

# APPENDICES

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**Appendix Table 1: Distribution of landholdings based on ecological belts, 1991/92**

| <b>Ecological belt</b> | <b>Number of holdings<br/>(000)</b> | <b>Area of holdings<br/>(000 ha)</b> | <b>Average holding size<br/>(ha)</b> |
|------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| Mountain               | 260.7                               | 176.8                                | 0.68                                 |
| Hill                   | 1 357.7                             | 1 046.2                              | 0.77                                 |
| <i>Terai</i>           | 1 117.6                             | 1 374.3                              | 1.26                                 |
| <b>Nepal</b>           | <b>2 706.1</b>                      | <b>2 597.4</b>                       | <b>0.96</b>                          |

Source: CBS, 1994.

**Appendix Table 2: Changes in irrigation status of holders between 1981/2 and 1991/2**

| <b>Particulars</b>                     | <b>1981/82<br/>Nepal</b> | <b>1991/92</b>  |             |              |              |
|--|--------------------------|-----------------|-------------|--------------|--------------|
|  |                          | <b>Mountain</b> | <b>Hill</b> | <b>Terai</b> | <b>Nepal</b> |
| Proportion of holders with irrigation  | 38.6                     | 57.9            | 50.4        | 49.9         | 50.9         |
| Proportion of area irrigated           | 23.7                     | 23.6            | 23.5        | 43.3         | 34.0         |
| Average size of irrigated holding (ha) |                          |                 |             |              |              |
| Irrigated holdings                     | 0.69                     | 0.28            | 0.36        | 1.09         | 0.64         |
| All holdings                           | 0.24                     | 0.16            | 0.18        | 0.55         | 0.33         |

Source: CBS, 1994.

**Appendix Table 3: Trends in crop area**

| Particulars        | Area (ha) |           |           | Annual growth rate (%) |        |
|--------------------|-----------|-----------|-----------|------------------------|--------|
|                    | 1990/91   | 1996/97   | 2000/01   |                        |        |
| Food crops         | 3 033 800 | 3 267 290 | 3 313 681 | 1.24                   | 0.35   |
| Paddy              | 1 455 170 | 1 511 230 | 1 560 044 | 0.63                   | 0.80   |
| Maize              | 757 710   | 793 720   | 824 525   | 0.78                   | 0.96   |
| Wheat              | 592 740   | 667 120   | 641 030   | 1.99                   | -0.99  |
| Millet             | 198 570   | 259 940   | 259 888   | 4.59                   | -0.01  |
| Barley             | 29 610    | 35 280    | 28 194    | 2.96                   | -5.45  |
| Pulses             | 267 720   | 312 260   | 306 220   | 2.60                   | -0.49  |
| Potato             | 84 240    | 110 850   | 129 019   | 4.68                   | 3.87   |
| Cash crops         | 212 666   | 247 482   | 264 528   | 2.56                   | 1.68   |
| Oilseeds           | 156 310   | 182 110   | 188 455   | 2.58                   | 0.86   |
| Tobacco            | 7 290     | 5 670     | 4 226     | -4.10                  | -7.08  |
| Sugarcane          | 32 960    | 46 360    | 59 422    | 5.85                   | 6.40   |
| Jute               | 14 000    | 11 000    | 11 289    | -3.94                  | 0.65   |
| Cotton             | 2 106     | 2 342     | 1 136     | 1.79                   | -16.55 |
| Vegetables         | 140 500   | 146 503   | 157 162   | 0.70                   | 1.77   |
| Total cropped area | 3 738 926 | 4 084 385 | 4 170 610 | 1.48                   | 0.52   |
| Cultivated area    | 2 420 484 | 2 552 533 | 2 535 748 | 0.89                   | -0.16  |
| Cropping Intensity | 154.47    | 160.032   | 164.47    |                        |        |

Source CBS, 1999.; SINA, MOAC, 1994/95 to 2000/01.

**Appendix Table 4: Trends in crop production**

(in 000 mt)

| Particulars | 1990/91 | 1996/97 | 2000/01 | Growth rate (%) |        |
|-------------|---------|---------|---------|-----------------|--------|
|             |         |         |         |                 |        |
| Food crops  | 5 828.6 | 6 425.6 | 7 171.8 | 1.64            | 2.78   |
| Paddy       | 3 502.2 | 3 710.7 | 4 216.5 | 0.97            | 3.25   |
| Maize       | 1 231.0 | 1 316.8 | 1 484.1 | 1.13            | 3.03   |
| Wheat       | 836.0   | 1 072.0 | 1 157.9 | 4.23            | 1.95   |
| Millet      | 231.6   | 289.5   | 282.9   | 3.79            | -0.58  |
| Barley      | 27.8    | 36.7    | 30.5    | 4.71            | -4.52  |
| Pulses      | 161.3   | 223.0   | 243.2   | 5.54            | 2.20   |
| Potato      | 738.0   | 997.4   | 1 313.7 | 5.15            | 7.13   |
| Cash crops  | 1 222.6 | 1 768.6 | 2 364.9 | 6.35            | 7.53   |
| Oilseeds    | 92.1    | 119.3   | 132.3   | 4.39            | 2.64   |
| Tobacco     | 7.0     | 4.5     | 4.0     | -7.12           | -2.96  |
| Sugarcane   | 1 106.0 | 1 629.3 | 2211.8  | 6.67            | 7.94   |
| Jute        | 16.0    | 14.0    | 16.4    | -2.20           | 4.02   |
| Cotton      | 1.6     | 1.6     | 0.5     | 0.54            | -26.86 |
| Vegetables  | 1 127.9 | 1 357.4 | 1653.0  | 3.14            | 5.05   |

Source CBS, 1999.; SINA, MOAC, 1994/95 to 2000/01.

**Appendix Table 5: Trend in yield of crops**

| Particulars | Unit  | 1990/91 | 1996/97 | 2000/01 | Growth rate (%) |        |
|-------------|-------|---------|---------|---------|-----------------|--------|
|             |       |         |         |         |                 |        |
| Food crops  | mt/ha | 1.92    | 1.97    | 2.16    | 0.39            | 2.42   |
| Paddy       | mt/ha | 2.41    | 2.46    | 2.70    | 0.33            | 2.43   |
| Maize       | mt/ha | 1.62    | 1.66    | 1.80    | 0.35            | 2.06   |
| Wheat       | mt/ha | 1.41    | 1.61    | 1.81    | 2.20            | 2.97   |
| Millet      | mt/ha | 1.17    | 1.11    | 1.09    | -0.77           | -0.57  |
| Barley      | mt/ha | 0.94    | 1.04    | 1.08    | 1.69            | 0.98   |
| Pulses      | mt/ha | 0.60    | 0.71    | 0.79    | 2.87            | 2.70   |
| Potato      | mt/ha | 8.76    | 9.00    | 10.18   | 0.45            | 3.14   |
| Cash crops  | mt/ha | 5.75    | 7.15    | 9.93    | 3.69            | 8.58   |
| Oilseeds    | mt/ha | 0.59    | 0.65    | 0.70    | 1.77            | 1.76   |
| Tobacco     | mt/ha | 0.96    | 0.79    | 0.94    | -3.15           | 4.44   |
| Sugarcane   | mt/ha | 33.55   | 35.14   | 37.22   | 0.77            | 1.45   |
| Jute        | mt/ha | 1.14    | 1.27    | 1.45    | 1.81            | 3.35   |
| Cotton      | mt/ha | 0.74    | 0.68    | 0.40    | -1.22           | -12.36 |
| Vegetables  | mt/ha | 8.03    | 9.27    | 10.52   | 2.42            | 3.22   |

Source CBS, 1999.; SINA, MOAC, 1994/95 to 2000/01.

**Appendix Table 6: Trends in livestock population**

| Particulars | Unit      | 1990/91 | 1996/97 | 2000/01 | Growth rate (%) |        |
|-------------|-----------|---------|---------|---------|-----------------|--------|
|             |           |         |         |         |                 |        |
| Cattle      | nos (000) | 6 255   | 7 025   | 6 983   | 1.95            | -0.15  |
| Buffalo     | nos (000) | 3 044   | 3 362   | 3 624   | 1.67            | 1.89   |
| Sheep       | nos (000) | 906     | 870     | 850     | -0.67           | -0.58  |
| Goat        | nos (000) | 5 367   | 5 922   | 6 478   | 1.65            | 2.27   |
| Pigs        | nos (000) | 592     | 724     | 913     | 3.41            | 5.97   |
| Fowl        | millions  | 13.56   | 15.58   | 1 979   | 2.34            | 235.71 |
| Duck        | nos (000) | 392     | 416     | 411     | 1.00            | -0.30  |

Source CBS, 1999.; SINA, MOAC, 1994/95 to 2000/01.

**Appendix Table 7: Major agricultural growth targets of the Ninth Plan**

| <b>Subsectors</b>         | <b>Base year weight (1996-97)</b> | <b>Annual growth (%)</b> | <b>Final year weight (2002-3)</b> |
|---------------------------|-----------------------------------|--------------------------|-----------------------------------|
| <b>Foodgrains</b>         | <b>41.13</b>                      | <b>5.18</b>              | <b>52.94</b>                      |
| Paddy                     | 23.10                             | 6.35                     | 31.42                             |
| Maize                     | 9.98                              | 4.05                     | 12.17                             |
| Wheat                     | 5.10                              | 4.25                     | 6.28                              |
| Millet                    | 2.66                              | 0.74                     | 2.76                              |
| Barley                    | 0.29                              | 1.34                     | 0.31                              |
| <b>Cash crops</b>         | <b>6.62</b>                       | <b>6.50</b>              | <b>9.07</b>                       |
| Sugarcane                 | 0.46                              | 5.46                     | 0.60                              |
| Oilseed                   | 2.02                              | 5.42                     | 2.63                              |
| Tobacco                   | 0.40                              | 5.39                     | 0.52                              |
| Jute                      | 0.62                              | 5.23                     | 0.80                              |
| Potato                    | 3.12                              | 6.23                     | 4.22                              |
| <b>Pulses</b>             | <b>2.17</b>                       | <b>6.04</b>              | <b>2.91</b>                       |
| Horticulture              | 13.84                             | 3.54                     | 16.47                             |
| Fruits                    | 7.04                              | 3.15                     | 8.22                              |
| Vegetables                | 4.82                              | 4.93                     | 6.13                              |
| Others*                   | 1.98                              | 1.38                     | 2.12                              |
| <b>Livestock</b>          | <b>35.78</b>                      | <b>5.86</b>              | <b>47.56</b>                      |
| Milk                      | 22.42                             | 5.56                     | 29.38                             |
| Meat                      | 11.56                             | 6.22                     | 15.63                             |
| Eggs                      | 1.80                              | 7.21                     | 2.55                              |
| <b>Fisheries</b>          | <b>0.46</b>                       | <b>8.76</b>              | <b>0.70</b>                       |
| <b>Agriculture sector</b> | <b>100.00</b>                     | <b>5.33</b>              | <b>129.63</b>                     |

Source: The Ninth Plan 1997-2002, NPC, HMG/N, 1998.

**Appendix Table 8: Targeted yield of crops and cropping intensity of the Ninth Plan**

Area: 000 ha and Yield: mt/ha

| <b>Programme type and crops</b> | <b>1996-97 Yield &amp; CI</b> | <b>2002-03 Yield &amp; CI</b> | <b>Annual change in yield and CI (%)</b> |
|---------------------------------|-------------------------------|-------------------------------|--|
| <b>Prioritized programmes</b>   |                               |                               |  |
| Paddy                           | 2.64                          | 3.38                          | 5.61                                     |
| Maize                           | 1.71                          | 2.26                          | 6.43                                     |
| Wheat                           | 2.51                          | 2.77                          | 2.07                                     |
| Potato                          | 8.74                          | 9.29                          | 1.26                                     |
| Lentil                          | 0.73                          | 1.03                          | 8.22                                     |
| Vegetables                      | 9.25                          | 10.73                         | 3.20                                     |
| Cropped area                    | 391.5                         | 550                           | 8.10                                     |
| Cultivated area                 | 208                           | 270                           | 5.96                                     |
| Cropping intensity              | 1.88                          | 2.04                          | 1.70                                     |
| <b>Ordinary programmes</b>      |                               |                               |  |
| Paddy                           | 2.45                          | 3.03                          | 4.73                                     |
| Maize                           | 1.65                          | 1.92                          | 3.27                                     |
| Wheat                           | 1.45                          | 1.56                          | 1.52                                     |
| Millet                          | 1.11                          | 1.15                          | 0.72                                     |
| Barley                          | 1.00                          | 4.64                          | 72.80                                    |
| Potato                          | 8.74                          | 9.29                          | 1.26                                     |
| Lentil                          | 0.74                          | 1.03                          | 7.84                                     |
| Other pulses                    | 0.70                          | 0.75                          | 1.43                                     |
| Oilseeds                        | 0.64                          | 0.84                          | 6.25                                     |
| Sugarcane                       | 35.26                         | 43.75                         | 4.82                                     |
| Tobacco                         | 0.83                          | 1.08                          | 6.02                                     |
| Jute                            | 1.27                          | 1.64                          | 5.83                                     |
| Cotton                          | 0.70                          | 1.18                          | 13.71                                    |
| Vegetables                      | 9.25                          | 10.73                         | 3.20                                     |
| Cropped area                    | 3 689.8                       | 3 806                         | 0.63                                     |
| Cultivated area                 | 2 343                         | 2 264                         | -0.67                                    |
| Cropping intensity              | 157.48                        | 168.11                        | 1.35                                     |
| <b>Overall</b>                  |                               |                               |  |
| Cropped area                    | 4081.3                        | 4356                          | 1.35                                     |
| Cultivated area                 | 2551                          | 2534                          | -0.13                                    |
| Cropping intensity              | 159.99                        | 171.90                        | 1.49                                     |

Source: The Ninth Plan 1997-2002, NPC, HMG/N, 1998.



**Appendix Table 9: Projected area, production and yield of major crops in the Ninth Plan**

|                               | 1996-97          |                   |                  | 2002-03          |                   |                  |
|-------------------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|
|                               | Area<br>(000 ha) | Prodn<br>(000 mt) | Yield<br>(mt/ha) | Area<br>(000 ha) | Prodn<br>(000 mt) | Yield<br>(mt/ha) |
| <b>Prioritized programmes</b> |                  |                   |                  |                  |                   |                  |
| Paddy                         | 80               | 211               | 2.64             | 120              | 406               | 3.38             |
| Maize                         | 24               | 41                | 1.71             | 35               | 79                | 2.26             |
| Wheat                         | 85               | 213               | 2.51             | 160              | 443               | 2.77             |
| Potato                        | 55               | 480.5             | 8.74             | 70               | 650               | 9.29             |
| Lentil                        | 74.5             | 54.5              | 0.73             | 85               | 87.5              | 1.03             |
| Vegetables                    | 73               | 675               | 9.25             | 80               | 858               | 10.73            |
| Cropped area                  | 391.5            |                   |                  | 550              |                   |                  |
| Cultivated area               | 208              |                   |                  | 270              |                   |                  |
| Cropping intensity            | 1.88             |                   |                  | 2.04             |                   |                  |
| <b>Ordinary programmes</b>    |                  |                   |                  |                  |                   |                  |
| Paddy                         | 1 425            | 3 488             | 2.45             | 1 512            | 4 594             | 3.03             |
| Maize                         | 769              | 1 271             | 1.65             | 794              | 1 521             | 1.92             |
| Wheat                         | 580              | 843               | 1.45             | 548              | 857               | 1.56             |
| Millet                        | 260              | 289               | 1.11             | 260              | 300               | 1.15             |
| Barley                        | 39               | 39                | 1.00             | 39               | 181               | 4.64             |
| Potato                        | 55               | 480.5             | 8.74             | 70               | 650               | 9.29             |
| Lentil                        | 83.5             | 61.5              | 0.74             | 94               | 96.5              | 1.03             |
| Other pulses                  | 155              | 108               | 0.70             | 155              | 116               | 0.75             |
| Oilseeds                      | 185              | 119               | 0.64             | 185              | 155               | 0.84             |
| Sugarcane                     | 46               | 1 622             | 35.26            | 48               | 2 100             | 43.75            |
| Tobacco                       | 6                | 5                 | 0.83             | 6                | 6.5               | 1.08             |
| Jute                          | 11               | 14                | 1.27             | 11               | 18                | 1.64             |
| Cotton                        | 2.3              | 1.6               | 0.70             | 4                | 4.7               | 1.18             |
| Vegetables                    | 73               | 675               | 9.25             | 80               | 858               | 10.73            |
| Cropped area                  | 3 689.8          | 9 016.6           |                  | 3 806            | 1 1457.7          |                  |
| Cultivated area               | 2343             |                   |                  | 2 264            |                   |                  |
| Cropping intensity            | 157.48           |                   |                  | 168.11           |                   |                  |
| <b>Overall</b>                |                  |                   |                  |                  |                   |                  |
| Cropped area                  | 4 081.3          |                   |                  | 4 356            |                   |                  |
| Cultivated area               | 2 551            |                   |                  | 2 534            |                   |                  |
| Cropping intensity            | 159.99           |                   |                  | 171.90           |                   |                  |

Source: The Ninth Plan 1997-2002, NPC, HMG/N, 1998.

