| | 1976/77 | 87/1761 17/9/18 | 1978/79 | 1979/80 | 1980/81 | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | Revised 1990/91 | Estimatè 1991/92 |
|---|------------------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------------------|---------------------------|-----------------------------|
| Expenditure by Government Account Revenue Budget Development Budget Extrabudgetary | 142.5 86.6 55.9 0.0 | 178.5 101.9 76.6 0.0 | 248.0 134.5 113.5 0.0 | 305.9 156.6 128.0 21.3 | 358.6 183.7 174.9 0.0 | 392.7 231.9 124.2 36.7 | 400.3 260.7 139.6 0.0 | 432.0 289.1 142.9 0.0 | 503.2 364.8 138.4 0.0 | 611.9 425.6 160.2 26.0 | 797.0 560.5 189.8 46.7 | 856.5 638.4 207.4 10.7 | 1,071.3 695.2 341.3 34.8 | 1,292.9 962.8 295.3 34.8 | 1,385.8 977.6 408.2 | 1,555.8 1,118.6 437.2 |
| Total Revenue | 95.8 | 116.4 | 148.6 | 187.0 | 199.2 | 221.0 | 244.3 | 386.0 | 353.2 | 442.0 | 492.9 | 583.4 | 7529 | 0.166 - | 1,021.3 | 1,119.8 |
| Deficit before Grants | -46.7 | -62.1 | -99.4 | -118.9 | -159.4 | -171.7 | -156.0 | -146.0 | -149.9 | -169.8 | 304.1 | 273.1 | -318.4 | -301.9 | -369.5 | -436.0 |
| Total Financing Grants | 46.7 | 16.0 | 26.0 | 34.6 | 159.4 | 171.8 | 156.0 | 33.7 | 149.9 | 169.8 | 304.1 | 273.1 | 318.4 | 2643 | 364.5 | 436.0 |
| Domestic Borrowing (net) External Borrowing (net) | 13.4 23.9 | 42.5 42.5 | 61.8 | 13.2 71.0 | 40.0 | 31.3 | 39.1 75.2 | 17.3 95.0 | 85.6 4.0. | 48.7 73.5 | 109.8 | 80.0 | -53.8 163.0 | -97.9 190.6 | -84.6 291.2 | -97.2 294.4 |
| Borrowing Repayment | 28.2 4.3 | 47.2 | 66.6 4.8 | 76.1 S.1 | 623 22.3 | 31.8 | 87.4 | 112.1 | 102.7 | 143.2 | 218.3 | 198.2 | 258.3 95.3 | 284.6 94.0 | 1,399.8 | 389.7 95.3 |
| Other (- = increase) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | • | 1 | t | •! |
| Revenue (excluding grants) Recurent Expenditure | 14.9% | 15.6% | 18.2% | 20.8% | 19.3% | 19.3% | 18.9% | 19.0% | 20.0% | 22.0% | 21.1% | 19.5% | | | | |
| Development Expenditure Extrabadoutery Expenditure | 8.7% | 10.3% | 13.9% | 14.2% | 17.0% | 10.9% | 10.8% | 9.5% | 7.8% | 8.0% | 8.1% | 6.9% | | | | |
| Expenditure | 22.2% | 23.9% | 30.4% | 31.6% | 34.8% | 31.2% | 30.9% | 28.7% | 28.5% | 29.1% | 34.2% | 28.6% | | | | |
| Dehat before Grants Overall Deffat | -7.3% -5.8% | 6.2% 6.2% | -12.2% -9.0% | -13.2% | -11.3% | -15.0% | -12.1% -8.8% | -7.7% | -8.5% -6.2% | 8. α. 8. α. | -13.0% | 5.5% 6.6% | - | | | |
| CDP at Market Prices c/ | 641.0 | 746.2 | 816.7 | 899.7 | 1,030.9 | 1,142.5 | 1,293.5 | 1,504.7 | 1,768.2 | 2,010,2 | 2,3326 | 2,992.3 | 3,552.3 | 4,527.0 | 5,204.4 | 5,949.8 |

NOTES: c/ CDP on a fiscal year basis.

SOURCES:
1986/87 - 1988/89 : Government Estimates in PFP 1989/90 - 1991/92. 1987/88 figures differ slightly from those in Malawi Economic Report 1989.
1981/82 - 1986/87 : MALAWI - Economic Report, 1989
1980/81 : MALAWI - Economic Report, 1985
1976/77 - 1979/80 : MALAWI - Economic Report, 1981

(出典) Economic Report, 1991 Malawi Statistical Year Book, 1987

1/ Also referred to as customs duties.
2/ Most recent estimate for which further disaggregation is not yet available.
Source of this data is set of government estimates used in PFP 1989/90 - 1991/92 (obtained 7/20/89).

NOTES: 1987/88 data are Actual figures as published in the Economic Report, 1989,

1988/89 Official Government Sources (7/20/89 printout).
1981/82 - 1987/88 : MALAWI - Economic Report, 1989
1980/81 : MALAWI - Economic Report, 1985
1976/77 - 1979/80 : MALAWI - Economic Report, 1981

Malawi Statistical Year Book, Economic Report, 1991 中東 H

表一2.18 . 開発予算

| | 1976/77 | 1977/78 | 1978/79 | 1979/80 | 1980/81 | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 98/5861 | 1986/87 | 1987/88 | 1988/89 | Äctual 1989/90 | Revised 1990/91 | Estimate 1991/92 |
|--|--|--|--|--|--|--|---|---|--|---|--|---|--|---|---|---|
| Agriculture and Natural Resources Agriculture Foresty and Cane Veterinary Service Surveys and Lands Fisheries | 8.92 8.92 0.72 0.14 | 15.92 12.56 2.20 0.56 0.14 0.39 | 14.91 10.71 2.17 0.73 0.86 | 20.20 15.10 3.11 1.59 0.12 | 23.18 15.47 4.03 3.15 0.11 | 27.87 20.73 4.43 2.13 0.09 0.49 | 30.52 22.61 2.59 0.04 0.32 | 37.31 30.93 5.03 1.18 0.04 | 26.72 22.88 4.60 1.07 0.05 | 25.88 20.08 4.13 0.09 0.26 | 50.44 27.23 18.56 1.66 2.52 0.47 | 57.17 31.04 17.54 5.71 2.43 0.45 | 72.09 40.79 20.87 2.35 6.48 1.60 | 55.32 37.52 14.01 1.74 0.45 1.60 | 71.67 53.31 11.18 4.16 1.78 | 2.12 2.01 2.02 2.03 2.03 3.03 5.03 5.03 5.03 5.03 5.03 5.03 5 |
| ocial Services Education Health Community and Social Developmen | 3.11 1.34 1.67 0.10 | 5.08 4.17 0.87 0.04 | 8.02 6.99 1.01 0.02 | 7.85 5.11 2.73 0.01 | 11.86 7.61 4.25 0.00 | 13.49 11.93 1.56 0.00 | 23.44 19.67 3.77 0.00 | 26.81 20.14 6.52 0.15 | 27.87 18.28 9.48 0.13 | 23.54 20.66 2.75 0.13 | 24.50 18.71 5.66 0.13 | 25.42 14.59 8.93 1.90 | 55.80 31.21 22.79 1.80 | 47.98 25.81 21.37 0.80 | 7.73 47.78 24.51 5.44 | 63.86 51.17 8.92 |
| Pansport and Comunications Transport Posts and Telecommunications | 23.98 21.03 2.95 | 34.82 31.44 3.38 | 61.15 58.23 2.92 | 44.32 41.23 3.09 | 68.78 66.59 2.19 | 49.17 | 35.80 33.61 2.19 | 33.60 30.73 2.87 | 50.51 48.26 2.25 | 65.10 52.69 12.41 | 71.99 58 .04 13.95 | 69.39 59.25 10.14 | 163.81 93.69 70.12 | 136.80 105.97 30.83 | 189.87 183.07 6.80 | 147.21 100.53 46.68 |
| Dher Services Power Government Buildings Government Buildings Water and Sanitation Finance, Commerce and Industry Works Organization Miscellaneous | 5.51 3.99 1.10 0.66 1.65 0.14 3.68 | 20.74 3.92 1.63 1.49 9.70 0.11 | 29.41 6.91 12.48 1.17 5.01 0.05 2.92 | 55.58 7.50 32.39 1.59 6.12 2.39 0.01 5.48 | 71.08 6.01 39.74 2.83 6.73 1.42 0.01 | 33.64 3.73 17.93 0.80 6.13 1.27 0.00 | 49.82 0.57 17.78 0.00 8.79 21.05 0.00 | \$2.0 0.04 12.85 0.07 6.62 23.07 23.07 25.05 | 31.28 1.66 13.07 0.13 8.42 6.16 0.00 | 45.70 5.80 16.09 0.31 5.78 13.74 0.00 | 42.85 4.98 5.91 0.66 6.07 18.35 0.00 | 55.42 5.84 5.76 1.17 22.59 11.94 0.00 8.12 | 20.37 2.537 3.18 3.18 2.11 2.11 0.00 6.00 | 55.19 255 220 11.58 23.26 6.49 9.11 | 58.98 3.88 15.03 7.55 9.13 0.00 12.65 | 34.26 5.03 18.06 14.76 26.42 26.42 11.54 0.00 8.45 |
| Development Budga Development Budga 1/ | 55.91 | 76.58 | 113.49 | 127.95 | 174.90 | 124.17 | 139.58 | 142.91 | 138.38 | 160.22 | 189.78 | 207.40 | 342.01 | 295.29 | 408.25 | 437.20 |

1/ Most recent estimate for which further disaggregation is not yet available.

Source of this data is set of government estimates used in PFP 1989/90-1991/92 (obtained 7/20/89).

NOTES: 1987/88 data are Actual figures as published in the Economic Report, 1989. 1988/89 data are Revised figures as published in the Economic Report, 1989.

SOURCES: 1981/82 - 1988/89: MALAWI - Economic Report, 1989

(出典) Economic Report, 1991 Malawi Statistical Year Book, 1987

| | 80wts | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Inflation rate (%) | | | 8.8 | 8 | 13.4 | 11.0 | 14.9 | 14.8 | 26.8 | 31.5 | 15.7 | 11.5 |
| All Items | 100.0 | 100.0 | 110.4 | 120.1 | 136.2 | 151.2 | 173.8 | 199.5 | 252.9 | 332.5 | 384.4 | 428.5 |
| Food | 32.9 | 1000 | 112.7 | 120.5 | 140.3 | 154.4 | 177.0 | 260.4 | 259.2 | 344.5 | 394.6 | 465.6 |
| Beverages & Tobacco | 6.4 | 100.0 | 109.5 | 119.3 | 131.4 | 139.8 | 160.6 | 180.7 | 229.9 | 303.4 | 326.6 | 362.9 |
| Clothing | 10.7 | 100.0 | 108.6 | 118.1 | 133.6 | 156.4 | 178.3 | 194.5 | 225.5 | 304.9 | 364.8 | 394.7 |
| Housing | 13.3 | 100.0 | 109.3 | 118.9 | 136.7 | 155.7 | 177.0 | 194.3 | 239.5 | 322.4 | 383.7 | 410.1 |
| Household Operation | 9.6 | 100.0 | 106.3 | 118.3 | 136.1 | 149.6 | 173.8 | 190.7 | 234.9 | 387.5 | 306.2 | 357.8 |
| Transportation | 17.6 | 100.0 | 110.2 | 121.3 | 131.6 | 146.5 | 176.1 | 220.1 | 307.2 | 402.3 | 489.4 | 520.4 |
| Miscellaneous | 9.5 | 100.0 | 111.0 | 123.2 | 136.0 | 146.0 | 158.0 | 171.9 | 231.7 | 272.3 | 296.1 | 309.6 |
| | | | | | | | | | | | | |

a) 1989 figure is the January Index.
b) The Index covers the cities of Blantyre and Lilongwe.

SOURCE: NSO, Monthly Statistical Bulletin, Economic Report 1989 and Official sources.

| 8 |
|----------|
| 1980= |
| (76.87 |
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| (Blantyr |
| 物价指数 |
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| | | | | : | | | | | | | | Т - | | 163 | ı— | | | | | | | | | | | | | |
|-------|-----------|---------------------------------|---------------------------------|---|--|------------------------------------|----------------|-------|-------------------|---------------------------------|--|---|---|------------------|---------|------------------------|---------------------------------|--------------------------------|---|--|-----------------------------------|-------|---------------------------------|---------------------|---------|------------------------------|-------------|--|
| | All Items | Beverates & Tobacco Clothing | Housing Flouschold Operation | Transportation 26.4 25.3 19.0 2 Miscellancous 18.80 15.90 24.00 24. Note: Values for 1974 to 1979 have been rebased to 1988 | Source: - 1970 - 1987; Malawi Monthly Statistical Bulletin. | 1988 - 1989: Government estimates. | | ·. | All liens Food | Beverates & Tobacco Clothing | Housing Household Operation Transportation | Miscellancous 3.6 6.5 66.2 66.7 Note: Values for 1974 to 1979 have been rebased to 1980 | Source: 1970 - 1987: Malawi Monthly Sutistical Bulletin. 1988 - 1989: Government estimates. | | | All Items Food | Beverates & Tobacco Clothing | Housing Household Operation | Transportation 20,7 33.9 41.3 47 Miscellaneous 17,2 9.0 30.9 34 Note: Values for 1974 to 1979 have been rebased to 1980 | Source. 1970 - 1987: Malawi Monthly Statistical Bulletin. 1988 - 1989: Government estimates. | | , | All Items | Beverates & Tobacco | Housing | | Source: | .1970 - 1987; Malawi Monthly Statistical Bulletin. 1988 - 1989; Government estimates. |
| 70eWt | 100.0 | 8,0 | 검증 | 26.4 18.80 1979 have | onthly State | of estimates | | | 100.0 47.9 | 17.6 | 2.1 8.0 8.4 | 3.6 5 1979 have | onthly Statis | | 74 W.S | 100.0 26.8 | 7.5 8.2 | 225 | 20.7 17.2 0 1979 have | onthly Stati nt estimates | , | 74w25 | 8 6 6 7 | | 8.61 | S 2 2 5 | 2 13 15 DAY | onthly Sutt |
| 80eWt | 0.0 | 7.6 | 13.0 | 15.93 15.90 day | zücal Buli | _ | | 80eWt | 90.00 | 5.4 | 5.8 2.8 5.0 5.0 5.0 | 6.5 been rebr | sticut Bull | | BOwts | 100.0 | 8, 6, 8, 0, | 16.1 | 33.9 9.0 100 red | stical Bull | | 80wts | 8 8 8 8 8 8 8 | 383 | 10.8 | 8 2 3 8 2 3 | on lend | stical Bul s. |
| 0721 | 26.4 | 652 | 32.2 58.0 | 24.00 3 | cán. | | | 1970 | 37.1 | 53.0 57.3 | 38.0 36.1 36.1 | 66.2 sed to 19 | cúp. | | 1974 | 52.1 | 51.6 | | 41.3 30.9 sed to 18 | etin. | | 1974 | % & V | | 25 | 55.8 59.2 | 9 | letin. |
| 1761 | 30.7 | 5.4 5.4 | 8. 2. 5. 5. | 24.70 2 980 = 100 | | | | 1261 | 4 4 | 57.5 57.5 | 59.7 1.99.2 1.99.2 | 69.3 | | | 1975 | 502 612 | 55.1 75.0 | 68.1 80.2 | 24.9 80 = 100 | | | 1975 | 575 | 16. | | 55.7 | 3 | |
| | - 1 T | 1 - | 35.9 | | | | | | | | 2 5 5 5 5 7 5 5 | | | | 1976 | | 88.50 | | | | | | | | | 2 6 5 | | |
| | | 1 | 38.8 4 | | | | 表221 | | | | 8.56 8.65 4.44 4.72 | | | ¥22 | 977 115 | | 693 | | | | 表2.23 | | | | | 25 5 25 5 25 5 25 5 | - | |
| | | | 42.2 SS.2 73.2 82.1 | • | | | 1 物格指数 | | | | 48.5 55.7 73.2 82.1 53.7 63.8 | | | 2 省格指数 | | 75.4 84.3 83.0 89.6 | | | | | 3 物格指数 | • | | | | 25.55. 26.54. 26.54. | 4 | ` K |
| | | | 12 821 | • | | | | | | | 202 1. 87.5 8. 67.6 | | | | | 3 100.0 | | | • • • • • | | | | | | | 87.6 100.0 87.1 100.0 | 7 | Monthly |
| | | | 1 65.8 5 91.3 | • | | | (Blantyre 市, { | | | | 5 91.3 6 70.4 | | | Cilongwe 市, 低収入レ | | 109.2 | | | | | (Lilongwe 市, 核収入レベル) (1980 = 100) | | | | | 222 | こう こうしゅう | hly |
| | | : | 1.22 | Τ. | | | 市、常食入った | | | | 76.1 | | | 有なスァ | | 119.3 | | | | | 被例とて | | | | | 3 137.5 | | ທ |
| | | | 82.9 98.1 | • | | | 7.V) (1980 | • | | | 98.1 90.8 | - | | 4X) (15 | | 133,9 | | | | | 4 kg) (18 | | | | | 322 | Report | isti |
| 1980 | 1000 | 0.00 | 1000 | 100.00 | • | | (001 = 98 | 1980 | 1000 | 100.0 | 8 8 8 | 100.0 | | '80 = 100) | 1984 | 149.0 | 137.6 | 140.1 168.5 | 146.8 | | 80 = 100) | 1984 | 16.2 | 22.5 | 1872 | 168.7 | 6.6 | O |
| 1981 | 109.7 | 10.9 | 107.1 | 110.50 | | | | 1981 | 111.8 | 114.6 | 25.53 | 107.9 | | _ | 1985 | 165.8 | 151.3 | 152.5 | 166.4 | | _ | 1985 | 178.8 | 3 5 | 200.0 | 1919 | | Bull |
| 1982 | 120.4 | 117.9 | 121.3 | 117.2 | | | | 1982 | 1728 | 135.4 | 129.1 | 119.4 | | | 1986 | 193.8 | 177.7 | 171.2 | 212.4 | | | 9861 | 207.4 | 185.9 | 22.5 | 212.6 182.5 | | Bulletin |
| 1983 | 133.6 | 128.6 | 143.0 | 126.3 136.40 | | | | 1983 | 139.4 | 136.0 | 5 5 5 1 5 5 1 1 6 5 1 | 131.5 | | | 1987 | 256.6 | 232.8 | 216.5 | 296.9 205.8 | | | 1987 | 256.5 | ន្តិន | 265.7 | 280.2 203.9 | | |
| 1984 | 143.1 | 132.5 | 150.0 | 14.9 | | | | 1984 | 153.1 | 196.2 | 205.6 172.0 181.0 | 140.2 | | | | 331.3 | | ~ ~ | | | | 1988 | X1.7 | 283.0 | 93.6 | 352.1 257.9 | | June |
| | - | | 168.8 | i | | | | | | | 207.0 | | | | | 375.1 | | | | | | 1989 | 391.0 | 25.5 | 55 | 375.6 | | 1991 |
| | | • | 185.9 2 | | | | | • | | | 28.5 | • | | | 18 | 405.8 | 378.3 | 324.9 | 279.2 238.4 | | | 1980 | 431.8 | | 200 | 410.1 289.6 | | |
| | | | 207.0 | | | | | | | | 280.9 | • | | | | | | | | | | | | | | | | |
| | | | 291.0 | | | | | | | | 265.4 265.3 265.3 | | ٠ | | | | | | | | | | | | | | | - |
| | | | 338.8 36 274.2 33 | | | | | | | | 386.3 43 364.8 42 | | | | | | | | | | | | | | | | | |
| 8 | 2,5 | 7.0 | 361.3 | 9.9 5.8 | | | | 8 | 2.4 | o, e, | 574.8 438.2 427.8 | 9.0 | | | | | | | | | | | | | | | | - |

