

Table 7. Agricultural Chemicals Used, Including Fertilizer and Lime: 1982 and 1978

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

| Chemicals used | County | | | | | | | |
|--|--|------------|---------|---------|----------|-----------|---------|---------|
| | North Dakota | Adams | Barnes | Benson | Billings | Bottineau | Bowman | |
| Commercial fertilizer ----- farms, 1982.. | 20 997 | 173 | 765 | 519 | 76 | 582 | 182 | |
| | 1978.. | 25 031 | 264 | 857 | 528 | 734 | 279 | |
| | acres on which used, 1982.. | 11 381 701 | 89 133 | 517 112 | 237 170 | 9 749 | 358 943 | 69 870 |
| | 1978.. | 11 070 369 | 102 356 | 471 284 | 211 601 | 16 063 | 336 467 | 117 396 |
| Cropland fertilized, except pastureland ----- farms, 1982.. | 20 913 | 173 | 765 | 519 | 76 | 581 | 182 | |
| | 1978.. | 24 995 | 264 | 857 | 528 | 734 | 279 | |
| | acres on which used, 1982.. | 11 337 965 | (D) | 516 080 | 236 350 | 9 189 | (D) | |
| | 1978.. | 10 989 877 | 101 186 | 470 231 | 209 782 | (D) | 334 392 | 116 051 |
| Pastureland and rangeland fertilized ----- farms, 1982.. | 443 | 1 | 26 | 7 | 7 | 3 | 2 | |
| | 1978.. | 924 | 5 | 21 | 14 | 2 | 16 | |
| | acres on which used, 1982.. | 43 736 | (D) | 1 032 | 820 | 560 | (D) | |
| | 1978.. | 80 492 | 1 170 | 1 053 | 1 819 | (D) | 2 075 | 1 345 |
| Lime ----- farms, 1982.. | 75 | - | 1 | 1 | - | - | - | |
| | 1978.. | 277 | - | 10 | 11 | - | 10 | |
| | acres on which used, 1982.. | 20 414 | - | (D) | (D) | - | - | |
| | 1978.. | 65 454 | - | 45 | 5 002 | - | 1 610 | |
| Sprays, dusts, granules, fumigants, etc., to control-- | 1982.. | 38 010 | - | (D) | (D) | - | - | |
| | 1978.. | 131 416 | - | 120 | 4 005 | - | 3 910 | |
| | Insects on hay and other crops ----- farms, 1982.. | 4 457 | 61 | 189 | 10 | 19 | 53 | 7 |
| | | 1978.. | 5 885 | 42 | 237 | 114 | 19 | 37 |
| acres on which used, 1982.. | | 1 489 287 | 15 386 | 55 749 | 4 542 | 1 997 | 35 162 | 3 266 |
| 1978.. | | 2 077 605 | 15 257 | 115 016 | 45 695 | 3 530 | 50 411 | 12 789 |
| Nematodes in crops ----- farms, 1982.. | 337 | - | 1 | 1 | - | 2 | - | |
| | 1978.. | 767 | 1 | 12 | 17 | 4 | 7 | |
| | acres on which used, 1982.. | 111 613 | - | (D) | (D) | - | - | |
| | 1978.. | 212 641 | (D) | 1 408 | 1 445 | - | 6 942 | 1 346 |
| Diseases in crops and orchards ----- farms, 1982.. | 2 104 | - | 32 | 94 | 12 | 21 | 1 | |
| | 1978.. | 1 822 | 2 | 39 | 48 | 12 | 33 | |
| | acres on which used, 1982.. | 801 651 | - | 15 252 | 32 759 | 1 592 | 6 423 | (D) |
| | 1978.. | 637 183 | (D) | 21 743 | 19 342 | 4 595 | 5 009 | 8 720 |
| Weeds, grass, or brush in crops and pasture ----- farms, 1982.. | 22 432 | 179 | 746 | 539 | 95 | 677 | 163 | |
| | 1978.. | 25 081 | 254 | 791 | 557 | 93 | 712 | 226 |
| | acres on which used, 1982.. | 12 242 293 | 102 478 | 491 273 | 308 310 | 25 493 | 409 311 | 64 858 |
| | 1978.. | 10 917 968 | 112 538 | 384 128 | 240 191 | 19 930 | 390 633 | 98 704 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1982.. | 648 | - | 16 | 2 | - | 28 | - | |
| | 1978.. | 940 | 7 | 16 | 11 | 14 | - | |
| | acres on which used, 1982.. | 243 717 | - | 16 468 | (D) | 9 075 | - | |
| | 1978.. | 196 069 | 1 800 | 6 664 | 2 600 | - | 3 141 | |