**Appendix Table 10: Projected area, production and yield of fruits and off season vegetables in the Ninth Plan**

| <b>Particulars</b>                     | <b>1996/97</b> | <b>2001/02</b> | <b>Annual growth (%)</b> |
|--|----------------|----------------|--------------------------|
| <b>Priority: Citrus</b>                |                |                |                          |
| Total area (ha)                        | 15 924         | 20 924         | 5.61                     |
| Productive area (ha)                   | 9 330          | 12 000         | 5.16                     |
| Production (mt)                        | 92 994         | 126 000        | 6.26                     |
| Yield (mt/ha)                          | 9.97           | 10.5           | 1.04                     |
| <b>Priority: Apple</b>                 |                |                |                          |
| Total area (ha)                        | 4 652          | 6 927          | 8.29                     |
| Productive area (ha)                   | 3 006          | 3 264          | 1.66                     |
| Production (mt)                        | 28 595         | 31 397         | 1.89                     |
| Yield (mt/ha)                          | 9.5            | 9.6            | 0.21                     |
| <b>Priority: Off-season vegetables</b> |                |                |                          |
| Total area (ha)                        | 145 000        | 160 000        | 1.99                     |
| Production (mt)                        | 1 350 000      | 1 719 000      | 4.95                     |
| Yield (mt/ha)                          | 9.3            | 10.7           | 2.84                     |
| <b>General: Other fruits</b>           |                |                |                          |
| Total area (ha)                        | 42344          | 45 469         | 1.43                     |
| Productive Area (ha)                   | 29949          | 32 815         | 1.84                     |
| Production (mt)                        | 306 636        | 342 603        | 2.24                     |
| Yield (mt/ha)                          | 10.24          | 10.44          | 0.39                     |

Source: The Ninth Plan 1997-2002, NPC, HMG/N, 1998.

**Appendix Table 11: Irrigation development targets of the Ninth Plan**

| <b>Particulars</b>            | <b>Status as of<br/>1996-97<br/>(ha)</b> | <b>Planned<br/>status as of<br/>2001/02 (ha)</b> | <b>Annual growth<br/>%</b> | <b>Ninth Plan target<br/>(ha)</b> |
|-------------------------------|--|--|----------------------------|-----------------------------------|
| <b>Irrigation Department</b>  | <b>534 102</b>                           | <b>616 502</b>                                   | <b>2.91</b>                | <b>82 500</b>                     |
| Surface irrigation            | 476 928                                  | 529 328  | 2.11                       | 52 400                            |
| Ground water irrigation       | 57 174                                   | 87 174   | 8.80                       | 30 000                            |
| <b>Agri. Dev. Bank</b>        | <b>139 701</b>                           | <b>199 701</b>                                   | <b>7.41</b>                | <b>60 000</b>                     |
| Surface irrigation            | 27 554                                   | 27 554   | 0.00                       | 0.00                              |
| Ground water irrigation       | 112 147                                  | 172 147  | 8.95                       | 60 000                            |
| Others                        | 27 231                                   | 27 231   | 0.00                       | 0                                 |
| Lift irrigation               | 28 504                                   | 28 504   | 0.00                       | 0                                 |
| <b>Farmer Managed Systems</b> | <b>381 814</b>                           | <b>381 814</b>                                   | <b>0.00</b>                | <b>0</b>                          |
| Surface irrigation            | 357 098                                  | 357 098  | 0.00                       | 0                                 |
| Ground water irrigation       | 24 716                                   | 24 716   | 0.00                       | 0                                 |
| <b>Total</b>                  | <b>1 055 617</b>                         | <b>1 198 017</b>                                 | <b>2.56</b>                | <b>142 400</b>                    |

Source: The Ninth Plan 1997-2002, NPC, HMG/N, 1998.

**Appendix Table 12: Trends in the development of irrigation facilities  
by ecological belts, 1974/74 to 2000/01**

| <b>Year</b>               | <b>Hill and mountain (ha)</b> | <b>Terai (ha)</b> | <b>Farmer developed area (ha)</b> | <b>Total w/o farmer developed area (ha)</b> | <b>Total w/ farmer developed area (ha)</b> |
|---------------------------|-------------------------------|-------------------|-----------------------------------|---|--|
| 74/75                     | 9 646                         | 183 536           | NA                                | 193 182                                     | 193 182                                    |
| 76                        | 11 187                        | 185 616           | NA                                | 196 803                                     | 196 803                                    |
| 77                        | 13 020                        | 203 876           | NA                                | 216 896                                     | 216 896                                    |
| 78                        | 13 520                        | 211 216           | NA                                | 224 736                                     | 224 736                                    |
| 79                        | 13 825                        | 233 508           | NA                                | 247 333                                     | 247 333                                    |
| 80                        | 17 139                        | 271 468           | NA                                | 288 607                                     | 288 607                                    |
| 81                        | 17 239                        | 280 743           | NA                                | 297 982                                     | 297 982                                    |
| 82                        | 17 327                        | 292 043           | NA                                | 309 370                                     | 309 370                                    |
| 83                        | 17 852                        | 305 543           | NA                                | 323 395                                     | 323 395                                    |
| 84                        | 18 442                        | 322 668           | NA                                | 341 110                                     | 341 110                                    |
| 85                        | 23 964                        | 357 623           | NA                                | 381 587                                     | 381 587                                    |
| 86                        | 28 008                        | 380 809           | NA                                | 408 818                                     | 408 818                                    |
| 87                        | 30 638                        | 414 752           | NA                                | 445 390                                     | 445 390                                    |
| 88                        | 35 461                        | 444 531           | NA                                | 479 992                                     | 479 992                                    |
| 89                        | 53 290                        | 480 005           | NA                                | 533 295                                     | 533 295                                    |
| 90                        | 56 886                        | 502 076           | NA                                | 558 962                                     | 558 962                                    |
| 91                        | 63 307                        | 517 943           | NA                                | 581 250                                     | 581 250                                    |
| 92                        | 71 999                        | 543 084           | NA                                | 615 083                                     | 615 083                                    |
| 93                        | 83 552                        | 591 454           | NA                                | 675 006                                     | 675 006                                    |
| 94                        | 89 818                        | 618 720           | NA                                | 708 539                                     | 708 539                                    |
| 95                        | 94 037                        | 639 904           | 381 814                           | 733 941                                     | 1 115 755                                  |
| 96                        | 104 825                       | 677 647           | 381 814                           | 782 472                                     | 1 164 286                                  |
| 97                        | 114 391                       | 702 953           | 381 814                           | 817 344                                     | 1 199 158                                  |
| 98                        | 126 433                       | 712 367           | 381 814                           | 838 800                                     | 1 220 614                                  |
| 98/99                     | 134 384                       | 751 865           | 381 814                           | 886 249                                     | 1 268 063                                  |
| 99/2000                   | 140 910                       | 781 029           | 381 814                           | 921 939                                     | 1 303 753                                  |
| 2000/01                   | 145 380                       | 805 801           | 381 814                           | 951 181                                     | 1 332 995                                  |
| Growth: 74/75-96/97 (%)   | 12.50                         | 6.60              | NA                                | 7.11  | 9.08                                       |
| Growth: 96/97-2000/01 (%) | 6.18                          | 3.47              | 0.00                              | 3.86  | 2.68                                       |

Source: Computed from information provided in Economic Survey, 2001/02 MOF, 2002 and SINA of MOAC (different volumes).

**Appendix Table 13: Trends in the development of irrigation facilities  
by source, 1989/90 to 2000/01**

| Year                     | Area developed by (ha) |         |         | Total     |
|--------------------------|------------------------|---------|---------|-----------|
|                          | DOI                    | ADB/N   | Farmers |           |
| 1989-90                  | 395 857                | 71 545  | 381 814 | 849 216   |
| 1994/95                  | 534 102                | 212 763 | 381 814 | 1 128 679 |
| 1995/96                  | 556 277                | 226 195 | 381 814 | 1 164 286 |
| 1996/97                  | 582 454                | 234 890 | 381 814 | 1 199 158 |
| 1997/98                  | 598 053                | 240 747 | 381 814 | 1 220 614 |
| 1998/99                  | 640 197                | 246 052 | 381 814 | 1 268 063 |
| 1999/00                  | 648 322                | 273 614 | 381 814 | 1 303 750 |
| 2000/01                  | 675 604                | 275 577 | 381 814 | 1 332 995 |
| Growth (89/90-96/97)     | 5.67                   | 18.51   | 0.00    | 5.05      |
| Growth (1996/97- 000/01) | 3.78                   | 4.07    | 0.00    | 2.68      |

Source: Computed from information provided in Economic Survey, 2001/02 MOF, 2002 and SINA of MOAC (different volumes).

**Appendix Table 14: Annual growth in additional area brought under irrigation  
in the pre- and post-APP period**

| Year                              | Growth by Ecological Belts % |              | Nepal       |
|-----------------------------------|------------------------------|--------------|-------------|
|                                   | Hill and mountain            | <i>Terai</i> |             |
| 1995/96                           | 4.70                         | 3.42         | 3.59        |
| 1996/97                           | 11.47                        | 5.90         | 6.61        |
| <b>Average of pre APP period</b>  | <b>8.08</b>                  | <b>4.66</b>  | <b>5.10</b> |
| 1997/98                           | 9.13                         | 3.73         | 4.46        |
| 1998/99                           | 10.53                        | 1.34         | 2.63        |
| 1999/2000                         | 6.29                         | 5.54         | 5.66        |
| 2000/01                           | 4.86                         | 3.88         | 4.03        |
| <b>Average of post APP period</b> | <b>7.70</b>                  | <b>3.62</b>  | <b>4.19</b> |

Source: Computed from information provided in Economic Survey, 2001/02 MOF, 2002 and SINA of MOAC (different volumes).

**Appendix Table 15: Trends in fertilizer use, 1965/66 to 2000/01**

( nutrients in mt)

| <b>Year</b>            | <b>Nitrogen</b> | <b>Phosphorus</b> | <b>Potash</b> | <b>Total</b> |
|------------------------|-----------------|-------------------|---------------|--------------|
| 1965/66                | 342             | 99                | 10            | 451          |
| 1967                   | 1 070           | 279               | 103           | 1 452        |
| 1968                   | 1 839           | 728               | 167           | 2 734        |
| 1969                   | 2 382           | 659               | 159           | 3 200        |
| 1970                   | 3 380           | 1 049             | 156           | 4 585        |
| 1971                   | 4 111           | 1 080             | 214           | 5 405        |
| 1972                   | 5 544           | 1 952             | 462           | 7 958        |
| 1973                   | 7 698           | 3 150             | 1 052         | 11 900       |
| 1974                   | 9 003           | 3 160             | 918           | 13 081       |
| 1975                   | 8 923           | 2 849             | 886           | 12 658       |
| 1976                   | 8 423           | 2 491             | 1 352         | 12 266       |
| 1977                   | 10 694          | 2 778             | 1 442         | 14 914       |
| 1978                   | 13 012          | 3 383             | 1 070         | 17 465       |
| 1979                   | 13 746          | 3 341             | 1 456         | 18 543       |
| 1980                   | 15 500          | 4 286             | 1 178         | 20 964       |
| 1981                   | 16 679          | 5 300             | 580           | 22 559       |
| 1982                   | 17 526          | 4 248             | 770           | 22 544       |
| 1983                   | 22 882          | 7 457             | 936           | 31 275       |
| 1984                   | 28 057          | 8 461             | 779           | 37 297       |
| 1985                   | 31 656          | 10 623            | 550           | 42 829       |
| 1986                   | 31 698          | 11 053            | 657           | 43 408       |
| 1987                   | 32 900          | 11 941            | 210           | 45 051       |
| 1988                   | 38 122          | 15 211            | 858           | 54 191       |
| 1989                   | 39 801          | 15 268            | 1 770         | 56 839       |
| 1990                   | 49 206          | 16 742            | 1 338         | 67 286       |
| 1991                   | 51 929          | 19 256            | 1 533         | 72 718       |
| 1992                   | 60 008          | 22 833            | 1 602         | 84 443       |
| 1993                   | 60 447          | 21 595            | 1 290         | 83 332       |
| 1994                   | 55 385          | 17 149            | 1 278         | 73 812       |
| 1995                   | 64 385          | 24 300            | 1 578         | 90 263       |
| 1996                   | 46 448          | 21 306            | 2 400         | 70 154       |
| 1997                   | 43 242          | 19 283            | 1 635         | 64 160       |
| 1998                   | 35 567          | 18 259            | 1 258         | 55 084       |
| 1999                   | 59 079          | 16 831            | 1 258         | 77 168       |
| 2000                   | 48 753          | 26 296            | 185           | 75 234       |
| 2000/01                | 46 611          | 27 213            | 35            | 73 859       |
| <b>Growth rate (%)</b> |                 |                   |               |              |
| 1965-90                | 23.00           | 23.83             | 22.63         | 23.19        |
| 1990-1997              | -1.83           | 2.04              | 2.91          | -0.68        |
| 1997-2001              | 1.89            | 8.99              | -61.75        | 3.58         |

Source: Computed from data presented in Tamrakar, 1998 and Fertilizer Unit, MOAC, 2002.

**Appendix Table 16: Import and sales of chemical fertilizers, 1995/96 to 2000/01**

| Development region | Sales (000 mt) |               |               |               |               |               | Annual growth |              |
|--------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|                    | 1995/96        | 1996/97       | 1997/98       | 1998/99       | 1999/00       | 2000/01       | 1995-97       | 1997-2001    |
| AIC Sales          |                |               |               |               |               |               |               |              |
| EDR                | 30.02          | 26.37         | 18.27         | 18.55         | 13.73         | 9.1           | -22.0         | -20.73       |
| CDR                | 64.5           | 56.95         | 40.69         | 36.28         | 32.94         | 18.09         | -20.6         | -23.68       |
| WDR                | 21.2           | 21.82         | 18.53         | 16.2          | 8.24          | 6.96          | -6.5          | -27.85       |
| MWDR               | 11.86          | 10.31         | 9.05          | 10.75         | 11.43         | 8.35          | -12.6         | -2.65        |
| FWDR               | 5.66           | 6.77          | 4.63          | 6.58          | 5.12          | 2.72          | -9.6          | -16.25       |
| Total              | 133.24         | 122.22        | 91.17         | 88.36         | 71.46         | 45.22         | -17.3         | -20.84       |
| Private sales      | 0              | 0             | 17.55         | 68.48         | 76.73         | 101.15        | NA            | 79.29        |
| <b>Total</b>       | <b>133.24</b>  | <b>122.22</b> | <b>108.72</b> | <b>156.84</b> | <b>148.19</b> | <b>146.37</b> | <b>-9.7</b>   | <b>10.42</b> |

Source: SINA , 1995/95-2000/01, MOAC (different volumes).