表 2.24 外貨交換率

| | | | <u>.,, ., .,</u> | Malawi | Kwacha | oer unit of | Foreign (| Jurrency | | | |
|--|----------|---|------------------|----------|--------|-------------|-----------|----------|---------|----------|---------|
| • | • • | U.K.# | United | Zimbab- | | Kenyan | South | German | French | Japanese | Nether- |
| Date | | Sterling | States | wean | Kwacha | | African | Mark | Franc | Yen | lands |
| Date | | 01011 | Dollar | Dollar | | | Rand | | | | Guilder |
| 1987 | | | | | | | | | | | |
| March | 39 | 3.6657 | 2.2836 | 1.4059 | 0.1500 | 0.1428 | 1.1231 | 1.2527 | 0.3766 | 0.0153 | 1.1142 |
| June | 29 | 3.6771 | 2.2774 | 1.3592 | 0.2805 | 0.1398 | 1.1151 | 1.2474 | 0.3740 | 0.0156 | 1.1065 |
| September | 28 | 3.6969 | 2.2686 | 1.3509 | 0.2794 | 0.1381 | 1.1078 | 1.2435 | 0:3723 | 0.0158 | 1.1034 |
| December | 29 | 3.8226 | 2.0576 | 1.2532 | 0.2534 | 0.1290 | 1,0723 | 1.2843 | 0.3787 | 0.0166 | 1.1364 |
| 1988 | | | | | | | | | | | |
| March | 28 | 4.5809 | 2.5034 | 1.4461 | 0.3083 | 0.1463 | 1.1750 | 1.4895 | 0.4391 | 0.0199 | 1.3158 |
| June | 27 | 4.5641 | 2,6161 | 1.4486 | 0.3222 | 0.1481 | .1,1400 | 1.4559 | 0.4330 | 0.0203 | 1.2903 |
| September | 26 | 4.5424 | 2,7229 | 1.4273 | 0.3353 | 0.1484 | 1.0988 | 1.4510 | 0.4261 | 0.0202 | 1.2862 |
| December | 28 | 4.6555 | 2.5860 | 1.3338 | 0.2556 | 0.1410 | 1.0945 | 1.4561 | 0.4262 | 0.0207 | 1.2903 |
| 1989 | | | | \ | :: | | | | | | |
| March | 28 | 4.6339 | 2.7042 | 1.3369 | 0.2594 | 0.1399 | 1.0575 | 1.4404 | 0.4251 | 0.0205 | 1.2739 |
| June | 26 | | 2.8478 | 1.3402 | 0.2817 | 0.1381 | 1.0353 | 1.4587 | 0.4305 | 0.0203 | 1.2966 |
| September | 25 | | 2.8470 | 1.2602 | 0.1601 | 0.1322 | 1.0203 | 1.4646 | 0.4332 | 0.0195 | 1.3008 |
| December | 18 | | 2.7185 | 1.1961 | 0.1339 | 0.1263 | 1.0658 | 1.5668 | 0.4580 | 0.0188 | 1.3913 |
| 1990 | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | | |
| March | 26 | 4.6992 | 2.9295 | 1.2247 | 0.0722 | 0.1288 | 1.1183 | 1.7172 | 0.5092 | 0.0189 | 1.5326 |
| June | 25 | 4.9225 | 2.8543 | 1.1535 | 0.0703 | 0.1248 | 1.0731 | 1.6987 | 0.5063 | 0.0184 | 1.5152 |
| September | 24 | | 2.7056 | 1.0523 | 0.0666 | 0.1171 | 1.0510 | 1.7131 | 0.5117 | 0.0197 | 1.5094 |
| December | 31 | | 2.6438 | 1,0008 | 0.0550 | 0.1103 | 1.0332 | 1.7450 | 0.5154 | 0.0194 | 1.5444 |
| 1991 | 71 | 3.0213 | 2.0.50 | | 0.000 | 31334 | : | | | | |
| January | 7 | 5.0749 | 2.6069 | 0.9864 | 0.0542 | 0.1103 | 1,0259 | 1.7450 | 0.5142 | 0.0195 | 1.4574 |
| swidin', | 14 | 5.0543 | 2.6550 | 0.9922 | 0.0552 | 0.1069 | 1,0323 | 1.7291 | 0.5996 | 0.0197 | 1.5296 |
| | 21 | 5.0697 | 2.6295 | 0.9831 | 0.0547 | 0.1092 | 1.0323 | 1.7354 | 0.5104 | 0.0197 | 1.5296 |
| | 28 | | 2.5940 | 0.9639 | 0.0532 | 0.1034 | 1.0188 | 1.7472 | 0.5143 | 0.0196 | 1.5504 |
| February | 4 | 5.0904 | 2.5887 | 0.9699 | 0.0531 | 0.1057 | 1,0201 | 1.7490 | 0.5146 | 0.0197 | 1.5504 |
| 1 cordio y | 11 | 5.0878 | 2.5628 | 0.9592 | 0.0526 | 0.1051 | 1.0156 | 1.7564 | 0.5155 | 0.0200 | 1.5595 |
| | 18 | | 2.5780 | 0.9537 | 0.0529 | 0.1054 | 1.0168 | 1.7490 | 0.5133 | 0.0199 | 1.5326 |
| | 25 | 5.0904 | 2.5947 | 0.9484 | 0.0533 | 0.1052 | 1.0213 | 1.7438 | 0.;5111 | 0.0198 | 1.5552 |
| March | 5 | 5.0467 | 2.6613 | 0.9567 | 0.0546 | 0.1064 | 1.0276 | 1.7294 | 0.5078 | 0.0197 | 1.5355 |
| March | 11 | 5.0441 | 2.6824 | 0.9494 | 0.0501 | 0.1064 | 1.0319 | 1.7234 | 0.5062 | 0.0197 | 1.5326 |
| | 11 | | 2.7163 | 0.9456 | 0.0500 | 0.1061 | 1.0302 | 1.7151 | 0.5020 | 0.0199 | 1.5180 |
| | 25 | | 2.7809 | 0.9509 | 0.0512 | 0.1058 | 1.0332 | 1.6925 | 0.5962 | 0.0203 | 1.4981 |
| April | 2 | 4.9591 | 2.8365 | 0.9803 | 0.0507 | 0.1085 | 1.0479 | 1.0479 | 1.6644 | 0.4914 | 0.0202 |
| April | - 8 | 4.9801 | 2.7906 | 0.9566 | 0.0499 | 0.1059 | 1.0396 | 1.0396 | 1.6738 | 0.4945 | 0.0205 |
| | | | 2.7921 | 0.9583 | 0.0493 | 0.1057 | 1.0293 | 1.0293 | 1.6694 | 0.4942 | 0.0206 |
| | 15 22 | | | 0.9583 | 0.0493 | 0.1057 | 1.0293 | 1.0293 | 1.6578 | 0.4942 | 0.0206 |
| | | | 2.8462 | | | 0.1057 | 1.0310 | 1.0310 | 1.6528 | 0.4900 | 0.0200 |
| | 29 | | 2.8931 | 0.9640 | 0.0948 | | | | 0.4919 | 0.4900 | 1.4815 |
| May | 6 | 4.9273 | 2.8576 | 0.9541 | 0.0485 | 0.1047 | 1.0219 | 1.6669 | | | |
| | 13 | | 2.8740 | 0.9469 | 0.0479 | 0.1046 | 1.0292 | 1.6581 | 0.4900 | 0.0208 | 1.4815 |
| The state of the s | 20 | 4.9517 | 2.8429 | 0.9245 | 0.0474 | 0.1040 | 1.0205 | 1.6692 | 0.4910 | 0.0206 | 1.4870 |
| | 27 | 4.9493 | 2.8502 | 0.9300 | 0.0466 | 0.1042 | 1.0191 | 1.6672 | 0.4911 | 0.0207 | 1.4815 |

NOTES: 1 The above are averages of buying and selling rates as supplied by the Reserve Bank of Malawi.
2 Until November 1973, the Malawi Kwacha (MK) was pegged to the # Sterling; from then to June 8, 1975, it was based on a weighted average of the # Sterling and the U.S. \$; from June 9, 1975 it was pegged to the Special Drawing Right (SDR); on April 24, 1982 it was devalued by 15% against the SDR and on September 17, 1983 by 12%. With comprising the US Dollar, Sterling, Deutschemark, Rand, Yen, the French Franc and Dutch Guilder. It was further devalued by 15% on April 2, 1985, by 10% on August 16, 1986, by 20% on February 7, 1987, by 15% on January 16, 1988 and by 7% on March 24, 1990.

SOURCE: Reserve Bank of Malawi

(出典) Monthly Statistical Bulletin, June 1991

"Old Scriet" and "Now Seriet" figures are not directly comparable because some industrial activity, particularly government, was reclassified from "Community, Social and Personal Services" to "Agriculture, Foresty and Fishing".

SOURCESS.
1983 - MALAWI - Monthly Scaterical Bulletine, Sept. 1987, Dec. 1988 and June 1991
1922 - MALAWI - CRoyel 1982.
1979 - 1981 - MALAWI - Reported Employment and Earings Annual Report, 1979 - 81.
1977 - 1981 - MALAWI - Reported Employment and Earings Annual Report, 1979 - 81.
1977 - 1978 - MALAWI - Goweth and Stouchard Lounge - Rese Economic Report, 1992.
1971 - 1975 - MALAWI - Reported Employment and Earlings Annual Report, 1972.
1963 - 1970 - MALAWI - Coweth and Structural Change: A Basic Economic Report, 1972.

(出典) Monthly Statistical Bulletin, June 1991

| 1966 1980 1981 | 37.45 43.66 49.31 56.17 34.10 40.86 47.20 52.51 50.94 54.24 56.28 64.50 | 14.54 15.91 16.87 24.71 12.26 13.57 16.60 21.23 31.30 22.92 32.99 30.81 | 31.06 29.27 31.77 33.84 31.06 29.27 31.77 3.84 0.00 0.00 0.00 0.00 | _ | | 46.60 46.32 53.12 49.50 23,43 31.46 | 66.95 76.47 86.23 95.16 69.76 79.25 86.37 96.93 22.51 28.28 23.40 39.43 | 80.19 84.31 1 81.82 89.69 1 76.57 69.38 | 144.29 1 149.29 1 46.46 | 62.19 67.74 71.74 77.18 55.92 55.78 76.42 93.66 68.12 66.25 70.69 72.71 |
|------------------------------|---|---|--|---|---|---|---|--|---|---|
| 8761 7761 978 | 67 30.42 35.56 33 29.06 31.92 17 36.06 50.06 | 12.33 10.67 22.33 | | 43.38 43.92 26.83 | | 35.83 40.73 16.06 | 46.75 40.00 56.67 46.75 40.50 57.25 0.00 15.00 15.00 | 8.59 8.59 8.59 | | .92 4626 61.09 .92 44.33 56.00 .17 30.42 62.56 |
| 1974 1975 1976 | 30.25 30.48 31.67 28.23 28.95 29.33 35.13 34.42 28.17 | 10.83 10.67 11.25 11.06 10.92 11.58 7.67 7.83 7.58 | 35.00 15.00 16.67 | , . | 39.58 47.17 44. 48.17 56.58 54. 20.42 23.67 22. | 33.50 39.58 17.92 | 36.17 36.00 46. 38.17 36.00 46. 0.00 0.00 0. | 58.67 62.42 62.08 66.83 47.42 45.58 | 15.08 110.75 1 116.50 112.17 1 53.92 54.33 | 41.42 40.17 43.83 42.92 40.83 39.67 |
| Old Series 1971 1972 1973 | 27.76 27.29 27.75 24.78 25.79 25.64 34.72 30.64 32.59 | 925 9.50 9.58 9.33 9.67 9.75 7.17 7.00 7.00 | 15.17 16.83 18.33 15.25 1.00 18.83 13.42 12.33 12.83 | 29.58 29.67 26.92 | 33.08 43.83 15.25 | 25.50 29.67 13.67 | 35.50 58.00 35.50 38.00 0.00 0.00 | 51.92 52.92 55.92 55.67 38.42 43.58 | | 40.17 36.08 39.83 43.08 40.17 34.58 |
| 0.61 6961 | 27.00 27.58 23.58 24.69 24.59 24.69 | 8.17 8.50 8.08 | 20.67 17.50 21.62 17.75 16.08 12.13 | 27.58 28.17 27.67 28.17 26.75 26.92 | 40.83 36.73 45.58 44.42 24.08 18.17 | 24.50 28.25 27.25 33.23 18.06 16.93 | 35.82 35.82 0.00 | 47.08 47.33 48.00 | 129.08 129.08 0.00 | 40.50 35.08 41.58 |
| | Total Private Government | Aşriculture, Forestry & Fishing Private Covernment | Minng & Quarying Private Governdent | Manufacturing Private Government | Electricity & Water Private Government | Building & Construction Private Coverment | Wholesale, Retail Trade a/ Private Government | Traisport, Storage & Communications Private Government | Fuancing, Insurance de Blog, Serv. Private Government | Community, Social & Personal Serv. Private Government |

NOTES: * Includes Hotels and Restraurants.

vice to "Agriculture, Forestry and Fishing". "Ok Series" and "New Series" figures are not directly between 1966 and 1977. In particular government agri

SOURCES:
1987 - MALAWI - Morthy Satistical Bulletine, Sept. 1987 and Sept. 1986.
1982 - MALAWI - CBM, 1985.
1970 - MALAWI - CBM, 1985.
1970 - 1981 - MALAWI - Reported Employment and Entirgs Aumai Report, 1979 - 81.
1977 - 1978 - MALAWI - Monthy Satistical Bulletine, March 1980.
1976 - MALAWI - Corovert and Survanti Change. A Basic Economic Report, 1982.
1971 - 1979 - MALAWI - Reported Employment and Emriting Aumai Report, 1975.
1988 - 1970 - MALAWI - Growth and Structural Change. A Basic Economic Report, 1982.

(田田)

表-2.27 政府策定最低賃金(タンバラ/日)

| | Blantyre/Lilongwe *1 | Zomba/Townships *2 | Other | Effective Date |
|------|----------------------|--------------------|--------|-----------------|
| 1973 | 40 | 35 | 25 | As at January |
| 1974 | 40 | 35 | 25 | As at January 1 |
| 1975 | 40 | 35 | 25 | As at January 1 |
| 1976 | 40 | 35 | 25. | As at January 1 |
| 1977 | 40 | 35 | 25 | As at January 1 |
| 1978 | 40 | 35 | 25 | As at January 1 |
| 1979 | 40 | 35 | 25 | As at January 1 |
| 1980 | 45 | 35 | 30 | 1-Jul |
| 1981 | 70 | 60 | 50 | 1-Jan |
| 1982 | 81 | 69 | - 58 - | 1-Jan |
| 1983 | 81 | 69 | 58 | As at January 1 |
| 1984 | 81 | 69 | 58 | As at January |
| 1985 | 100 | 85 | 70 | 1-Sep |
| 1986 | 111 | 94 | 77 | 1-Aug |
| 1987 | 111 | 94 | 77 | As at January 1 |
| 1988 | 111 | 94 | . 77 | As at January 1 |
| 1989 | 217 | 195 | 174 | 1-May |

Source: Ministry of Labor

Note:

*1 From 1985 to 1979 this category included Blantyre and Limbe.
From 1980 to 1985 this category included Blantyre and Lilongwe.
Price 1986 to the 1989 category includes Blantyre, Lilongwe and Mzuzu.

*2 From 1985 to 1979 this category included Lilongwe and Zombe Townships.

From 1980 to 1985 this category included the municipalities of Zombe, Mzuzu and all townships.

From 1986 to the 1989 category includes the municipality of Zombe and all townships.

主観測所における年平均気温、降雨量及び蒸発量 表一3.1

| | | | | Avera | ige Temperati | ire C | Average | Average |
|---|----------|---------|----------|--------|---------------|---------|----------|-------------------|
| • | Lat. | Lat. | Altitude | Mean | Mean | Mean | Annual | Annual Evaporato |
| Name of Station | <u>s</u> | E | m | Annual | Maximum | Minimum | Rainfall | (Pan-evaporation, |
| 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | ~ , | 0 , | | | (November) | (July) | (mm) | mm) |
| Byummbwe | 15 55 | 35 4 | 1,175 | 19.3 | 27.1 | 10.7 | 1,158.9 | 1,357.6 |
| Chichiri (Blantyre) | 15 48 | 35 2 | 1,135 | 19.9 | 27.6 | 11.5 | 1,122.1 | 1,742.5 |
| Chileka | 15 41 | - 34 58 | 770 | 22.4 | 30.8 | 13.2 | 857.5 | 2,565.0 |
| Chitedze | 13 59 | 33 38 | 1,095 | 20.1 | 29.7 | 8.3 | 919.1 | 1,751.8 |
| Chitipa | 9 42 | 33 16 | 1,295 | 21.0 | 29.8 | 12.2 | 1,038.8 | 2,234.3 |
| Dedza | 14 19 | 34 16 | 1,615 | 17.7 | 25.2 | 8.9 | 905.2 | 1,615.8 |
| Karonga | 9 57 | 33 54 | 535 | 24.8 | 32.4 | 15.8 | 1,164.8 | 2,495.4 |
| Lilongwe | 5 59 | 33 46 | 1,135 | 20.2 | 29.7 | 8.5 | 847.5 | 1,864.0 |
| Makhanga | 13 31 | 35 9 | 52 | 25.6 | 35.6 | 13.9 | 764.5 | 2,203.6 |
| Makoka | 16 31 | 35 11 | 1,029 | 20.7 | 28.8 | 11.3 | 1,044.1 | 1,718.3 |
| Mangochi | 15 29 | 35 15 | 482 | 24.3 | 33.5 | 14.1 | 823.6 | 2,333.1 |
| Mimosa | 14 5 | 35 38 | 652 | 21.5 | 30.6 | 10.9 | 1,724.5 | 1,477.5 |
| Monkey Bay | 16 4 | 34 54 | 481 | 24.4 | 32.2 | 16.0 | | • |
| Mzimba | 14 53 | 33 36 | 1,349 | 19.7 | 28.2 | 10.5 | 864.3 | 1,760.6 |
| Mzuzu | 11 27 | 34 1 | 1,254 | 18.0 | 27.1 | 6.8 | 1,218.3 | 1,566.8 |
| Ngabu | 11 30 | 34 54 | 102 | 26.3 | 36.4 | 14.8 | 811.4 | 2,251.8 |
| Nkahata Bay | 16 36 | 34 18 | 500 | 23.4 | 30.4 | 15.0 | 1,694.6 | 1,728.1 |
| Nkhotakota | 12 23 | 34 17 | 500 | 23.7 | 31.8 | 15.1 | 1,630.8 | 2,306.7 |
| Salima | 13 45 | 34 35 | 512 | 24.3 | 33.0 | 15.6 | 1,281.2 | 2,432.2 |
| Thyolo | 16 9 | 35 8 | 820 | 20.8 | 29.6 | 11.3 | 1,273.1 | 1,504.4 |

⁽出典)

Metcorological Department
 National Water Resources Master Plan, 1986 by UNDP
 上記アータの観測基幹は観測所によって変化するが、概略1950-1980年のデータである (注)

表-3.2 マラウィ主要流域別年平均降雨量及び分布

(流域別年平均降雨量)

| WRA | Description of | CA km2 | Mean Annual |
|-----|--------------------------|--------|---------------|
| | River Basin | | Rainfall (mm) |
| 1 | Shire | 18,945 | 902 |
| 2 | Lake Chilwa | 4,981 | 1,053 |
| 3 | S.W. Lakeshore | 4,958 | 851 |
| 4 | Linthipe | 8,641 | 964 |
| 5 | Bua | 10,654 | 1,032 |
| 6 | Duangwa | 7,768 | 902 |
| 7 | South Rukuru | 11,993 | 873 |
| | North Rumphi | 712 | 1,530 |
| 8 | North Rukuru | 2,091 | 970 |
| 9A | Lufira & adjoining areas | 1,790 | 1,391 |
| 9B | Songwe (in Malawi) | 1,890 | 1,601 |
| 10 | S.E. Lakeshore | 1,540 | 887 |
| 11 | Lake Chiuta | 2,462 | 1,135 |
| 12 | Likoma Island | 18.7 | 1,121 |
| 13 | Chisumulu Island | 3.3 | 1,121 |
| 14 | Ruo (in Malawi) | 3,494 | 1,373 |
| 15 | Nkhotakota Lakeshore | 4,949 | 1,399 |
| 16 | Nkhota Bay Lakeshore | 5,458 | 1,438 |
| 17 | Kasronga Lakeshore | 1,928 | 1,028 |
| · | Total for country | 94,276 | 1,037 |

(降雨量別流域面積比)

| Rainfall (mm) | Area (km2) | Percentage |
|---------------|------------|------------|
| 650 - 800 | 17,339 | 18.4 |
| 800 - 1000 | 42,126 | 44.7 |
| 1000 - 1200 | 16,095 | 17.1 |
| 1200 - 1400 | 7,263 | 7.7 |
| 1400 - 3200 | 11,455 | 12.1 |
| Total | 94,276 | 100.0 |

(出典) National Water Resources Master Plan, 1986 by UNDP

RIVER BASINS OF MALAWI MEAN ANNUAL RAINFALL AND RUNOFF

| WRA | River Basin | Catchment Area | Rainfall | Кипоғ | 4-4 | % |
|----------|-----------------------|----------------|----------|-------|-------------|--------|
| | | km2 | um | шш | m3/s | Runoff |
| | Shire | | 206 | 137 | 82 | 15.2 |
| . 2 | Lake Chi Iwa | | 1 053 | 213 | * | 20.2 |
| ım | South West Lakeshore | 4 958 | 851 | 691 | 27 | 19.9 |
| 4 | Linthipe | | 5% | 151 | [+] | 15.7 |
| 5 | Bua | | 1 032 | 103 | 35 | 10.0 |
| 9 | Dwangwa | | 902 | 109 | 22 | 12.1 |
| 7 | South Rukuru | 11 993 | 873 | 115 | † † | 13.2 |
| | North Rumphi | . 712 | 1 530 | 429 | 15 | 44.1 |
| ∞ | North Rukuru | 2 .091 | 970 | 252 | 17 | 26.0 |
| 6 | Lufira | 1 790 | . 1 391 | 244 | 14 | 17.5 |
| | Songwe | 1 890 | 1 601 | 327 | <u>20</u> | 20.4 |
| 10 | South East Lake Shore | 1 540 | 887 | 201 | 9 | 22.7 |
| 11 | Lake Chiuta | 2 462 | 1 135 | 247 | 19 | 21.8 |
| 12 | Likoma Island | 18.7 | 1 121 | 280 | | . 1 |
| 13 | Chisumulo Island | 200 | 1 121 | 280 | 1 | . 1 |
| 14 | Ruo | 3.494 | 1 373 | 538 | 09 | 39.2 |
| 15 | Nkhotakota Lakeshore | 616 1 | 1 399 | 260 | 41 | 18.6 |
| 91 | Nkhata Bay Lakeshore | 5 458 | 1 438 | 461 | 80 | 32.1 |
| 17 | Karonga Lakeshore | 1 928 | 1 028 | 361 | 22 | 35.1 |
| | | | | | | |
| | TOTAL | 94 276 | 1 037 | 196 | 588 | 18.9 |
| | | | : | | | |

T - 25

表3.4 土地分級

| | | | | (Km2 |) |
|-------------|--------|---------|--------|-------|----------|
| District 名 | 土地面積 | ~~~ | 也グレイ | | |
| | 合計 | 高い | 中庸 | 低い | 不適/マージナル |
| in the same | 00.000 | 4 0 4 0 | 4.400 | 1.004 | 10.741 |
| 北部地区 | 26,930 | 4,012 | 4,493 | 1,684 | 16,741 |
| Chitipa | 4,290 | 59 | 981 | 84 | 3,166 |
| Karong | 3,355 | 780 | 166 | 127 | 2,282 |
| Nkhaa bay | 4,088 | 52 | 21 | 415 | 3,600 |
| Rumphi | 4,767 | 290 | 426 | 64 | 3,987 |
| Mzimba | 10,430 | 2,831 | 2,899 | 994 | 3,706 |
| 中部地区 | 35,592 | 10,306 | 7,650 | 3,635 | 14,001 |
| Kasungu | 7,878 | 370 | 3,251 | 573 | 3,684 |
| Nkhotakota | 4,259 | 207 | 643 | 732 | 2,677 |
| Ntchisi | 1,655 | 214 | 530 | 81 | 830 |
| Dowa | 2,998 | 1,232 | 368 | 636 | 762 |
| Salima | 2,239 | 1,189 | . 0 | 480 | 570 |
| Lilongwe | 6,159 | 3,652 | 1,168 | 64 | 1,275 |
| Mchinji | 3,356 | 116 | 1,571 | 398 | 1,271 |
| Dedza | 3,624 | 1,497 | 119 | 16 | 1,992 |
| Ntcheu | 3,424 | 1,829 | 0 | 655 | 940 |
| 南部地区 | 31,752 | 14,960 | 1,416 | 3,700 | 11,676 |
| Mangochi | 6,272 | 2,925 | 610 | 191 | 2,546 |
| Machinga | 5,964 | 2,846 | 207 | 1,002 | 1,909 |
| Zomba | 2,580 | 1,805 | 0 | 170 | 605 |
| Chiradzulu | 767 | 713 | 0 | . 0 | 54 |
| Blantyre | 2,012 | 660 | 88 | 617 | 647 |
| Mwanza | 2,295 | 1,053 | 211 | 357 | 674 |
| Thyolo | 1,715 | 332 | 0 | 586 | 797 |
| Mulanje | 3,450 | | 0 | 327 | 950 |
| Chikwawa | 4,755 | 1,821 | 68 | 450 | 2,416 |
| Nsanje | 1,942 | 632 | 232 | 0 | 1,078 |
| 全国合計 | 94,274 | 29,278 | 13,559 | 9,019 | 42,418 |
| 割合(%) | 100 | 31 | 14.4 | 9.6 | |

