987.. | 69 | 122 | 43 | 19 | 70 | 215 | 34 |
| 1982.. | 59 | 103 | 101 | 18 | 67 | 280 | 54 |
| acres on which used, 1987.. | 13 394 | 26 949 | 12 313 | 8 432 | 19 614 | 37 747 | 11 444 |
| 1982.. | 9 571 | 20 088 | 23 360 | 3 358 | 17 934 | 42 160 | 14 395 |
| Nematodes in crops ----- farms, 1987.. | 10 | - | 5 | - | 6 | 27 | 1 |
| 1982.. | 18 | 8 | 12 | - | 7 | 20 | - |
| acres on which used, 1987.. | 1 631 | - | 1 372 | - | 2 706 | 3 067 | (D) |
| 1982.. | 985 | 331 | 2 060 | - | 560 | 2 016 | - |
| Diseases in crops and orchards ----- farms, 1987.. | 10 | 4 | 1 | 1 | 2 | - | - |
| 1982.. | - | 2 | 1 | 2 | 9 | 9 | - |
| acres on which used, 1987.. | 1 350 | (D) | (D) | (D) | (D) | - | - |
| 1982.. | - | (D) | (D) | (D) | 7 487 | 1 162 | - |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987.. | 382 | 336 | 310 | 72 | 106 | 794 | 103 |
| 1982.. | 317 | 195 | 251 | 83 | 86 | 563 | 95 |
| acres on which used, 1987.. | 136 712 | 122 058 | 82 213 | 30 160 | 64 709 | 224 319 | 59 976 |
| 1982.. | 104 628 | 91 812 | 58 969 | 40 093 | 48 597 | 124 776 | 33 648 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987.. | 7 | 10 | 22 | - | 3 | 10 | 1 |
| 1982.. | - | - | 11 | - | 3 | - | - |
| acres on which used, 1987.. | 328 | 380 | 3 699 | - | 1 700 | 4 654 | (D) |
| 1982.. | - | - | 2 665 | - | 1 300 | - | - |

| Chemicals used | Jackson | Jerauld | Jones | Kingsbury | Lake | Lawrence | Lincoln | Lyman |
|--|---------|---------|--------|-----------|---------|----------|---------|---------|
| Commercial fertilizer ----- farms, 1987.. | 96 | 181 | 78 | 496 | 409 | 59 | 830 | 182 |
| 1982.. | 53 | 153 | 38 | 512 | 471 | 43 | 799 | 137 |
| acres on which used, 1987.. | 25 488 | 61 250 | 25 607 | 205 126 | 132 311 | 1 785 | 133 859 | 77 735 |
| 1982.. | 15 934 | 41 766 | 10 377 | 199 553 | 162 495 | 4 521 | 157 144 | 28 268 |
| Cropland fertilized, except pastureland ----- farms, 1987.. | 96 | 151 | 78 | 495 | 409 | 52 | 808 | 182 |
| 1982.. | 53 | 153 | 38 | 497 | 471 | 37 | 780 | 137 |
| acres on which used, 1987.. | 25 488 | 53 990 | 25 607 | 197 774 | 130 684 | 1 750 | 130 650 | (D) |
| 1982.. | 15 934 | 38 527 | 10 377 | 190 484 | 159 096 | 4 041 | 152 858 | (D) |
| Pastureland and rangeland fertilized ----- farms, 1987.. | - | 46 | - | 66 | 42 | 7 | 88 | 6 |
| 1982.. | - | 33 | - | 57 | 48 | 6 | 60 | 2 |
| acres on which used, 1987.. | - | 7 260 | - | 7 352 | 1 627 | 35 | 3 209 | (D) |
| 1982.. | - | 3 239 | - | 9 069 | 3 999 | 480 | 4 286 | (D) |
| Lime ----- farms, 1987.. | - | - | 1 | 1 | - | - | 10 | - |
| 1982.. | - | - | - | 10 | 18 | - | 7 | - |
| acres on which used, 1987.. | - | - | (D) | (D) | - | - | 1 010 | - |