**Appendix Table 17: Chronology of decisions concerning fertilizer trade deregulation**

| Subject/Areas                                      | Date              | Actions/Decisions Made  |
|--|-------------------|---|
| 1. Policy approval                                 | 4 June 1997       | Price and transport subsidies on fertilizers removed gradually and in phases.   |
|  | 6 June 1997       | MOU signed between HMG/N and AsDB for SAPL  |
|  | 21 October 1997   | Unit established within MOAC as a precondition for SAPL loan negotiation.   |
|  | 3 November 1997   | HMG/N's policy development letter to AsDB conforming to the implementation of reform measures to remove structural constraints, including reduction of fertilizer subsidies.  |
|  | 6 November 1997   | HMG/N's decision to deregulate fertilizer trade, which among others, included removal of price subsidies on non-urea fertilizers, removal of AIC's monopoly on fertilizer trade, conversion of total cost subsidy to a fixed cost subsidy, direction to set urea subsidy not exceeding 37 percent of the total import cost at import points and setting of fertilizer sale prices reflecting the full cost of procurement and distribution. |
|  | 19 December 1997  | MOA issued on 'Working Policy to Involve the Private Sector in the Fertilizer Trade'.   |
| 2. Phasing out of subsidy                          | 20 November 1997  | Set urea subsidy at Rs 4 198 / mt at import point for urea imported from 20 November 1997 to 19 May 1998.   |
|  | 6 July, 1998      | Lowered urea subsidy further down to Rs 2 728 per mt effective 20 May 1998.   |
|  | 1 July, 1999      | Lowered urea subsidy further down to Rs 1 500 per mt effective 1 July 1998  |
|  | 25 November 1999  | Complete removal of urea subsidy effective 17 November 1999.  |
| 3. Sale price adjustment                           | 25 November 1997  | AIC increased the sale price of all fertilizers by 10 percent.  |
|  | 30 September 1999 | AIC scrapped uniform pricing policy and adjusted sale price of urea from Rs 8 940 to Rs 10 140 per mt.  |
| 4. Legislation to ensure the quality of fertilizer |                   | MOA issued guidelines for fertilizer importation.   |
|  | 15 March 1999     | Fertilizer included under the list of essential commodities.  |
|  | 19 April 1999     | Fertilizer control order published.   |
|  | 19 June 2000      | MOAC amended fertilizer control order 1999.   |
|  | 25 July 2000      | MOAC issued fertilizer guidelines.  |
|  | 31 July 2000      | First amendment of fertilizer control order approved.   |

Source: Fertilizer Unit, MOAC, 2000.



**Appendix Table 18: Performance of credit disbursement by ADB/N  
by sector, 1996/97 to 1998/99**

(Rs. Million)

| Purpose                | Pre-APP period |                | Post-APP period |                |                |                | Growth rate (%) |              |
|------------------------|----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|--------------|
|                        | 1995/96        | 1996/97        | 1997/98         | 1998/99        | 1999/00        | 2000/01        | 1995-96         | 97-2001      |
| Priority inputs        | 1 652.6        | 1670.7         | 1 998.0         | 2 578.8        | 3 450.8        | 3 771.2        | 1.1             | 22.57        |
| Cereal crops           | 519.7          | 474.4          | 611.7           | 720.2          | 820.1          | 820.1          | -8.7            | 14.66        |
| Cash crops             | 461.2          | 480.1          | 558.3           | 745.7          | 932.4          | 1 019.2        | 4.1             | 20.71        |
| Marketing              | 488.9          | 557.7          | 719.9           | 997.3          | 1 525.2        | 1 878.3        | 14.1            | 35.47        |
| Irrigation             | 182.8          | 158.5          | 108.1           | 115.6          | 173.1          | 53.6           | -13.3           | -23.74       |
| Priority outputs       | 1 412.7        | 1 556.5        | 1 741.9         | 2 032.1        | 2 501.3        | 2 804.7        | 10.2            | 15.86        |
| Livestock              | 741            | 773.2          | 866.6           | 1 029.3        | 1 217.3        | 1 379.3        | 4.3             | 15.57        |
| Horticulture           | 34.8           | 3.03           | 36.0            | 30.1           | 45.3           | 41.2           | -5.2            | 5.71         |
| Agro-industry          | 625.1          | 724.3          | 829.5           | 946.9          | 1 181.7        | 1 300.8        | 15.9            | 15.76        |
| Warehouse & cold store | 11.8           | 26.0           | 9.8             | 25.8           | 57             | 83.4           | 120.3           | 33.83        |
| APP Sectors            | 3 065.3        | 3 227.2        | 3 739.9         | 4 610.9        | 5 952.1        | 6 575.9        | 5.3             | 19.48        |
| Non-APP Sectors        | 649.3          | 627.0          | 690.2           | 951.5          | 1 114.7        | 1 330.2        | -3.4            | 20.69        |
| Farm mech.             | 462.9          | 435.8          | 472.2           | 707.3          | 854.1          | 1 015.6        | -5.9            | 23.55        |
| Bio gas                | 125.2          | 129.6          | 159.1           | 141.9          | 87.5           | 98.2           | 3.5             | -6.70        |
| Tea and coffee         | 44.4           | 45.2           | 41.8            | 83.6           | 138            | 154.5          | 1.8             | 35.97        |
| Forest                 | 0              | 0              | 0               | 0              | 16             | 38.2           | NA              | NA           |
| Housing and land dev.  | 16.8           | 16.4           | 17.1            | 18.7           | 19.1           | 23.7           | NA              | NA           |
| <b>Total</b>           | <b>3 714.6</b> | <b>3 854.2</b> | <b>4 430.1</b>  | <b>5 562.4</b> | <b>7 066.8</b> | <b>7 906.1</b> | <b>3.8</b>      | <b>19.68</b> |

Source: Computed from information provided in the SINA, 2000/01, MOAC, 2002.

**Appendix Table 19: APP priority research projects and budget allocation  
in 1997/98 and 1998/99**

| Research areas                        | 1997/98             |                    |                               | 1998/99             |                    |                               |
|---------------------------------------|---------------------|--------------------|-------------------------------|---------------------|--------------------|-------------------------------|
|                                       | Number of proposals | Operational budget |                               | Number of proposals | Operational budget |                               |
|                                       |                     | Amount (Rs 000)    | Percentage of total proposals |                     | Amount (Rs 000)    | Percentage of total proposals |
| <b>A. Food crop sector</b>            |                     |                    |                               |                     |                    |                               |
| Paddy                                 | 67                  | 6 783              | 9.2                           | 91                  | 7 004              | 7.8                           |
| Maize                                 | 36                  | 1 933              | 2.6                           | 38                  | 2 305              | 2.6                           |
| Wheat                                 | 40                  | 2 946              | 4.0                           | 45                  | 2 911              | 3.3                           |
| Potato                                | 19                  | 1 212              | 1.6                           | 26                  | 1 804              | 2.0                           |
| Subtotal                              | 162                 | 12 874             | 17.5                          | 200                 | 14 024             | 15.7                          |
| <b>B. High value commodity sector</b> |                     |                    |                               |                     |                    |                               |
| Orange and other fruits               | 23                  | 1 708              | 2.3                           | 17                  | 2 466              | 2.8                           |
| Vegetables                            | 38                  | 2 284              | 3.1                           | 52                  | 2 723              | 4.2                           |
| Spices                                | 10                  | 828                | 1.1                           | 12                  | 760                | 0.9                           |
| Subtotal                              | 71                  | 4 820              | 6.5                           | 81                  | 6 949              | 7.8                           |
| <b>C. Livestock subsector</b>         |                     |                    |                               |                     |                    |                               |
| Milk production                       | 29                  | 4 750              | 6.5                           | 12                  | 5 488              | 6.1                           |
| Meat production                       | 40                  | 7 419              | 10.1                          | 44                  | 8 322              | 9.3                           |
| Fish production                       | 38                  | 8 604              | 11.7                          | 56                  | 8 803              | 9.8                           |
| Subtotal                              | 107                 | 20 773             | 28.2                          | 112                 | 22 613             | 25.3                          |
| <b>D. Research sector</b>             |                     |                    |                               |                     |                    |                               |
| Soil fertility management             | 44                  | 2 763              | 3.8                           | 51                  | 3 241              | 3.6                           |
| Integrated pest management            | 66                  | 5 023              | 6.8                           | 116                 | 6 947              | 7.8                           |
| Pasture and fodder                    | 19                  | 1 589              | 2.2                           | 35                  | 3 772              | 4.2                           |
| Subtotal                              | 129                 | 9 375              | 12.7                          | 202                 | 13 960             | 15.6                          |
| <b>E. Outreach research</b>           |                     |                    |                               |                     |                    |                               |
| APP priority projects                 | 547                 | 53 749             | 73.0                          | 687                 | 65 417             | 73.2                          |
| Other projects                        | 182                 | 19 813             | 26.9                          | 155                 | 23 992             | 26.8                          |
| Total projects                        | 729                 | 73 558             | 100.0                         | 842                 | 89 409             | 100.0                         |

Source: NARC, 2000

**Appendix Table 20: Details on the status of agriculture extension programmes**

| Programme activities                        | Unit   | Status in |         |         |         |         |         | Total   |          | Average |          |
|---|--------|-----------|---------|---------|---------|---------|---------|---------|----------|---------|----------|
|   |        | 1995/96   | 1996/97 | 1997/98 | 1998/99 | 1999/00 | 2000/01 | Pre-APP | Post-APP | Pre-APP | Post-APP |
| Pocket area delineated*                     | number | na        | na      | na      | 652     | 864     | 1 059   | na      | 2 575    | na      | 858      |
| Demonstration programmes                    | number | 19 568    | 33 614  | 38 216  | 34 447  | 38 975  | 40 436  | 53 182  | 152 074  | 26 591  | 38 019   |
| Mini kit and improved seed kit distribution | number | 81 636    | 101 938 | 138 403 | 130 387 | 156 339 | 193 468 | 183 574 | 618 597  | 91 787  | 154 649  |
| Farmer competition                          | number | 198       | 328     | Na      | 420     | 421     | 475     | 526     | 1 316    | 263     | 439      |
| Group Formation                             | number | 2 589     | 2 339   | 3 211   | 2 632   | 2 692   | 3 245   | 4 928   | 11 780   | 2 464   | 2 945    |
| Farmers' day/symposium                      | times  | 543       | 624     | 727     | 942     | Na      | 3 223   | 1 167   | 4 892    | 584     | 1 631    |
| Farmer tour                                 | times  | 127       | 232     |         | 448     | 442     | 652     | 359     | 1 542    | 180     | 514      |
| Agriculture fair                            | times  | 16        | 65      | Na      | 47      | 60      | 59      | 81      | 166      | 41      | 55       |
| Seed multiplication programme               | ha     | 696.6     | 1 095   | 1 653   | 280     | 4 249   | 13 15.8 | 1 792   | 3 249    | 896     | 812      |
| Soil testing services                       | number | 5 095     | Na      | 1 926   | 1 160   | 2 097   | 2 801   | 5 095   | 5 887    | 5 095   | 1 472    |
| Leader farmer training at regional level    | number | 2 534     | 5 236   | 4 962   | 3 803   | 4 012   | 4 401   | 7 770   | 13 166   | 3 885   | 3 292    |
| JT/JTA training                             | number | 894       | 1 164   | 1 100   | 1 112   | 1 044   | 1 050   | 2 058   | 3 262    | 1 029   | 816      |

Source: Compiled from DOA's annual reports.

**Appendix Table 21: Achievements of APP priority livestock development programmes (modified)**

| Priority programme areas            | 1995/96 | 1996/97 | Average pre-APP period | 1997/98 | 1998/99 | 1999/00 | 2000/01 | Average post-APP period | Annual growth (%) |
|-------------------------------------|---------|---------|------------------------|---------|---------|---------|---------|-------------------------|-------------------|
| <b>Breed improvement</b>            |         |         |                        |         |         |         |         |                         |                   |
| Artificial insemination             | 22 353  | 26 674  | 24 513.5               | 25 840  | 33 175  | 37 532  | 43 102  | 34 912                  | 9.24              |
| Improved animal distribution        | NA      | NA      | 1 705                  | 7 140   | 7 338   | 9 107   | 16 619  | 10 051                  | 55.82             |
| <b>Animal nutrition</b>             |         |         |                        |         |         |         |         |                         |                   |
| Seed production (mt)                | 42      | 32      | 37                     | 26      | 24      | 22      | 26      | 25                      | -9.79             |
| Sapling distribution (in 000)       | 490     | NA      | 490                    | 1 432   | 1 536   | 14 731  |         | 5 900                   | 86.28             |
| <b>Livestock health improvement</b> |         |         |                        |         |         |         |         |                         |                   |
| Vaccination (000 animals)*          | 5 753   | 5 115   | 5 434                  | 10 557  | 6 553   | NA      | NA      | 8 555                   | 12.01             |
| Livestock group formation           | 790     | 1 277   | 1 033.5                | 4 926   | 5 443   | 5 994   | NA      | 5 454                   | 51.57             |

Source: Compiled from the MOAC Annual Report.

\* Also includes animals treated.

**Appendix Table 22: Development expenditure in the livestock sector**

(Rs million)

| Programme area               | 1996/97 | 1997/98 | 1998/99 | 1999/2000 | 2000/01 | Average post-APP period | Annual growth (%) |
|------------------------------|---------|---------|---------|-----------|---------|-------------------------|-------------------|
| Extension and training       | 154.51  | 158.29  | 170.98  | 187.25    | 251.45  | 191.99                  | 12.95             |
| Input supply                 | 16.60   | 17.69   | 19.64   | 22.06     | 44.83   | 26.06                   | 28.21             |
| Veterinary services          | 23.32   | 25.86   | 28.63   | 34.78     | 70.03   | 39.83                   | 31.65             |
| Total livestock development* | 295.02  | 560.88  | 443.45  | 472.35    | 671.50  | 537.04                  | 22.83             |
| APP priority areas**         | 89.2    |         | 436.09  |           |         |                         | 121               |

\* Total development expenditure from Red Book.

\*\* CPRA estimate of APP proportions and post APP refers to the first two years only.

Source: Red Book, MOF.

**Appendix Table 23: Progress in the implementation of the citrus programmes in the post-APP period**

(Nos)

| Activities                                 | 1995/96 | 1996/97 | Pre-APP period | 1997/98 | 1998/99 | 1999/2000 | 2000/01 | Post-APP period | Annual growth (%) |
|--|---------|---------|----------------|---------|---------|-----------|---------|-----------------|-------------------|
| Districts covered                          | 34      | 34      | 34             | 34      | 46      | 43        | 47      | 43              | 8.43              |
| Commercial pockets selected                | 2       | 17      | 9.5            | 122     | 123     | 213       | 273     | 183             | 100.18            |
| Farmers' groups formed                     | 52      | 129     | 90.5           | 108     | 129     | 179       |         | 139             | -100.00           |
| Private nurseries established              | 11      | 8       | 9.5            | 5       | 23      | 21        | 21      | 18              | 27.29             |
| Production and distribution of saplings/yr | 277 682 | 323 784 | 300 733        | 287 138 | 410 906 | 679 019   | 52 560  | 357 406         | -36.53            |
| Model demo farm establishment              | 4       | 14      | 9              | 7       | 12      | 23        | 23      | 16              | 13.21             |

Source: From records of respective divisions/units of DOA, HMG/N.