(出典) National Physical Development Project

TRATIGRAPHIC SUCCESSION OF MALAWI

| | | | | • |
|----------|------------------------------|---|--|--|
| 1 | Æ | RORMATION | DOMINANT LITHOLOGY | HYDROCEOLOGICAL SIGNIFICANCE |
| i | Quaternary | Colluvium, Alluvium and Lacustrine deposits | Clay, Silts, sands and occasional gravels | Probably highly per- meable locally |
| 7 | Pleistocene to Meocene | Sungwa and Timbiri beds; Chiwondo and Chitimwe | Pebbly sandstones, conglomerates, marls, sand and gravels | Probably permeable |
| W | Cretaceous to Jurassic | Dinosaur beds; Lupata series | Sandstones, shales and marls | Locally permeable |
| 4 | 4 Jurassic | Stormberg basalt and Karro series | Sandstones, conglomerates and shales with coal seams; some basalt layas in the south | Locally permeable |
| 3 | Palaeozoic to Precambrian | Basement complex | Gneisses and granulites with granite and syenite intrusions. | Low permeability |

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表4.1 土地利用状況(1983年)

| お野地区 26,930 1,249 1,628 89 116 4,134 2,057 17,6 Chitipa 4,290 23 137 11 16 786 219 3,0 Karong 3,355 3 202 14 12 399 90 2,6 Nkhata bay 4,088 98 270 15 12 0 1,304 2,3 Rumphi 4,767 301 170 9 14 2,545 6 1,7 Mzimba 10,430 824 849 40 62 404 438 7,8 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,0 Kasungu 7,878 1,609 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | | 1.764171170 | | | | | | (Km2). | |
|--|------------|-------------|-------|--|-----|------|--|--------|--------|
| 大き野地区 26,930 1,249 1,628 89 116 4,134 2,057 17,6 Chitipa 4,290 23 137 11 16 786 219 3,0 Karong 3,355 3 202 14 12 399 90 2,6 Nkhata bay 4,088 98 270 15 12 0 1,304 2,3 Rumphi 4,767 301 170 9 14 2,545 6 1,7 Mzimba 10,430 824 849 40 62 404 438 7,8 | District 名 | 合計土地 | 農耕地 | <u> </u> | 村落 | | 国立公園 | 森林 | その他* |
| 大き野地区 26,930 1,249 1,628 89 116 4,134 2,057 17,6 Chitipa 4,290 23 137 11 16 786 219 3,0 Karong 3,355 3 202 14 12 399 90 2,6 Nkhata bay 4,088 98 270 15 12 0 1,304 2,3 Rumphi 4,767 301 170 9 14 2,545 6 1,7 Mzimba 10,430 824 849 40 62 404 438 7,8 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,00 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 1,000 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 mshk 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Chiradzulu 767 38 301 25 8 0 11 3 Slantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | | 面積 | エステート | 小農耕作地 | | ストラク | | 保護区 | |
| Chitipa 4,290 23 137 11 16 786 219 3,0 Karong 3,355 3 202 14 12 399 90 2,6 Nkhata bay 4,088 98 270 15 12 0 1,304 2,3 Rumphi 4,767 301 170 9 14 2,545 6 1,7 Mzimba 10,430 824 849 40 62 404 438 7,8 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,0 Kasungu 7,878 1,609 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,356 663 698 20 25 0 192 1,7 Mc | | | | | | チャー | | | |
| Karong 3,355 3 202 14 12 399 90 2,6 Nkhata bay 4,088 98 270 15 12 0 1,304 2,3 Rumphi 4,767 301 170 9 14 2,545 6 1,7 Mzimba 10,430 824 849 40 62 404 438 7,8 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,0 Kasungu 7,878 1,809 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Mchinji 3,456 415 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 36 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | 北部地区 | ,26,930 | 1,249 | | | | AND DESCRIPTION OF THE PERSON | | 17,857 |
| Nkhata bay 4,088 98 270 15 12 0 1,304 2,3 Rumphi 4,767 301 170 9 14 2,545 6 1,7 Mzimba 10,430 824 849 40 62 404 438 7,8 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,0 Kasungu 7,878 1,609 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 33 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Chitipa | 4,290 | | | | | | | 3,098 |
| Rumphi 4,767 301 170 9 14 2,545 6 1,7 Mzimba 10,430 824 849 40 62 404 438 7,8 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,0 Kasungu 7,878 1,609 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 33 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Karong | 3,355 | • | and the second s | | | and the second s | | 2,635 |
| Mzimba 10,430 824 849 40 62 404 438 7,8 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,0 Kasungu 7,878 1,609 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 36 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Nkhata bay | 4,088 | 98 | | | | | - | 2,389 |
| 中央部地区 35,592 3,522 7,049 331 245 4,118 2,272 18,0 Kasungu 7,878 1,609 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 </td <td>Rumphi</td> <td>4,767</td> <td>301</td> <td>170</td> <td>9</td> <td></td> <td></td> <td></td> <td>1,722</td> | Rumphi | 4,767 | 301 | 170 | 9 | | | | 1,722 |
| Kasungu 7,878 1,609 1,070 20 29 2,316 0 2,8 Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 | Mzimba | 10,430 | 824 | | | | | | 7,813 |
| Nkhotakota 4,259 329 213 13 17 1,802 0 1,8 Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | 中央部地区 | 35,592 | 3,522 | | | | | | 18,055 |
| Ntchisi 1,655 65 410 8 10 0 97 1,0 Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,2 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 耐影地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 36 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Kasungu | 7,878 | 1,609 | 1,070 | 20 | 29 | 2,316 | 0 | 2,834 |
| Dowa 2,988 172 1,045 27 27 0 43 1,7 Salima 2,239 235 300 18 22 0 340 1,23 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,70 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 mmbbb 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 | Nkhotakota | 4,259 | 329 | | 13 | | 1,802 | | 1,886 |
| Salima 2,239 235 300 18 22 0 340 1,25 Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,824 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 所形地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 | Ntchisi | 1,655 | 65 | 410 | | | 0 | | 1,065 |
| Lilongwe 6,159 214 1,894 126 49 0 1,161 2,7 Mchinji 3,356 663 698 20 22 0 192 1,7 Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 38 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Dowa | 2,988 | 172 | 1,045 | 27 | 27 | 0 | 43 | 1,727 |
| Mchinji 3,356 663 698 20 22 0 192 1,70 Dedza 3,624 152 807 50 36 0 300 2,20 Ntheu 3,424 83 612 49 33 0 138 2,50 中野地区 31,752 1,539 5,156 465 195 2,661 2,909 18,80 Mangochi 6,272 433 703 44 34 94 1,412 3,55 Machinga 5,964 385 717 66 35 548 295 3,90 Zomba 2,580 103 705 50 15 0 146 1,50 Chiradzulu 767 38 301 25 8 0 11 36 Chiradzulu 767 38 301 25 8 0 11 36 Nwanza 2,295 55 115 13 13 245 82 1,70 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,90 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Salima | 2,239 | 235 | · · | 18 | 22 | . 0 | | 1,281 |
| Dedza 3,624 152 807 50 36 0 300 2,2 Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Lilongwe | 6,159 | 214 | 1,894 | 126 | 49 | 0 | • | 2,714 |
| Ntheu 3,424 83 612 49 33 0 138 2,5 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 <th< td=""><td>Mchinji</td><td>3,356</td><td>663</td><td>698</td><td>20</td><td>22</td><td>0</td><td>192</td><td>1,761</td></th<> | Mchinji | 3,356 | 663 | 698 | 20 | 22 | 0 | 192 | 1,761 |
| 南部地区 31,752 1,539 5,156 465 195 2,661 2,909 18,8 Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 38 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Dedza | 3,624 | 152 | 807 | 50 | 36 | 0 | 300 | 2,279 |
| Mangochi 6,272 433 703 44 34 94 1,412 3,5 Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Ntheu | 3,424 | 83 | | 49 | 33 | | | 2,508 |
| Machinga 5,964 385 717 66 35 548 295 3,9 Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | 南部地区 | 31,752 | 1,539 | 5,156 | 465 | 195 | 2,661 | | 18,827 |
| Zomba 2,580 103 705 50 15 0 146 1,5 Chiradzulu 767 38 301 25 8 0 11 3 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Mangochi | 6,272 | 433 | 703 | 44 | 34 | 94 | 1,412 | 3,552 |
| Chiradzulu 767 38 301 25 8 0 11 33 Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Machinga | 5,964 | 385 | 717 | 66 | 35 | 548 | 295 | 3,917 |
| Blantyre 2,012 39 302 118 23 0 64 1,4 Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Zomba | 2,580 | 103 | 705 | 50 | 15 | 0 | 146 | 1,561 |
| Mwanza 2,295 55 115 13 13 245 82 1,7 Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 1.5 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Chiradzulu | 767 | 38 | 301 | 25 | 8 | 0 | 11 | 384 |
| Thyolo 1,715 163 522 41 14 0 59 9 Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Blantyre | 2,012 | 39 | 302 | 118 | . 23 | 0 | 64 | 1,466 |
| Mulanje 3,450 42 834 64 1.5 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Mwanza | 2,295 | 55 | 115 | 13 | 13 | 245 | 82 | 1,772 |
| Mulanje 3,450 42 834 64 15 0 578 1,9 Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | Thvolo | 1,715 | 163 | 522 | 41 | 14 | 0 | 59 | 916 |
| Chikwawa 4,755 280 619 27 22 1,426 0 2,3 | - · | - | | | 64 | 1.5 | 0 | 578 | 1,917 |
| | | | | 619 | _ | 22 | 1,426 | 0 | 2,381 |
| NSAME 1,342 U 330 II 10 346 202 3 | Nsanje | 1,942 | 0 | 338 | 17 | 16 | 348 | 262 | 961 |
| | | | | | | | 10,913 | 7,238 | 54,531 |
| | | | | | | | | | 57:8 |

* 不毛地, 湿地、荒れ地、急峻地等

Data sources: National physical development plan vol-l

| プロジェクト名 | 位 置 | 実行主体 | 建設時期 湛紅 | 面積 | 建设资金源 | 偏考 |
|--------------------------------------|------------|---|--------------|--------|--|--|
| (政府援助型プロジェ | .クト) | | | | | |
| Lufira Irrigation Scheme | Karonga | - Karonga RDP | 1972 - 76 | 307 ha | - IBRP | - Gravity irrigation from Lifira river - Headworks was damaged |
| | | <i>2</i> | | | • | in 1985 - Main canal (partly lines) |
| | | | | | | 1.5 km - Silting headworks |
| 2) Wovwe Irrigation Scheme | Karonga | - Irrigation Dept. | 1970 - 71,83 | 170 ha | - British Aid, Chinese Mission | - Gravity irrigation from Waywe river - Including 35 ha |
| | | | | | | self-help extension Silting of main canal and headworks |
| 3) Hara Irrigation Scheme | Karonga | - Irrigation Dept. | 1968 - 70 | 235 ha | - British Aid | - Gravity irrigation from Hara river |
| | | | | | . * | - Main canal, 1.0 km - Encroschment by Chonanga river |
| 4) Limphasa Irrigation Scheme | Nkhata Bay | - Irrigation Dept. - Chinese Mission | 1969 - 74 | 250 ha | - British Aid, Chinese Mission | Gravity irrigation from Limphasa river Main canal, 5 km |
| | : | | | ٠ | | Headworks was broken in 1983 |
| 5) Bua Irrigation Scheme | Nkhotakota | - Chinese Mission | 1975 - 80 | 220 ha | · Chinese Mission | Temporary headworks in Bua river Main canal, 5.5 km |
| | | | | | | - Problems of water supply |
| 6) Mpamantha Irrigation Scheme | Nkhotakota | - Chinese Mission - Chamwavi Group - MYP Seuler Farmers | 1969 - 71 | 55 ha | - Chinese Mission | Dam and headworks on the Mbambara river Main canal Minor slips of dam |
| 7) Lifuwu Irrigation Scheme | Salima. | - Department of Agricultural Research | 1970 | 21 ha | - Germany - Dept. of Agri- cultural Research | - Pumping from Lake |
| 8) Domasi Irrigation Scheme | Zomba | - Irrigation Dept. | 1972 - 75 | 460 ha | - Chinese Mission | Gravity irrigation from Domasi river |
| • | | | | | | Main canal (lined) 5.D km Flood at upstream of headworks |
| 9) Khanda Irrigation Scheme | Zomba | Irrigation Dept. | 1970 - 72 | 68 ha | British Aid | Gravity irrigation from Naisi river The gate leaf at headwork |
| | | | | - | | is badly corroded - Sandy soils in places |
| 0) Njala Irrigation Scheme | Zomba | Chinese Mission | 1968 - 69 | 70 ha | Chinese Mission | Gravity irrigation from Likangala river and Nakombe river |
| Likangala Irrigation Scheme | Zomba | Irrigation Dept. | 1969 - 72 | 350 ha | British Aid | - Gravity irrigation from Likangala river - Poor drainage system |

(出典) Irrigation Department of MOA

表ー4.2(2/2) マラウィ既存遊漑地区概況

| | プロジェクト名 | 位 位 | 実行主体 | 垃圾時期 迤 | 张而接 | 建投資金源 | 仰 考 |
|-----|--|----------------|--------------------------------------|------------------------|---------|---|--|
| 12) | Nkhate Imigation Scheme | Lower Shire | Chinese Mission | 1979 - 80 and 1985 | 243 ha | Chinese Mission | - Gravity irrigation from Nkhate river - High soil permeability |
| 13) | Kasinthula Irrigation Scheme | Lower Shire | Ngabu ADD | 1969 - 71 | 162 ha | Malawi Develop- ment Corporation, Dept. of Agricultural Research | Pump irrigation from Shire river Scorning of the river bank at the pumping station |
| 14) | Muona Irrigation Scheme | Lower Shire | Chinese Mission | 1969 - 72 | 300 ha | Chinese Mission | Gravity irrigation from Tangadzi East river Sedimentation in the main canal |
| (| 自助努力灌漑プロ: | ジェクト) | | | | | |
| 1) | Nchenschena Self-helf scheme | Ramphi | MOA, Smallholder Coffer Authority | 1980 - 85 | 35 ha | МОА | Gravity irrigation from Nchenachena river |
| 2) | Chipakasi Irrigation Scheme | Chintheche | EEC, Irrigation Dept. | 1984 - 85 | 30 ha | ·EC | - Gravity irrigation from Chipakasi river |
| 3) | Mtandamula Self-help Scheme | Salima | Irrigation Dept. Salima ADD | 1987 - 88 | 230 ha | EC | - Gravity irrigation from Namkokue river |
|) | Ngolowindo Self-help Irrigation Scheme | Salima | trrigation Dept. | 1983 - 85 1986 - 88 | 15 ha | EC | - Pump irrigation from the ground water |
| 5) | Lifuliza Irrigation Scheme | Nkhotakota | Irrigation Dept., Salima ADD | 1989 | 41 ha | EC | - Gravity irrigation |
| 5) | Kasitu Self-help Irrigation Scheme | Nkhotakota | Salima ADD | 1986, 1988 | 56 ha | Salima ADD | - Gravity irrigation from Kasitu river |
| j) | Zumulu/Chibwana Irrigation Scheme | Liwonde | Irrigation Dept. | 1985 - 88 | 30 ha . | GTZ | - Gravity irrigation |
| 8) | Nkhulambe Self-help Irrigation Scheme | Nkhulambe | Irrigation Dept. | 1979 | 102 ha | EC | - Gravity irrigation." |

(出典) Irrigation Department of MOA

表-4.3 小規模農業に関する作物栽培面積

| | • | | | 100 | | | | | (単位:ha) |
|------------|-----------|-----------|-----------|----------------|------------|------------|-----------|-----------|-----------|
| Crop | 1982/83 | 1983/84 | 1984/85 | 1985/96 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 |
| Maize | 1,169,402 | 1,173,634 | 1,145,102 | 1,193,275 | 1,182,415 | 1,215,087 | 1,270,822 | 1,343,784 | 1,391,878 |
| Local | 1,105,402 | 1,067,527 | 1,048,441 | 1,104,583 | 1.131,540 | 1,137,499 | 1,159,985 | 1,184,036 | 1,193,642 |
| Composite | _ | 26,069 | 21,477 | 20,100 | 13,780 | 18,698 | 25,072 | 24,725 | 18,878 |
| Hybrid | | 89,005 | 74,935 | 68,592 | 37,095 | 58,890 | 85,765 | 135,023 | 179,358 |
| Rice | 204 | 21,917 | 20,807 | 22,874 | 19,076 | 22,658 | 25,573 | 29,042 | 32,841 |
| Local | 28,686 | 3,450 | 2,912 | 3,640 | 2,190 | 2,760 | 3,496 | 3,462 | 4,135. |
| Faya | 14.335 | 14,869 | 14,204 | 15,702 | 13,477 | 16,142 | 18,123 | 21,740 | 24,851 |
| B. bonnet | 3,288 | 3,598 | 3,691 | 3,532 | 2,409 | 3,756 | 2,776 | 1,096 | 262 |
| IET 4094 | 0 | 0 | 0 | 0 | 0 | 0 | 1,178 | 2,144 | 3,593 |
| Groundnuts | 146,314 | 144,935 | 135,966 | 176,293 | 209,938 | 175,819 | 139,691 | 48,185 | 69,978 |
| Chaliebana | 143,606 | 141,406 | 131,547 | 166,759 | 198,957 | 164,607 | 69,236 | 30,079 | 37,290 |
| Chitenbana | 0 | 0 | 0 | 1,149 | 4,788 | 3,307 | 165 | 10 | 0 |
| Manipinter | - | _ | | _ | : • | - | 2,075 | 908 | 1,076 |
| Malinba | | - | - | • | · - | <u>-</u> , | 2,191 | 2,203 | 2,885 |
| Mawanga | 0 | 0 | 0 | 566 | 2,226 | 2,617 | 2,559 | 1,605 | 1,905 |
| Tobacco | 27,587 | 44,999 | 46,939 | 38,045 | 33,170 | 24,095 | 21,446 | 30,823 | 33,167 |
| Nddf | 22,990 | 36,197 | 35,332 | 29,422 | 27,567 | 20,186 | 16,719 | 24,408 | 26,700 |
| Sddf | 2,154 | 2,768 | 4,117 | 3,408 | 1,718 | 1,693 | 1,175 | 957 | |
| Sun-air | 2 443 | 5,328 | 6,309 | 4,942 | 3,633 | 1,833 | 2,639 | 4,662 | 3,720 |
| Oriental | 0 | 706 | 681 | 273 | 225 | 354 | 903 | 610 | |
| Burley | - | • | | • 1 | 27 | 29 | 167 | 186 | 1,003 |
| Cotton | 32,597 | 51,059 | 60,824 | 51,910 | 34,504 | 43,642 | 47,741 | 48,516 | 53,691 |
| Wheat | 2.103 | 1,980 | 1,126 | 1,513 | 2,525 | 2,593 | 2,211 | 2,119 | 1,494 |
| Sorghum | 22,649 | 21,302 | 32,725 | 32,059 | 30,626 | 30,099 | 29,328 | 30,814 | 31,035 |
| Millet | 10.870 | 15,340 | 17,413 | 17,424 | 18,163 | 19,439 | 17,916 | 19,583 | 14,979 |
| Pulses | 82,932 | 91,322 | 79,971 | 113,663 | 152,076 | 160,040 | 149,088 | 215,301 | 190,977 |
| Beans | - | - | • | 71,329 | .86,626 | 91,345 | 93,506 | 96,499 | 116,268 |
| Peas | - | - | • | 37,977 | 60,612 | 2,256 | 48,380 | 113,941 | 69,314 |
| Grams | - ' | - | • . | 4,357 | 4,838 | 6,439 | 7,202 | 4,361 | 5,465 |
| Soya Beans | • | . • | | . - | • - | 760 | 1,671 | 5,901 | 16,255 |

表-4.4 小規模農業に関する作物生産量

| Стор | 1982/83 | 1983/84 | 1984/85 | 1985/96 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|-----------|
| Стор | 1702/03 | 1505/04 | 170 1703 | | | | | | |
| Maize | 1,369,403 | 1,397,948 | 1,355,202 | 1,294,564 | 1,201,757 | 1,423 | 1,509,513 | 1,342,809 | 1,589,377 |
| Local | - | 1,106,832 | 1,084,592 | 1,058,080 | 1,078,860 | 1,244,351 | 1,220,565 | 963,171 | 1,041,031 |
| Composite | · | 46,575 | 37,490 | 34,755 | 22,531 | 22,420 | 44,123 | 34,616 | 26,743 |
| Hybrid | -, | 245,391 | 233,123 | 210,729 | 100,366 | 157,077 | 244,825 | 345,022 | 521,603 |
| 9 1 | 25.948 | 34,886 | 34,265 | 37,407 | 28,432 | 32,311 | 45,690 | 43,280 | 57,925 |
| Rice | 23,340 | 5,892 | 4.295 | 5,733 | 2,450 | 3,361 | 4,488 | 3.342 | 5,385 |
| Local | • | 19,092 | 20,365 | 21,772 | 16,156 | 18,232 | 27,200 | 24,241 | 37,829 |
| Faya | | 9,902 | 9,642 | 9,902 | 9,826 | 10,718 | 8,396 | 3,699 | 557 |
| B. bonnet | • | 9,902 | 3,042 | 9,902 | 9,020 | 0,710 | 5,606 | 9,298 | 14,154 |
| IET 4094 | • | V | U | U | v | U | 3,000 | 9 ₁ 230 | 149174 |
| Groundnuts | 53,991 | 54,766 | 62,240 | 88,297 | 88,073 | 76,754 | 34,752 | 18,574 | 30,880 |
| Chaliebana | - | 50,723 | 59,481 | 82,092 | 82,774 | 70,824 | 18,012 | 12,288 | 17,418 |
| Chitenbana | | - | - | 716 | 2,056 | 1,825 | 69 | 5 | C |
| Manipinter | - | | | - | - | - | 820 | 492 | 650 |
| Malinba | - | - | _ | _ | - | - | 806 | 755 | 1,264 |
| Mawanga | • | 7 | - | 543 | 1,495 | 1,980 | 1,671 | 825 | 1,382 |
| Tobacco | 12,369 | 19,545 | 20,505 | 16,117 | 13,650 | 9,238 | 7,934 | 1,400 | 18,321 |
| Nddf | 12,309 | 15,500 | 16,182 | 13,178 | 11,870 | 7,631 | 6,279 | 10,966 | 14,457 |
| Sddf | - | 1,600 | 2,000 | 1,279 | 625 | 792 | 509 | 403 | 367 |
| - 5 - | - | 2,050 | 2,133 | 1,563 | 1,002 | 523 | 517 | 2 022 | 1,862 |
| Sun-air Oriental | - | 395 | 2,000 | 97 | 99 | 178 | 367 | 285 | 420 |
| Burley | | 393 | 2,000 | | 54 | 64 | 261 | 324 | 1,215 |
| . • | | | | | | | | | |
| Cotton | 13,134 | 32,600 | 46,106 | 36,235 | 20,957 | 29,286 | 35,106 | 33,026 | 42,800 |
| Wheat | - | 1,644 | 787 | 1,287 | 1,669 | 1,869 | 1,481 | 1,639 | 877 |
| Sorghum | 6,832 | 14,271 | 22,041 | 20,761 | 14,542 | 21,776 | 20,050 | 15,452 | 18,557 |
| Millet | 1,621 | 8,316 | 10,580 | 9,526 | 8,666 | 11,841 | 11,183 | 10,113 | 7,766 |
| Pulses | 18.026 | 29,479 | 28,132 | 39,099 | 56,803 | 58,157 | 50,390 | 71,385 | 68,514 |
| Beans | | · - | · - | 22,545 | 28,725 | 28,071 | 27,522 | 27,638 | 38,755 |
| Peas | ,- | | | 14,933 | 26,311 | 27,237 | 19,762 | 42,814 | 28,808 |
| Grams | • | - | - | 1,621 | 1,767 | 2,849 | 3,106 | 1,945 | 2,008 |
| Soya Beans | _ | | | | _ | 311 | 836 | 3,284 | 13,020 |
| Ground Bean | _ | _ | | | | 109 | 417 | 411 | 382 |
| Guar Beand | | 2,850 | 3,600 | 2,300 | 1,680 | 3,150 | 3,300 | 1.676 | 4,861 |
| Cashew | _ | 40 | 50 | 58 | 67 | 107 | 89 | 7,465 | 11,723 |
| Macadamia | _ | . 40 | - | | Ő | 0 | 3 | 0 | |
| Sesame | - | 18 | 19 | 27 | 34 | 139 | 154 | 143 | 215 |
| | • | | 1,544 | 1,705 | 1,182 | 1,456 | 2,192 | 1,703 | 5,211 |
| Sunflower | - | 1,270 | • | • | • | 1,436 | ERR | 1,703 | ERR |
| Castor | - | 2 | 95 | 106 | 144 8 | | | 107 | EKR |
| Coffee | - | - | | | | 0 | 5 | - | 834 |
| Chillies | - | | | - | 278 | 331 | 615 | 1,020 | |
| Cassava | 143,686 | 258,693 | 209,321 | 218,282 | 169,403 | 134,785 | 154,762 | 144,760 | 167,818 |
| S. Potatoes | . • | 59,926 | 81,047 | 80,003 | 121,195 | 101,974 | 177,424 | 94,911 | 176,999 |
| I. Potatoes | - | - | - | _ | 13,180 | 11,400 | 11.979 | 34,200 | 39,969 |