| Chemicals used | County | | | | | | | |
|--|--|----------|---------|----------|---------|---------|---------|--------|
| | Burke | Burleigh | Cass | Cavalier | Dickey | Divide | Dunn | |
| Commercial fertilizer ----- farms, 1982.. | 236 | 249 | 1 041 | 817 | 381 | 258 | 297 | |
| | 1978.. | 282 | 335 | 1 277 | 912 | 458 | 406 | |
| | acres on which used, 1982.. | 81 275 | 79 223 | 744 299 | 537 708 | 218 693 | 73 298 | 74 358 |
| | 1978.. | 78 004 | 93 743 | 793 093 | 473 594 | 260 978 | 63 329 | 98 838 |
| Cropland fertilized, except pastureland ----- farms, 1982.. | 229 | 249 | 1 040 | 817 | 367 | 258 | 297 | |
| | 1978.. | 282 | 335 | 1 269 | 912 | 453 | 406 | |
| | acres on which used, 1982.. | 80 925 | 78 803 | 742 859 | 537 115 | 218 083 | 73 128 | 74 078 |
| | 1978.. | 77 464 | 93 283 | 790 899 | 472 754 | 256 433 | 62 827 | 92 768 |
| Pastureland and rangeland fertilized ----- farms, 1982.. | 14 | 4 | 10 | 21 | 16 | 3 | 7 | |
| | 1978.. | 6 | 14 | 34 | 19 | 31 | 49 | |
| | acres on which used, 1982.. | 350 | 420 | 1 440 | 593 | 610 | 170 | 280 |
| | 1978.. | 540 | 460 | 2 194 | 840 | 4 545 | 502 | 6 070 |
| Lime ----- farms, 1982.. | 6 | - | 2 | 2 | - | - | - | |
| | 1978.. | 3 | - | 16 | 28 | - | 21 | |
| | acres on which used, 1982.. | 2 400 | - | (D) | (D) | - | - | |
| | 1978.. | 380 | - | 7 219 | 6 595 | - | 6 405 | |
| Sprays, dusts, granules, fumigants, etc., to control-- | 1982.. | 4 824 | - | (D) | (D) | - | - | |
| | 1978.. | 830 | - | 14 585 | 15 993 | - | 15 572 | |
| | Insects on hay and other crops ----- farms, 1982.. | 30 | 10 | 418 | 277 | 155 | 77 | 34 |
| | | 1978.. | 64 | 92 | 427 | 84 | 136 | 74 |
| acres on which used, 1982.. | | 12 678 | 1 874 | 106 634 | 49 520 | 47 300 | 34 191 | 6 869 |
| 1978.. | | 22 292 | 25 090 | 113 378 | 106 931 | 71 704 | 23 437 | 7 411 |
| Nematodes in crops ----- farms, 1982.. | - | 1 | 21 | 3 | 16 | - | 8 | |
| | 1978.. | 2 | 3 | 31 | 21 | 20 | 2 | 14 |
| | acres on which used, 1982.. | - | (D) | 6 313 | (D) | 3 600 | - | 1 200 |
| | 1978.. | (D) | 1 610 | 7 461 | 5 375 | 5 446 | (D) | 3 176 |
| Diseases in crops and orchards ----- farms, 1982.. | 25 | 3 | 158 | 87 | 3 | 13 | 13 | |
| | 1978.. | 13 | 7 | 52 | 53 | 6 | 28 | 5 |
| | acres on which used, 1982.. | 14 738 | (D) | 48 239 | 34 863 | 1 689 | 10 960 | 4 846 |
| | 1978.. | 9 115 | 4 274 | 20 402 | 18 749 | 4 550 | 11 435 | 500 |
| Weeds, grass, or brush in crops and pasture ----- farms, 1982.. | 419 | 437 | 953 | 744 | 364 | 422 | 275 | |
| | 1978.. | 367 | 403 | 1 110 | 750 | 392 | 436 | 335 |
| | acres on which used, 1982.. | 172 311 | 148 538 | 695 642 | 460 531 | 211 253 | 188 092 | 71 842 |
| | 1978.. | 115 077 | 154 807 | 645 163 | 385 002 | 216 189 | 168 738 | 80 127 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1982.. | 8 | 2 | 59 | 3 | 1 | 1 | - | |
| | 1978.. | 2 | 9 | 81 | 5 | 19 | 5 | |
| | acres on which used, 1982.. | 8 030 | (D) | 22 172 | (D) | (D) | (D) | |
| | 1978.. | (D) | 2 707 | 16 808 | 2 346 | 2 038 | 40 | |