**Appendix Table 24: Progress in the implementation of apple programmes**

(Nos)

| <b>Activities</b>                          | <b>1995/96</b> | <b>1996/97</b> | <b>Pre-APP<br/>period</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP<br/>period</b> | <b>Annual<br/>growth</b> |
|--|----------------|----------------|---------------------------|----------------|----------------|------------------|----------------|----------------------------|--------------------------|
| District covered                           | 11             | 11             | 11                        | 11             | 15             | 14               | 14             | 13.5                       | 6.21                     |
| Commercial pockets selected                | –              | 10             | 10                        | 10             | 2              | 8                | 8              | 7                          | -5.43                    |
| Farmers' groups formed                     | 8              | 31             | 19.5                      | 17             | 13             | 72               | 72             | 43.5                       | 23.45                    |
| Cellar and cold stores supported           | 24             | 45             | 34.5                      | –              | 42             | 30               | 30             | 34                         | -9.64                    |
| Private nurseries established              | 2              | 4              | 3                         | 2              | 2              | 12               | 12             | 7                          | 31.61                    |
| Production and distribution of saplings/yr | 33 075         | 71 151         | 52 113                    | 130 448        | 307 285        | 112 098          | 144 465        | 173 574                    | 19.37                    |
| Model demo farm establishment              | 6              | 12             | 9                         | 11             | 21             | 29               | 29             | 22.5                       | 24.68                    |

Source: From records of respective divisions/units of DOA, HMG/N.

**Appendix Table 25: Progress in the implementation of commercial vegetable development programmes in the post-APP period**

(Nos)

| Activities                         | 1995/96 | 1996/97 | Pre-APP period | 1997/98 | 1998/99 | 1999/2000 | 2000/01 | Pre-APP period | Annual growth (%) |
|------------------------------------|---------|---------|----------------|---------|---------|-----------|---------|----------------|-------------------|
| <b>Districts identified for:</b>   |         |         |                |         |         |           |         |                |                   |
| Commercial vegetable production    | 25      | 25      | 25             | 25      | 25      | 25        | 25      | 25             | 0.00              |
| Off-season vegetable production    | 14      | 14      | 14             | 14      | 14      | 14        | 14      | 14             | 0.00              |
| Vegetable seed production (summer) | 6       | 6       | 6              | 6       | 6       | 6         | 6       | 6              | 0.00              |
| Vegetable seed production (winter) | 15      | 15      | 15             | 15      | 15      | 15        | 15      | 15             | 0.00              |
| <b>Pocket areas delineated:</b>    |         |         |                |         |         |           |         |                |                   |
| Commercial vegetable production    | NA      | NA      | NA             | 70      | 80      | 135       | 163     | 112            | 32.54             |
| Vegetable seed production (winter) | NA      | NA      | NA             | 13      | 20      | 22        | 27      | 20.5           | 27.59             |
| <b>Farmers groups:</b>             |         |         |                |         |         |           |         |                |                   |
| Vegetable seed production (summer) | NA      | NA      | NA             | NA      | NA      | 40        | 40      | NA             | NA                |
| Vegetable seed production (winter) | NA      | NA      | NA             | NA      | NA      | 75        | 75      | NA             | NA                |
| <b>Quantity of seeds produced:</b> |         |         |                |         |         |           |         |                |                   |
| Nucleus and foundation seeds       | 13      | 19      | 16             | 10.9    | 12.4    | 15.16     | 15.86   | 13.58          | -4.42             |
| Certified seeds                    | 450     | 400     | 425            | 381     | 500     | 435       | 603.8   | 479.95         | 10.84             |

Source: Records of respective divisions/units of DOA, HMG/N.

**Appendix Table 26: Progress in the implementation of the sericulture programme**

| <b>Activities</b>                        | <b>1995/96</b> | <b>1996/97</b> | <b>Pre-APP<br/>period</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Pre-APP<br/>period</b> | <b>Annual<br/>growth<br/>(%)</b> |
|--|----------------|----------------|---------------------------|----------------|----------------|------------------|----------------|---------------------------|----------------------------------|
| Districts covered                        | 42             | 42             | 42                        | 42             | 42             | 21               | 12             | 29.25                     | -26.89                           |
| Sericulture centres/clusters established |                |                |                           |                |                | 4                | 4              | 4.00                      | 0.00                             |
| Farmer groups formed around clusters     | NA             | NA             | NA                        | NA             | NA             | 61               | 80             | 70.50                     | 31.15                            |
| Mulberry saplings distributed (000)      | 7 021          | 5 310          | 6 166                     | 3 300          | 3 539          | 4 246            | 3 700          | 3 696                     | -8.64                            |
| Silkworm eggs produced (boxes)           | 2 644          | 2 481          | 2 563                     | 1 703          | 2 015.8        | 2 110            | 6 220          | 3 012                     | 25.83                            |
| Silk cocoons produced (mt/year)          | 26.87          | 31.02          | 28.94                     | 17.95          | 20.33          | 25.71            | 31.4           | 23.85                     | 0.31                             |

Source: Records of respective divisions/units of DOA, HMG/N.



**Appendix Table 27: Investment in the high value crops sector**

(Rs. 000)

| <b>Investment area</b>                          | <b>1995/96</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> |
|---|----------------|----------------|----------------|----------------|------------------|
| Sericulture development programme               | 53 299         | 30 752         | 33 800         | 27 307         | 29 907           |
| Kirtipur horticulture development programme     | 9 145          | 8 672          | 8 375          | 9 294          |                  |
| Horticultural farms                             | 23 448         | 23 117         | 26 071         | 29 068         | 39 355           |
| Citrus products processing programme            | 1 659          | 1 368          | 1 439          | 1 219          | 2 222            |
| Hill fruit development programme                | 30 093         | 30 752         | 0              | 0              | 0                |
| Apple programmes products processing            | 0              | 0              | New            | 400            | 767              |
| Vegetable seed production centre                | 5 197          | 4 300          | 4 413          | 7 496          | 16 098           |
| Rural market development project                | 0              | 4 003          | 5 398          | 6 923          | 7 922            |
| Seed promotion project                          | 0              | 0              | 11 711         | 10 175         | 23 536           |
| Cardamom, ginger, potato development programmes | 2 748          | 2 663          | 3 137          | 1 341          | 6 248            |
| Seed development and control project            | 4 226          | 4 338          | 3 106          | 3 855          | 4 358            |
| Hill vegetable and seed project                 | 3 088          | 8 980          | 0              | 0              | 0                |
| Agricultural markets development project        | 4 392          | 3 495          | 3 761          | 11 079         | 11 370           |
| Small market development project                | 20 467         | 20 767         | 786            | 642            | 717              |
| Rural access development project                | 0              | 20 348         | 28 820         | 33 960         | 37 327           |
| <b>Total</b>                                    | <b>157 861</b> | <b>163 556</b> | <b>130 817</b> | <b>142 759</b> | <b>179 827</b>   |

Source: Red Book, MOF, 1995-2000.

**Appendix Table 28: Situation of community forestry, May 2000**

| <b>Development region / ecological belt</b> | <b>Potential CF area (Ha)</b> | <b>Area handed over (ha)</b> | <b>Area handed over (%)</b> | <b>FUG (no)</b> | <b>Total households (000)</b> | <b>Households with access to CF (000)</b> | <b>Benefited households (%)</b> |
|---|-------------------------------|------------------------------|-----------------------------|-----------------|-------------------------------|---|---------------------------------|
| EDR   | 677 655                       | 183 775                      | 27.12                       | 1 821           | 821                           | 204                                       | 24.85                           |
| CDR   | 544 351                       | 135 284                      | 24.85                       | 1 969           | 1 115                         | 229                                       | 20.54                           |
| WDR   | 905 229                       | 114 248                      | 12.62                       | 2 548           | 690                           | 284                                       | 41.16                           |
| MWDR  | 871 966                       | 131 946                      | 15.13                       | 1 341           | 416                           | 157                                       | 37.74                           |
| FEDR  | 522 477                       | 92 662                       | 17.74                       | 1 369           | 286                           | 134                                       | 46.85                           |
| Nepal                                       | 3 521 688                     | 657 915                      | 18.68                       | 9 048           | 3 328                         | 1 008                                     | 30.29                           |
| Mountains                                   | 1 409 748                     | 116 045                      | 8.23                        | 1 664           | 274                           | 161                                       | 58.76                           |
| Hills                                       | 1 894 395                     | 455 385                      | 24.04                       | 6 762           | 1 558                         | 709                                       | 45.51                           |
| <i>Terai</i>                                | 217 545                       | 86 484                       | 39.75                       | 622             | 1 496                         | 138                                       | 9.22                            |

Source: CBS, 1991 and Community and Private Forestry Division of MOFSC, 2000.

**Appendix Table 29: Annual development of community development programmes**

| Development region / ecological belt | 1995            |                           |                             | 1996            |                           |                             | 1997            |                           |                             | 1998            |                           |                             |
|--------------------------------------|-----------------|---------------------------|-----------------------------|-----------------|---------------------------|-----------------------------|-----------------|---------------------------|-----------------------------|-----------------|---------------------------|-----------------------------|
|                                      | GUG formed (no) | Area handed over (000 ha) | House-holds benefited (000) | GUG formed (no) | Area handed over (000 ha) | House-holds benefited (000) | GUG formed (no) | Area handed over (000 ha) | House-holds benefited (000) | GUG formed (no) | Area handed over (000 ha) | House-holds benefited (000) |
| EDR                                  | 350             | 38.01                     | 38.88                       | 263             | 26.94                     | 29.58                       | 172             | 20.71                     | 25.37                       | 51              | 10.50                     | 7.20                        |
| CDR                                  | 378             | 34.17                     | 43.16                       | 301             | 21.32                     | 33.15                       | 227             | 20.04                     | 24.72                       | 184             | 10.02                     | 18.92                       |
| WDR                                  | 403             | 16.68                     | 40.83                       | 402             | 18.64                     | 41.28                       | 284             | 15.68                     | 30.31                       | 196             | 9.92                      | 23.11                       |
| MWDR                                 | 287             | 29.98                     | 34.28                       | 203             | 17.92                     | 22.84                       | 207             | 26.03                     | 25.61                       | 139             | 15.35                     | 16.60                       |
| FEDR                                 | 259             | 16.43                     | 23.35                       | 175             | 15.69                     | 17.42                       | 211             | 14.74                     | 24.73                       | 101             | 8.37                      | 10.94                       |
| Nepal                                | 1 677           | 135.30                    | 180.50                      | 1 344           | 100.51                    | 144.27                      | 1 101           | 97.19                     | 130.73                      | 671             | 54.16                     | 76.78                       |
| Mountains                            | 351             | 25.30                     | 29.79                       | 211             | 13.15                     | 18.33                       | 222             | 18.62                     | 22.71                       | 106             | 5.60                      | 11.06                       |
| Hills                                | 1 237           | 92.64                     | 130.06                      | 1 018           | 69.56                     | 103.38                      | 736             | 54.12                     | 78.24                       | 484             | 37.27                     | 51.48                       |
| <i>Terai</i>                         | 89              | 17.36                     | 20.65                       | 115             | 17.80                     | 22.57                       | 143             | 24.45                     | 29.77                       | 81              | 11.29                     | 14.24                       |

Source: Community and Private Forestry Division of the MOFSC, 2000.

**Appendix Table 30: Trends in the evolution of private forestry**

(area in ha)

| Development region / ecological belt | Situation (1994-95) |          | Average annual situation |        |         |        | Average annual change (%) |       | Situation (1998-99) |       |
|--------------------------------------|---------------------|----------|--------------------------|--------|---------|--------|---------------------------|-------|---------------------|-------|
|                                      |                     |          | 1995-96                  |        | 1997-99 |        |                           |       |                     |       |
|                                      | Number              | Area     | Number                   | Area   | Number  | Area   | Number                    | Area  | Number              | Area  |
| EDR                                  | 738                 | 821.70   | 306                      | 191.95 | 117     | 110.82 | -38.3                     | -24.0 | 1 160               | 1 125 |
| CDR                                  | 470                 | 348.40   | 64                       | 56.71  | 31      | 40.41  | -30.1                     | -15.6 | 564                 | 446   |
| WDR                                  | 249                 | 189.10   | 16                       | 19.95  | 26      | 22.29  | 27.5                      | 5.7   | 291                 | 231   |
| MWDR                                 | 100                 | 74.10    | 10                       | 4.81   | 13      | 4.29   | 14.0                      | -5.6  | 123                 | 83    |
| FEDR                                 | 20                  | 17.80    | 6                        | 8.35   | 5       | 3.10   | -13.4                     | -39.1 | 31                  | 29    |
| Nepal                                | 1 577               | 1 451.10 | 402                      | 281.80 | 191     | 180.91 | -31.0                     | -19.9 | 2 169               | 1 914 |
| Mountains                            | 48                  | 31.20    | 3                        | 2.05   | 1       | 1.27   | -59.2                     | -21.4 | 52                  | 35    |
| Hills                                | 344                 | 576.90   | 30                       | 27.44  | 25      | 23.19  | -9.6                      | -8.1  | 398                 | 628   |
| <i>Terai</i>                         | 1 185               | 842.70   | 369                      | 252.33 | 166     | 156.46 | -32.9                     | -21.3 | 1 719               | 1 252 |

Source: Community and Private Forestry Division of MOFSC, 2000.

**Appendix Table 31: Performance of leasehold forestry**

(area in ha)

| Districts     | Cumulative (1994) |              | Average annual situation |              |            |                | Change in post-APP over pre-APP period (%) |              | Cumulative (1994) |               |
|---------------|-------------------|--------------|--------------------------|--------------|------------|----------------|--|--------------|-------------------|---------------|
|               |                   |              | 1995-96                  |              | 1997-9     |                | Number                                     | Area         |                   |               |
|               | Number            | Area         | Number                   | Area         | Number     | Area           |  |              | Number            | Area          |
| Kavre         | 34                | 220.6        | 28                       | 124.2        | 38         | 147.0          | 16.8                                       | 8.8          | 164               | 763.0         |
| Makwanpur     | 40                | 205.2        | 36                       | 148.3        | 55         | 211.0          | 23.04                                      | 19.3         | 221               | 923.9         |
| Sindhupalchok | 40                | 188.0        | 31                       | 83.4         | 33         | 136.7          | 3.18                                       | 28.1         | 168               | 628.3         |
| Ramechhap     | 43                | 271.4        | 35                       | 197.6        | 25         | 127.6          | -15.48                                     | -19.7        | 163               | 921.7         |
| Dhading       | 0                 | 0            | 32                       | 148.7        | 53         | 154.8          | 29.10                                      | 2.0          | 168               | 607.0         |
| Dolakha       | 0                 | 0            | 8                        | 33.9         | 0          | 0              | -100.00                                    | -100.0       | 15                | 67.9          |
| Sindhuli      | 0                 | 0            | 13                       | 52.6         | 50         | 269.0          | 100.00                                     | 126.3        | 125               | 643.2         |
| Chitwan       | 0                 | 0            | 13                       | 43.1         | 47         | 188.2          | 90.14                                      | 109.0        | 120               | 462.6         |
| Tanahun       | 0                 | 0            | 13                       | 44.2         | 61         | 189.6          | 120.91                                     | 107.2        | 147               | 467.4         |
| Gorkha        | 0                 | 0            | 0                        | 0            | 8          | 34.2           |  | 0.00         | 15                | 68.3          |
| <b>Total</b>  | <b>157</b>        | <b>885.2</b> | <b>207</b>               | <b>875.9</b> | <b>368</b> | <b>1 458.1</b> | <b>33.49</b>                               | <b>29.02</b> | <b>1306</b>       | <b>5553.3</b> |

Annual Report, HLHFDP, July 2000.