表-4.5 小規模農業による作物別、品種別収量

| | | | | ÷ | | | | (単位 | Z . kg/ha) |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|------------|
| Crop | 1982/83 | 1983/84 | 1984/85 | 1985/96 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 |
| Maize | 1,171 | 1,191 | 1,183 | 1,085 | 1,016 | 1,172 | 1,188 | 999 | 1,142 |
| Local | 2,2,2 | 1,037 | 1.034 | 958 | 953 | 1,094 | 1,052 | 813 | 872 |
| Composite | _ | 1,787 | 1,746 | 1,729 | 1,635 | 1,199 | 1,760 | 1,400 | 1,417 |
| Hybrid | | 2,757 | 3,111 | 2,941 | 2,706 | 2,667 | 2,855 | 2,555 | 2,908 |
| Rice | 1,278 | 1,592 | 1,647 | 1,635 | 1,490 | 1,426 | 1,787 | 1,490 | 1,764 |
| Local | 0 | 1,708 | 1,475 | 1,575 | 1,119 | 1,218 | 1,284 | 965 | 1,302 |
| Faya | ő. | 1,234 | 1,434 | 1,387 | 1,199 | 1,129 | 1,501 | 1,115 | 1,522 |
| B. bonnet | Ů. | 2,752 | 2,612 | 2,804 | 2,882 | 2,854 | 3,024 | 3,375 | 2,126 |
| IET 4094 | | 2,752 | - 2,012 | - | - | - | 4,759 | 4,337 | 3,939 |
| Groundnuts | 369 | 378 | 458 | 501 | 420 | 437 | 249 | 385 | .441 |
| Chaliebana | ő | 359 | 452 | 492 | 416 | 430 | 260 | 409 | 467 |
| Chitenbana | _ | | | 623 | 429 | 479 | 413 | 500 | N/A |
| Manipinter | | | | 025 | | | 395 | 542 | 604 |
| Malinba | • | | - | | | | 368 | 343 | .438 |
| Mawanga | | - | • | 959 | 672 | 757 | 655 | 514 | 725 |
| Tobacco | 448 | 434 | 437 | 424 | 412 | 383 | 370 | 454 | 552 |
| Nddf | Ö | 428 | 452 | 448 | 431 | 381 | 376 | 449 | 541 |
| Sddf | ŏ | 578 | 486 | 375 | 364 | 468 | 433 | 421 | 439 |
| Sun-air | ŏ | 385 | 338 | 316 | 276 | 285 | 196 | 434 | 501 |
| Oriental | _ | 559 | 2,937 | 355 | 440 | 503 | 406 | ¹ 467 | 465 |
| Burley | - | | 2,55. | | 2,000 | 2,207 | 1,563 | 1,742 | 1,204 |
| Cotton | 403 | 638 | 758 | 698 | 607 | 671 | 735 | 681 | 729 |
| Wheat | 0 | 830 | 699 | 851 | 661 | 721 | 670 | 773 | 587 |
| Sorghum | 302 | 670 | 674 | 648 | 475 | 723 | 672 | 501 | 598 |
| Millet | 149 | 542 | 608 | 547 | 477 | 609 | 624 | 516 | 518 |
| Pulses | 217 | 323 | 352 | 344 | 374 | 363 | 338 | 332 | 359 |
| Beans | | - | • | 316 | 332 | 307 | 294 | 286 | 333 |
| Peas | | | - | 393 | 434 | 438 | 408 | 376 | 413 |
| Grams | - | . • | • | 372 | 365 | 442 | 431 | 400 | 367 |
| Soya Beans | - | _ | - | | | 409 | 500 | 557 | 801 |

表-4.6 タバコ栽培面積/生産量/収量

| | | | Est | ates | | |
|------|----------------|---------------------|---------------------------------|----------------|---------------------|---------------------------------|
| | 4 | Flue-Cured | | | Burley | |
| Year | Hectarage (ha) | Production (ton) | Yield per Hectare (kg/ha) | Hectarage (ha) | Production (ton) | Yield per Hectare (kg/ha) |
| 1980 | 18,721 | 26,300,872 | 1,404 | 13,802 | 16,685,750 | 1,209 |
| 1981 | 14,892 | 19,714,191 | 1,324 | 15,989 | 18,803,533 | 1,176 |
| 1982 | 13,921 | 22,103,329 | 1,418 | 23,309 | 27,601,972 | 1,154 |
| 1983 | 13,745 | 21,658,721 | 1,576 | 39,389 | 41,537,061 | 1,055 |
| 1984 | 26,946 | 24,912,040 | 1,637 | 26,946 | 29,979,131 | 1,113 |
| 1985 | 16.196 | 22,281,477 | 1,376 | 31,503 | 30,372,074 | 964 |
| 1986 | 15,927 | 21,033,583 | 1.321 | 28,240 | 30,189,762 | 1,069 |
| 1987 | 16,795 | 24,463,803 | 1,457 | 34,524 | 36,789,141 | 1,066 |
| 1988 | 16,774 | 20,742,710 | 1,236 | 51,898 | 45,544,118 | 878 |
| 1989 | 14,616 | 20,000,000 | 1,194 | 54,651 | 61,212,340 | 876 |
| 1990 | 18,924 | 21,819,093 | 1,158 | 55,645 | 64,019,363 | 1,150 |

| | | | | . (| ustomary Lar | ıd | | | |
|------|-------------------|------------------|---------------------------------|-------------------|---------------------|---------------------------------|-------------------|---------------------|---------------------------------|
| | | Fire-Cured | | | Sun/Air-Cured | 1 | | Sun/Air-Cure | j |
| Year | Hectarage (ha) | Production (ton) | Yield per Hectare (kg/ha) | Hectarage (ha) | Production (ton) | Yield per Hectare (kg/ha) | Hectarage (ha) | Production (ton) | Yield per Hectare (kg/ha) |
| 1980 | 25,537 | 9,456,560 | 370 | 4,413 | 1,343,523 | 304 | 335 | 334,700 | 437 |
| 1981 | 27,501 | 10,824,890 | 393 | 4,503 | 1,329,708 | 295 | 558 | 558,457 | 235 |
| 1982 | 22,676 | 7,124,819 | 314 | 4,362 | 1,818,624 | 271 | 615 | 614,600 | 235 |
| 1983 | 40,764 | 8,383,945 | 206 | 4,223 | 663,636 | 157 | N/A | N/A | N/A |
| 1984 | 34,502 | 16,165,100 | 469 | 8,033 | 1,938,932 | 241 | 334 | 334,069 | 97 |
| 1985 | 45,891 | 18,679,800 | 407 | 7,090 | 1,869,600 | 264 | 176 | 128,918 | 148 |
| 1986 | 44,786 | 11,362,191 | 254 | 4,985 | 954,056 | - 191 | 273 | 121,494 | 445 |
| 1987 | 40,870 | 10,056,432 | 246 | 4,847 | 980,903 | 188 | 750 | 96,609 | 129 |
| 1988 | 29,332 | 7,987,248 | 366 | 2,876 | 559,675 | 305 | 336 | 163,019 | 485 |
| 1989 | 27,762 | 4,715,000 | 428 | 2,639 | 371,981 | 141 | 748 | 300,000 | 401 |
| 1990 | • | 14,000,665 | - | 4,662 | 1,395,988 | 299 | 903 | • | - |
| 1990 | • | 14,000,665 | • | 4,662 | 1,395,988 | 299 | 903 | | • |

⁽出典) Crop Production Estimate by MOA

表-4.7 砂糖栽培面積/生産/収量

| Year | Hectarage (ha) | Production (MTRV) | Yield (t/ha) | Exports (ton) | Value (K '000) |
|------|----------------|----------------------|-----------------|---------------|-------------------|
| | . : | | | | |
| 1980 | 9,093 | 107,628 | 11.8 | 91,092 | 34,681 |
| 1981 | 13,851 | 147,114 | 10.6 | 121,901 | 57,007 |
| 1982 | 14,945 | 166,643 | 11.1 | 77,131 | 24,255 |
| 1983 | 14,183 | 171,794 | 12.1 | 88,548 | 27,052 |
| 1984 | 14,457 | 175,291 | 12.1 | 76,589 | 28,916 |
| 1985 | 14,056 | 149,714 | 10.7 | 89,312 | 44,420 |
| 1986 | 13,829 | 143,818 | 10.4 | 93,578 | 39,926 |
| 1987 | 14,073 | 163,805 | 11.6 | 91,727 | .63,461 |
| 1988 | 14,598 | 174,472 | 12 | 96,898 | 73,178 |
| 1989 | - | 162,258 | | 53,096 | 65,266 |
| 1990 | - | 189,261 | | 60.193 | 76,925 |

Note: These figures are for estates. Source: Nchalo and Dwangwa Sugar Corporations.

表-4.8 エステート紅茶栽培面積/生産/収量

| | - 7 | Production | Yield | Quantity | Value (K '000) |
|------|----------------|------------|--------|------------|-------------------|
| Year | Hectarage (ha) | ('000 kgs) | (t/ha) | ('000 kgs) | (12,000) |
| 1980 | 18,183 | 29,915 | 1.6 | 31,347 | 29,826 |
| 1981 | 18,424 | 31,964 | 1.7 | 31,527 | 31,108 |
| 1982 | 18,115 | 38,482 | 2.1 | .37,264 | 46,109 |
| 1983 | 18,500 | 32,010 | 1.7 | 35,833 | 55,866 |
| 1984 | 18,635 | 37,530 | 2 | 37,080 | 113,926 |
| 1985 | 18,625 | 39,954 | 2.1 | 38,521 | 97,090 |
| 1986 | 18,357 | 38,973 | 2.1 | 40,211 | 68,450 |
| 1987 | 18,356 | 31,908 | 1.7 | 33,404 | 60,990 |
| 1988 | 17,507 | 40,157 | 2.3 | 36,991 | 78,507 |
| 1989 | 18,197 | 39,469 | 2.2 | 38,323 | 101,134 |
| 1990 | 18,707 | 38,921 | 2.1 | 43,039 | 127,432 |

Note:

1. Hectarage refers to mature land only.

2. Figures refer to calendar year.

Source: The TeaAssociation (Central Africa) Ltd. and

Monthly Statistical Bulletin, NSO.

表-4.9 エステートコーヒー栽培面積/生産/収量

| Year | Net Tons | Hectares | kg/ha |
|---------|----------|----------|-------|
| -000104 | 4 1.54 | 410 | 004 |
| 1980/81 | 117 | 412 | 284 |
| 1981/82 | 135 | 493 | 274 |
| 1982/83 | 110 | 613 . | 179 |
| 1983/84 | 156 | 733 | 198 |
| 1984/85 | 194 | 1,075 | 180 |
| 1985/86 | 268 | 1,299 | 206 |
| 1986/87 | 180 | 1,518 | 119 |
| 1987/88 | 405 | 1,639 | 247 |
| 1988/89 | 403 | 1,826 | 221 |
| 1989/90 | 350 | 1,954 | 179 |

表 4.10 品目別ADMARC 購入額

| | | | - | | | | | | | | | | | | | | (年位 | せこクワ | トト) |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|
| | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1861 | 1982 | 1983 | 1984 | 1985 | 1986 | . 1987 | 1988 | 6861 | 19861 |
| | | | | | | | | | * : | | | | | - | | | | | |
| Total | 15.60 | 14.20 | 17.18 | 17.02 | 23.18 | 25.46 | 29.95 | 27.81 | 29.73 | 27.76 | 41.70 | 45.18 | 72.75 | 87.86 | 88 | 76.99 | 85.89 | 94.60 | 142.22 |
| Торассо | 4.61 | 4.37 | 3.42 | 4.44 | 8.9 | 9.13 | 11.27 | 8.01 | 4.79 | 5.42 | 4.43 | 8.87 | 15.62 | 20.02 | 15.97 | 18.59 | 10.46 | 9.70 | 41.19 |
| Groundnut (Shelled) | 4.33 | 3.69 | 4.54 | 5.22 | 5.58 | 3.38 | 2.23 | 7.33 | 66.6 | 5.98 | 3.41 | 3.8 | 5.70 | 12.38 | 38.60 | 32.70 | 10.37 | 0.40 | 4.09 |
| Seed Cotton | 8. | 6. | 3.41 | 2.88 | 3.02 | 4.27 | 5.16 | 4.89 | 5.04 | 4.65 | 3.98 | 4.36 | 12.57 | 14.21 | 10.02 | 11.21 | 15,22 | 20.00 | 24.81 |
| Rice | 1.44 | 1.27 | 1.57 | 1.26 | 2.42 | 2.35 | 3.03 | 2.03 | 1.77 | 1.47 | 1.37 | 1.8 | 1.53 | 1.33 | 2,34 | 1.70 | 1.49 | 3.00 | 2.80 |
| Maize | 1.98 | 2.22 | 2.87 | 2.25 | 3.54 | 4:86 | 6.28 | 4.27 | 90.9 | 9.06 | 27.29 | 27.12 | 35.57 | 33.23 | 13.76 | 8.71 | 22.33 | 58.40 | 58.46 |
| Pulses | 0.89 | 0.36 | 0.62 | 0.51 | 8 | 0.88 | 1.23 | 0.80 | 1.28 | 98.0 | 0.73 | 0.48 | 1.02 | 5.22 | 2,8 | 3.75 | 3.72 | 1.98 | 7.57 |
| Other *1 | 0.35 | 0.35 | 0.75 | 0.46 | 0.70 | 0.61 | 0.77 | 0.49 | 0.91 | 0.31 | 0.49 | 0.29 | 0.45 | 0.24 | 0.53 | 0.35 | 0.79 | 0.00 | 330 |
| | | | | | | | ÷ | | | | | | | | | | | | |
| | | | | | | | | | - | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Source: NBS, Malawi - Monthly Statistical Bulletin, Economic Report 1989 and Official Sources.

*1: Mainly sunflower seed, coffee, cassava and other miscellaneous produce.

表4.11 品目別ADMARC購入額

| (+ h | 1990 | 279 10 | 16.70 | , | 4.40 | 3,96 | 7.92 | 200.68 | 14.27 | 2.91 |
|--------|------|---------|--------|------|---------------------|-------------|-------|--------|--------|-------------|
| (単位:クワ | 1989 | 201.40 | 200 | 3 | 500 | 27.90 | 9.60 | 231.70 | 3.50 | 66.0 |
| 無 | 1988 | 03 60 | 22.0 | | 15.57 | 25.72 | 5.18 | 135,30 | 8.55 | 2.95 |
| | 1987 | 77 371 | 101 | 2 . | 8.83 | 21.38 | 7.66 | 59.47 | 11.13 | 0.89 |
| | 1986 | 000 | 17.17 | 100 | 23.07 | 21.01 | 12.13 | 112.64 | 23.39 | 1.59 |
| | 1985 | 277.09 | 2000 | , | 18.24 | 32.71 | 10.74 | 271.37 | 17.04 | 1.87 |
| | 1984 | 97. ATE | 1018 | | 78.7 | 32.12 | 5.77 | 296.29 | 5.57 | 3.47 |
| | 1983 | 201.01 | 0.00 | 3 | 10.77 | 13.37 | 8.50 | 244.94 | 3.19 | 2.42 |
| | 1982 | 37.002 | 27.0 | | 10.43 | 14.80 | 12.54 | 246.06 | 5.79 | 8. |
| | 1981 | 215.85 | 12.75 | | 7.47 | 21.74 | 14.58 | 136.65 | 7.20 | 3.33 |
| | 1980 | 100 08 | 11 34 | | 31.42 | 23 | 17.50 | 91.80 | 10.60 | 7.10 |
| | 1979 | 180.20 | 10.56 | | 24.30 | 22.41 | 20.49 | 82.17 | 4.71 | 4.89 |
| | 1978 | 220.43 | 22.74 | } . | 11.13 | 24.22 | 30.82 | 120.52 | 10.44 | 0.47 |
| | 1977 | 105.49 | 22.12 | | × | 22.44 | 23.80 | 89.92 | 8.77 | 8.59 |
| | 1976 | 20 101 | 3 2 2 | | 32.55 | 17.88 | 24.52 | \$4.65 | 16.61 | 8 8 8 |
| | 1975 | 110.60 | 13.04 | 17:4 | 32.81 | 17.76 | 14.56 | 29.25 | 5.93 | 98'9 |
| | 1974 | 170 27 | 200 | | 28.79 | 21.40 | 20.89 | 65.47 | 7.92 | 14.31 |
| | 1973 | 70 671 | 35 | 100 | 27.72 | 16.21 | 17.28 | 65.07 | 6.52 | 4.46 |
| | 1972 | 8 001 | 103.70 | 2 | 39.27 | 22.09 | 19.8 | 65.56 | 16.02 | 4.01 |
| | | Total | Tobaco | , | Groundnut (Shelled) | Seed Cotton | Rice | Maize | Pulses | Other *1 |

Source: NBS, Malawi - Monthly Statistical Bulletin, Economic Report 1989 and Official Sources.

*1: Mainly sunflower seed, coffee, cassava and other miscellaneous produce.