Table 7. Agricultural Chemicals Used, Including Fertilizer and Lime: 1982 and 1978—Con.

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

| Chemicals used | Eddy | Emmons | Foster | Golden Valley | Grand Forks | Grant | Griggs |
|--|---------|---------|---------|---------------|-------------|---------|---------|
| Commercial fertilizer ----- farms, 1982.. | 213 | 216 | 224 | 180 | 825 | 265 | 356 |
| 1978.. | 230 | 318 | 225 | 241 | 997 | 369 | 419 |
| acres on which used, 1982.. | 120 841 | 69 071 | 147 312 | 89 389 | 580 082 | 102 600 | 208 077 |
| 1978.. | 87 947 | 83 946 | 144 541 | 110 663 | 548 785 | 99 888 | 186 961 |
| Cropland fertilized, except pastureland ----- farms, 1982.. | 213 | 215 | 224 | 180 | 817 | 258 | 356 |
| 1978.. | 230 | 318 | 223 | 241 | 997 | 369 | 419 |
| acres on which used, 1982.. | 119 581 | (D) | 146 323 | (D) | 579 871 | 100 325 | 208 077 |
| 1978.. | 87 017 | 82 516 | 143 954 | 108 597 | 548 085 | 99 263 | 186 616 |
| Pastureland and rangeland fertilized ----- farms, 1982.. | 7 | 2 | 5 | 2 | 11 | 23 | - |
| 1978.. | 15 | 19 | 6 | 31 | 23 | 10 | 17 |
| acres on which used, 1982.. | 1 260 | (D) | 989 | (D) | 211 | 2 275 | - |
| 1978.. | 930 | 1 430 | 587 | 2 066 | 700 | 625 | 345 |
| Lime ----- farms, 1982.. | 6 | - | - | - | 5 | - | - |
| 1978.. | - | - | - | - | 12 | - | - |
| acres on which used, 1982.. | 1 896 | - | - | - | 5 | - | - |
| 1978.. | - | - | - | - | 1 565 | - | - |
| tons, 1982.. | 3 810 | - | - | - | 5 | - | - |
| 1978.. | - | - | - | - | 1 030 | - | - |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | |
| Insects on hay and other crops ----- farms, 1982.. | 17 | 73 | 54 | 34 | 251 | 73 | 45 |
| 1978.. | 52 | 76 | 43 | 58 | 235 | 57 | 74 |
| acres on which used, 1982.. | 8 015 | 11 616 | 27 917 | 4 605 | 110 513 | 18 065 | 19 216 |
| 1978.. | 21 740 | 31 279 | 22 798 | 15 508 | 104 519 | 13 276 | 22 642 |
| Nematodes in crops ----- farms, 1982.. | 2 | - | - | - | 35 | 4 | 10 |
| 1978.. | - | - | 2 | - | 56 | 14 | - |
| acres on which used, 1982.. | (D) | - | - | - | 11 816 | 440 | 3 170 |
| 1978.. | - | - | (D) | - | 17 463 | 4 410 | - |
| Diseases in crops and orchards ----- farms, 1982.. | 1 | 8 | 4 | 3 | 199 | 6 | 4 |
| 1978.. | 6 | - | 2 | 21 | 164 | 30 | 30 |
| acres on which used, 1982.. | (D) | 2 397 | (D) | 790 | 86 696 | 240 | (D) |
| 1978.. | 1 980 | - | (D) | 9 862 | 45 733 | 10 215 | 6 613 |
| Weeds, grass, or brush in crops and pasture ----- farms, 1982.. | 213 | 322 | 197 | 189 | 666 | 296 | 328 |
| 1978.. | 247 | 343 | 249 | 194 | 836 | 406 | 368 |
| acres on which used, 1982.. | 126 645 | 116 068 | 145 409 | 89 193 | 480 895 | 95 894 | 197 790 |
| 1978.. | 89 184 | 99 016 | 146 199 | 81 757 | 431 767 | 121 513 | 172 091 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1982.. | 1 | 1 | 8 | 8 | 45 | - | 3 |
| 1978.. | - | 5 | 4 | 13 | 102 | 1 | 5 |
| acres on which used, 1982.. | (D) | (D) | 7 025 | 2 456 | 13 814 | - | 1 900 |
| 1978.. | - | 300 | 867 | 1 985 | 20 996 | (D) | 5 |