**Appendix Table 32: Implementation status of soil and watershed management programmes**

| Programme areas                              | Average situation |         | Annual growth rate (%) |
|--|-------------------|---------|------------------------|
|  | 1995-96           | 1997-98 |                        |
| Districts covered (no)                       | 57                | 61      | 3.51                   |
| <b>Land use development (no)</b>             |                   |         |                        |
| Preparation of subwatershed plan             | 17                | 38      | 61.76                  |
| Preparation of forest work plan              | 110               | 111     | 0.45                   |
| <b>Land productivity preservation (no)</b>   |                   |         |                        |
| Crop land protection                         | 284.5             | 226.5   | -10.19                 |
| Horticulture                                 | 38.5              | 28.0    | -13.64                 |
| Fodder/forage/grass plantations              | 57.5              | 17.5    | -34.78                 |
| Degraded land reclamation                    | 620.0             | 405.5   | -17.30                 |
| <b>Community soil conservation (no)</b>      |                   |         |                        |
| Water source conservation                    | 90                | 99      | 5.00                   |
| Nursery establishment                        | 29.5              | 25.5    | -6.78                  |
| Training on conservation                     | 4 687.0           | 4 088   | -6.39                  |
| <b>Natural disaster preservation (no)</b>    |                   |         |                        |
| Gully protection                             | 64.5              | 61      | -2.71                  |
| Landslide prevention                         | 35                | 53.5    | 26.43                  |
| <b>Development infrastructure protection</b> |                   |         |                        |
| Riverbank protection (km)                    | 7.7               | 10.15   | 15.91                  |
| Roadside protection (km)                     | 2.77              | 2.0     | -12.26                 |
| Trail protection (km)                        | 24.0              | 31.8    | 16.20                  |
| Irrigation canal protection (km)             | 65.8              | 59.0    | -5.19                  |

Source: Department of Soil Conservation and Watershed Management, Annual Reports.

**Appendix Table 33: Change in area, production and yield of APP crops**

|                            | <b>Paddy</b> | <b>Maize</b> | <b>Wheat</b> | <b>Cereal</b> | <b>Potato</b> |
|----------------------------|--------------|--------------|--------------|---------------|---------------|
| <b>Area (000 ha)</b>       |              |              |              |               |               |
| 1995/96                    | 1 497        | 792          | 654          | 2 942         | 106           |
| 1996/97                    | 1 511        | 794          | 667          | 2 972         | 111           |
| Average                    | 1 504        | 793          | 660          | 2 957         | 108           |
| 1997/98                    | 1 506        | 799          | 640          | 2 945         | 116           |
| 1998/99                    | 1 514        | 802          | 641          | 2 957         | 118           |
| 1999/00                    | 1 551        | 819          | 660          | 3 030         | 123           |
| 2000/01                    | 1 529        | 825          | 641          | 2 995         | 123           |
| Average                    | 1 525        | 811          | 645          | 2 982         | 120           |
| <b>Annual growth (%)</b>   |              |              |              |               |               |
| Pre-APP                    | 0.96         | 0.26         | 2.08         | 1.02          | 4.58          |
| Post-APP                   | 0.30         | 0.96         | -0.99        | 0.19          | 2.61          |
| <b>Production (000 mt)</b> |              |              |              |               |               |
| 1995/96                    | 3 579        | 1 331        | 1 013        | 5 923         | 898           |
| 1996/97                    | 3 711        | 1 317        | 1 072        | 6 099         | 997           |
| Average                    | 3 645        | 1 324        | 1 042        | 6 011         | 948           |
| 1997/98                    | 3 641        | 1 367        | 1 030        | 6 039         | 972           |
| 1998/99                    | 3 710        | 1 346        | 1 086        | 6 142         | 1091          |
| 1999/00                    | 4 030        | 1 445        | 1 184        | 6 659         | 1183          |
| 2000/01                    | 4 216        | 1 484        | 1 158        | 6 858         | 1314          |
| Average                    | 3 899        | 1 411        | 1 115        | 6 425         | 1140          |
| <b>Annual growth (%)</b>   |              |              |              |               |               |
| Pre-APP                    | 3.68         | -1.07        | 5.83         | 2.98          | 11.03         |
| Post-APP                   | 3.25         | 3.03         | 1.95         | 2.98          | 7.14          |
| <b>Yield (mt/ha)</b>       |              |              |              |               |               |
| 1995/96                    | 2.39         | 1.68         | 1.55         | 2.01          | 8.48          |
| 1996/97                    | 2.46         | 1.66         | 1.61         | 2.05          | 9.00          |
| Average                    | 2.42         | 1.67         | 1.58         | 2.03          | 8.74          |
| 1997/98                    | 2.42         | 1.71         | 1.61         | 2.05          | 8.36          |
| 1998/99                    | 2.45         | 1.68         | 1.70         | 2.08          | 9.25          |
| 1999/00                    | 2.60         | 1.76         | 1.79         | 2.20          | 9.64          |
| 2000/01                    | 2.76         | 1.80         | 1.81         | 2.29          | 10.69         |
| Average                    | 2.56         | 1.74         | 1.73         | 2.15          | 9.50          |
| <b>Annual growth (%)</b>   |              |              |              |               |               |
| Pre-APP                    | 2.69         | -1.32        | 3.67         | 1.94          | 6.17          |
| Post-APP                   | 2.94         | 2.06         | 2.97         | 2.78          | 4.41          |

Note: Pre-APP implies growth in 1996/97 over 1995/96 and post-APP implies growth in 2000/01 over 1996/97.

Source: SINA, MOAC (1994/95 to 2000/01)

**Appendix Table 34: Change in area, production and yield of non-APP crops**

|                            | <b>Millet</b> | <b>Barley</b> | <b>Pulses</b> | <b>Oilseed</b> | <b>Sugarcane</b> |
|----------------------------|---------------|---------------|---------------|----------------|------------------|
| <b>Area (000 ha)</b>       |               |               |               |                |                  |
| 1995/96                    | 260           | 39            | 312           | 185            | 45               |
| 1996/97                    | 260           | 35            | 312           | 182            | 46               |
| Average                    | 260           | 37            | 312           | 184            | 46               |
| 1997/98                    | 262           | 36            | 311           | 179            | 49               |
| 1998/99                    | 264           | 32            | 308           | 190            | 54               |
| 1999/00                    | 263           | 28            | 305           | 194            | 58               |
| 2000/01                    | 260           | 28            | 304           | 188            | 50               |
| Average                    | 262           | 31            | 307           | 188            | 53               |
| <b>Annual growth (%)</b>   |               |               |               |                |                  |
| Pre-APP                    | -0.06         | -10.46        | 0.20          | -1.56          | 3.44             |
| Post-APP                   | -0.01         | -5.45         | -0.65         | 0.86           | 2.12             |
| <b>Production (000 mt)</b> |               |               |               |                |                  |
| 1995/96                    | 282           | 41            | 215           | 116            | 1569             |
| 1996/97                    | 289           | 37            | 223           | 119            | 1629             |
| Average                    | 286           | 39            | 219           | 118            | 1599             |
| 1997/98                    | 285           | 37            | 211           | 110            | 1763             |
| 1998/99                    | 291           | 32            | 229           | 120            | 1972             |
| 1999/00                    | 295           | 31            | 237           | 123            | 2103             |
| 2000/01                    | 283           | 30            | 242           | 132            | 1770             |
| Average                    | 289           | 33            | 230           | 121            | 1902             |
| <b>Annual growth (%)</b>   |               |               |               |                |                  |
| Pre-APP                    | 2.49          | -11.25        | 3.79          | 2.81           | 3.86             |
| Post-APP                   | -0.58         | -4.52         | 2.11          | 2.57           | 2.09             |
| <b>Yield (mt/ha)</b>       |               |               |               |                |                  |
| 1995/96                    | 1.09          | 1.05          | 0.69          | 0.63           | 35.00            |
| 1996/97                    | 1.11          | 1.04          | 0.71          | 0.65           | 35.14            |
| Average                    | 1.10          | 1.04          | 0.70          | 0.64           | 35.07            |
| 1997/98                    | 1.09          | 1.04          | 0.68          | 0.62           | 36.12            |
| 1998/99                    | 1.10          | 1.00          | 0.74          | 0.63           | 36.58            |
| 1999/00                    | 1.12          | 1.09          | 0.78          | 0.63           | 36.19            |
| 2000/01                    | 1.09          | 1.08          | 0.80          | 0.70           | 35.11            |
| Average                    | 1.10          | 1.05          | 0.75          | 0.64           | 36.02            |
| <b>Annual growth (%)</b>   |               |               |               |                |                  |
| Pre-APP                    | 2.55          | -0.88         | 3.59          | 4.44           | 0.41             |
| Post-APP                   | -0.57         | 0.98          | 2.78          | 1.69           | -0.02            |

Note: Pre-APP implies growth in 1996/97 over 1995/96 and post-APP implies growth in 2000/01 over 1996/97.

Source: SINA, MOAC (1994/95 to 2000/01).



**Appendix Table 35: Changes in productive area and production of fruit, vegetables and other HYV Commodities**

| Crops                       | Pre-APP   | Post-APP  |           |           |           | Average   | Growth (%) |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
|                             | 1996/97   | 1997/98   | 1998/99   | 1999/00   | 2000/01   | 1997-2000 |            |
| <b>Productive area (ha)</b> |           |           |           |           |           |           |            |
| Citrus                      | 9 330     | 10 034    | 10 592    | 11 277    | 11 892    | 10 949    | 6.25       |
| Apple                       | 2 976     | 3 083     | 3 205     | 3 278     | 3 338     | 3 226     | 2.91       |
| Vegetables                  | 146 503   | 149 979   | 140 177   | 149 030   | 157 162   | 149 087   | 1.77       |
| <b>Production (mt)</b>      |           |           |           |           |           |           |            |
| Citrus                      | 92 994    | 100 352   | 107 250   | 115 067   | 121 665   | 111 084   | 6.95       |
| Apple                       | 28 595    | 29 345    | 30 464    | 32 497    | 31 800    | 31 027    | 2.69       |
| Vegetables                  | 1 357 435 | 1 449 475 | 1 342 567 | 1 489 665 | 1 652 979 | 1 483 672 | 5.05       |
| Honey                       | 60        | 100       | 129       | 150       | 155       | 134       | 26.78      |
| Silk                        | 24.5      | 17.95     | 20.33     | 25.71     | 31.4      | 24        | 6.40       |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 36: Production achievements of other horticulture crops**

|                    | Pre-APP | Post-APP |         |         |         | Average situation | Annual growth (%) |          |
|--------------------|---------|----------|---------|---------|---------|-------------------|-------------------|----------|
|                    | 1995-96 | 1997/98  | 1998/99 | 1999/00 | 2000/01 | 1997-2000         | Achieved          | Targeted |
| Other fruits ( mt) | 361 000 | 314 815  | 348 763 | 332 267 | 365 661 | 340 376.5         | 0.32              | 2.35     |
| Tea (mt)           | 2 814   | 3 021    | 4 493   | 5 085   | 6 638   | 4 809.25          | 23.93             | 7.80     |
| Coffee (mt)        | 33      | 55.9     | 48      | 72.4    | 88.7    | 66.25             | 28.04             | 23.20    |
| Cardamom (mt)      | NA      | Na       | 4 335   | 6 530   | 6 080   | 5 648.33          | 18.43             | 1.10     |
| Spices (mt)        | NA      | Na       | 103 829 | 103 916 | 118 433 | 108 726.00        | 6.80              | 0.59     |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 37: Changes in milk, meat and egg production status in post-APP period**

| Livestock products | Pre-APP period | Post-APP |         |         |           | Average post-APP period | Annual growth (%) | Envisaged growth (%) |         |
|--------------------|----------------|----------|---------|---------|-----------|-------------------------|-------------------|----------------------|---------|
|                    |                | 1996/97  | 1997/98 | 1998/99 | 1999/2000 |                         |                   |                      | 2000/01 |
| Milk ( 000 mt)     | 987            | 1 012    | 1 048   | 1 073   | 1 097     | 1 124                   | 1086              | 2.66                 | 5.56    |
| Meat ( 000 mt)     | 168            | 174      | 181     | 185     | 189       | 194                     | 187               | 2.75                 | 6.22    |
| Eggs (million)     | 410            | 421      | 441     | 461     | 481       | 507                     | 472               | 4.74                 | 7.22    |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 38: Growth in wool and fish production (pounds)**

| Livestock products | Pre-APP period | Post-APP |         |         |         |         | Average post-APP period | Annual growth (%) |           |
|--------------------|----------------|----------|---------|---------|---------|---------|-------------------------|-------------------|-----------|
|                    |                | 1996/97  | 1997/98 | 1998/99 | 1999/00 | 2000/01 |                         | Achieved          | Envisaged |
| Fish ( mt)         | 10 879         | 11 727   | 12 373  | 12 400  | 14 000  | 15 320  | 13 523                  | 6.91              | 8.56      |
| Wool (mt)          | 621            | 624      | 623     | 616     | 615     | 614     | 617                     | -0.40             | NA        |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 39: Changes in area, production and yield of paddy  
by development region and ecological belt**

| <b>Development region/Ecological belt</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP</b> | <b>Growth rate (%)</b> |
|---|----------------|----------------|----------------|------------------|----------------|-----------------|------------------------|
| <b>Area (000 ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 490            | 492            | 493            | 505              | 505            | 499             | 0.75                   |
| CDR                                       | 441            | 446            | 435            | 454              | 418            | 438             | -1.34                  |
| WDR                                       | 297            | 282            | 300            | 302              | 310            | 298             | 1.00                   |
| MWDR                                      | 149            | 151            | 152            | 152              | 158            | 153             | 1.42                   |
| FWDR                                      | 133            | 134            | 135            | 137              | 139            | 136             | 1.06                   |
| Mountain                                  | 43             | 43             | 44             | 46               | 53             | 47              | 5.53                   |
| Hill                                      | 366            | 373            | 373            | 377              | 379            | 376             | 0.85                   |
| <i>Terai</i>                              | 1 102          | 1 090          | 1 097          | 1 127            | 1 098          | 1 103           | -0.11                  |
| Nepal                                     | 1 511          | 1 506          | 1 514          | 1 551            | 1 529          | 1 525           | 0.30                   |
| <b>Production (mt)</b>                    |                |                |                |                  |                |                 |                        |
| EDR                                       | 1 198          | 1 188          | 1 250          | 1 338            | 1 393          | 1 292           | 3.84                   |
| CDR                                       | 1 115          | 1 147          | 1 026          | 1 227            | 1 285          | 1 171           | 3.62                   |
| WDR                                       | 724            | 598            | 704            | 739              | 799            | 710             | 2.49                   |
| MWDR                                      | 356            | 377            | 391            | 389              | 414            | 393             | 3.84                   |
| FWDR                                      | 317            | 331            | 338            | 337              | 325            | 333             | 0.62                   |
| Mountain                                  | 81             | 83             | 85             | 88               | 104            | 90              | 6.23                   |
| Hill                                      | 826            | 863            | 899            | 907              | 931            | 900             | 3.06                   |
| <i>Terai</i>                              | 2 804          | 2 695          | 2 725          | 3 035            | 3 181          | 2 909           | 3.21                   |
| Nepal                                     | 3 711          | 3 641          | 3 710          | 4 030            | 4 216          | 3 899           | 3.25                   |
| <b>Yield (mt/ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 2.44           | 2.41           | 2.54           | 2.65             | 2.76           | 2.59            | 3.07                   |
| CDR                                       | 2.53           | 2.57           | 2.36           | 2.70             | 3.07           | 2.67            | 5.02                   |
| WDR                                       | 2.43           | 2.12           | 2.35           | 2.44             | 2.58           | 2.38            | 1.47                   |
| MWDR                                      | 2.39           | 2.49           | 2.58           | 2.56             | 2.63           | 2.56            | 2.38                   |
| FWDR                                      | 2.38           | 2.46           | 2.51           | 2.45             | 2.34           | 2.44            | -0.44                  |
| Mountain                                  | 1.91           | 1.90           | 1.94           | 1.90             | 1.96           | 1.93            | 0.66                   |
| Hill                                      | 2.25           | 2.31           | 2.41           | 2.40             | 2.46           | 2.40            | 2.19                   |
| <i>Terai</i>                              | 2.54           | 2.47           | 2.48           | 2.69             | 2.90           | 2.64            | 3.32                   |
| Nepal                                     | 2.46           | 2.42           | 2.45           | 2.60             | 2.76           | 2.56            | 2.94                   |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 40: Changes in area, production and yield of maize  
by development region and ecological belt**