表-4.12 (1/2) ADMARCによる小規模農業作物購入価格と農業資材販売価格

| | | | | | | | | | | | 1.0 |
|------------------------------------|---|---|---|---|---|---|---|-------|-------------------|-------------------|-----------------|
| | | (| | | • | | | | 1989/90 (t/kg) | 1990/91 (t/kg) | lacrease (%) |
| rop | | | | | | | | - | | | |
| alse: | •• | | •• | •• | | •• | •• | • • | 26 | 27 | 4 |
| oundnuts: (Chalimbana, Chi | itembana) | | | | | | | | | | |
| GDA 11 | •• | | •• | •• | •• | | •• | •• | 95 | 100 | 5 |
| GDB | • • • | • • • | • • | :: | • • | • | •• | | 17 | . 20 | 18 |
| (Manipinter, May | vanga, Ma | | | | | | •• | | 77 | 85 | 11 |
| Shelled Unshelled | | | ** | | | | | • • | 51 | 53 | 4 |
| (Blue Bonnet, Fa) | A. IET40 | 94) | | | | | | | | | _ |
| Grade I | •• | • • | •• | •• | •• | • • | ** | | 10 | 37 11 | 10 |
| Grade U | | •• | • •. | •• | •• | •• . | ••• | ••• | | | |
| Grade A | •• | •• | •• | •• | | •• | •• | | 81 39 | - 86 - 41 | ์ ช 3 |
| Grade B | •• | ••• | •• | •• | | •• | •• | • - | | | |
| Northern Division | n Dark-Fi | teq (MI | DF) | | | | | | | | |
| Grades Bl | | | | | | | | | 335 | 335 | |
| B2 | | | •• | •• | | • • | •• | •• | 325 275 | 325 275 | |
| G1 G2 | • • | •• | | • | •• | • | • :: | | 165 | 163 | |
| L | :: | :: | • | ., | | •• | - : : | | 145 | 145 | · |
| х | وستحتل | 1 12 . | • • • | •• | • • | •• | •• | •• | 75 | 75 | - |
| Sun/Air Cured—I | New Grad | ics. | •• | | | •• | •• | | 300 | 300 | |
| C2 | | •• | • • • | •• | | • | • • | •• | 250 | 250 | |
| GI | •• | - • | • • | ••• | • | • • | •• | | 215 175 | 215 175 | |
| G2 X | | | | • • • | :: | :: | :: | | 45 | 45 | . — |
| Southern Division | Derk-fin | ed (SDT | OF) | | | | • | | | | |
| Grade SI | •• | | | | | •• | | | 330 | 330 | - |
| S2 | | | •• | | • • | | | • • | 245 - 220 | 300 255 | 22 16 |
| T1 :: | • • | • • • | • • | | | :: | • | | 125 | 160 | 28 |
| × | • • | | •• | •• | | •• | •• | | 35. | 42 | 20 |
| Oriental Grade A | | | | | | •• | | | 327 | 343 | |
| A1 | •• | | | | | | • • | • • | 310 | 330 | . 6 |
| <u>A</u> 2 | • • | | •• | :: | | • • | ** | :: | 241 111 | 260 122 | 8 10 |
| BI B2 | | ••• | | :: | • • • | | :: | • • | 75 | 83 | 111 |
| Kappa | • | •• | •• | •• | •• | . ** | •• | •• | 50 | 53 | σ. |
| ns and Peas: White haricot, Wh | ite kidnev | Canad | ian Word | er. Suvar | beans | | | | 60 | 70 | 17 |
| Mixed beans | | , сепес | ** | ,0-8 | | | :: | •• | 50 55 | 60 | 20 |
| Ground bean | ıs ., | | •• | •• | • • | •• | •• | •• | - 40 - 40 | 60 50 | 9 25 |
| Chick peas Cow peas | | • • | •• | :: | | ••• | :: | | 35 | 37 | 5 |
| Pigeon peas | ••• | •• | | • • | | | • • | ** | 35 35 | 40 35 | 15 |
| Field peas Black gram | •• | • • • | • | • • | • • | | • | • • | 35 | 35 | · |
| Green gram | • :: | | - :: | :: | :: | ••• | | •• | 40 | 42 | 5 |
| <i>lower</i> Grey stripe, White | e. Mixed | | | | | | | | 50 | 54 | 10 |
| Black | ** | • | :: | • | | • • | | • • | 50 | 57 | 14 |
| a bean | | | •• | •• | | •• | •• | • • • | 60 20 | 65 20 | |
| lichos beaus stor seed | • | | | • • • | •• | :: | | • :: | 35 | 35 | |
| ame seed | •,• | • | | •• | | • • | | •• | 60 30 | 80 33 | 33 10 |
| ar beans | •• | • • | • • • | •• | •• | •• | •• | • • • | 15 | 15 | |
| llet | •• | •• | •• , | • | :: | •• | • | | 18 | 18 | |
| ghum ieot | • | | :: | • • | • • | •• | ** . | •• | 55 | 55 | |
| 510Yd | •• | | •• | •• | | •• | 4** | ••• | 12 | 15 | 25 |
| Grade I | | | | • • | | ••. | ; . | | 200 | 250 | 25 |
| Ctage 11 | | •• | •• | •• | | •• | •• | •• | 75 | 75 | |
| Shew muts Grade I | | | | | | | | | 150 | 163 | 10 |
| Grade II | :: | •• | •• | •• | | •• | •• | •• | 50 | 50 | |
| lilles: Bird's eye: | | | | | | | | | | | |
| Grade I | •• | | | •• | | | •• | •• | 400 | 400 | - |
| Grade II | •• | | • • | •• | •• | •• | •• | •• | | 250 | |
| osicum: | | | | | | | | | 200 | 200 | - |
| Large I | • | • | • • • | :: | | :: | :: | •• | 100 | 100 | |
| Ginger | •• | | | ** | • • | •• | ** | •• | 100 250 200 | 250 200 | _ |
| Cardammon | | u v Mandalar | | •• | •• | •• | • • | •• | | -44 | - |
| rified seed produce | o by 2ma | 13010011 | | | | | | | | | |
| oundnuts: | | | | | | | | | 70 | 40 | 7 |
| Mawanga, Malim | ba and M | anipinu | r (auzyell | ed) | •• | •• | •• | •• | 10 | 75 | • |
| | | | | | | | | ••• | 100 | 110 | 10 |
| Chitembana (the | neu) | •• | • | ••• | | - 7 | | | | | |
| Seors: White Haricot, C | anadian V | Wonder | and all of | her reco | mmended | paktoned | varieties | •• | 100 | 110 | 10 |
| | | | | | | | | | 45 | \$0 | 11 |
| Fava and Blue B | lonnet | • • • | | | | •• | • • • | • | 65 | 70 | 8 |
| Wheat (rain-fed) | •• | •• | •• | | | | - | - | | | |
| Cow pear | | | | | •• | ** | •• | •• | 40 | 45 | 12 12 |
| Pigeon pess | | • • | • • | | • • | • • | • • | ** | 40 70 | 45 80 | 14 |
| Soya beans | •• | •• | ••• | •• | •• | ••• | •• | | | | • |
| | | | | | | | | | | | |

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表-4.12 (2/2) ADMARCによる小規模農業作物購入価格と農業資材販売価格

| Input prices (Type | | | | | | | | | | 1989/90 (k/50kg) | 1990/91 (k/50kg) | Increase (%) |
|------------------------|--------------|-----------|----------|----------|-------|---|---|---|---|---------------------|---------------------|-----------------|
| | | | | | | | | | | | ******* | |
| Fertilizer: | | | | | | | | | | 37 | 40 | 10 |
| Urea | •• | ** | •• | •• | •• | •• | •• | -:- | | 41.5 | 44 | 6 |
| DAP | • • | • - | • • | •• | • • • | •• | | ••• | :: | .34 | 12 | 24 |
| CAN | • • | •• | •• | •• | | :: | :: | ••• | | 33 | 60-m | |
| 20:20.0 | 46. | •• | • • | • • | | | | ••• | :: | 39.5 | 45 | 14 |
| 23:21:0+ | | •• | •• | •• | •• | •• | • • | | • | 33 | 38 | 13 |
| SIA | •• | •• | • • | •• | ** | • • • | | • | • | 39 | 43 | 13 |
| "5" | • • | •• | •• | •• | •• | ••• | | | - :: | 42 | šõ | 19 |
| "B" | •• | •• | • • | •• | • • | • • | •• | | - :: | 43 | 49.5 | 15 |
| "Ç" | ** | •• | •• | •• | • • | | • | | | | 50.5 | |
| | ** | •• | •• | •• | • • • | •• | •• | ••• | ••• | | | |
| seeds. | | | | | | | | | | | | |
| Maize | | | | | | | | • | | 155 | 200 | 29 |
| MH | | •• | | •• | •• | • • • | •• | • • • | ••• | 155 | 200 | 29 |
| MH | | •• | • • | • • | •• | • • | • • | •• | • • | 140 | 181 | 29 |
| NSC | | • • | | • • | •• | •• | •• | •• • | •• | 140 | 200 | 43 |
| | . R215 | | • • | - • | • • • | •• | • • | | • • | 140 | 200 | 43 |
| CG41 | | • • | •• | • • | • • | • • | •• | • • | •• | | 130 | 44 |
| Tuxp | : 00 | | | •• | • • | | •• | | • • | 30 | 130 | |
| | and CC | | | • • | | • • | • • | • • | * * | 90 | | 44 |
| Kalat | uri Earl | y Pear | | | | •• | •• | | •• | 90 | 130 | 44 |
| Groundriu | 14 | | | | | | | | | | | |
| | gbasa (: | thelleds | | | | | ٠., | | | 100 | 100 | |
| | moana (| | :: | | ••• | •• | | • • | | 100 | 100 | |
| | | nshelled) | :: | | | | •• | | | 70 | 70 | |
| | LUET (GU | | | :: | | ••• | | | | 70 | 70 | _ |
| | , pure ty | | | :: | | ••• | | • • | ••• | 001 | 110 | 10 |
| | beans | - | •• | | | - :: | | | | 75 | 80 | 7 |
| Cow | | | •• | :: | ** | :: | :: | • • • | | 40 | 45 | 16 |
| | u bers | •• | • • | :: | | | - :: | • • | | 40 | 45 | 16 |
| | | •• | •• | | •• | | | | | 80 | 90 | 12 |
| Sorgi | t (rain-le | ai. | •• | •• | •• | • | :: | ••• | :: | 65 | 70 | - 8 |
| | e (i anti-ti | .07 | •• | •• | •• | •• | •• | ••• | ••• | ••• | | Ť |
| Rice: | | | | | | | | | | | | |
| Faya, Blu | e Boanei | | | | • • | | • • | • • | | 45 | 50 | - 11 |
| Tobacco: | | | | | | | | | | | | |
| (Ali types) | ١. | | | | | | | | | free | free | |
| | , | •• | •• | • • | * * | • • • | *- | | ••• | | | _ |
| Cotton: | F '8 | | • • | • • | | •• | •• | •• | | (rec | free | |
| | | | | | | | | | | | | |
| Depot Deliver | ed and C | onsumer | Prices (| of Maize | | | | | | | | - |
| | | | | | | | | | | | | |
| | | | | | | | | | | 1989/90 (k/90kg) | 1990/91 (k/90kg) | Increas |
| • | | | | | | | | | | (~130KB) | (x(1) x (1) | - 1/3 |
| Producer Price | | | | | | | | | | 26.6 | 27.5 | . 3 |
| Depot Deliver | | •• | • • | • • | ••• | | ••• | :: | | 32.5 | 33.4 | - 1 |
| Private Trader | | . a Duis- | •• | ** | ••• | ••• | •• | | •• | 36.5 | 37.4 | 3 |
| | | | • • | • • • | • • | . * * | •• | • • | •• | 20,2 | 21.7 | , |

Source: ADMARC, Ministry of Agriculture.
Note: Percentage changes have been rounded up.

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表-4.13 信用供与 (1988/89及び89/90年)

| 解業理器区 | | 中型高田 | | | | 加氢的聚矿用 | PF. | |
|------------|---------|-------|---------|--------|---------|--------|---------|--------|
| - | 1988/89 | | 1989/90 | | 1988/89 | - | 1989/90 | |
| | | 観咒クリン | | ・履用クルブ | | 概用クラブ | | 職用クリン |
| . • | 第つ出し所数 | 物古人数 | 第一出し予定 | 参加人数 | 食し出し実績 | 参加人数 | 貸し出し予定 | 参加人数 |
| | 1 ~ | | (チクワチャ) | | (チクロチャ) | | (ギクワチャ) | |
| Karonga | 32 | 0 | 135 | 160 | 795 | 888 | 1,500 | 800 |
| Mzuzu | 27 | 263 | 200 | 1,265 | 3,494 | 832 | 5,500 | 1,195 |
| Kasungu | 495 | 552 | 750 | 1,005 | 10,935 | 2,195 | 17,000 | 2,300 |
| Lilingwe | 274 | 48 | 500 | 573 | 12,111 | 2,855 | 18,000 | 3,598 |
| Salima | 109 | 70 | 300 | 300 | 2,992 | 1,821 | 4,000 | 1,991 |
| Liwonde | ထ | O | 250 | 334 | 2,951 | 1,413 | 4,500 | 1,764 |
| Blantyre | 110 | 203 | 200 | 465 | 3,161 | 1,329 | 5,200 | 1,612 |
| Ngabu | 23 | 78 | 160 | 300 | 357 | 448 | 600 | 700 |
| (□ | 1,088 | 1,212 | 3,095 | 4,402 | 36,796 | 11,570 | 56,300 | 13,980 |

T - 41

でる。1. 日全人国際企業だけよる関係などが企業員をは(1986年1990年)

| | | | | | | | | | | | | | | | | | | Š | (が3米0001・25歳) | * ドグン | |
|---|----------------|-----------------|-------------|----------------|----------------|-----------|-----------|---------------|----------------|-----------|--------|------------|------------|--|-----------------|------------|----------------|---------|-----------------|----------|----------|
| 鉄形団あるいは複数関目も | | 986.1 | | | | 1987 | - | • | | 1988 | | | | 6861 | 6 | | | 6 3 | 0663 | | |
| | K | 15 14 | 気をおし | 2 E | | Ħ | 真ななよび | 発展 24: | Æ | N (A | E E | 気をおけび | 8 | F | | 気はおよび | U | | | 新館のよび | 24 |
| | コッペト・大田祭 | ロッパト 大社館 | मा मध्य | 美信の作品 ロッカン 大光祭 | l | コッパヤー 大田塩 | 1 | おお ロシボト | オイス | 17.40 | X EE M | 美質かな数 ロッス | | サット 四十五十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十 | THE T | 五日七計四 コットト | ı | 大七四 コン | □*** 大名公司 | 1. | 100 |
| . 1 | メントは日 | メントは四 | | 類類とハメ | - 1 | エントだ器 | | メントが | - 35 M | はなったが | | ` | イントは在 | メント記載 | # N | | ※ フト 開業 | | ы | | İ |
| | | | ·. | | | | . | | | | | | | | | | | | | | |
| オーストラリア | | | | | | - | | | | | | | : | | | Ö | 563 | 1563 | | _ | 1563 |
| 日本 | 16,372 16,372 | | 16, | 16,372 31,650 | 20,650 | | C. | 31,650 4 | 11,040 41,040 | 9 | | 4.0% 0% | 39,321 23 | 23,192 | : | 23,192 | 37 | 43,430 | | ₽ | 00 |
| A+4 | 12,729 6,189 | | to. | | | | | | | | | 169'5 | | 2,542 | | 2,542 | 11,009 | 10,902 | | 5 | 305 |
| FV410 | 12,696 3,321 | - | 1,236 4,3 | 4 557 1 142 | | _ | 1,609 | | | . 2 | | 4.670 | _ | 5,197 | | 6,137 | 2,736 | 4,120 | | | 1,120 |
| カナソカソド | | | | 0 206 | | | | 208 | | 33 | : | 66 | | 120 | | 22 | | | | | o |
| といまし | 677 1,472 | 3,838 | 4,401 5,4 | 5,673 | 781 | | 2,668 | 2,668 | | 159'8 | 2,234 | 2,234 | | 1 | 2,012 | 2.012 | 5.137 | 3,383 | 9,541 | 7,863 11 | 782 |
| FY | 11,584 | | | 11,684 77,496 | ð | | | 7,496 | 18,7 | 47 | | 19,747 | | 45,868 | ٠. | 45,368 | 8,883 | 42,232 | | · | 233 |
| 17.5 | 3 2 | | 385 | 473 | | | 179 | | | 2 | | 53 | | 176 | | 176 | 220 | 220 | | | 220 |
| 1447 | | | | 1.543 | 2 | | | | 1,577 1,577 | : 11 | | (,577 | | | | 0 | | | | | ø |
| *** | 3,317 6,871 | 55,993 10,420 | | 17,291 20,887 | 57 17,859 | 15,210 33 | 33,483 5 | 54,370 | - | 2 | 25,964 | 36,838 | _ | 1229 | 11,785 | | 14, 187 | 15,943 | | \$2 | .943 |
| がんの大 | 8,936 3,848 | | ਜੌ | 3,846 | | | | _ | | . 3 | | 6,464 | | 6,058 | | 6,056 | 3.064 2.064 | 7,185 | | - | 7,185 |
| ノーキシガイ | 7,172 830 | | • | 800 003 | | | | 0 | 2,575 | 75 | | 2,875 | | 595 | | 3,565 | 268 | 2,439 | | 2 | Ş |
| 8 | 2,250 2,250 | | 2 | 2,250 | | | | ٥ | | 8 | | 2,000 | _ | 2,000 | | 2,000 | 2.200 | 2,200 | | ~ | 2,200 |
| 至アフンの | 226 292 | | • | 292 | | | | 0 | | 43 | | 1,089 | 651 | 794 | | 794 | 275 | 275 | | | 275 |
| スキャン | ٠ | | | | | | | 0 | | | | - | | | | • | | | 14,747 | | 0 |
| USAID | 26,065 13,128 | | 13. | | | | | 0 | 66,272 44,107 | 07 | | 44,107 | 45,766 | 15,004 | | 18,504 | 13,916 | 22.23 | | 22 | 22.23 |
| 8# | 86,726 66,343 | 59,832 | 16,442 62. | 62,785 138,267 | 83.768 78 | 15,210 37 | 37,538 17 | 176,205 16 | 63,744 143,394 | 94 8,551 | 29.156 | 172,592 | 184,633 12 | 120.745 | 0 13,798 | 134,543 | 113,971 | 156,125 | 24,288 7 | 7,688 16 | 4.0 |
| 1986年に対する増加率 | 100 100 | 001 | 100 | 100 | 143 141 | 25 | 231 | 513 | 169 2 | 216 14 | 176 | 206 | 161 | 182 | 0 84 | 3 | 118 | 235 | 1.7 | 46 | 198 |
| · 医二种 | | | | | | | | | | | | | | | | | | | | | |
| A00(1) | | | 3,403 | 3,403 | | • | 969 | 3,69.6 | | | 5,765 | 5.785 | | | | 0 | | | N | | 2,124 |
| ADF[2] | | 17,391 | | 2,834 | | 33,262 | 7,850 | 7,850 | | 20,757 | | 5,911 | | 22 | | 090'≯ | | | _ | 14,632 | 4,832 |
| EEC(3) | 24,878 12,500 | 13,839 | | ¥ | 15,163 | | | 21,533 | 44,620 32,538 | | | 38,837 | 39,759 3 | 32,650 | 635 3,712 | ñ | 42,369 | 31,140 | | | 33,627 |
| FAO(4) | 51 | | | | 290 290 | | | | | _ | | 1,010 | | | | | 333 | 333 | | | 끍 |
| IFAD(S) | • | | 3,140 3, | 3,140 | | *4. | 3,766 | | ž | 6,781 | 3,754 | 3.754 | | | 726 | 726 | | 503 | ~ | 2,353 | 2,552 |
| UNCDF(8) | | | | | 543 | | | | | | | | | | | 6 | | 1,400 | | | 6 |
| UNDP(7) | • | | 4 | ., | | | | | 10,750 10,750 | 25 | | 10,750 | 12,200 | 12,200 | | 12,200 | 13,600 | 13,600 | | ¥. | 3,600 |
| UNFPA(5) | 570 570 | | | 570 | | | | | | 8 | | 960 | | 1250 | | 1,250 | ij | ğ | | | ş |
| UNICEFE | _ | | ••• | • | 50 1,650 | | | | | 8 | | 300 | | | | 0 | 3,353 | 3,353 | | | 3,353 |
| WHO(10) | 240 240 | | | | 750 750 | | | | | | | 1,300 | | | | | 1,230 | 1.230 | | | 2,23 |
| WORLD BANK | | | Į | | | | Į | ١ | 1 | | 51,564 | 51,584 | | | | - | | | 204,800 103,267 | 1 | 103,267 |
| ☆1 + | 믜 | | Į | 25 | ň | - 1 | 23,710 | إ | ٦ | | 회 | 152, 191 | - 1 | ا_ | 35,357 92,065 | 138,385 | | 1 | 253,325 125,063 | ١ | 99 20 |
| 1986年に発する国名形 | 201 | 8 | 8 | 100 | 166 123 | 148 | 2 | ě | ŝ | 245 184 | õ | 125 | 22 | 237 | 50 | ≛ | 187 | £ | 88 | 2 | 2 |
| | | | 1 | J | | | - | | | | | | | | | | | | | | |
| さられるできるほどへの | 128 246 AS MA1 | 120 220 118 188 | 184 204 059 | | 190 50 117 814 | 119 446 | F46A | 1960 | C 101 - CCP 9 | 115871 57 | 57.5 | 324 783 | 222 642 1h | 2005 | 104 204 104 883 | 272 GZB | 176 196 | 204 224 | 333 613 173 | 450 | 2 |

(1)-Wirkan development bank
(2)-Krozan development kind
(2)-Krozan development kind
(3)-European conoronic community
(4)-Food and Organization,UN
(5)-Kroda and Organization,UN
(5)-Krokan kind organization development
(6)-Krokad Nations capial development fund
(7)-Linked Nations for fund for goopation activities
(3)-Krokad Shakons châdens's fund
(10)-World Shakin organization

(出典) Statistics on Development Assistance by OPC

枚6.2(1/3) 国営/国際鉄政営による資金、原由だよび技法政党員(1986-1990年)