| 1982.. | - | - | - | 3 440 | 556 | - | 260 | - |
| tons, 1987.. | - | - | (D) | (D) | - | - | (D) | - |
| 1982.. | - | - | - | 4 227 | 796 | - | 260 | - |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | | |
| Insects on hay and other crops ----- farms, 1987.. | 30 | 41 | 37 | 179 | 275 | 48 | 302 | 69 |
| 1982.. | 16 | 39 | 24 | 143 | 150 | 7 | 246 | 49 |
| acres on which used, 1987.. | 10 427 | 8 594 | 14 595 | 33 233 | 39 103 | 3 611 | 37 491 | 28 743 |
| 1982.. | 3 234 | 10 052 | 5 508 | 21 201 | 30 959 | 1 566 | 42 677 | 23 587 |
| Nematodes in crops ----- farms, 1987.. | - | - | 1 | 28 | 19 | - | 16 | 4 |
| 1982.. | - | 1 | 6 | 20 | 23 | - | 43 | 5 |
| acres on which used, 1987.. | - | - | (D) | 3 467 | 1 888 | - | 3 994 | 919 |
| 1982.. | - | (D) | 408 | 2 015 | 4 121 | - | 5 369 | 2 180 |
| Diseases in crops and orchards ----- farms, 1987.. | - | - | - | 1 | 3 | - | 2 | 2 |
| 1982.. | - | - | 2 | 1 | 2 | - | - | 8 |
| acres on which used, 1987.. | - | - | - | (D) | 241 | - | (D) | (D) |
| 1982.. | - | - | (D) | (D) | (D) | - | - | 4 086 |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987.. | 122 | 178 | 98 | 458 | 429 | 92 | 747 | 273 |
| 1982.. | 103 | 119 | 102 | 379 | 441 | 61 | 658 | 177 |
| acres on which used, 1987.. | 48 196 | 42 584 | 53 987 | 187 741 | 123 693 | 8 882 | 158 941 | 134 847 |
| 1982.. | 35 935 | 30 807 | 40 615 | 148 607 | 139 289 | 4 042 | 163 411 | 67 362 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987.. | - | - | - | 13 | 2 | - | 11 | 6 |
| 1982.. | - | - | - | 43 | 2 | 4 | 16 | 6 |
| acres on which used, 1987.. | - | - | - | 3 183 | (D) | - | 1 039 | 2 776 |
| 1982.. | - | - | - | 10 097 | (D) | 48 | 4 618 | 360 |

Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.

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

| Chemicals used | McCook | McPherson | Marshall | Meade | Mellette | Miner | Minnehaha | Moody |
|--|---------|-----------|----------|--------|----------|--------|-----------|---------|
| Commercial fertilizer ----- farms, 1987.. | 555 | 156 | 373 | 175 | 54 | 290 | 993 | 538 |
| 1982.. | 484 | 81 | 294 | 134 | 38 | 303 | 1 026 | 504 |
| acres on which used, 1987.. | 145 368 | 55 939 | 185 090 | 32 370 | 22 758 | 91 072 | 180 164 | 128 508 |
| 1982.. | 133 295 | 28 257 | 157 686 | 28 186 | 9 332 | 84 100 | 224 760 | 139 991 |
| Cropland fertilized, except pastureland ----- farms, 1987.. | 527 | 155 | 372 | 175 | 54 | 289 | 985 | 533 |
| 1982.. | 482 | 73 | 285 | 118 | 38 | 277 | 1 022 | 487 |
| acres on which used, 1987.. | 139 696 | (D) | 180 722 | (D) | 22 758 | 87 132 | 177 309 | 127 430 |