| Chemicals used | Hettinger | Kidder | La Moure | Logan | McHenry | McIntosh | McKenzie |
|--|-----------|---------|----------|--------|---------|----------|----------|
| Commercial fertilizer ----- farms, 1982.. | 270 | 152 | 480 | 132 | 424 | 141 | 364 |
| 1978.. | 434 | 110 | 609 | 193 | 564 | 155 | 473 |
| acres on which used, 1982.. | 204 132 | 39 124 | 236 313 | 50 120 | 193 209 | 36 273 | 103 727 |
| 1978.. | 209 283 | 30 221 | 267 101 | 46 712 | 188 544 | 33 566 | 125 959 |
| Cropland fertilized, except pastureland ----- farms, 1982.. | 270 | 150 | 480 | 132 | 424 | 141 | 363 |
| 1978.. | 433 | 110 | 609 | 193 | 564 | 155 | 473 |
| acres on which used, 1982.. | 203 777 | (D) | 235 863 | 49 410 | 191 579 | 36 273 | 102 556 |
| 1978.. | 206 053 | 28 981 | 263 724 | 45 752 | 187 314 | 32 366 | 124 878 |
| Pastureland and rangeland fertilized ----- farms, 1982.. | 8 | 2 | 5 | 7 | 6 | - | 11 |
| 1978.. | 23 | 8 | 45 | 5 | 15 | 12 | 17 |
| acres on which used, 1982.. | 355 | (D) | 450 | 710 | 1 630 | - | 1 171 |
| 1978.. | 3 230 | 1 240 | 3 377 | 960 | 1 230 | 1 200 | 1 081 |
| Lime ----- farms, 1982.. | - | - | - | - | - | - | - |
| 1978.. | 5 | - | 7 | 1 | - | - | 5 |
| acres on which used, 1982.. | - | - | - | - | - | - | - |
| 1978.. | 15 | - | 30 | (D) | - | - | 1 068 |
| tons, 1982.. | - | - | - | - | - | - | - |
| 1978.. | 40 | - | 87 | (D) | - | - | 2 298 |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | |
| Insects on hay and other crops ----- farms, 1982.. | 125 | 26 | 163 | 12 | 53 | 26 | 30 |
| 1978.. | 71 | 50 | 113 | 43 | 85 | 79 | 109 |
| acres on which used, 1982.. | 59 994 | 4 238 | 42 707 | 5 257 | 25 943 | 8 999 | 9 397 |
| 1978.. | 28 194 | 16 624 | 38 227 | 9 566 | 33 238 | 20 062 | 20 250 |
| Nematodes in crops ----- farms, 1982.. | - | - | 4 | 19 | 8 | 29 | 3 |
| 1978.. | 9 | 15 | 19 | 28 | - | 16 | 22 |
| acres on which used, 1982.. | - | - | 200 | 4 499 | 1 652 | 8 541 | 852 |
| 1978.. | 5 470 | 9 500 | 2 620 | 7 632 | - | 2 514 | 2 661 |
| Diseases in crops and orchards ----- farms, 1982.. | 16 | 9 | 14 | 2 | 29 | 8 | 9 |
| 1978.. | 27 | 6 | 25 | - | 44 | 11 | 21 |
| acres on which used, 1982.. | 11 438 | 2 620 | 3 215 | (D) | 9 417 | 5 853 | 9 616 |
| 1978.. | 12 238 | 4 700 | 11 732 | - | 10 780 | 1 600 | 7 136 |
| Weeds, grass, or brush in crops and pasture ----- farms, 1982.. | 289 | 261 | 506 | 271 | 477 | 227 | 376 |
| 1978.. | 342 | 277 | 589 | 247 | 628 | 274 | 365 |
| acres on which used, 1982.. | 186 148 | 99 132 | 284 134 | 87 897 | 219 254 | 99 263 | 146 831 |
| 1978.. | 182 212 | 113 174 | 228 169 | 71 012 | 226 594 | 108 897 | 94 235 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1982.. | 5 | 18 | 8 | 4 | 22 | - | 10 |
| 1978.. | 18 | - | 22 | 17 | 4 | - | 1 |
| acres on which used, 1982.. | 5 960 | 8 136 | 7 142 | 132 | 2 287 | - | 976 |
| 1978.. | 3 045 | - | 7 051 | 4 404 | 500 | - | (D) |