| Name | 大学大学版 | 質問因めるいは数形数数名 | | | 1986 | | | | | | | 1987 | | | | | |
|---|--|---------------------------------------|---------|------------|---------------|--------------|-------------|--------|-------------------|------------------|-------|-----------|--------|---|------|------------------|-----------|
| 1975 大学 中央 | 1 | | 資金提助 | | 两品取助 | 41 | 文稱限助 | | 1986年展 | | | 的品質的 | | 灰棉花的 | | 198 | 7 家 |
| Color Colo | Section Sect | | l | Ì | # | | | | 对 别数数 | レッドサメンド試費 | 社品 | レンボナインが記録 | X 品 | エミュリング 数イング | F 50 | X H H H | 15 |
| 2.516 6.50 5.75 3.047 4.555 2.27 6.159 4.22 6.199 2.22 6.199 2.24 4.52 6.25 9.22 5.25 9.22 5.22 5.23 9.23 9.22 5.22 5.23 9.23 9.23 9.23 9.23 9.23 9.23 9.23 9 | 2.5.5.6. 5.5.6. 5.5.0. 1.5.0. 1.5.0. 5.5.5. 5.2.2. 5.1.0.0 5.5.5.5. 5.2.2. 5.1.0.0. 5.5.5. 5.2.2. 5.1.0.0. 5.5.5. 5.2.2. 5.1.0.0. 5.2.5. 5.2.5. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0.0. 5.2.0. 5.2.0 | • | | | | | | | | | | | | | | | |
| 2.216 1.226 1.222 2.720 5.35 5.35 7.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 | 2 2.318 850 5.755 3.347 4.656 2.222 6.199 64 1559 2.259 5.255 3.359 5.255 3.255 3.25 | 西 | 5,549 | 5,549 | 1,600 | 1,500 | 9,223 | 8,223 | 16,372 | | 9,264 | | | - | - | | 31,650 |
| 24.54 | 1,2,2,6 1 | カナダ | 2,318 | 850 | 5,755 | 3.047 | 4,655 | 2,282 | 6,139 | | 1,559 | | | | | | 7,747 |
| Column C | 1,008 | アンヤーク | 12,361 | 1,292 | | 2,730 | 535 | 535 | 4,557 | | 2,406 | | 16 | | | | 3.11 |
| (24.54) 3.527 7,834 6 6 6 7,73 19,416 7,223 8,895 15,310 5,005 10,416 7,223 8,495 15,310 5,005 10,416 7,223 8,495 15,310 5,005 10,416 7,223 8,495 15,310 1,03 | Column C | レナンサンド | | | | | | | 0 | | | | | 20: | 80 | | 0 |
| 100 | 3,527 7,534 6 8 6 8 6 473 19,418 7,223 8,586 15,310 5,805 24,543 24,542 27,313 14,657 3,454 1,728 6,584 4,881 25,488 1,128 1,153 1,038 2,070 2,000 2 | フルンス | 4,516 | 5,873 | | | | | 5,873 | | 3,449 | | | | | | 3,449 |
| 24.543 | 1,006 2,007 2,00 | トイン | | 3,527 | | 7,834 | | 323 | 11,684 | | | | | - | | | 34,112 |
| | ## 1,036 2,070 6,122 1,1057 3,454 1,291 6,064 4,681 25,488 41,870 4,535 4,791 7,712 3,644 2,020 2,000 | イント | | 385 | | | 88 | 88 | 473 | | 179 | | | ======================================= | | | 295 |
| ## 1,034 | ## 1035 2,070 5,122 1,175 1,17 | 人をごし | | | | | • | | 0 | | | 1,54 | | | | | 0 |
| 1,035 2,070 6,122 1,776 1,77 | ## 1,035 2,070 6,122 1,776 1,7 | · · · · · · · · · · · · · · · · · · · | 24,543 | | 37,313 | 14,057 | 3,454 | 3,234 | - | | 4,581 | | | | | | 51,342 |
| 1717 128 130 1 | ## 17.7 1.12 1.20 2.50 2.50 2.50 2.50 2.500 2. | メ カンタ | 1.038 | 2,070 | 6,122 | | 1,778 | 1,776 | 3,846 | در: | 56 | | 3,7(| | | | 5,838 |
| 2 000 2,000 250 250 250 127 12 220 2,000 | 2,000 2,00 | ノードシャイ | 7,172 | 830 | 1. | : | | | 830 | | 1,128 | | | | | | 1.128 |
| 17 19 19 15 15 15 15 15 15 | 10 565 155 120 127 127 127 127 128 | 米百 | 2,000 | 2,000 | 250 | 250 | | | 2,250 | | 2,000 | | | | | | 2,000 |
| 10.545 5.574 is.500 4.400 3.154 13.859 20.742 62.785 7.605 31.004 43.556 71.147 64.06 35.314 | 10 10 10 10 10 10 10 10 | 瓶アフリカ | 66 | 165 | | | 127 | 127 | | | 474 | | ٠ | 13 | | | 504 |
| 6 年に対する場所事 70151 22 125 56 540 33 9 18 18 59 20 742 82 78 5 19 004 43.56 71,147 64 948 35 9 14 173 18 18 18 18 18 18 18 18 18 18 18 18 18 | 6 年に対する場所事 70151 28.125 56.540 33.918 19.559 20.742 82.785 76.053 51.044 43.556 71.147 64.068 35.914 17.391 2.834 100 100 100 100 100 100 100 100 100 10 | USAID | 10.565 | 5,574 | 15,500 | 4,400 | | 3,154 | | | | | | | | 39 | 16.729 |
| おきに対する場所事 100 100 100 100 100 100 30 294 103 181 65 26 604 2.236 2.108 1.512 2.83 | (5) 294 104 100 100 100 100 100 294 104 181 65 210 323 173 1548 17.85 28.604 2.236 2.108 1.512 2.38 2.108 1.512 2.39 2.309 | 盐和 | 70,151 | 28,125 | 56,540 | 33,918 | 19,859 | 20,742 | | , | 1 | | 7 | | | | 58,065 |
| 17,391 2,834 1,116 237 385 1,333 16,406 7,612 26,604 2,236 1,714 238 1,512 2,834 2,116 237 1,833 1,406 17,646 17,745 26,604 2,236 2,108 1,512 2,90 3,140 | 3,688 | 1986年に対する増加率 | 190 | 100 | 100 | 100 | 100 | 30 | 294 | B01 · | | 36 | 2 | l | 3 | 73 | 6 |
| 17.391 2.834 1.7391 2.834 1.746 1.765 1.765 2.6,604 2.236 1.714 2.28 1.716 1.714 2.28 1.716 1.714 1.714 2.28 1.716 1.714 1. | 17,391 2,834 1,739 2,834 1,333 15,406 17,645 17,765 26,604 2,236 2,108 1,512 2,396 3,140 | | | | | | ÷ . | | | | | | | | | | |
| 17.381 2.834 | 17.381 2.883 | 西斯拉思 接近 Anath | | 3 403 | - | | | | : | | 2 698 | | | - | | | |
| 13 13 13 13 13 15 14 15 15 15 15 15 15 | 110 11 | ADE(2) | 17.391 | 2,834 | | | | | | 31,548 | | | | 1.71 | | 85 | 7.850 |
| (5) 3,140 3 | (5) 3,140 3,140 3,756 3,140 3,756 3,140 3,756 3,140 3,756 3,140 3,140 3,756 3,140 3 | EC.(3) | 36,216 | 14,836 | 2,116 | 237 | 385 | 1,333 | 15,406 | | - | | | | | 215 | 21,533 |
| (5) 298 543 543 540 5.070 5.0 | (5) 296 543 5.070 (4.300 4.300 4.300 4.300 4.300 (4.300 4.300 4.300 (4.300 4.300 4.300 (4.300 4.300 4.300 (4.300 4.300 4.300 (4.300 4.300 (4.300 4.300 (4.300 4.300 (4.300 4.300 (4.300 4.300 (4.300 4.300 (4.300 (4.300 1.420 1.420 1.420 (4.300 1.420 1.420 1.420 (4.300 1.420 1.420 1.420 (4.300 1.420 1.420 1.420 1.420 1.420 (4.300 1.420 | FAO(4) | | | Ī | | 110 | 110 | 110 | : . | | | | ٠. | • | 8 | 290 |
| CDF(5) 298 543 CDF(5) CDF(7) 5,000 4,300 4,300 4,300 4,300 5,0 | CDF(5) CDF(6) CDF(7) | IFAD(5) | | 3,140 | | - | | | 3,140 | | 3,766 | | | - | | | 3,756 |
| OP(7) CPR(7) CPR(7) CPR(7) CPR(7) CPR(7) CPR(7) CPR(8) CPR(8)< | PPA(8) | UNCDF(5) | | 298 | | | | | | | 543 | | | | | | 543 |
| FPA(8) F | FPA(8) F | UNDP(7) | | | | | 4,300 | 4,300 | | _ | | | | 5,03 | | .020 | 5,070 |
| 1,420 | 1,420 1,420 1,420 1,550 1,540 1,550 1,540 | UNFPA(8) | 2 | | | | 570 | 570 | | _ | | | | 58 | , | 980 | 580 |
| 140 240 240 240 240 240 240 240 240 750 750 750 750 750 750 750 750 750 75 | 10(10) 1 | UNICEF(9) | | | | | 1,420 | 1,420 | | _ | | | ÷ | 1,65 | | 550 | 1,650 |
| ### State | PRILD BANK 24,500 28,627 57,103 14,808 2,833 88,553 58,544 30,385 10,122 16,425 5,215 5,215 5,215 5,315 5,316 21,330 10,805 121,284 107,738 63,789 36,725 18,562 12,182 15,305 9 8 6 年上於下記的本 100 100 100 100 100 100 138 120 1,736 33 .56 142 142 | WHO(10) | | | | | 240 | 240 | | | | | | . • | | | 750 |
| 2,116 57,340 21,833 10,806 121,284 107,738 63,789 36,726 18,862 12,182 15,305 9 8 6 年上的下部中,100 100 100 100 100 100 138 120 1,735 33 .56 142 | ## 120 | WORLD BANK | 24,500 | | | 57,103 | 14,808 | 2,833 | | | - 1 | | | 25 | 5. | | 52,026 |
| 9 8 6 年に対するig加事 100 100 100 100 100 100 100 100 138 120 1,735 33 .56 142 / 国際機関機能報告計 146,268 81,263 68,635 91,236 41,632 31,548 204,069 183,801 114,793 80,282 89,809 76,210 51,219 9 8 6 年に対するig加事 100 100 100 100 100 100 124 141 117 98 183 152 African development bank (5):Initernational fund for agricultural development fund (9):World health organization (1):World health organization (7):United Nations development program (10):World health organization (7):United Nations development program | 9 B 6 年上対する19加車 100 100 100 100 100 100 100 100 138 120 1,735 3.56 142 | 51 | 78,107 | 53,138 | 2,116 | 57,340 | 21,833 | 10,806 | - | | - 1 | | | | | | 97,756 |
| /西院競別類節類合計 146,268 81,263 68,655 91,258 41,692 31,548 204,069 183,801 114,793 80,282 89,809 76,210 51,219 9.8 6 年亡的事 100 100 100 100 124 141 117 98 183 152 31,548 204,069 183,801 114,793 80,282 89,809 76,210 51,219 31,548 204,069 124 141 117 98 183 182 31,548 204,069 124 141 117 98 183 182 31,548 204,069 141 141,793 80,282 89,809 76,210 51,219 31,548 31,54 | /四路機助限的報告計 146,268 81,265 69,656 91,258 41,692 31,548 204,069 183,801 114,793 80,282 89,809 75,210 51,219 9 8 6 年に対する場か車 100 100 100 100 100 100 100 100 100 10 | 1986年に対する増加車 | 100 | 100 | 100 | 100 | 100 | 100 | 5 | ŀ | | | | | | | 459 |
| 9 8 6 年に対する場が事 100 100 100 100 100 100 152 141 117 98 183 152 African development bank (5):Initernational fund for agricultural development (9):United Nations capital development fund (9):United Nations capital development fund (10):World health organization European economic community (7):United Nations development program | 9 8 6 年に対する 1970 100 100 100 100 100 100 152 141 117 98 183 152 -African development bank (5):International fund for agricultural development (9):United Nations children's fund (5):United Nations capital development fund (10):World health organization (7):United Nations development program (10):World health organization (10):United Nations development program (9):United Nations fund for population activities | 6/6系数形数形数形式 | 148.268 | 81263 | 68.655 | 91.258 | 41.692 | 31.548 | 1 | | 1 | | | | | | 255 82 8 |
| (5):International fund for agricultural development (6):United Nations capital development fund (7):United Nations development program | (5):International fund for agricultural development (6):United Nations capital development fund (7):United Nations development program (8):United Nations fund for population activities | 1986年に対する増加年 | 100 | 100 | 100 | 100 | 100 | 100 | | | 11 | | | | | | 125 |
| (i):United Nations capital development fund (i):United Nations development program (ii):United Nations development program | (7):United Nations capital development fund (7):United Nations development program (9):United Nations fund for population activities | (3)-African development hank | | S) Informa | | Acrestitural | development | | (9) - Christon Na | tions children's | fired | | | | | | |
| (7):United Nations development program | (7) United Nations development program (8) United Nations fund for population activities | (2):Afrocan development fund | | 5):United | | developme. | ant fund | : | (10):World he | ath organizativ | 5 | | • | | - | | |
| | | (3):European economic commun | | 7):United | Nations devel | coment proc | ram | | | , | | • : | | | ١. | | |

(出典) Statistics on Development Assistance by OPC

数6.2(2/3) 国贸/国際額及営行よる政会 医电抗よび衰性疑恐惧(1986-1990年)

| 大工田 | 数写目むるいは数形数配名 | | - 1 | 1988 | | : | | | | | 1989 | 33 | - | | | |
|---|--|---------|-----------|------------------|--------------|-----------------|--------|--------------|-----------------|-------------|--------|----|----------|--------|--------|---------|
| Color Colo | | 安全规则 | | 商品推動 | | 技術提助 | | 1988年 | 女女拉拉斯 | | 网络甜助 | | 技 | 55.00 | | 989年度 |
| 7,294 7,294 18,710 18 | | | となる。 | | | レッドマント語話 | 为任益 | 女任務整 | ロシボナメント記録 | X 品 | コンドイング | | u x | 12 | | ii E |
| 7.7264 7.7264 18.710 15.035 1 | 漢妙田 | | | | - - | | | | | | | | | | | |
| Part | 田城 | 7,294 | 7,294 | | 18,710 | 15,038 | 15,038 | | | | | 53 | | 12,734 | 12,734 | 23 192 |
| Part | カナダ | | | | 5,691 | | | | | | | | 2.542 | | | 2.542 |
| 120 | ۱ ۱۰ | 6,891 | 1,027 | | 2,570 | | 1,081 | | 80 | 5,57 | . 60 | | - | | 621 | 6.137 |
| 1,224 3,093 1,37 | | | | | | | 85 | | 5 | | | | | | 120 | 120 |
| 1,277 1,27 | レルシス | 8,551 | 2,234 | - | | | | 2,23 | . 4 | 2,01 | 2 | | | | - | 2,012 |
| ### 137 1577 | アイシ | | 9,744 | | 3,093 | | 6,910 | • | 1 | | | | 3,410 | 11,277 | 3,298 | 45,868 |
| ## 4275 22.865 1577 1577 1577 1578 1577 1577 1578 | 人 パボ | | | | | 133 | 133 | | | | | | | 175 | 175 | 175 |
| 4,275 2,1565 5,079 10,560 5,573 5,573 39,866 1,079 1,285 5,445 5,714 5 | ナタジー | | | 1,577 | 1,577 | | | 1.5, | | | | | | | | 0 |
| | × co | 4,275 | 22,665 | | 10,860 | 5,573 | | : | | | | | 5,435 | 5,714 | 5,714 | 24,015 |
| | ナルンケ | 9,375 | 2,080 | | 3,900 | 4,005 | | | 25 | 51 | | | 3,662 | 1.878 | 1.878 | 6.058 |
| 15.912 15.40 2,000 2 | ノードシャト | | 2,875 | | | | | | ž, | 3,56 | | | | | | 3,565 |
| 1587 15.496 | 四米 | 2,000 | 2,000 | | | | | 2,00 | | | 0 | | | | | 2,000 |
| 13.852 15.439 44.300 18.814 8.000 11.735 7.5529 7.5529 8.5540 8.534 8.5440 7.5529 7. | 南アフリカ | 168 | | . 113 | 113 | 983 | 936 | | | | | | | 553 | 553 | 794 |
| (1) 12.05 (1) | USAID | 15,972 | 15,498 | | 16,814 | 6,000 | 11,79 | | | | | | | 6,537 | 9,370 | 18,004 |
| (2007年上 次 を | \$21 | 54,626 | 65,417 | | 63,128 | 31,730 | 44,04 | - | | | | | 5,050 | 38,869 | 34,464 | 134,543 |
| 13.866 5,041 1,012 18,586 1,010 1 | 1986年に対する増加年 | 8/ | 233 | 11 | 185 | . 160 | 21.5 | | | | | D4 | /4 | 136 | 186 | 163 |
| 18.86 5,041 | 20 00 00 00 00 00 00 00 00 00 00 00 00 0 | | | | | | | | | | | | | | | |
| 13.860 5.041 8.69 | ADB(1) | | 5,785 | | | | | | - | | | | | | | 0 |
| 20,717 19,643 27,129 18,586 846 1602 48,692 9,865 11,356 28,014 23,744 2,495 1,460 1,010 | ADF(2) | 13,850 | 5,041 | | | 6,907 | 978 | | 22 | 3,90 | | 52 | | | 158 | 4.060 |
| 1,010 1,0 | EEC(3) | 20,717 | 19,643 | | 18,586 | 848 | 1602 | | | | | | 3,744 | 2,495 | 1,460 | 36,562 |
| 7,329 3,754 7,329 7,229 7,229 3,754 7,329 7,250 7,229 7,229 3,754 7,329 7,229 7,229 7,229 7,229 7,229 7,229 7,229 7,229 7,220 10,750 10,750 10,750 10,750 1,300 1 | FAO(4) | | | | | 1,010 | 101 | | 9 | | | | | | | |
| 10,750 1,250 | IFAD(5) | 7,329 | 3,754 | | | | | 7,3 | <u>و</u> | 72 | ω ω | | | | | 726 |
| 10,750 10750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 10,750 1,300 | UNCDF(6) | | | | | | | - | 0 | | | | • | | • | Ü |
| 1,250 1,25 | UNDP(7) | | | | | 10,750 | 10750 | | 8 | | | | | 12,200 | 12,200 | 12,200 |
| 1,300 | UNFPA(8) | | | | | 960 | | | S | | | | • | 1,250 | 1,250 | 1,250 |
| 1,300 | UNICEF(9) | | | | | 1,300 | | | 8 | | | | | | | 0 |
| 23.636 39, 166 70,000 32,457 4,410 9961 98,246 18,820 32,466 42,200 750 8,521 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | WHO(10) | | | | | 1,300 | 1300 | | | | | | | | | 0 |
| 65,742 73,395 97,129 51,043 27,753 190,354 28,452 43,166 65,944 16,695 23,989 84 138 4,590 89 126 257 2 37 91 2,040 115 76 222 120,366 138,812 148,198 114,171 59,213 71,800 324,733 105,376 123,481 112,259 90,994 55,564 58,453 81 171 216 125 142 222 159 71 152 164 100 133 185 (5):United Nations capital development fund (9):United Nations children's fund (10):World health granifaction (10):World health granifaction (10):World health granifaction (10):World health granifaction (8):United Nations development program. (9):United Nations development program. | WORLD BANK | 23,836 | 39,166 | | 32,457 | 4,410 | | | Ì | - 1 | | | 2,200 | 750 | 8,921 | 83,587 |
| 84 138 4,590 89 126 257 2 37 91 2,040 115 76 222 120,386 138,812 148,198 114,171 59,213 71,800 324,733 105,376 123,481 112,259 90,994 55,564 58,453 171 216 125 142 228 159 71 152 164 100 133 185 (5):United Nations capital development fund (10):World health organization (7):United Nations development program (8):United Nations development activities | 140 | 65,742 | 73,395 | 97,12 | 51,043 | 27,483 | | | | | | | 5,944 | 16,695 | 23,989 | 138,385 |
| 120,368 138,812 148,198 114,171 59,213 71,800 324,783 105,376 123,481 112,259 90,994 55,564 58,453 13 13 135 | 1986年に対する協加表 | 84 | 138 | 4,59 | 83 | 126 | | | | | | | 115 | 76 | 222 | 711 |
| 81 171 216 125 142 228 159 71 152 164 100 133 185 (5):International fund for agricultural development (9):United Nations capital development fund (10):World health organization (7):United Nations development program. (8):United Nations development program. (8):United Nations fund for population activities | 10人国旗新路路里村中10人国 | 120.368 | 138.812 | 148.19 | 114,171 | 59.213 | | | | 1 | | | 0.994 | 55.564 | 58 453 | 300 070 |
| (5):International fund for agricultural development (6):United Nations capital development fund (7):United Nations development program (8):United Nations fund for population activities | 1986年に対する増加率 | 81 | 171 | 21 | 125 | . 142 | | | | | | | 100 | 133 | 185 | 135 |
| (6) United Nations capital development fund (7) United Nations development program (8) United Nations fund for population activities | 111. African development bank | 7 | (S) Juten | rational fund to | s acricultus | rat develorme | ŧ | (S):United N | ations children | s fund | | | ·. | | | ٠ |
| unity (7):United Nations development program (8):United Nations fund for population activities | (2):Afrocan development fund | - | (5):Unite | d Nations capit | al develop | ment fund | | (10):World h | ealth organiza | non Long | | | | | | |
| | (3):European economic commu | | 7):Unite | d Nations deve | lopment p | rogram | • | | , | | | | | | | |
| | (4):Food and Organization, UN | | (8):Unite | d Nations fund | for popula | tion activities | | | • | | | | | | | |

(出典) Statistics on Development Assistance by OPC

国別/国際機関別による資金・商品および技術援助額(1986~1990年) 表-6.2 (3/3)

| | | | | | (単位:米上 | ル) | |
|--|---------------------------------------|---|---------|---------|--------|--------|---|
| 援助国あるいは援助根関名 | · · · · · · · · · · · · · · · · · · · | | 1990 | | | | • |
| THE WITH DAY OF A . HAS THE MAY ON THAT WE THE | 資金援助 | | 网络提助 | | 技術援助 | | 1990年度 |
| | コッミト | 支出铒 | コッミト | 文出籍 | コッミト | 文出領 | 文出线額 |
| | メント提額 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | メント総額 | | メント総額 | | AND REAL PROPERTY OF THE PARTY |
| | 7 7 1 72 04 | | | | | | |
| 援助田 | - | | 563 | 663 | 900 | 900 | 1563 |
| オーストラリア | | | 000 | 000 | | | 0 |
| オーストリア | 40.070 | 10.070 | 17,857 | 17,857 | 13,495 | 13,495 | |
| 英日 | 12,078 | | | 4,701 | | | |
| カナダ | 128 | | | | | 646 | |
| デンマーク | 3,796 | 3,312 | | 162 | | . 040 | 0 |
| フィンランド | | | | | 0.010 | 2,384 | |
| フランス | 12,660 | | | | 2,018 | | |
| ドイツ | 7,840 | 30,921 | | 1,852 | | | |
| インド | | | | | 220 | 220 | 220 |
| イタリー | | | | | | | 0 |
| 日本 | 2,212 | | 6,008 | 9,976 | | | |
| オランダ | 591 | 591 | | 4,121 | 2,473 | 2,473 | |
| ノールウエイ | 289 | 2,439 | | | | | 2439 |
| 米国 | 2,200 | 2,200 | | | | | 2200 |
| 南アフリカ | 172 | 172 | | | 103 | 103 | |
| スペイン | 14,747 | | 4 | 4 | | | 0 |
| USAID | 12,859 | | | 5,950 | | | |
| 숨計 | 69,572 | | | 45,282 | 44,159 | | |
| 1986年に対する増加率 | 99 | 255 | 37 | 134 | 222 | 226 | 198 |
| | | | | | | | |
| 田際援助機関 | | | | | | | |
| ADB(1) | _ | 2,124 | } | | • | | 2124 |
| ADF(2) | 41.449 | 5,860 | , | 8,663 | 4,295 | 309 | |
| EEC(3) | 27,873 | 13,573 | 16,885 | 18,671 | 392 | | |
| FAO(4) | | | | | 333 | 333 | |
| IFAD(5) | • | 2,562 | | | | | 2562 |
| UNCDF(6) | | 1,400 | | | | 1. | 1400 |
| UNDP(7) | | | · | | 13,600 | 13,600 | 13600 |
| UNFPA(8) | A second | •. | | | 1,338 | 1,338 | 1338 |
| UNICEF(9) | | | • | | 3,353 | | 3353 |
| | | | | • | 1,230 | | 1230 |
| WHO(10) | 115,540 | 52,941 | 76 950 | 40,057 | | | |
| WORLD BANK | 184,862 | | | | | | |
| 合計 1006年に対する機能型 | | | | | | | |
| 1986年に対する増加率 | 231 | 1-10 | , 1,100 | | | | |
| CT / CT DES HARE TO Sh DES 40 °L | 254,434 | 150,218 | 118.363 | 112,673 | 81,010 | 78,789 | 341,680 |
| 国/国際根型援助領合計 | | | | | | | |
| 1986年に対する増加率 | 114 | 10. | **** | | | | |