| 1982.. | 129 244 | 27 277 | 154 524 | 25 626 | 9 332 | 76 971 | 216 241 | 136 400 |
| Pastureland and rangeland fertilized ----- farms, 1987.. | 80 | 1 | 17 | 2 | - | 16 | 50 | 27 |
| 1982.. | 59 | 9 | 23 | 18 | - | 86 | 165 | 77 |
| acres on which used, 1987.. | 5 672 | (D) | 4 368 | (D) | - | 3 940 | 2 855 | 1 078 |
| 1982.. | 4 051 | 980 | 3 162 | 2 560 | - | 7 129 | 8 519 | 3 591 |
| Lime ----- farms, 1987.. | - | - | - | - | - | - | 14 | 2 |
| 1982.. | - | - | - | - | - | - | 10 | 5 |
| acres on which used, 1987.. | - | - | - | - | - | - | 1 336 | (D) |
| 1982.. | - | - | - | - | - | - | (D) | 475 |
| tons, 1987.. | - | - | - | - | - | - | 3 228 | (D) |
| 1982.. | - | - | - | - | - | - | (D) | 500 |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | | |
| Insects on hay and other crops ----- farms, 1987.. | 168 | 56 | 85 | 125 | 8 | 80 | 537 | 212 |
| 1982.. | 138 | 59 | 110 | 28 | 8 | 77 | 407 | 217 |
| acres on which used, 1987.. | 31 591 | 12 232 | 18 075 | 25 685 | 3 883 | 16 473 | 66 801 | 23 667 |
| 1982.. | 25 022 | 7 643 | 27 509 | 6 064 | 1 256 | 9 190 | 67 263 | 25 298 |
| Nematodes in crops ----- farms, 1987.. | 13 | 1 | 3 | - | - | 3 | 53 | 27 |
| 1982.. | 12 | - | 10 | - | - | - | 64 | 9 |
| acres on which used, 1987.. | 873 | (D) | 287 | - | - | 151 | 7 608 | 1 841 |
| 1982.. | 2 145 | - | 2 165 | - | - | 2 217 | 8 577 | 1 665 |
| Diseases in crops and orchards ----- farms, 1987.. | 1 | - | 9 | 3 | - | - | 10 | 2 |
| 1982.. | 9 | - | 1 | - | 1 | - | 9 | 1 |
| acres on which used, 1987.. | (D) | - | 722 | 180 | - | - | 1 115 | (D) |
| 1982.. | 260 | - | (D) | - | (D) | - | 1 461 | (D) |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987.. | 549 | 204 | 339 | 244 | 70 | 316 | 911 | 527 |
| 1982.. | 441 | 208 | 259 | 131 | 56 | 265 | 948 | 430 |
| acres on which used, 1987.. | 139 378 | 70 145 | 156 820 | 73 329 | 37 219 | 86 459 | 200 739 | 159 083 |
| 1982.. | 128 033 | 50 912 | 144 358 | 55 919 | 17 464 | 94 677 | 205 498 | 126 838 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987.. | 1 | - | 8 | 7 | - | - | 34 | 2 |
| 1982.. | 8 | - | 11 | - | - | - | 7 | 23 |
| acres on which used, 1987.. | (D) | - | 5 986 | 100 | - | - | 4 793 | (D) |
| 1982.. | 1 815 | - | 4 960 | - | - | - | 2 141 | 3 724 |

| Chemicals used | Pennington | Perkins | Potter | Roberts | Sanborn | Shannon | Spink | Stanley |
|--|------------|---------|---------|---------|---------|---------|---------|---------|
| Commercial fertilizer ----- farms, 1987.. | 124 | 237 | 269 | 655 | 236 | 55 | 574 | 38 |
| 1982.. | 57 | 118 | 158 | 739 | 209 | 27 | 457 | 31 |
| acres on which used, 1987.. | 37 838 | 102 722 | 142 282 | 214 652 | 60 791 | 16 062 | 319 509 | 25 476 |