Table 7. Agricultural Chemicals Used, Including Fertilizer and Lime: 1982 and 1978—Con.

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

| Chemicals used | County | | | | | | | |
|--|---------|--------|---------|-----------|---------|--------|---------|--|
| | McLean | Mercer | Morton | Mountrail | Nelson | Oliver | Pembina | |
| Commercial fertilizer ----- farms, 1982.. | 572 | 242 | 372 | 329 | 477 | 148 | 677 | |
| 1978.. | 667 | 264 | 587 | 313 | 547 | 192 | 836 | |
| acres on which used, 1982.. | 236 377 | 85 242 | 122 006 | 105 648 | 268 865 | 48 488 | 457 655 | |
| 1978.. | 242 808 | 72 202 | 146 941 | 103 387 | 242 002 | 54 201 | 432 187 | |
| Cropland fertilized, except pastureland ----- farms, 1982.. | 572 | 242 | 371 | 329 | 477 | 143 | 677 | |
| 1978.. | 667 | 264 | 583 | 312 | 547 | 192 | 832 | |
| acres on which used, 1982.. | 235 593 | 85 242 | 117 066 | (D) | 268 505 | 48 340 | 456 655 | |
| 1978.. | 242 415 | 72 202 | 144 916 | 102 077 | 240 207 | (D) | 431 964 | |
| Pastureland and rangeland fertilized ----- farms, 1982.. | 10 | - | 13 | 1 | 10 | 6 | 14 | |
| 1978.. | 14 | - | 36 | 5 | 27 | 1 | 7 | |
| acres on which used, 1982.. | 784 | - | 4 940 | (D) | 360 | 148 | 1 000 | |
| 1978.. | 393 | - | 2 025 | 1 310 | 1 795 | (D) | 223 | |
| Lime ----- farms, 1982.. | - | - | - | 1 | 1 | - | 2 | |
| 1978.. | - | 13 | 16 | 5 | - | - | 12 | |
| acres on which used, 1982.. | - | - | (D) | (D) | (D) | - | (D) | |
| 1978.. | - | 2 614 | 325 | 1 490 | - | - | 9 088 | |
| tons, 1982.. | - | - | (D) | (D) | (D) | - | (D) | |
| 1978.. | - | 6 915 | 801 | 3 620 | - | - | 10 925 | |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | | |
| Insects on hay and other crops ----- farms, 1982.. | 67 | 28 | 29 | 49 | 51 | 16 | 273 | |
| 1978.. | 94 | 31 | 93 | 78 | 52 | 55 | 333 | |
| acres on which used, 1982.. | 28 059 | 7 448 | 4 606 | 16 844 | 12 095 | 3 770 | 77 704 | |
| 1978.. | 35 837 | 5 462 | 32 210 | 21 519 | 20 291 | 11 775 | 93 923 | |
| Nematodes in crops ----- farms, 1982.. | 13 | - | 8 | 6 | - | 1 | 25 | |
| 1978.. | 33 | 6 | 1 | 26 | 6 | - | 55 | |
| acres on which used, 1982.. | 2 664 | - | 1 912 | 1 155 | - | (D) | 6 656 | |
| 1978.. | 9 435 | 408 | (D) | 12 161 | 5 928 | - | 7 038 | |
| Diseases in crops and orchards ----- farms, 1982.. | 27 | 7 | 30 | 46 | 37 | 1 | 228 | |
| 1978.. | 35 | 13 | 43 | 59 | 27 | 6 | 146 | |
| acres on which used, 1982.. | 3 267 | 2 940 | 16 724 | 15 067 | 9 687 | (D) | 72 968 | |
| 1978.. | 13 318 | 1 081 | 14 503 | 27 519 | 8 555 | 188 | 38 471 | |
| Weeds, grass, or brush in crops and pasture ----- farms, 1982.. | 731 | 188 | 374 | 508 | 438 | 220 | 652 | |
| 1978.. | 836 | 296 | 465 | 632 | 519 | 228 | 683 | |
| acres on which used, 1982.. | 350 136 | 53 004 | 126 013 | 230 309 | 250 104 | 55 294 | 416 845 | |
| 1978.. | 302 534 | 88 311 | 118 837 | 229 377 | 227 555 | 60 314 | 301 262 | |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1982.. | 1 | 14 | 12 | - | 9 | - | 56 | |
| 1978.. | 5 | - | 1 | - | 20 | - | 95 | |
| acres on which used, 1982.. | (D) | 2 800 | 1 360 | - | 1 469 | - | 18 434 | |
| 1978.. | 2 425 | - | (D) | (D) | 2 454 | - | 18 307 | |