| <b>Development region/Ecological belt</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP</b> | <b>Growth rate (%)</b> |
|---|----------------|----------------|----------------|------------------|----------------|-----------------|------------------------|
| <b>Area (000 ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 193            | 194            | 196            | 205              | 219            | 204             | 3.21                   |
| CDR                                       | 219            | 220            | 220            | 217              | 209            | 217             | -1.18                  |
| WDR                                       | 195            | 197            | 198            | 199              | 197            | 198             | 0.22                   |
| MWDR                                      | 137            | 137            | 137            | 148              | 151            | 143             | 2.55                   |
| FWDR                                      | 51             | 51             | 51             | 49               | 49             | 50              | -0.64                  |
| Mountain                                  | 62             | 64             | 64             | 75               | 85             | 72              | 8.14                   |
| Hill                                      | 556            | 560            | 561            | 572              | 572            | 566             | 0.68                   |
| <i>Terai</i>                              | 175            | 176            | 177            | 173              | 168            | 173             | -1.07                  |
| Nepal                                     | 794            | 799            | 802            | 819              | 825            | 811             | 0.96                   |
| <b>Production (mt)</b>                    |                |                |                |                  |                |                 |                        |
| EDR                                       | 310            | 327            | 329            | 358              | 386            | 350             | 5.59                   |
| CDR                                       | 396            | 401            | 401            | 415              | 418            | 409             | 1.40                   |
| WDR                                       | 302            | 320            | 314            | 337              | 348            | 330             | 3.56                   |
| MWDR                                      | 218            | 233            | 216            | 253              | 261            | 241             | 4.60                   |
| FWDR                                      | 91             | 87             | 87             | 82               | 72             | 82              | -5.75                  |
| Mountain                                  | 96             | 100            | 99             | 118              | 136            | 113             | 9.02                   |
| Hill                                      | 885            | 929            | 920            | 998              | 1025           | 968             | 3.73                   |
| <i>Terai</i>                              | 335            | 338            | 328            | 329              | 323            | 330             | -0.92                  |
| Nepal                                     | 1 317          | 1 367          | 1 346          | 1 445            | 1 484          | 1 411           | 3.03                   |
| <b>Yield (mt/ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 1.61           | 1.68           | 1.68           | 1.74             | 1.76           | 1.72            | 2.30                   |
| CDR                                       | 1.81           | 1.82           | 1.82           | 1.91             | 2.00           | 1.89            | 2.62                   |
| WDR                                       | 1.55           | 1.62           | 1.58           | 1.69             | 1.77           | 1.67            | 3.33                   |
| MWDR                                      | 1.60           | 1.70           | 1.58           | 1.72             | 1.73           | 1.68            | 1.99                   |
| FWDR                                      | 1.80           | 1.72           | 1.71           | 1.66             | 1.45           | 1.64            | -5.14                  |
| Mountain                                  | 1.55           | 1.57           | 1.54           | 1.58             | 1.61           | 1.58            | 0.81                   |
| Hill                                      | 1.59           | 1.66           | 1.64           | 1.75             | 1.79           | 1.71            | 3.02                   |
| <i>Terai</i>                              | 1.91           | 1.92           | 1.85           | 1.91             | 1.92           | 1.90            | 0.15                   |
| Nepal                                     | 1.66           | 1.71           | 1.68           | 1.76             | 1.80           | 1.74            | 2.06                   |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 41: Changes in area, production and yield of wheat  
by development region and ecological belt**

| <b>Development region/Ecological belt</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP</b> | <b>Growth rate (%)</b> |
|---|----------------|----------------|----------------|------------------|----------------|-----------------|------------------------|
| <b>Area (000 ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 121            | 116            | 111            | 118              | 108            | 113             | -2.88                  |
| CDR                                       | 207            | 202            | 192            | 198              | 198            | 198             | -1.04                  |
| WDR                                       | 122            | 117            | 130            | 130              | 124            | 125             | 0.44                   |
| MWDR                                      | 122            | 116            | 120            | 125              | 122            | 120             | 0.00                   |
| FWDR                                      | 95             | 90             | 89             | 89               | 89             | 89              | -1.72                  |
| Mountain                                  | 45             | 46             | 46             | 47               | 48             | 47              | 2.05                   |
| Hill                                      | 238            | 239            | 238            | 242              | 242            | 240             | 0.38                   |
| <i>Terai</i>                              | 385            | 355            | 357            | 371              | 351            | 359             | -2.25                  |
| Nepal                                     | 667            | 640            | 641            | 660              | 641            | 645             | -0.99                  |
| <b>Production (mt)</b>                    |                |                |                |                  |                |                 |                        |
| EDR                                       | 207            | 199            | 176            | 210              | 207            | 198             | 0.01                   |
| CDR                                       | 355            | 351            | 340            | 378              | 375            | 361             | 1.40                   |
| WDR                                       | 197            | 178            | 228            | 232              | 218            | 214             | 2.54                   |
| MWDR                                      | 182            | 176            | 190            | 209              | 203            | 194             | 2.82                   |
| FWDR                                      | 131            | 127            | 153            | 154              | 155            | 147             | 4.18                   |
| Mountain                                  | 57             | 62             | 57             | 65               | 69             | 63              | 5.07                   |
| Hill                                      | 361            | 373            | 361            | 383              | 392            | 377             | 2.13                   |
| Terai                                     | 655            | 595            | 668            | 735              | 696            | 674             | 1.56                   |
| Nepal                                     | 1 072          | 1 030          | 1 086          | 1 184            | 1 158          | 1 115           | 1.95                   |
| <b>Yield (mt/ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 1.71           | 1.72           | 1.59           | 1.78             | 1.92           | 1.75            | 2.97                   |
| CDR                                       | 1.71           | 1.74           | 1.78           | 1.91             | 1.89           | 1.83            | 2.47                   |
| WDR                                       | 1.61           | 1.53           | 1.76           | 1.78             | 1.75           | 1.71            | 2.09                   |
| MWDR                                      | 1.49           | 1.52           | 1.58           | 1.67             | 1.67           | 1.61            | 2.82                   |
| FWDR                                      | 1.38           | 1.41           | 1.72           | 1.74             | 1.75           | 1.65            | 6.01                   |
| Mountain                                  | 1.27           | 1.35           | 1.25           | 1.38             | 1.43           | 1.35            | 2.96                   |
| Hill                                      | 1.52           | 1.56           | 1.52           | 1.59             | 1.62           | 1.57            | 1.74                   |
| <i>Terai</i>                              | 1.70           | 1.68           | 1.87           | 1.98             | 1.98           | 1.88            | 3.90                   |
| Nepal                                     | 1.61           | 1.61           | 1.70           | 1.79             | 1.81           | 1.73            | 2.97                   |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 42: Changes in area, production and yield of potato  
by development region and ecological belt**

| <b>Development region/Ecological belt</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP</b> | <b>Growth rate (%)</b> |
|---|----------------|----------------|----------------|------------------|----------------|-----------------|------------------------|
| <b>Area (000 ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 40             | 42             | 45             | 44               | 42             | 43              | 1.28                   |
| CDR                                       | 37             | 38             | 38             | 41               | 41             | 40              | 2.52                   |
| WDR                                       | 14             | 15             | 16             | 16               | 17             | 16              | 5.62                   |
| MWDR                                      | 14             | 15             | 13             | 15               | 15             | 14              | 1.16                   |
| FWDR                                      | 6              | 6              | 6              | 7                | 8              | 7               | 7.88                   |
| Mountain                                  | 22             | 23             | 23             | 26               | 23             | 23              | 0.61                   |
| Hill                                      | 56             | 55             | 56             | 55               | 58             | 56              | 0.73                   |
| <i>Terai</i>                              | 36             | 38             | 39             | 42               | 43             | 40              | 4.34                   |
| Nepal                                     | 111            | 116            | 118            | 123              | 123            | 120             | 2.61                   |
| <b>Production (mt)</b>                    |                |                |                |                  |                |                 |                        |
| EDR                                       | 345            | 347            | 385            | 401              | 443            | 394             | 6.45                   |
| CDR                                       | 362            | 364            | 411            | 456              | 508            | 435             | 8.86                   |
| WDR                                       | 112            | 114            | 132            | 136              | 154            | 134             | 8.30                   |
| MWDR                                      | 136            | 113            | 118            | 133              | 145            | 127             | 1.76                   |
| FWDR                                      | 43             | 34             | 46             | 56               | 63             | 50              | 10.17                  |
| Mountain                                  | 182            | 192            | 177            | 208              | 206            | 196             | 3.16                   |
| Hill                                      | 460            | 502            | 521            | 526              | 568            | 529             | 5.39                   |
| <i>Terai</i>                              | 356            | 278            | 393            | 448              | 541            | 415             | 11.03                  |
| Nepal                                     | 997            | 972            | 1 091          | 1 183            | 1 314          | 1140            | 7.14                   |
| <b>Yield (mt/ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 8.58           | 8.26           | 8.65           | 9.18             | 10.47          | 9.14            | 5.11                   |
| CDR                                       | 9.83           | 9.48           | 10.67          | 11.15            | 12.50          | 10.97           | 6.19                   |
| WDR                                       | 8.10           | 7.66           | 8.15           | 8.35             | 8.96           | 8.30            | 2.55                   |
| MWDR                                      | 9.45           | 7.49           | 9.13           | 9.11             | 9.67           | 8.84            | 0.59                   |
| FWDR                                      | 7.58           | 5.72           | 7.68           | 7.87             | 8.24           | 7.46            | 2.12                   |
| Mountain                                  | 8.25           | 8.40           | 7.77           | 8.13             | 9.12           | 8.35            | 2.53                   |
| Hill                                      | 8.21           | 9.07           | 9.27           | 9.56             | 9.84           | 9.44            | 4.62                   |
| <i>Terai</i>                              | 9.88           | 7.29           | 10.07          | 10.67            | 12.68          | 10.26           | 6.42                   |
| Nepal                                     | 9.00           | 8.36           | 9.25           | 9.64             | 10.69          | 9.50            | 4.41                   |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 43: Changes in area, production and yield of citrus  
by development region and ecological belt**

| <b>Development region/Ecological belt</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP</b> | <b>Growth rate (%)</b> |
|---|----------------|----------------|----------------|------------------|----------------|-----------------|------------------------|
| <b>Area (000 ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 3.6            | 3.8            | 4.1            | 4.3              | 4.5            | 4.2             | 5.83                   |
| CDR                                       | 2.5            | 2.6            | 2.8            | 2.9              | 3.1            | 2.8             | 5.25                   |
| WDR                                       | 4.3            | 4.7            | 4.9            | 5.2              | 5.5            | 5.1             | 6.59                   |
| MWDR                                      | 1.7            | 1.8            | 1.9            | 2.0              | 2.2            | 2.0             | 6.46                   |
| FWDR                                      | 0.9            | 0.9            | 1.0            | 1.1              | 1.1            | 1.0             | 6.89                   |
| Mountain                                  | 1.1            | 1.2            | 1.3            | 1.4              | 1.5            | 1.4             | 8.05                   |
| Hill                                      | 11.8           | 12.6           | 13.3           | 14.0             | 14.8           | 13.7            | 5.89                   |
| <i>Terai</i>                              | 0.1            | 0.1            | 0.1            | 0.1              | 0.1            | 0.1             | 14.64                  |
| Nepal                                     | 12.9           | 13.9           | 14.7           | 15.5             | 16.4           | 15.1            | 6.13                   |
| <b>Production (mt)</b>                    |                |                |                |                  |                |                 |                        |
| EDR                                       | 36.5           | 39.2           | 42.7           | 44.7             | 47.3           | 43.5            | 6.72                   |
| CDR                                       | 24.7           | 25.9           | 27.5           | 30.2             | 31.9           | 28.9            | 6.64                   |
| WDR                                       | 45.4           | 49.0           | 51.7           | 54.6             | 57.7           | 53.3            | 6.15                   |
| MWDR                                      | 15.5           | 16.6           | 18.2           | 19.2             | 20.2           | 18.5            | 6.77                   |
| FWDR                                      | 7.9            | 8.6            | 9.3            | 10.1             | 10.7           | 9.7             | 7.74                   |
| Mountain                                  | 9.4            | 10.5           | 12.0           | 13.1             | 13.8           | 12.3            | 10.20                  |
| Hill                                      | 120.2          | 128.1          | 136.6          | 144.8            | 153.1          | 140.7           | 6.24                   |
| Terai                                     | 0.6            | 0.7            | 0.8            | 1.0              | 0.9            | 0.9             | 13.66                  |
| Nepal                                     | 130.1          | 139.3          | 149.4          | 158.8            | 167.8          | 153.8           | 6.58                   |
| <b>Yield (mt/ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 10.12          | 10.21          | 10.44          | 10.44            | 10.47          | 10.4            | 0.84                   |
| CDR                                       | 9.87           | 9.89           | 9.95           | 10.38            | 10.40          | 10.2            | 1.33                   |
| WDR                                       | 10.65          | 10.43          | 10.45          | 10.45            | 10.48          | 10.5            | -0.41                  |
| MWDR                                      | 9.25           | 9.16           | 9.38           | 9.38             | 9.36           | 9.3             | 0.29                   |
| FWDR                                      | 9.12           | 1              | 9.29           | 9.34             | 9.41           | 7.3             | 0.79                   |
| Mountain                                  | 8.58           | 1              | 9.07           | 9.23             | 9.29           | 7.2             | 1.99                   |
| Hill                                      | 10.21          | 10.15          | 10.26          | 10.33            | 10.35          | 10.3            | 0.33                   |
| <i>Terai</i>                              | 8.33           | 8.95           | 7.82           | 8.69             | 8.05           | 8.4             | -0.85                  |
| Nepal                                     | 10.07          | 10.02          | 10.13          | 10.21            | 10.24          | 10.2            | 0.42                   |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 44: Changes in area, production and yield of apple  
by development region and ecological belt**