| 1982.. | 16 296 | 42 653 | 76 588 | 257 408 | 57 625 | 5 006 | 208 765 | 5 184 |
| Cropland fertilized, except pastureland ----- farms, 1987.. | 124 | 236 | 269 | 655 | 233 | 55 | 565 | 38 |
| 1982.. | 57 | 118 | 157 | 733 | 208 | 27 | 448 | 30 |
| acres on which used, 1987.. | (D) | 100 637 | 141 198 | 213 521 | 58 587 | 16 062 | 314 771 | (D) |
| 1982.. | 16 296 | 42 653 | 75 300 | 252 918 | 56 198 | 5 006 | 205 605 | (D) |
| Pastureland and rangeland fertilized ----- farms, 1987.. | 1 | 7 | 5 | 20 | 27 | - | 44 | 1 |
| 1982.. | - | - | 14 | 39 | 16 | - | 25 | 1 |
| acres on which used, 1987.. | (D) | 2 085 | 1 084 | 1 131 | 2 204 | - | 4 738 | (D) |
| 1982.. | - | - | 1 288 | 4 490 | 1 427 | - | 3 160 | (D) |
| Lime ----- farms, 1987.. | - | - | 1 | 2 | - | - | 9 | - |
| 1982.. | - | - | - | 4 | - | - | 5 | - |
| acres on which used, 1987.. | - | - | (D) | (D) | - | - | (D) | - |
| 1982.. | - | - | - | 1 480 | - | - | 225 | - |
| tons, 1987.. | - | - | (D) | (D) | - | - | (D) | - |
| 1982.. | - | - | - | 2 960 | - | - | 450 | - |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | | |
| Insects on hay and other crops ----- farms, 1987.. | 59 | 70 | 114 | 97 | 86 | 10 | 262 | 35 |
| 1982.. | 10 | 32 | 84 | 157 | 68 | 2 | 248 | 25 |
| acres on which used, 1987.. | 14 236 | 18 677 | 33 541 | 16 251 | 14 702 | 2 303 | 58 871 | 24 374 |
| 1982.. | 1 270 | 10 311 | 26 049 | 20 212 | 12 258 | (D) | 64 125 | 14 499 |
| Nematodes in crops ----- farms, 1987.. | 1 | 2 | 1 | 7 | 25 | - | 5 | - |
| 1982.. | 1 | - | - | 10 | 3 | - | - | - |
| acres on which used, 1987.. | (D) | (D) | (D) | 665 | 1 444 | (D) | (D) | (D) |
| 1982.. | (D) | - | - | 632 | 987 | - | - | (D) |
| Diseases in crops and orchards ----- farms, 1987.. | 4 | 2 | 1 | 23 | - | - | 4 | - |
| 1982.. | 1 | 2 | 5 | 22 | - | 1 | 10 | - |
| acres on which used, 1987.. | (D) | (D) | (D) | 2 495 | - | - | (D) | - |
| 1982.. | (D) | (D) | 400 | 2 901 | - | (D) | 1 614 | - |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987.. | 206 | 207 | 255 | 633 | 188 | 36 | 576 | 84 |
| 1982.. | 139 | 157 | 162 | 740 | 197 | 11 | 475 | 65 |
| acres on which used, 1987.. | 66 385 | 86 754 | 135 492 | 223 051 | 45 744 | 11 298 | 308 392 | 53 465 |
| 1982.. | 44 318 | 68 004 | 104 675 | 268 194 | 43 535 | 3 630 | 208 355 | 58 273 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987.. | 15 | - | 1 | 1 | 4 | - | 4 | 3 |
| 1982.. | 11 | 1 | - | 2 | 9 | 1 | 3 | 3 |
| acres on which used, 1987.. | 1 615 | - | (D) | (D) | 69 | - | 690 | 1 840 |
| 1982.. | 1 740 | (D) | - | (D) | 1 526 | (D) | (D) | 780 |

Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.