| Chemicals used | County | | | | | | | |
|--|---------|---------|---------|----------|----------|---------|---------|--|
| | Pierce | Ramsey | Ransom | Renville | Richland | Rolette | Sargent | |
| Commercial fertilizer ----- farms, 1982.. | 348 | 501 | 360 | 318 | 994 | 275 | 445 | |
| 1978.. | 349 | 581 | 435 | 336 | 1 088 | 348 | 503 | |
| acres on which used, 1982.. | 136 557 | 325 085 | 227 116 | 152 755 | 605 086 | 145 058 | 248 611 | |
| 1978.. | 108 104 | 319 668 | 204 813 | 129 408 | 554 049 | 111 764 | 233 209 | |
| Cropland fertilized, except pastureland ----- farms, 1982.. | 340 | 496 | 360 | 312 | 989 | 270 | 445 | |
| 1978.. | 349 | 581 | 435 | 336 | 1 088 | 348 | 503 | |
| acres on which used, 1982.. | 133 547 | 324 369 | 226 076 | 151 475 | 603 053 | 143 763 | 246 529 | |
| 1978.. | 106 764 | 318 628 | 200 626 | 128 994 | 551 108 | 110 664 | 229 984 | |
| Pastureland and rangeland fertilized ----- farms, 1982.. | 28 | 20 | 13 | 7 | 14 | 6 | 10 | |
| 1978.. | 21 | 16 | 29 | 9 | 46 | 29 | 34 | |
| acres on which used, 1982.. | 3 010 | 716 | 1 040 | 1 280 | 2 033 | 1 295 | 2 082 | |
| 1978.. | 1 340 | 1 040 | 4 187 | 414 | 2 941 | 1 100 | 3 225 | |
| Lime ----- farms, 1982.. | - | - | 3 | - | 7 | 9 | - | |
| 1978.. | - | - | 8 | 2 | 35 | - | 1 | |
| acres on which used, 1982.. | - | - | (D) | - | 3 944 | 1 143 | - | |
| 1978.. | - | - | 2 317 | (D) | 6 125 | - | (D) | |
| tons, 1982.. | - | - | (D) | - | 7 923 | 2 295 | - | |
| 1978.. | - | - | 5 606 | (D) | 14 496 | - | (D) | |
| Sprays, dusts, granules, fumigants, etc., to control— | | | | | | | | |
| Insects on hay and other crops ----- farms, 1982.. | 36 | 58 | 122 | 50 | 379 | 32 | 162 | |
| 1978.. | 90 | 88 | 97 | 76 | 372 | 62 | 117 | |
| acres on which used, 1982.. | 12 796 | 21 872 | 39 147 | 18 246 | 135 233 | 12 075 | 42 702 | |
| 1978.. | 35 440 | 47 757 | 33 329 | 35 594 | 96 522 | 25 190 | 28 576 | |
| Nematodes in crops ----- farms, 1982.. | - | 9 | - | - | 34 | - | 9 | |
| 1978.. | 19 | 31 | 11 | - | 44 | 5 | 25 | |
| acres on which used, 1982.. | - | 2 468 | - | - | 15 430 | - | 2 427 | |
| 1978.. | 6 855 | 11 272 | 2 399 | - | 15 462 | 4 500 | 4 545 | |
| Diseases in crops and orchards ----- farms, 1982.. | 35 | 50 | 21 | 25 | 118 | 32 | 5 | |
| 1978.. | 21 | 60 | 20 | 26 | 44 | 16 | 18 | |
| acres on which used, 1982.. | 14 310 | 19 875 | 4 263 | 15 607 | 25 479 | 3 535 | 3 154 | |
| 1978.. | 10 664 | 19 317 | 15 615 | 20 310 | 8 050 | 7 190 | 7 395 | |
| Weeds, grass, or brush in crops and pasture ----- farms, 1982.. | 373 | 450 | 318 | 360 | 876 | 298 | 417 | |
| 1978.. | 346 | 550 | 410 | 407 | 973 | 337 | 396 | |
| acres on which used, 1982.. | 191 541 | 331 412 | 199 936 | 204 371 | 601 956 | 135 950 | 242 622 | |
| 1978.. | 158 116 | 310 348 | 180 965 | 176 049 | 482 733 | 120 663 | 203 912 | |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1982.. | 8 | 6 | 5 | 4 | 22 | 16 | 18 | |
| 1978.. | 6 | 13 | 12 | 15 | 41 | 4 | 36 | |
| acres on which used, 1982.. | 2 394 | 2 191 | 2 100 | 2 238 | 12 428 | 3 915 | 6 133 | |
| 1978.. | 1 319 | 5 219 | 1 205 | 1 800 | 7 172 | 2 932 | 7 236 | |