| <b>Development region/Ecological belt</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP</b> | <b>Growth rate (%)</b> |
|---|----------------|----------------|----------------|------------------|----------------|-----------------|------------------------|
| <b>Area (000 ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 0.52           | 0.52           | 0.53           | 0.53             | 0.54           | 0.53            | 0.96                   |
| CDR                                       | 0.57           | 0.57           | 0.58           | 0.59             | 0.59           | 0.58            | 0.83                   |
| WDR                                       | 0.53           | 0.54           | 0.55           | 0.55             | 0.55           | 0.55            | 1.07                   |
| MWDR                                      | 0.98           | 1.02           | 1.10           | 1.15             | 1.20           | 1.12            | 5.03                   |
| FWDR                                      | 0.38           | 0.44           | 0.46           | 0.46             | 0.47           | 0.46            | 5.26                   |
| Mountain                                  | 1.87           | 1.96           | 2.05           | 2.10             | 2.14           | 2.06            | 3.45                   |
| Hill                                      | 1.10           | 1.13           | 1.16           | 1.18             | 1.19           | 1.17            | 1.98                   |
| <i>Terai</i>                              | NA             | NA             | NA             | NA               | NA             | NA              | NA                     |
| Nepal                                     | 2.98           | 3.08           | 3.21           | 3.28             | 3.34           | 3.23            | 2.91                   |
| <b>Production (mt)</b>                    |                |                |                |                  |                |                 |                        |
| EDR                                       | 4.60           | 4.62           | 4.69           | 4.77             | 4.80           | 4.72            | 1.03                   |
| CDR                                       | 5.27           | 5.30           | 5.37           | 6.74             | 5.45           | 5.71            | 0.82                   |
| WDR                                       | 5.12           | 5.18           | 5.27           | 5.31             | 5.34           | 5.27            | 1.05                   |
| MWDR                                      | 9.59           | 9.98           | 10.69          | 11.17            | 11.66          | 10.87           | 4.99                   |
| FWDR                                      | 4.01           | 4.26           | 4.45           | 4.52             | 4.57           | 4.45            | 3.30                   |
| Mountain                                  | 18.32          | 18.87          | 19.66          | 20.16            | 20.65          | 19.84           | 3.04                   |
| Hill                                      | 10.28          | 10.48          | 10.80          | 12.34            | 11.15          | 11.19           | 2.06                   |
| Terai                                     | NA             | NA             | NA             | NA               | NA             | NA              | NA                     |
| Nepal                                     | 28.60          | 29.35          | 30.46          | 32.50            | 31.80          | 31.03           | 2.69                   |
| <b>Yield (mt/ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 8.92           | 8.92           | 8.92           | 8.95             | 8.95           | 8.94            | 0.08                   |
| CDR                                       | 9.30           | 9.30           | 9.30           | 11.51            | 9.29           | 9.85            | -0.01                  |
| WDR                                       | 9.67           | 9.67           | 9.66           | 9.66             | 9.66           | 9.67            | -0.02                  |
| MWDR                                      | 9.77           | 9.77           | 9.73           | 9.74             | 9.75           | 9.75            | -0.04                  |
| FWDR                                      | 10.50          | 5.45           | 9.71           | 9.74             | 9.74           | 8.66            | -1.87                  |
| Mountain                                  | 9.79           | 5.34           | 9.61           | 9.62             | 9.63           | 8.55            | -0.39                  |
| Hill                                      | 9.31           | 9.31           | 9.31           | 10.44            | 9.34           | 9.60            | 0.08                   |
| <i>Terai</i>                              | NA             | NA             | NA             | NA               | NA             | NA              | NA                     |
| Nepal                                     | 9.61           | 9.52           | 9.51           | 9.91             | 9.53           | 9.62            | -0.21                  |

Source: SINA, MOAC (1994/95 to 2000/01).



**Appendix Table 45: Changes in area, production and yield of vegetables  
by development region and ecological belt**

| <b>Development region/Ecological belt</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> | <b>2000/01</b> | <b>Post-APP</b> | <b>Growth rate (%)</b> |
|---|----------------|----------------|----------------|------------------|----------------|-----------------|------------------------|
| <b>Area (000 ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 36             | 37             | 37             | 37               | 39             | 37.6            | 1.71                   |
| CDR                                       | 66             | 68             | 61             | 60               | 67             | 64.0            | 0.36                   |
| WDR                                       | 21             | 20             | 22             | 25               | 23             | 22.4            | 1.64                   |
| MWDR                                      | 17             | 19             | 16             | 20               | 21             | 18.6            | 4.34                   |
| FWDR                                      | 5              | 6              | 5              | 7                | 8              | 6.4             | 10.30                  |
| Mountain                                  | 7              | 7              | 8              | 8                | 8              | 7.7             | 3.63                   |
| Hill                                      | 54             | 54             | 47             | 51               | 61             | 53.1            | 3.00                   |
| <i>Terai</i>                              | 85             | 89             | 86             | 90               | 88             | 88.3            | 0.81                   |
| Nepal                                     | 147            | 150            | 140            | 149              | 157            | 149.1           | 1.77                   |
| <b>Production (mt)</b>                    |                |                |                |                  |                |                 |                        |
| EDR                                       | 314            | 336            | 337            | 361              | 378            | 353.1           | 4.76                   |
| CDR                                       | 655            | 684            | 607            | 609              | 738            | 659.4           | 3.03                   |
| WDR                                       | 197            | 194            | 202            | 256              | 245            | 224.4           | 5.61                   |
| MWDR                                      | 146            | 183            | 148            | 195              | 216            | 185.7           | 10.32                  |
| FWDR                                      | 46             | 53             | 47             | 68               | 79             | 61.8            | 14.39                  |
| Mountain                                  | 53             | 62             | 62             | 69               | 69             | 65.6            | 6.89                   |
| Hill                                      | 519            | 544            | 470            | 509              | 644            | 541.5           | 5.55                   |
| Terai                                     | 786            | 844            | 810            | 912              | 943            | 877.3           | 4.67                   |
| Nepal                                     | 1 357          | 1 449          | 1 343          | 1 490            | 1 656          | 1 484.4         | 5.10                   |
| <b>Yield (mt/ha)</b>                      |                |                |                |                  |                |                 |                        |
| EDR                                       | 8.63           | 9.02           | 9.06           | 9.73             | 9.72           | 9.39            | 3.01                   |
| CDR                                       | 9.86           | 10.06          | 10.01          | 10.12            | 10.95          | 10.30           | 2.66                   |
| WDR                                       | 9.30           | 9.66           | 9.40           | 10.11            | 10.84          | 10.03           | 3.91                   |
| MWDR                                      | 8.42           | 9.69           | 9.53           | 10.01            | 10.52          | 9.97            | 5.74                   |
| FWDR                                      | 8.80           | 9.07           | 9.06           | 9.89             | 10.18          | 9.63            | 3.71                   |
| Mountain                                  | 7.89           | 8.57           | 8.25           | 8.47             | 8.93           | 8.56            | 3.14                   |
| Hill                                      | 9.55           | 10.14          | 10.05          | 9.98             | 10.53          | 10.20           | 2.47                   |
| <i>Terai</i>                              | 9.19           | 9.47           | 9.44           | 10.14            | 10.69          | 9.93            | 3.83                   |
| Nepal                                     | 9.27           | 9.66           | 9.58           | 10.00            | 10.54          | 9.96            | 3.27                   |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 46: Changes in production of milk by development region and ecological belt**

(In 000 liters)

| Development region/Ecological belt | Pre-APP | Post-APP |         |         |         | Average 1997-2000/01 | Growth rate (%) |
|------------------------------------|---------|----------|---------|---------|---------|----------------------|-----------------|
|                                    |         | 1997/98  | 1998/99 | 1999/00 | 2000/01 |                      |                 |
| EDR                                | 218     | 230      | 242     | 252     | 258     | 246                  | 4.29            |
| CDR                                | 282     | 288      | 294     | 295     | 308     | 296                  | 2.25            |
| WDR                                | 276     | 281      | 285     | 287     | 292     | 286                  | 1.45            |
| MWDR                               | 115     | 121      | 125     | 130     | 135     | 128                  | 4.13            |
| FWDR                               | 121     | 128      | 127     | 132     | 131     | 129                  | 1.84            |
| Mountain                           | 84      | 87       | 88      | 89      | 92      | 89                   | 2.16            |
| Hill                               | 578     | 592      | 605     | 617     | 626     | 610                  | 1.98            |
| <i>Terai</i>                       | 350     | 370      | 380     | 391     | 407     | 387                  | 3.87            |
| Nepal                              | 1 012   | 1 048    | 1 073   | 1 097   | 1 124   | 1 086                | 2.66            |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 47: Comparative growth rates in livestock products between TLDP districts and the rest of country**

(In percent)

| Areas             | Milk | Meat | Eggs |
|-------------------|------|------|------|
| TLDP project area | 4.5  | 4.6  | -3.3 |
| Rest of country   | 3.6  | 4.4  | 6.3  |
| Nepal             | 3.7  | 4.5  | 4.9  |

Note: Growth rates refer to first two years of APP implementation compared to APP base year.

Source: Computed from SINA, MOAC 1998/99.

**Appendix Table 48: Changes in production of meat by development region and ecological belt**

(In 000 mt)

| Development region/Ecological belt | Pre-APP | Post-APP |         |         |         | Average 1997-2000/01 | Growth rate (%) |
|------------------------------------|---------|----------|---------|---------|---------|----------------------|-----------------|
|                                    |         | 1997/98  | 1998/99 | 1999/00 | 2000/01 |                      |                 |
| EDR                                | 40.65   | 41.81    | 42.92   | 44.71   | 45.39   | 43.70                | 2.79            |
| CDR                                | 54.19   | 57.51    | 58.69   | 60.15   | 62.37   | 59.68                | 3.58            |
| WDR                                | 36.05   | 36.61    | 37.13   | 37.49   | 38.14   | 37.34                | 1.42            |
| MWDR                               | 26.33   | 26.95    | 27.41   | 27.46   | 28.87   | 27.67                | 2.33            |
| FWDR                               | 17.08   | 17.82    | 18.78   | 19.36   | 19.50   | 18.86                | 3.36            |
| Mountain                           | 15.38   | 15.77    | 15.86   | 16.15   | 16.40   | 16.04                | 1.60            |
| Hill                               | 94.01   | 96.87    | 99.38   | 100.95  | 102.88  | 100.02               | 2.28            |
| <i>Terai</i>                       | 64.90   | 68.05    | 69.69   | 72.06   | 74.99   | 71.20                | 3.68            |
| Nepal                              | 174.29  | 180.69   | 184.93  | 189.16  | 194.26  | 187.26               | 2.75            |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 49: Changes in production of eggs by development region and ecological belt**

(in millions)

| Development region/Ecological belt | Pre-APP | Post-APP |         |         |         | Average 1997-2000/01 | Growth rate (%) |
|------------------------------------|---------|----------|---------|---------|---------|----------------------|-----------------|
|                                    |         | 1997/98  | 1998/99 | 1999/00 | 2000/01 |                      |                 |
| EDR                                | 82.4    | 86.4     | 93.8    | 92.8    | 91.3    | 91.1                 | 2.61            |
| CDR                                | 193.0   | 210.1    | 221.7   | 242.5   | 263.8   | 234.5                | 8.13            |
| WDR                                | 74.8    | 73.4     | 73.1    | 70.7    | 74.4    | 72.9                 | -0.15           |
| MWDR                               | 53.4    | 53.5     | 54.8    | 56.8    | 58.4    | 55.9                 | 2.27            |
| FWDR                               | 17.9    | 17.5     | 17.2    | 18.1    | 19.4    | 18.1                 | 2.09            |
| Mountain                           | 421.5   | 440.9    | 460.6   | 480.8   | 507.3   | 472.4                | 4.74            |
| Hill                               | 2.4     | 2.4      | 2.5     | 2.8     | 3.0     | 2.7                  | 5.04            |
| <i>Terai</i>                       | 3.9     | 4.2      | 4.7     | 4.0     | 4.3     | 4.3                  | 2.22            |
| Nepal                              | 11.5    | 10.9     | 10.0    | 11.3    | 12.2    | 11.1                 | 1.38            |

Source: SINA, MOAC (1994/95 to 2000/01).

**Appendix Table 50: Structure and level of agricultural imports**

(in millions)

| <b>Countries and commodities</b>                 | <b>1994/95</b> | <b>1995/96</b> | <b>1996/97</b> | <b>1997/98</b> | <b>1998/99</b> | <b>1999/2000</b> |
|--|----------------|----------------|----------------|----------------|----------------|------------------|
| <b>A. Import from India</b>                      |                |                |                |                |                |                  |
| Rice   | 418.80         | 499.20         | 379.10         | 168.30         | 1 884.60       | 2 777.20         |
| Tobacco  | 458.90         | 429.60         | 523.90         | 657.90         | 610.40         | 615.10           |
| Sugar  | 181.90         | 222.90         | 480.80         | 268.30         | 354.00         | 12.30            |
| Vegetables                                       | 344.00         | 338.60         | 417.20         | 433.90         | 366.30         | 551.40           |
| Pulse  | 134.70         | 1 198.00       | 149.80         | 181.60         | 232.60         | 262.10           |
| Live Animals                                     | 378.80         | 331.60         | 303.20         | 297.10         | 291.10         | 301.60           |
| Fruits   | 137.40         | 232.70         | 168.40         | 163.50         | 137.50         | 179.20           |
| Wheat  | 3.70           | 4.60           | 4.20           | 2.50           | 10.20          | 309.50           |
| Agricultural Products                            | 2 058.20       | 3 257.20       | 2 426.60       | 2 173.10       | 3 886.70       | 5 008.40         |
| Other Products                                   | 17 557.70      | 22 220.40      | 22 426.70      | 25 157.90      | 28 233.00      | 34 651.70        |
| Subtotal   | 19 615.90      | 25 477.60      | 24 853.30      | 27 331.00      | 32 119.70      | 39 660.10        |
| <b>B. Import from countries other than India</b> |                |                |                |                |                |                  |
| Raw wool   | 1 565.70       | 2 270.40       | 2 917.10       | 2 459.00       | 2 046.00       | 2 193.30         |
| Edible oil                                       | 114.50         | 419.90         | 592.40         | 282.20         | 677.50         | 648.00           |
| Raw silk   | –              | –              | –              | 932.80         | 705.60         | 647.20           |
| Sugar  | 246.10         | 10.30          | –              | 17.00          | 118.60         | 711.70           |
| Powder milk                                      | 23.10          | 22.30          | 28.70          | 55.10          | 99.40          | 116.70           |
| Cumin seed                                       | 28.20          | 40.90          | 62.70          | 1.90           | 54.10          | 86.50            |
| Crude coconut oil                                | –              | –              | –              | 155.70         | 54.00          | 26.60            |
| Coconut oil                                      | 62.20          | 28.90          | 49.00          | 37.90          | 33.80          | 214.40           |
| Raw cotton                                       | 14.30          | –              | –              | –              | 5.50           | 58.20            |
| Rice   | 62.80          | 317.70         | –              | –              | 2.50           | 200.50           |
| Agricultural products                            | 2 116.90       | 3 110.40       | 3 649.90       | 3 941.60       | 3 797.00       | 4 903.10         |
| Other products                                   | 41 946.70      | 46 445.50      | 65 050.20      | 57 729.40      | 51 608.60      | 63 941.70        |
| Subtotal   | 44 063.60      | 49 555.90      | 68 700.10      | 61 671.00      | 55 405.60      | 68 844.80        |
| Total agricultural products                      | 4 175.10       | 6 367.60       | 6 076.50       | 6 114.70       | 7 683.70       | 9 911.50         |

Source: Computed from FNCCI, 2001.