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

| Chemicals used | Sully | Todd | Tripp | Turner | Union | Walworth | Yankton | Ziebach |
|--|---------|--------|---------|---------|---------|----------|---------|---------|
| Commercial fertilizer ----- farms, 1987.. | 106 | 51 | 403 | 811 | 483 | 192 | 458 | 67 |
| 1982.. | 63 | 61 | 319 | 678 | 546 | 163 | 409 | 49 |
| acres on which used, 1987.. | 111 686 | 15 262 | 144 655 | 149 790 | 118 983 | 86 473 | 92 871 | 39 340 |
| 1982.. | 56 878 | 14 067 | 85 214 | 128 502 | 131 343 | 71 930 | 72 390 | 14 405 |
| Cropland fertilized, except pastureland ----- farms, 1987.. | 106 | 51 | 403 | 801 | 474 | 192 | 458 | 66 |
| 1982.. | 63 | 52 | 313 | 673 | 545 | 162 | 409 | 49 |
| acres on which used, 1987.. | (D) | (D) | 141 980 | 147 936 | 116 118 | (D) | 91 161 | (D) |
| 1982.. | (D) | 11 852 | 82 754 | 125 962 | 127 983 | (D) | 68 894 | 14 405 |
| Pastureland and rangeland fertilized ----- farms, 1987.. | 1 | 1 | 32 | 56 | 61 | 1 | 39 | 2 |
| 1982.. | 1 | 17 | 15 | 69 | 81 | 1 | 52 | - |
| acres on which used, 1987.. | (D) | (D) | 2 675 | 1 854 | 2 865 | (D) | 1 710 | (D) |
| 1982.. | (D) | 2 215 | 2 460 | 2 540 | 3 360 | (D) | 3 496 | - |
| Lime ----- farms, 1987.. | - | - | - | 3 | 11 | - | 14 | - |
| 1982.. | - | - | - | 6 | 8 | - | 1 | - |
| acres on which used, 1987.. | - | - | - | 155 | 573 | - | 1 120 | - |
| 1982.. | - | - | - | 360 | 430 | - | (D) | - |
| tons, 1987.. | - | - | - | 264 | 588 | - | 1 120 | - |
| 1982.. | - | - | - | 360 | 390 | - | (D) | - |
| Sprays, dusts, granules, fumigants, etc., to control — | | | | | | | | |
| Insects on hay and other crops ----- farms, 1987.. | 114 | 21 | 164 | 255 | 245 | 44 | 139 | 32 |
| 1982.. | 92 | 14 | 80 | 214 | 245 | 111 | 165 | 25 |
| acres on which used, 1987.. | 58 151 | 15 786 | 41 123 | 31 979 | 43 365 | 10 532 | 14 262 | 12 160 |
| 1982.. | 47 484 | 4 028 | 10 099 | 45 027 | 39 783 | 20 801 | 17 130 | 5 253 |
| Nematodes in crops ----- farms, 1987.. | 3 | 1 | - | 14 | 41 | - | 1 | - |
| 1982.. | 4 | 1 | - | 25 | 47 | - | 7 | - |
| acres on which used, 1987.. | 471 | (D) | - | 645 | 10 890 | - | (D) | - |
| 1982.. | 520 | (D) | - | 3 796 | 6 005 | (D) | 1 742 | - |
| Diseases in crops and orchards ----- farms, 1987.. | - | 2 | 1 | - | 5 | 1 | 14 | 1 |
| 1982.. | 2 | - | - | 7 | 11 | - | 2 | - |
| acres on which used, 1987.. | - | (D) | (D) | - | 916 | (D) | 659 | (D) |
| 1982.. | (D) | - | - | 873 | 892 | - | (D) | - |
| Weeds, grass, or brush in crops and pasture ----- farms, 1987.. | 191 | 34 | 300 | 813 | 452 | 200 | 475 | 137 |
| 1982.. | 121 | 32 | 200 | 739 | 457 | 181 | 363 | 93 |
| acres on which used, 1987.. | 167 104 | 10 325 | 77 495 | 184 087 | 127 564 | 73 538 | 98 441 | 56 949 |
| 1982.. | 126 198 | 6 723 | 48 189 | 144 004 | 120 113 | 73 699 | 78 660 | 47 242 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987.. | - | 2 | - | 14 | 1 | 3 | 1 | - |
| 1982.. | 3 | - | - | 6 | 3 | 2 | 18 | - |
| acres on which used, 1987.. | - | (D) | - | 1 318 | (D) | 1 399 | (D) | - |
| 1982.. | (D) | - | - | 1 073 | (D) | (D) | 1 751 | - |