Table 7. Agricultural Chemicals Used, Including Fertilizer and Lime: 1982 and 1978—Con.

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

| Chemicals used | 1982 | | | | | | 1978 | | | | | |
|---|--|---------|--------|--------|---------|----------|---------|---------|---------|---------|---------|----------|
| | Sheridan | Sioux | Slope | Stark | Steele | Stutsman | Towner | Trail | Walsh | Ward | Wells | Williams |
| Commercial fertilizer ----- farms, | 241 | 67 | 179 | 348 | 386 | 674 | 421 | 590 | 790 | 666 | 440 | 319 |
| | 1978.. | 242 | 60 | 197 | 416 | 751 | 498 | 700 | 996 | 726 | 538 | 422 |
| | acres on which used, 1982.. | 89 303 | 16 782 | 83 907 | 117 618 | 493 440 | 275 933 | 376 498 | 471 812 | 336 727 | 286 514 | 91 294 |
| | 1978.. | 65 659 | 13 747 | 80 928 | 138 037 | 436 861 | 259 067 | 388 078 | 498 488 | 259 964 | 282 318 | 98 012 |
| Cropland fertilized, except pastureland ----- farms, | 241 | 67 | 179 | 342 | 386 | 674 | 421 | 590 | 790 | 666 | 440 | 318 |
| | 1978.. | 242 | 60 | 197 | 406 | 751 | 498 | 700 | 996 | 726 | 537 | 422 |
| | acres on which used, 1982.. | (D) | (D) | (D) | 114 166 | 491 732 | (D) | (D) | 471 244 | 336 327 | (D) | 90 924 |
| | 1978.. | 65 659 | (D) | 80 218 | 132 450 | 428 419 | 257 911 | 387 970 | 498 080 | 259 171 | 281 458 | (D) |
| Pastureland and rangeland fertilized ----- farms, | 1 | 1 | 3 | 24 | 7 | 12 | 3 | 1 | 10 | 1 | 4 | |
| | 1978.. | - | 2 | 14 | 6 | 35 | 13 | 8 | 17 | 11 | 1 | |
| | acres on which used, 1982.. | (D) | (D) | (D) | 3 452 | 1 708 | (D) | (D) | 400 | (D) | 370 | |
| | 1978.. | - | (D) | 710 | 5 587 | 8 442 | 1 156 | 108 | 408 | 793 | 860 | (D) |
| Lime ----- farms, | - | - | - | - | - | 11 | 1 | 1 | 1 | 8 | - | |
| | 1978.. | - | - | 5 | 7 | 2 | 10 | 10 | 14 | 6 | 1 | |
| | acres on which used, 1982.. | - | - | - | - | 100 | (D) | (D) | (D) | 1 280 | - | |
| | 1978.. | - | - | 400 | - | (D) | 400 | 3 636 | 3 112 | (D) | 260 | (D) |
| Sprays, dusts, granules, fumigants, etc., to control— | - | - | - | - | - | 190 | - | - | - | 2 568 | - | |