**Appendix Table 51: Structure and level of agricultural exports**

(in millions)

| <b>Countries and commodities</b>               | <b>1994/95</b>   | <b>1995/96</b>   | <b>1996/97</b>   | <b>1997/98</b>   | <b>1998/99</b>   | <b>1999/2000</b> |
|--|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>A. Export to India</b>                      |                  |                  |                  |                  |                  |                  |
| Rice   | –                | –                | 0.10             | 8.00             | 74.10            | –                |
| Pulses   | 401.50           | 2 314.70         | 510.70           | 198.80           | 281.20           | 969.70           |
| Wheat flour                                    | –                | 0.30             | 3.90             | 8.30             | 13.40            | –                |
| Maize  | –                | –                | 5.80             | 4.40             | 0.10             | 0.10             |
| Cardamom                                       | 137.70           | 195.40           | 208.60           | 227.70           | 233.40           | 223.00           |
| Ginger   | 90.90            | 137.30           | 140.70           | 167.20           | 151.70           | 161.50           |
| Herbs  | 41.70            | 40.50            | 52.60            | 50.90            | 31.40            | 61.20            |
| Jute cuttings                                  | 0.10             | 2.80             | 3.30             | 1.40             | –                | 0.10             |
| Raw jute                                       | 86.00            | 33.00            | 3.20             | 5.00             | 0.10             | –                |
| Linseed  | 64.50            | 48.00            | 35.20            | 9.50             | 15.50            | 29.30            |
| Mustard seeds                                  | 0.30             | –                | –                | –                | 3.70             | –                |
| Oil cakes                                      | 105.60           | 103.40           | 104.10           | 124.40           | 165.00           | 222.40           |
| Hessian  | 15.30            | 76.10            | 69.20            | 155.50           | 153.20           | 103.90           |
| Linseed oil                                    | 47.50            | –                | 0.70             | –                | 2.10             | 1.20             |
| Hide and skin                                  | 159.30           | 205.50           | 171.80           | 197.30           | 180.50           | 158.90           |
| Live animals                                   | 181.20           | 176.30           | 183.40           | 163.20           | 54.10            | 71.90            |
| Ghee   | 49.60            | 35.40            | 90.00            | 167.00           | 39.20            | 37.60            |
| Vegetables                                     | 22.60            | 2.70             | 6.40             | 9.50             | 10.90            | 8.40             |
| Vegetable seeds                                | 0.70             | 2.30             | 2.30             | 0.60             | 4.70             | 0.60             |
| Turmeric                                       | 0.20             | 1.10             | 2.30             | 5.10             | 2.40             | 2.50             |
| Fruits   | 2.90             | 1.50             | 2.70             | 3.00             | 3.20             | 14.20            |
| Agricultural products                          | 1 407.60         | 3 376.30         | 1 597.00         | 1 506.80         | 1 419.90         | 2 066.50         |
| Other products                                 | 1 716.70         | 306.30           | 3 629.20         | 7 287.60         | 11 110.80        | 19 154.20        |
| <b>Sub Total A</b>                             | <b>3 124.30</b>  | <b>3 682.60</b>  | <b>5 226.20</b>  | <b>8 794.40</b>  | <b>12 530.70</b> | <b>21 220.70</b> |
| <b>B. Export to countries other than India</b> |                  |                  |                  |                  |                  |                  |
| Pulses   | 55.40            | 348.70           | 528.30           | 558.30           | 915.70           | 87.10            |
| Hide and skin                                  | 416.50           | 387.60           | 288.50           | 417.30           | 270.50           | 181.90           |
| Niger seeds                                    | 84.30            | 409.30           | 259.20           | 134.60           | 97.70            | 14.30            |
| Tea  | 13.00            | 11.60            | 22.00            | 8.80             | 23.50            | 27.70            |
| Herbs  | 7.20             | 8.10             | 18.00            | 14.30            | 9.60             | 15.10            |
| Cardamom                                       | 0.20             | –                | –                | –                | 5.40             | –                |
| Agricultural products                          | 576.60           | 1 165.30         | 1 116.00         | 1 133.30         | 1 322.40         | 326.10           |
| Other products                                 | 13 938.30        | 15 033.20        | 16 294.30        | 17 585.80        | 21 823.20        | 28 275.90        |
| <b>Sub Total B</b>                             | <b>14 514.90</b> | <b>16 198.50</b> | <b>17 410.30</b> | <b>18 719.10</b> | <b>23 145.60</b> | <b>28 602.00</b> |
| <b>Agricultural exports</b>                    | <b>1 984.20</b>  | <b>4 541.60</b>  | <b>2 713.00</b>  | <b>2 640.10</b>  | <b>2 742.30</b>  | <b>2 392.60</b>  |

Source: Computed from FNCCI, 2001.

**Appendix Table 52: Changes in agriculture situation in the post-APP period compared to the pre-APP period in districts studied**

|                         |                       | Mugu    |          |            | Achham  |          |            | Kailali |          |            | Sunsari |          |            |
|-------------------------|-----------------------|---------|----------|------------|---------|----------|------------|---------|----------|------------|---------|----------|------------|
|                         |                       | Pre-APP | Post-APP | Growth (%) | Pre-APP | Post-APP | Growth (%) | Pre-APP | Post-APP | Growth (%) | Pre-APP | Post-APP | Growth (%) |
| Paddy                   | Area (ha)             | 367     | 420      | 7.05       | 6 700   | 6 775    | 0.56       | 54 650  | 54 900   | 0.23       | 58 500  | 58 550   | 0.04       |
|                         | Prodn. (mt)           | 585     | 835      | 19.47      | 13 486  | 15 385   | 6.81       | 135 315 | 144 718  | 3.42       | 159 619 | 159 172  | -0.14      |
|                         | Yield (mt/ha)         | 1.59    | 1.99     | 11.70      | 2.01    | 2.27     | 6.21       | 2.48    | 2.64     | 3.18       | 2.73    | 2.72     | -0.18      |
| Maize                   | Area (ha)             | 153     | 155      | 0.82       | 5 000   | 5 175    | 1.73       | 12 135  | 12 100   | -0.14      | 4 500   | 4 970    | 5.09       |
|                         | Prodn. (mt)           | 158     | 165      | 2.35       | 7 500   | 7 917    | 2.74       | 22 420  | 22 685   | 0.59       | 7 836   | 9 071    | 7.59       |
|                         | Yield (mt/ha)         | 1.03    | 1.06     | 1.50       | 1.50    | 1.53     | 1.00       | 1.85    | 1.88     | 0.75       | 1.74    | 1.83     | 2.38       |
| Wheat                   | Area (ha)             | 1 250   | 1 255    | 0.20       | 7 091   | 7 002    | -0.63      | 22 150  | 15 250   | -9.23      | 17 512  | 16 912   | -1.73      |
|                         | Prodn. (mt)           | 1 240   | 1 066    | -7.28      | 9 045   | 10 490   | 7.69       | 34 800  | 34 790   | -0.01      | 31 773  | 31 173   | -0.95      |
|                         | Yield (mt/ha)         | 0.99    | 0.85     | -7.47      | 1.27    | 1.50     | 8.42       | 1.57    | 1.93     | 10.71      | 1.81    | 1.84     | 0.83       |
| Potato                  | Area (ha)             | 175     | 177.5    | 0.71       | 615     | 673      | 4.57       | 975     | 1 225    | 12.09      | 1 310   | 1 404    | 3.55       |
|                         | Prodn. (mt)           | 1 300   | 552.5    | -34.81     | 4 189   | 4 488    | 3.50       | 7 771.5 | 4 312    | -3.00      | 15 460  | 15 422   | -0.12      |
|                         | Yield (mt/ha)         | 7.43    | 3.11     | -35.26     | 6.80    | 6.74     | -0.47      | 7.96    | 5.92     | -13.77     | 11.77   | 10.99    | -3.39      |
| Livestock production    | Milk (mt)             | 1 716   | 1 847    | 3.73       | 14 616  | 13 126   | -5.24      | 20 379  | 27 180   | 15.49      | 12 862  | 15 749   | 10.65      |
|                         | Meat (mt)             | 484     | 541      | 5.68       | 1 753   | 1 714    | -1.13      | 4 076   | 4 972    | 10.45      | 2 554   | 3 088    | 9.96       |
|                         | Eggs (000)            | 501     | 516      | 1.44       | 1 187   | 1 497    | 12.30      | 7 594   | 6 122    | -10.21     | 10 454  | 9 511    | -4.61      |
| Horticulture production | Citrus (mt)           | 0       | 0        | NA         | 844     | 996      | 8.66       | 0       | 9        | NA         | 0       | 0        | NA         |
|                         | Apple (mt)            | 896     | 968      | 3.97       | 425     | 442      | 1.98       | 0       | 0        | NA         | 0       | 0        | NA         |
|                         | Vegetables            | 2 310   | 225      | 3.51       | 2 302   | 3 373    | 21.04      | 14 857  | 14 222   | -2.16      | 44 150  | 46 794   | 2.95       |
| Irrigation              | Rs 000                | 0       | 0        | NA         | 0       | 0        | NA         | 0       | 0        | NA         | 1 085   | 1 626    | 22.42      |
| Fertilizer              | Mt                    | 3       | 0        | -100.00    | 277     | 236      | -7.71      | 4 309   | 3 723    | -7.05      | 4 789   | 3 106    | -19.47     |
| Credit                  | Total (Rs 000)        | 1 594   | 1 400    | -6.27      | 6 023   | 7 049    | 8.18       | 173 891 | 28 585   | 14.65      | 168 086 | 206 083  | 10.73      |
|                         | Irrigation (Rs 000)   | 0       | 0        | NA         | 555     | 769      | 17.71      | 25 243  | 12 504   | -29.62     | 6 044   | 3 979    | -18.86     |
|                         | Horticulture (Rs 000) | 0       | 13       | NA         | 198     | 132      | -18.40     | 1 802   | 787      | -33.93     | 72      | 147      | 43.14      |

Source: Compiled from different volumes of SINA, MOAC.

**Appendix Table 53: Population by development region and ecological belt, 1991-2002**

(in millions)

| <b>Population</b> | <b>1991</b> | <b>1992</b> | <b>1993</b> | <b>1994</b> | <b>1995</b> | <b>1996</b> | <b>1997</b> | <b>1998</b> | <b>1999</b> | <b>2000</b> | <b>2001</b> |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Eastern           | 4.45        | 4.53        | 4.61        | 4.70        | 4.79        | 4.87        | 4.97        | 5.06        | 5.15        | 5.25        | 5.34        |
| Central           | 6.18        | 6.35        | 6.52        | 6.69        | 6.87        | 7.05        | 7.23        | 7.43        | 7.62        | 7.82        | 8.03        |
| Western           | 3.77        | 3.84        | 3.92        | 3.99        | 4.07        | 4.15        | 4.23        | 4.31        | 4.40        | 4.48        | 4.57        |
| Midwestern        | 2.41        | 2.46        | 2.52        | 2.58        | 2.64        | 2.69        | 2.76        | 2.82        | 2.88        | 2.95        | 3.01        |
| Far western       | 1.68        | 1.72        | 1.77        | 1.82        | 1.87        | 1.92        | 1.97        | 2.02        | 2.08        | 2.13        | 2.19        |
| Nepal             | 18.49       | 18.91       | 19.34       | 19.78       | 20.23       | 20.69       | 21.16       | 21.64       | 22.13       | 22.64       | 23.15       |
| Mountain          | 1.44        | 1.47        | 1.49        | 1.51        | 1.54        | 1.56        | 1.59        | 1.61        | 1.64        | 1.66        | 1.69        |
| Hill              | 8.42        | 8.59        | 8.76        | 8.93        | 9.11        | 9.29        | 9.48        | 9.66        | 9.86        | 10.05       | 10.25       |
| <i>Terai</i>      | 8.63        | 8.86        | 9.09        | 9.33        | 9.58        | 9.84        | 10.10       | 10.36       | 10.64       | 10.92       | 11.21       |
| Nepal             | 18.49       | 18.91       | 19.34       | 19.78       | 20.23       | 20.69       | 21.16       | 21.64       | 22.13       | 22.64       | 23.15       |

Source: CBS, 1999 and 2002.

**Appendix Table 54: Effects of subsidy reduction on STW loan applications**

| <b>Year</b> | <b>STW subsidy rate (%)</b> | <b>STW Loan application (no)</b> |                   |
|-------------|-----------------------------|----------------------------------|-------------------|
|             |                             | <b>Kailali</b>                   | <b>Kanchanpur</b> |
| 1997/98     | 40                          | 315                              | 185               |
| 1998/99     | 30                          | 134                              | 109               |
| 1999/2000   | 0                           | 91                               | 21                |

Source: The Kathmandu Post, 20 September, 2000.

**Appendix Table 55: Distribution of population into poor and non-poor categories in selected districts**

| District   | Distribution of population (%) |       |        |
|------------|--------------------------------|-------|--------|
|            | Non-poor                       | Poor  | Total  |
| Solukhumbu | 30.58                          | 80.40 | 100.00 |
| Khotang    | 19.60                          | 77.80 | 100.00 |
| Siraha     | 22.20                          | 71.37 | 100.00 |
| Dolakha    | 28.63                          | 69.07 | 100.00 |
| Nuwakot    | 30.93                          | 76.30 | 100.00 |
| Rautahat   | 23.70                          | 62.51 | 100.00 |
| Mustang    | 37.49                          | 63.69 | 100.00 |
| Parbat     | 36.31                          | 60.79 | 100.00 |
| Kapilbastu | 39.21                          | 73.12 | 100.00 |
| Humla      | 26.88                          | 85.63 | 100.00 |
| Dailekh    | 14.37                          | 65.39 | 100.00 |
| Banke      | 34.61                          | 78.03 | 100.00 |
| Bajhang    | 21.97                          | 83.39 | 100.00 |
| Achham     | 16.61                          | 59.96 | 100.00 |
| Kanchanpur | 40.04                          | 80.40 | 100.00 |

Source: APROSC, 1999.

**Appendix Table 56: Poverty situation in Nepal**

| Development region/<br>Ecological belt | Distribution of Population (%) |      |        |
|--|--------------------------------|------|--------|
|  | Non-poor                       | Poor | Total  |
| EDR                                    | 24.4                           | 75.6 | 100.00 |
| CDR                                    | 27.4                           | 72.6 | 100.00 |
| WDR                                    | 37.9                           | 62.1 | 100.00 |
| MWDR                                   | 27.4                           | 72.6 | 100.00 |
| FWDR                                   | 32.2                           | 67.8 | 100.00 |
| Nepal                                  | 29.6                           | 70.4 | 100.00 |
| Mountains                              | 28.3                           | 71.7 | 100.00 |
| Hills                                  | 24.3                           | 75.7 | 100.00 |
| <i>Terai</i>                           | 33.1                           | 66.9 | 100.00 |

Source: APROSC, 1999.



**Appendix Table 57: Incremental area brought under plantation in the first two years of APP implementation**

(in ha)

| <b>Development region/ Ecological belt</b> | <b>Community forestry</b> | <b>Private forestry</b> | <b>Fruit trees</b> | <b>Total</b> |
|--|---------------------------|-------------------------|--------------------|--------------|
| EDR  | 31 208                    | 303                     | 950                | 32 461       |
| CDR  | 30 060                    | 97                      | 1 187              | 31 344       |
| WDR  | 25 593                    | 42                      | 1 066              | 26 701       |
| MWDR                                       | 41 384                    | 9                       | 873                | 42 266       |
| FWDR                                       | 23 110                    | 11                      | 476                | 23 597       |
| Nepal                                      | 151 355                   | 463                     | 4 552              | 156 370      |
| Mountains                                  | 24 226                    | 3                       | 714                | 24 943       |
| Hills                                      | 91 395                    | 51                      | 2 806              | 94 252       |
| <i>Terai</i>                               | 35 733                    | 409                     | 1 032              | 37 174       |

Source: Records of Department of Forest, 1999.