^{(1):}African development bank

(出典) Statistics on Development Assistance by OPC

^{(2):}Afrocan cevelopment fund

^{(3):}European economic community

^{(4):}Food are Organization,UN

^{(5):} international fund for agricultural development

^{(6):}United Nations capital development fund

^{(7):}United Nations development program

^{(8):}United Nations fund for population activities

^{(9):}United Nations children's fund

^{(10):}World health organization

5-6.3 各省庁への分配接助金額

| | | | | - | | | | | | | | |
|-------------------------|---------|---------|--------------|---------|---------|-----------|---------|---------|---------------|---------|---------|-------------|
| 网络留开 | | 1989 | | | 1988 | | | 1987 | . : | | 1986 | |
| | コミット | 文化的 | 我 友 | コミシト | 对抗粒 | 经支払知に | コミット | 女批的 | 经支払 和に | コミット | 女抗館 | 经文业如口 |
| | メント総領 | | 저호 2 배음 (%) | シェント報告 | | 対する 참合(%) | ンメント報告 | | 対する約合(%) | シメント独的 | | 최호 3 왕읍 (%) |
| | | | | | | · | | | | | | |
| Agriculture | 46,998 | 44,314 | 16 | 66,598 | 51,128 | 16 | 64,788 | 28,668 | 11 | 104,341 | 18,515 | တ |
| Community services | 1,198 | 6 | 0 | 117 | 2,401 | | 2,320 | 521 | O | 893 | 162 | 0 |
| District administration | 2,710 | 3,930 | , | 315 | 4,737 | , *** | 2,778 | 1,150 | 0 | 803 | 1,008 | 6 |
| DPMT&PSC(1) | 39,292 | 36,487 | 13 | 46,375 | 36,032 | Ξ | 43,391 | 27,222 | | 23,006 | 20,280 | 10 |
| Education | 9 | 11,968 | 4 | 314 | 11,487 | 4 | 48,709 | 9,432 | 4 | 66,286 | 14,048 | 2 |
| Finance | 54,152 | 76,332 | 28 | 173,275 | 100,162 | 31 | 50,423 | 88,657 | 35 | 143,373 | 86,117 | 42 |
| Forestry | - | 3,128 | - | 1,500 | 3,165 | - | | 1,198 | Ð | 25,813 | 2,838 | |
| Geological survey | 1,915 | 120 | 0 | - | 98 | 0 | 208 | 92 | 0 | | | 0 |
| Health | 19,764 | 13,202 | S | 6,274 | 15,289 | Ś | 34,511 | 8,311 | က | 11,938 | 5,523 | ന |
| Housing | | 831 | 0 | | 1,195 | 0 | | 1,714 | — | 18,460 | 140 | 0 |
| Labour | | | ó | | | 0 | | 1,559 | | 2,318 | 860 | 0 |
| Local government | | 3,242 | - | | 79 | 0 | | 488 | O | | 797 | Ö |
| OPC(2) | 1,869 | 1,962 | - | 832 | 1,497 | 0 | 266 | 934 | 0 | 1,164 | 708 | C |
| Post and telecomms | | 12,962 | io | | 28,235 | gs | | 3,870 | 23 | 57,598 | 9,173 | 4 |
| Survey | | | 0 | | | 0 | | | 0 | | | 0 |
| Trade | | | O | | | 0 | 833 | | 0 | | | 0 |
| Trade and industry | 45,659 | 13, 195 | ιņ | 15,312 | 16,984 | 5 | 9,764 | 30,498 | 12 | 16,952 | 13,163 | တ |
| Transport | 20,147 | 19,911 | ~ | 38,523 | 15,196 | S | 23,802 | 5,847 | 8 | 11,884 | 2,209 | |
| Works | 28,795 | 31,247 | | 13,309 | 37,097 | Ξ. | 55,948 | 43,095 | . 17 | 152,144 | 28,519 | 14 |
| \$0 14 | 273,199 | 272,928 | 100 | 362,744 | 324,782 | 100 | 338,473 | 253,257 | 100 | 637,073 | 204,060 | 100 |
| | | | | | | | | | | • | | |

(1): Department of personnel management and training and public service commission (2): Office of president and cabinet head quarters

(出典) Statistics on Development Assistance by OPC

46

表-6.4 国別/国際機関別によるセクターに対する援助額(1986及び1990年)

| | 1986 | 经票 | | | | | | | | 異位: | (1000) | もドル) | |
|-------------|--------|-------|-------|---------|-------|--------|--------|-------|--------------|-------|--------|--------|---------|
| | AX | 製造製工 | ネルギー | 深道 | 24 (3 | 退的 | 教育 | 保健 | 水道/街島 | 逐数 | その他社会 | | ## 11 |
| 援助包 | | | | - | | | | | | | サービス | サービス | 10.05 |
| RO. | | | | 1,600 | | 3,074 | | | | | 88 | 5,704 | 16,372 |
| カナダ | 2,010 | 860 | | 3,047 | | | 200 | | | | • | . 72 | 8,189 |
| デンマーク | 50 | | | 1,236 | 2,730 | | | | ъ | | | 535 | 4,557 |
| フィンランド | | | | | | | | | | | | | 0 |
| フランス | | | | | 5,873 | | | | | | | = | 5.873 |
| ドイツ | 922 | 922 | 461 | 6,912 | | 518 | | | | : | | | 9,735 |
| インド | | | | | | | | | | 1,395 | 230- | - | 1,949 |
| イタリー | | | | | | | | | 385 | | | - 88 | 473 |
| 8* . | 1,038 | | | 11,239 | | 1,780 | 3,234 | | | | | | 17,291 |
| オラング | 29 | | | 2,041 | | | 143 | | | | | 1,633 | ·3,846 |
| ノールエイ | • | | 830 | | | | | | | | | | 830 |
| *.ca | 2,250 | | | | | | | | : | | | | 2,250 |
| 南アメリカ | 113 | | | | | 9 | - 5 | 163 | } | | 2 | | 292 |
| USAID | 716 | 1,564 | | 4,492 | | 585 | 2,620 | 1,790 | 962 | | 399 | | 13,128 |
| 找什 | 7,128 | 3,346 | 1,291 | 30,567 | 8.603 | 5,966 | 11,108 | 1,950 | 1,353 | 1,396 | 719 | 9,355 | 82,785 |
| 国岸域科 | | | | | | | | | | | | | |
| AOB | | | | | 571 | 2,832 | | | | | | | 3,403 |
| ADF | 2,196 | | | | | | 108 | 530 | | | | | 2,834 |
| EEC | 2,483 | 1,940 | 1,964 | . 2,434 | | 6,192 | 337 | 543 | 3 | 85 | 428 | | 16,406 |
| FAO | 110 | | | | | | | | | • | | | 110 |
| FAD | 3,140 | | | | | | | | | | | • - | 3,140 |
| UNCOF | | 20 | | | | 166 | | 25 | | 72 | 15 | | 298 |
| אסאט - | | | | | | | | | | | | 4.300 | 4,300 |
| UNFPA | | | | | | | | 570 | | | | • | 570 |
| NICEF | | | | | | | | 1,420 | | | | | 1,420 |
| WHO. | | 1 | | | | | | 240 | | | | | 240 |
| WORLD BANK | 5,957 | 1.807 | | 57,103 | | | 10,028 | 243 | | 68 | | 482 | 88,563 |
| 群計 | 13,885 | 3,767 | 1,974 | 59,537 | 571 | | 10,473 | 3,571 | | 225 | | 4,782 | 121,284 |
| 因/四岸級胡撒助爾合計 | 21,014 | 7,113 | 3,265 | 90,104 | 9,174 | 27,497 | 21,581 | 5,524 | 1,877 | 1,621 | 1,162 | 14,137 | 204,069 |

| | 1990 | 年度 | | | | | | | | | | | · |
|--------------|--------|--------|-------|--------|---------------------------------------|--------|--------|--------|-----------|-------|-----------|----------|---------|
| | 英架 | 製造業工 | ネルギー | 然通 | 選化 | 運輸 | 教育 | 保護者 | 《選/衛生 | 建器 | | 计图/政府 | 经計 |
| 援助四 _ | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | サービス | サービス | |
| 英四 | 218 | | | | | 8,686 | 6,728 | | | | 97 | 7,463 | 23,192 |
| カナダ | | | | 2,542 | | | | | | | | | 2.542 |
| デンマーク | 768 | | | | | | | 732 | 4,697 | | 400 | | 5,197 |
| フィンランド | | - | | | | | | | | | 120 | | 120 |
| フランス | | 836 | | | 1,176 | | | | • | | | | 2,012 |
| ドイツ | 4,595 | 12,054 | 2.128 | 5,502 | | 12.681 | 160 | 394 | | 6,923 | 410 | 1,021 | 45,868 |
| インド | | * | | | | | | | | | | 176 | 176 |
| イタリー | | | | | | | | | | | | | 0 |
| 日本 | 2,656 | | | 2,578 | 11,786 | | 5,714 | | 1,079 | | | | 24.015 |
| オランダ | 518 | 3,662 | | | | | - | | | | | 1,878 | 6.058 |
| ノールヱイ | | 913 | 2,652 | : | | | | | | | | • | 3,565 |
| 米四 | 2,000 | | | | | | | | | | | | 2,000 |
| 用アメリカ | 121 | 143 | : 1 | | | | 50 | 330 | | | 150 | 1 1 1 | 794 |
| USAID | 4,702 | 1.915 | 53 | | | 6,043 | 1,782 | 3,135 | 241 | | 133 | | 18,004 |
| 经计 | 15,780 | 19,523 | 4,833 | 10,622 | 12,952 | 27,410 | 14,434 | 4,591 | 6,017 | 6,923 | 910 | 10.538 | 134,543 |
| 四层级风 | | | | | | | | | | | | | |
| ADB | | | | | | | | | | • | | | 0 |
| ADF | 162 | | 360 | ** | | 634 | | 177 | 2,727 | | | | 4.050 |
| EEC | 27,651 | 2,236 | | 539 | | 2.212 | 295 | 1,739 | 209 | 116 | 1.481 | 33 | 35.562 |
| FAO | | | | | | | | | | | | | 0 |
| IFAD | 726 | | | | | | | | | 1 | | | 726 |
| UNCDF | | | : | | | | | | : | | | 1. 4. 4. | 0 |
| UNDP | | | | | | | | | | | | 12,200 | 12,200 |
| UNFPA | | | | | | | | 1,250 | | | ٠. | | 1,250 |
| NICEF | | | | | - | | | | | 100 | | 100 | 0 |
| WHO | | | | | | | | | 3 1 1 1 A | | 4 14 11 4 | | 0 |
| WORLD BANK | 11,925 | | 476 | | | | 11,327 | 5,445 | 3,932 | 831 | | 1,208 | 83,587 |
| 22.1 | 40,474 | 44,937 | 836 | 539 | 0 | | 11,623 | 8.611 | 6,868 | 947 | 1.461 | 13,501 | 138,385 |
| 因/因際似刻視動類合計 | 58,254 | 64,480 | 5,869 | 11,161 | 12,962 | | 26,057 | 13,202 | 12,885 | 7,870 | 2,371 | 24,039 | 272,928 |
| 1986年に対する増加。 | 268 | 906 | 174 | 12 | 141 | 131 | 121 | 239 | 686 | 486 | 204 | 170 | 134 |

(出典) Statistics on Development Assistance by OPC

表7.1 農業省職員構成

| 随種 | 1 | 989/90年 | | 1990/91年度 |
|---------------------|--------|---------|---------|-----------|
| | 規定ポスト数 | 実際の職員数 | ·空席数 | 規定ポスト数 |
| | • | | | |
| Superscale | 194 | 140 | 54 | 196 |
| Professional | 300 | 217 | 83 | 351 |
| Technical | 685 | 552 | 133 | 670 |
| Executive | 183 | 129 | 54 | 162 |
| Secretarial | 220 | 181 | 39 | . 259 |
| Nursing | 1 | . 1 | Ō | 1 |
| Clerical | 1,123 | 951 | 172 | 1,219 |
| Technical assistant | 3,705 | 3,399 | 306 | 4,005 |
| Subordinate | 864 | 660 | 204 | 944 |
| 合計 | 7,275 | 6,230 | 1,045 | 7,807 |

(出典) Agricultural Sector Review and National Technical Cooperation Assessment and Program by UNDP/FAO

※7.2 職業徇予算(1987/88-90/91年度)

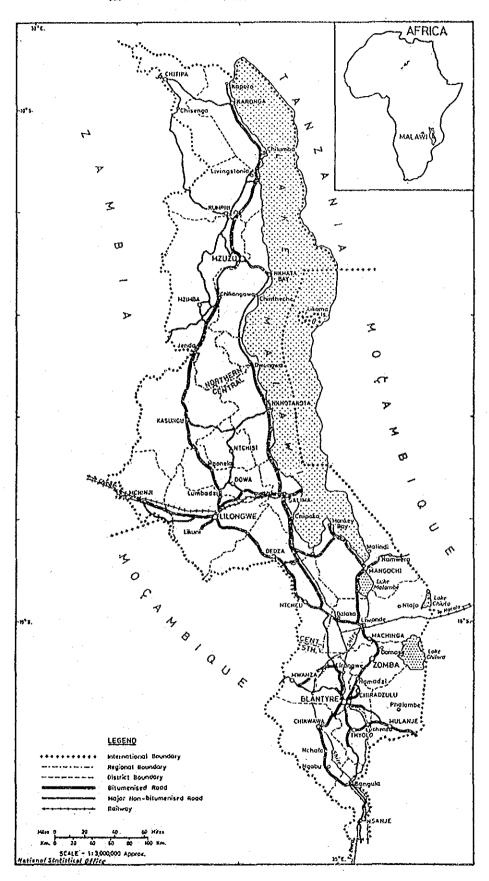
| | | | | - | , | トレナ | , | |
|----------------------------|------------|-------------|------------|------------------|------------|------|-------------|----------|
| | 1987/88 | 8年底 | 1988/89 | 年函 | 1989/90併版 | 斑斑 | 1990/90年 | 丰扊 |
| 85 PS | 実績 割 | (%) o | 修正 割 | 896 (%) | 予想 劉名 | (%) | 予想 · 副 | 合(%) |
| | | | | | | | | |
| (I)Revenue budget | | | | | | | | |
| Administration/General | 3,324,797 | 10.2 | 4,025,782 | 10.5 | 2,765,294 | 6.5 | 3,335,223 | 6.1 |
| Natural resources college | 1,339,887 | 4 1 | 1,747,658 | 4.5 | 1,945,282 | 4.6 | 2,679,182 | 4.9 |
| Agricultural research | 4,039,387 | 12.4 | 4,589,917 | 2.5 | 5,551,283 | 13.1 | 7,004,336 | 12.9 |
| Veterinary services | 5,737,053 | 17.8 | 6,340,671 | 16.5 | 7,103,965 | 16.8 | 8,148,117 | 15 |
| Extension aid branch | 693,617 | 2.1 | 918,157 | 2.4 | 1,077,499 | 2.5 | 1,230,768 | 2.3 |
| Agriculture | 930,197 | 2.9 | 1,310,059 | 3.4 | 1,516,270 | 3.6 | 2,578,067 | 4.7 |
| Ngabu ADD | 2,013,224 | 6.2 | 2,293,950 | w | 2,406,330 | 5.7 | 3,399,809 | 6.2 |
| Blantyre ADD | 2,093,420 | 6.4 | 2,219,268 | 5.8 | 2,646,057 | 6.3 | 3,360,084 | 6.2 |
| Liwonde ADD | 2,071,676 | හ ග | 2,285,080 | က | 2,475,747 | 5.9 | 3,262,825 | ധ |
| Salima ADD | 1,489,667 | 4.6 | 1,767,974 | 4 , Θ. | 1,944,954 | 4.6 | 2,772,439 | r. |
| Lilongwe ADD | 3,521,905 | 10.8 | 3,849,256 | 5 | 4,740,287 | 11.2 | 5,829,629 | 10.7 |
| Kasungu ADD | 1,544,497 | 4.7 | 1,863,512 | 4.8 | 2,042,571 | 4.8 | 3,227,832 | 5. 0. |
| Mzuzu ADD | 2,308,693 | 7.1 | 2,596,978 | 6.7 | 2,921,794 | 6.3 | 3,703,485 | 6.8 |
| Karonga ADD | 1,528,043 | 4.7 | 1,776,402 | 4.6 | 2,123,949 | S | 2,759,647 | 5.1 |
| Irrigation department | 0 | 0 | 938,561 | 2.4 | 1,027,429 | 2.4 | 1,191,757 | 2.2 |
| +15 | 32,636,063 | 56.5 | 38,523,225 | 49.6 | 42,288,711 | 46.3 | 54,483,208 | 48.0 |
| | 1 | • | | | | | | ţ |
| (II)Development budget | 25,112,017 | 4 4 | 39,102,222 | 20 | 49,000,000 | 54 | 28,000,000 | N O |
| 습닭([+!]) | 57,748,080 | 100 | 77,625,447 | 100 | 91,288,711 | 100 | 113,483,208 | 100 |
| Goods&services/personal em | emolument | 8 8 8 | | 80.5 | | 79.4 | | 59.5 |

ADD: 模樣阻塞地区

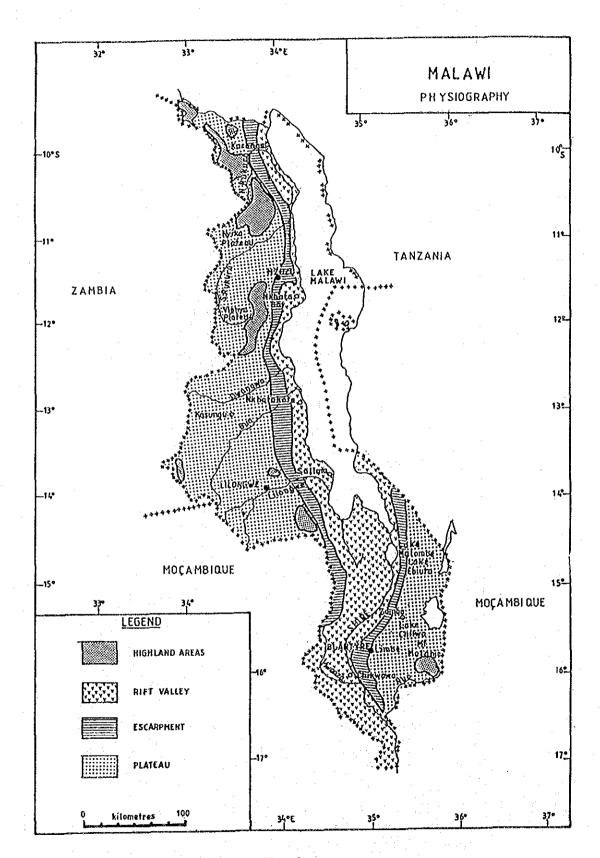
(出典) Agricultural Sector Review and National Technical Cooperation Assessment and Program by UNDF/FAO