| | 1978.. | - | - | 965 | - | (D) | 1 000 | 7 730 | 6 294 | 642 | (D) | |
| | Insects on hay and other crops ----- farms, 1982.. | 17 | 30 | 31 | 24 | 72 | 14 | 176 | 297 | 72 | 59 | 68 |
| | 1978.. | 69 | 6 | 18 | 44 | 138 | 125 | 267 | 322 | 131 | 129 | 94 |
| acres on which used, 1982.. | 8 054 | 2 704 | 5 812 | 7 835 | 25 354 | 43 311 | 10 054 | 49 418 | 25 913 | 19 418 | 22 394 | |
| 1978.. | 28 228 | 5 486 | 4 727 | 10 896 | 53 533 | 36 276 | 60 657 | 92 338 | 64 510 | 44 099 | 23 274 | |
| Nematodes in crops ----- farms, | 4 | - | - | - | - | 3 | - | 14 | 5 | 11 | 12 | |
| | 1978.. | 17 | - | - | 16 | 2 | 21 | 24 | 7 | 11 | 6 | |
| | acres on which used, 1982.. | 280 | - | - | - | 1 450 | - | 4 311 | 7 843 | 3 950 | 2 931 | |
| | 1978.. | 348 | - | - | 5 671 | 3 112 | 9 480 | 6 150 | 2 910 | 2 768 | 2 250 | |
| Diseases in crops and orchards ----- farms, | 4 | 1 | 5 | 7 | 34 | 16 | 50 | 171 | 262 | 39 | 24 | |
| | 1978.. | 12 | 15 | 19 | 19 | 37 | 65 | 97 | 177 | 54 | 33 | |
| | acres on which used, 1982.. | 840 | (D) | 4 218 | 5 400 | 17 256 | 33 155 | 46 805 | 126 203 | 6 009 | 10 595 | |
| | 1978.. | 4 104 | 1 175 | 5 500 | 6 697 | 20 970 | 33 379 | 25 501 | 43 057 | 8 109 | 7 357 | |
| Weeds, grass, or brush in crops and pasture ----- farms, | 276 | 84 | 195 | 412 | 371 | 736 | 422 | 518 | 636 | 525 | 682 | |
| | 1978.. | 267 | 93 | 203 | 473 | 778 | 406 | 565 | 816 | 581 | 706 | |
| | acres on which used, 1982.. | 135 149 | 28 542 | 96 238 | 134 266 | 472 113 | 295 583 | 329 641 | 353 402 | 389 298 | 321 510 | 287 763 |
| | 1978.. | 97 341 | 33 279 | 91 730 | 127 682 | 443 254 | 219 908 | 301 217 | 352 826 | 334 820 | 288 306 | 254 210 |
| Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, | 6 | - | 4 | 7 | 3 | 8 | 14 | 19 | 15 | 24 | 5 | |
| | 1978.. | 24 | 3 | - | - | 14 | 26 | 34 | 9 | 18 | 2 | |
| | acres on which used, 1982.. | 1 776 | - | 300 | 2 673 | 962 | 10 366 | 17 266 | 2 420 | 9 042 | 3 695 | |
| | 1978.. | 8 790 | 256 | - | - | 2 855 | 5 635 | 6 245 | 2 797 | 5 805 | (D) | |