付 図

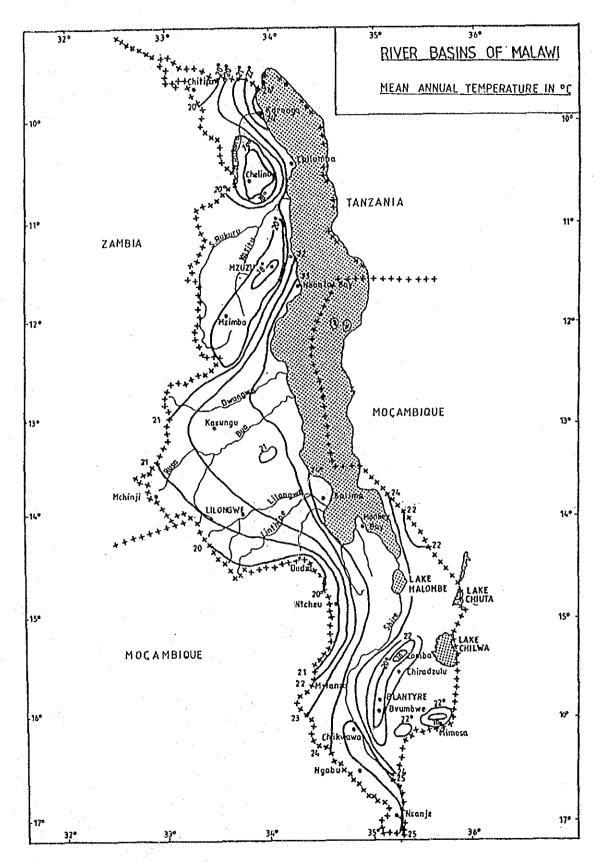
図-2.1 マラウィ国行政区分図



(出典) Malawi Population and Housing Census, 1987

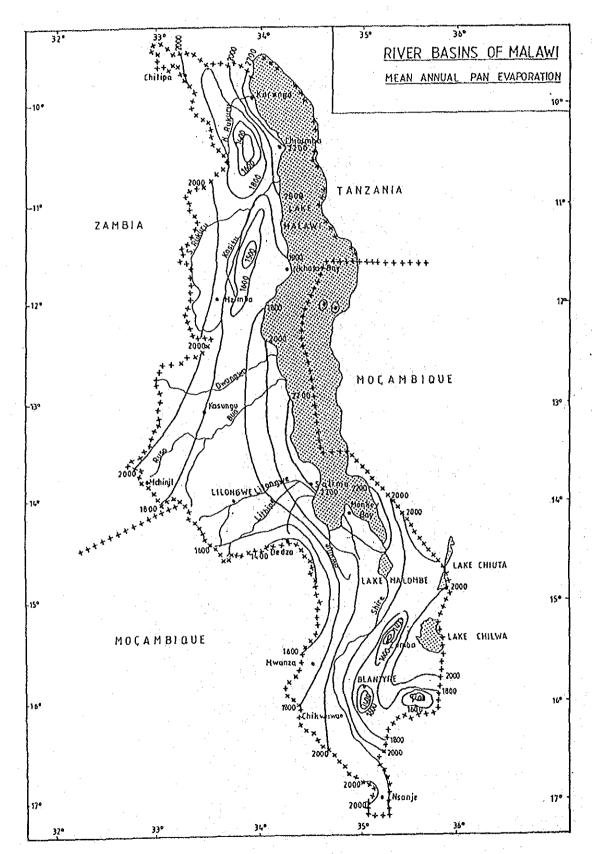


F - 2



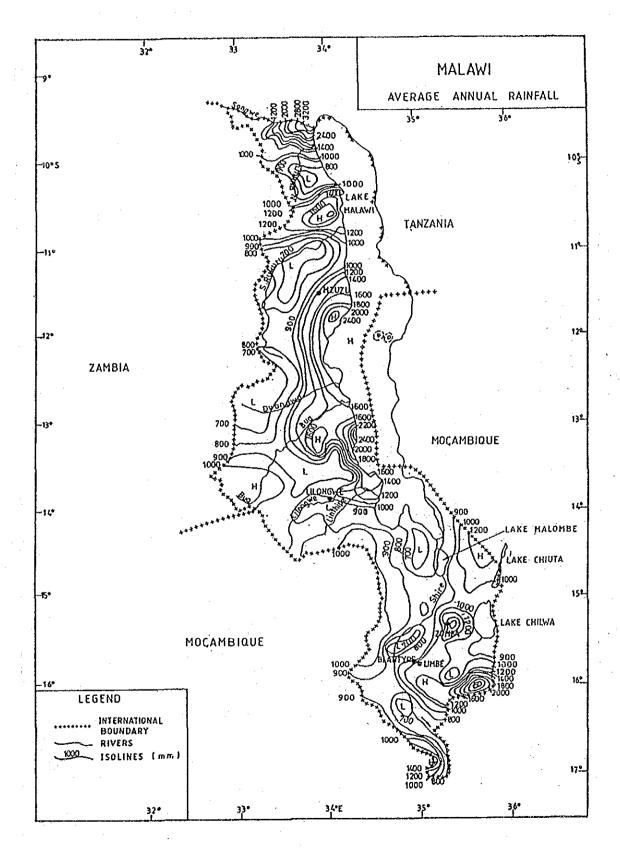
F - 3

(出典) National Water Resources Master Plan, 1986 by UNDP

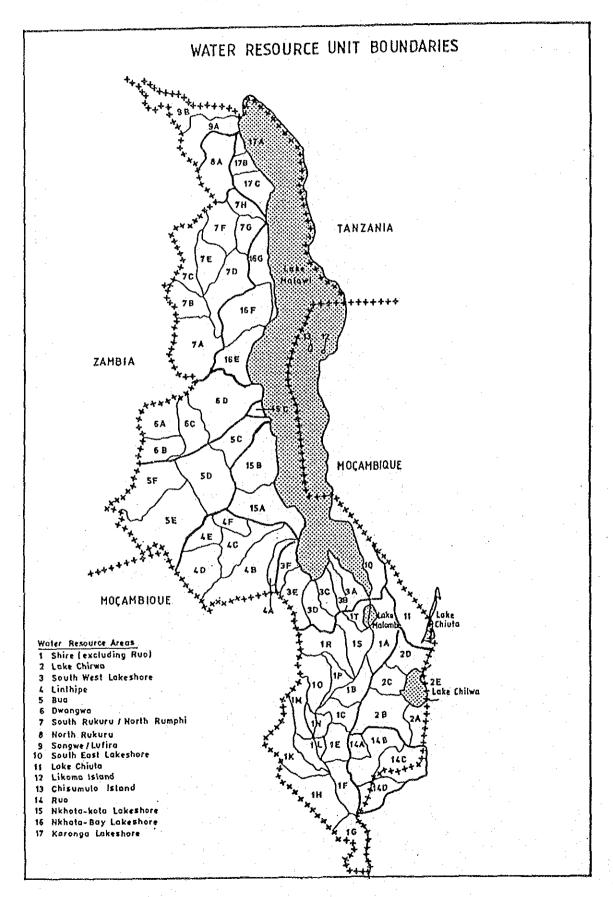


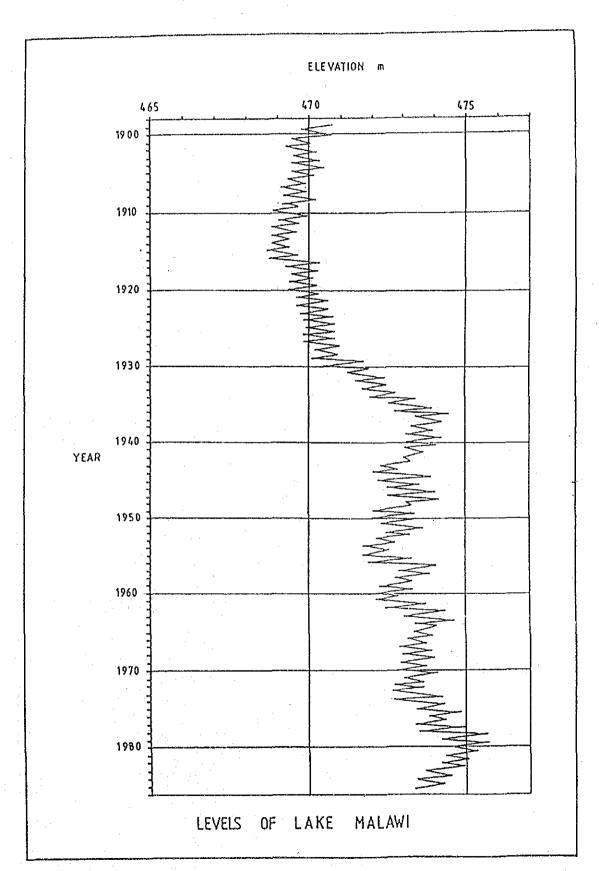
F - 4

図-3.4 年平均降雨量、等雨量線図



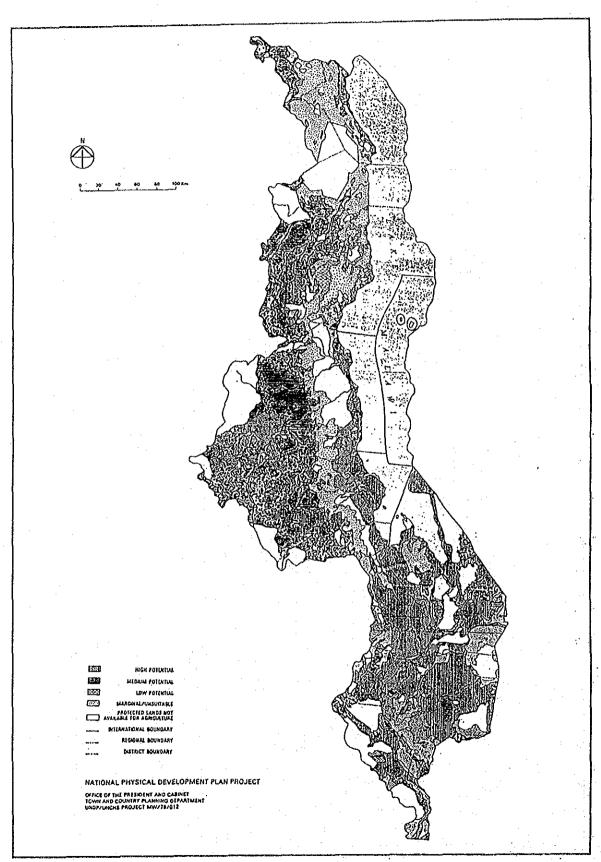
F - 5

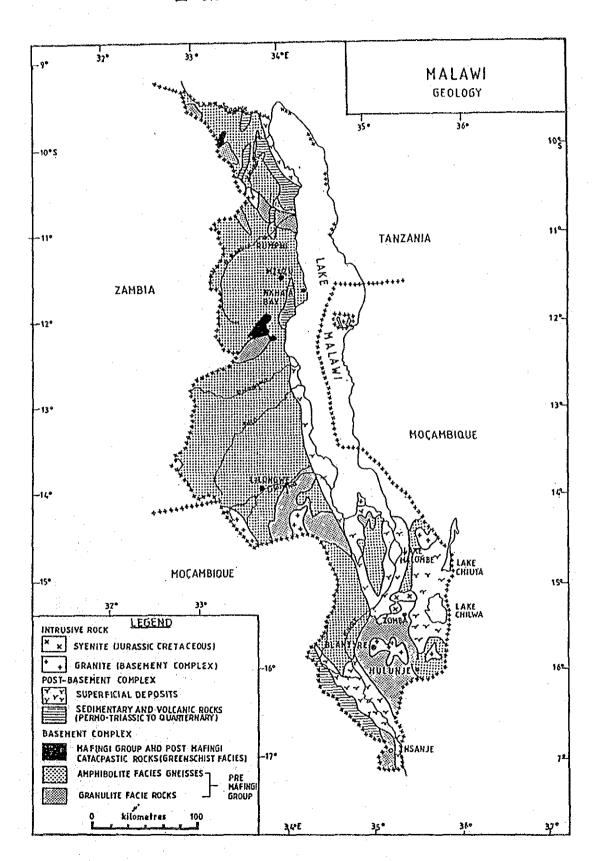




F - 7

図-3.7 マラウィ土地分級図





F - 9

図-4.1 マラウィ既存灌漑地区位置図

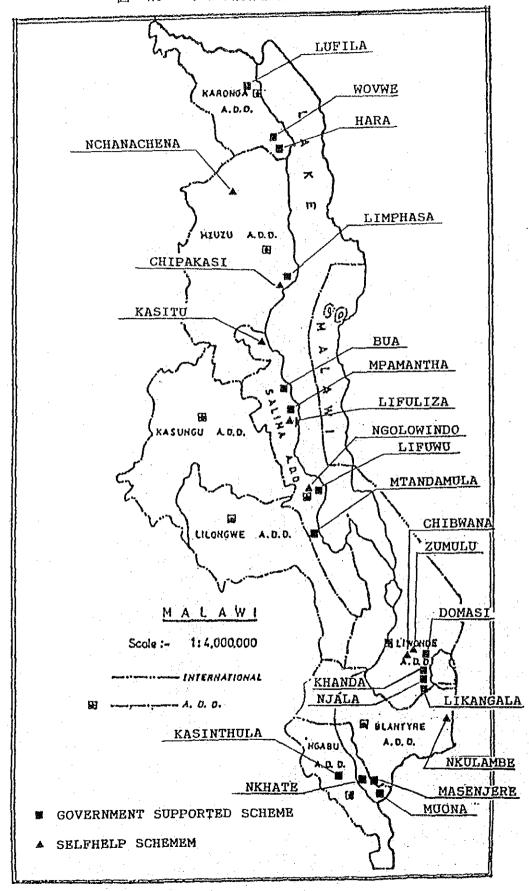
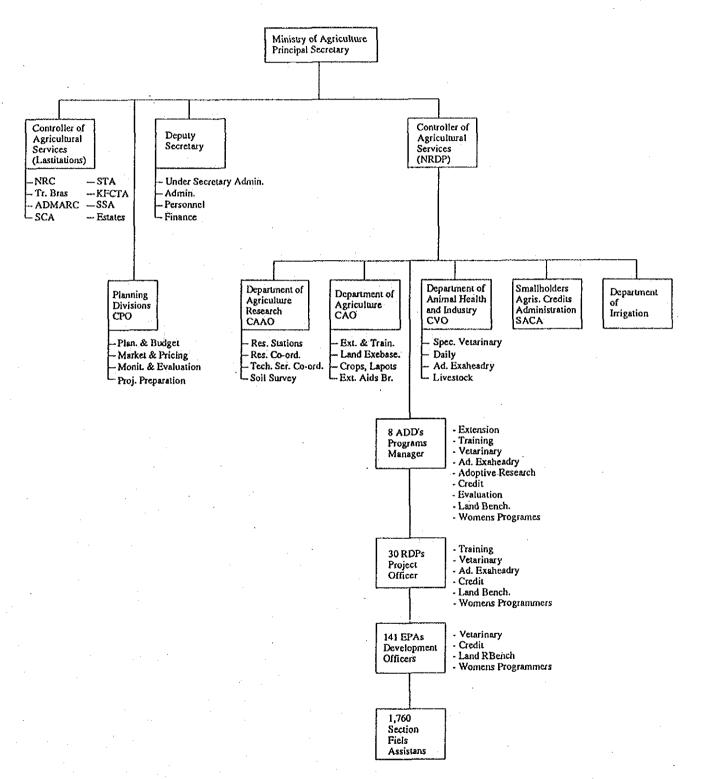
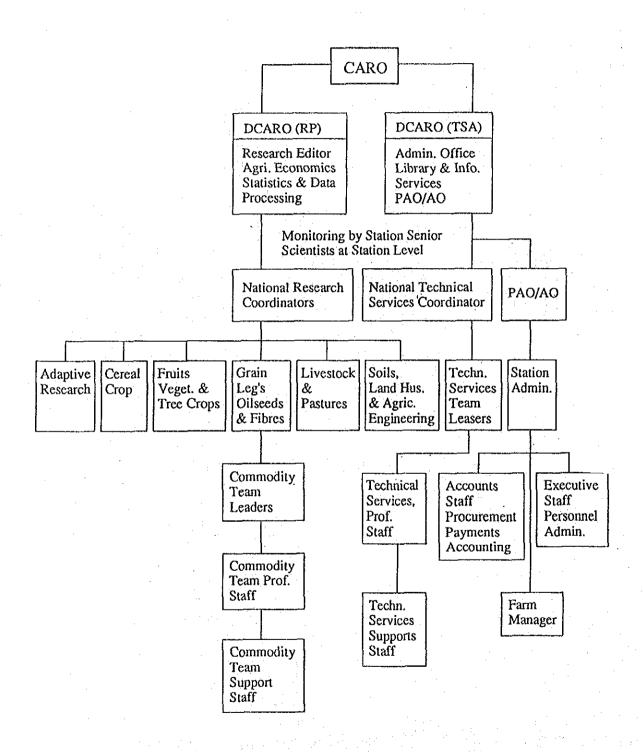


図-7.1 農業省組織図

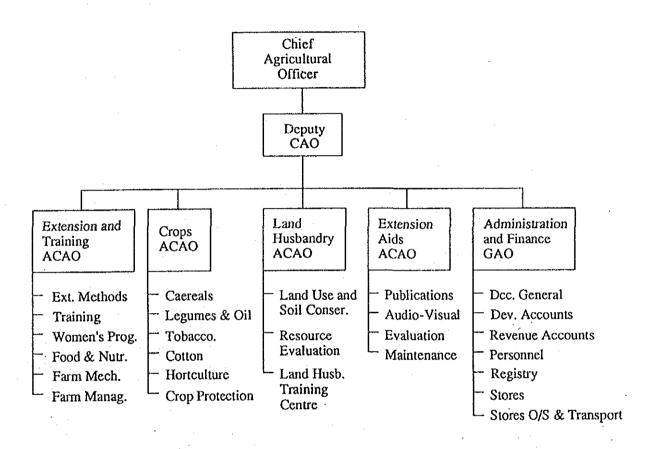


(出典) Agricultural Sector Review and National Technical Cooperation Assessment and Program by UNDP/FAO

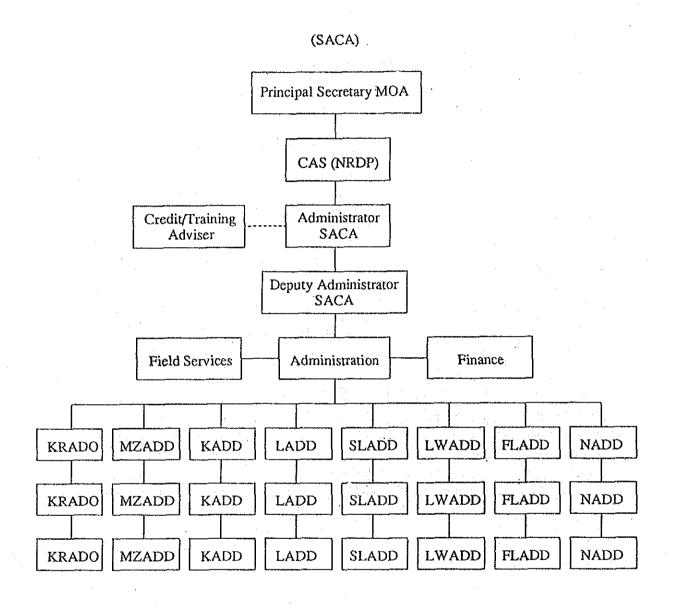


(出典) Agricultural Sector Review and National Technical Cooperation Assessment and Program by UNDP/FAO

(Under Revision)

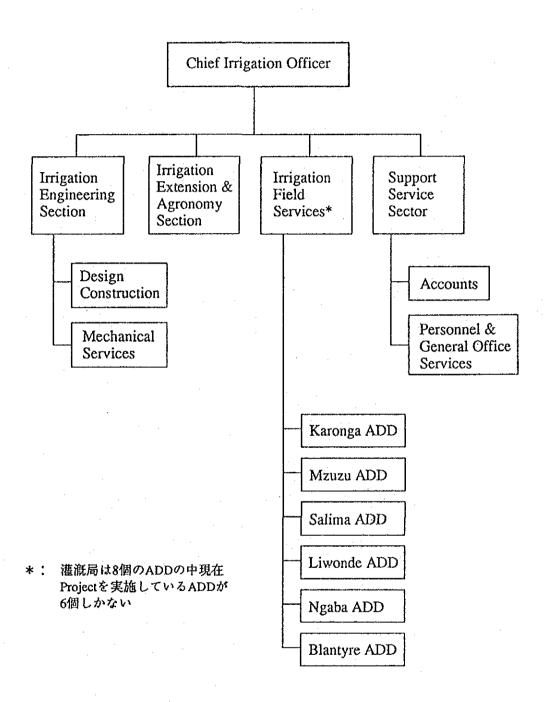


(出典) Agricultural Sector Review and National Technical Cooperation Assessment and Program by UNDP/FAO

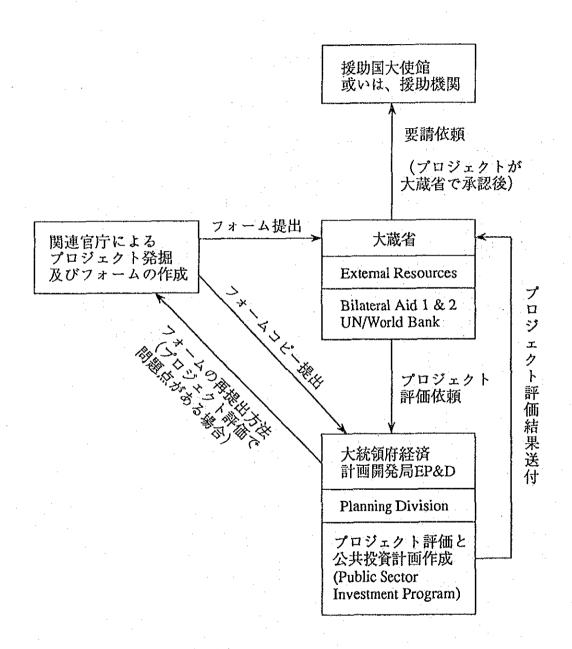


(出典) Agricultural Sector Review and National Technical Cooperation Assessment and Program by UNDP/FAO

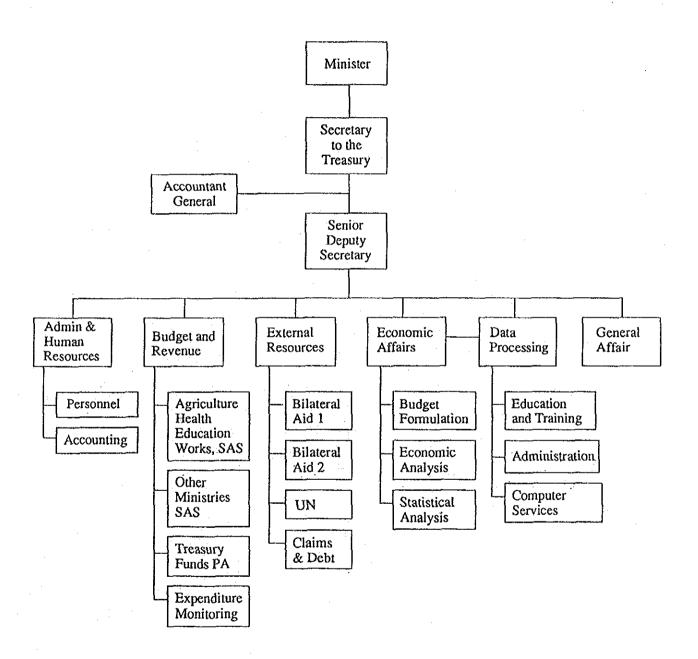
図-7.5 灌漑局 (Department of Irrigation) 組織図



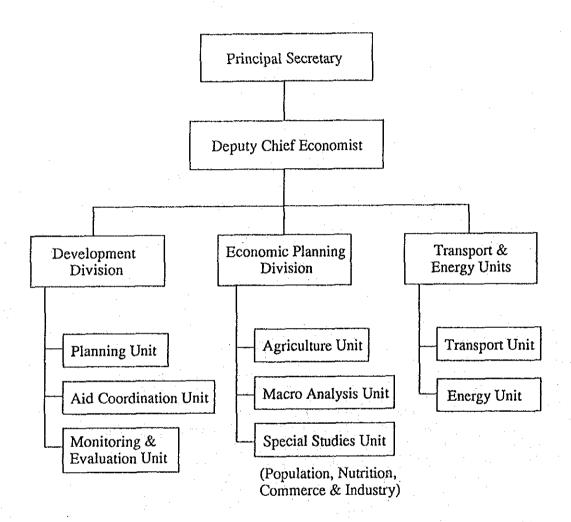
(出典) Irrigation Department of MOA



(出典) Office of President and Cabinet



(出典) Office of President and Cabinet



(出典) Office of President and Cabinet

(2) 収集資料リスト

| 以集番号 | 収集备号 発行機關 (1) 国家程済/大統領府発刊 | * | |
|---------|------------------------------|---|---|
| , U | 大批鐵府 | 1992 Economic report, 1991 | マラウイ図熱液実織、毎七クター路、1992年段 |
| E.2 | 大杖領府 | 1991 Economic report, 1992 | 9 一説 - 0 9 |
| ကို | 大統領府 | 1990 Mid-year economic review, 1990/91 | セラウイ国統治機械のフガゴー、1990/1991年版 |
| 7 | 大統領所 | 1989 Mid-year economic review, 1989/90 | 疑のファィー・1969/ |
| Щ SS | 大統領帝 | 1989 Statistics on development assistance, 1989 | 1989年度、国路、 4型 |
| 9 | 大統領府 | 1988 Statistics on development assistance, 1988 | 1988年度、図別、分野別、 |
| E-7 | 大統領府 | 1987 Statistics on development assistance,1987 | 1987年度、国別、分野別、 |
| ы В | 大統領系 | 1996 Statistics on development assistance, 1986 | . 1986年度, 国別、分野別、 |
| o o | 大林鏡布 | 1990 Statistics on development assistance, 1990 | 医胱蓝形の甘蔗、1990年版、回班、小野鸡、双肉鸡 |
| | (2) 自然環境関係資料 | | |
| ž | UNDP | 1976 A water resources assessment of take Matawi | レレクト迸の天幻灯響のパタデー |
| Š | Dwangwa sugar cor.Ltd. | 1979 Memorandum of probable future variations of level of lake Malawi | |
| ę | FAO | 1989 Petential evapotranspiration studies in Malawi | |
| ž | 计初头脉络囱 序 | 1983 Groundwater resources of Malawi | マシウイ会士の地下水道駅に関するスタデー |
| φ | 眼狀故跡德 | 1987 Soil surveys 1971-1972 | 特定地区の土壌調査、Bwanja valley地区は含まれていない |
| φŽ | Meteorological dep. GM | 1982 Climatological tables for Malawi | マラウイ会士の観察水文道は、1963-1978年間の中辺図 |
| Z-7 | UNDP | 1986 Natural water resources master plan | マラウイ国会士の水資源に関する盟加資料 |
| ٠ | | | |
| | (3) 社价裁过超级政策 | | |
| ? | National statistic | 1987 Population census, Malawi, 1987 | 母常商人口格群、district アメン |
| ŝ | _ | 1981 Population census, 1977, Malawi, Salima district | 1977年沒格人口統計、Salima district 详密人口就好 |
| တ | National statistic | 1987 Statistical yearbook, 1987 | 医统計局作死統計 |
| Ţ | | 1991 Monthly statistical bulletin, June 1991 | 、超阻、聚聚伯奇、凝粒、政府財政、物価等 |
| လူ | | 1991 Monthly statistical bulletin, May 1991 | 瓦略、顺用、最鲜什像、浇造、以后取取、、苍屈体、统对 |
| ൃ አ | _ | 1988 Malawi, Tourism report 1987/88 | 観光に成する年次報告 |
| S-7 | | 1990 Report and account | リゲーブ気行の1990年年次報中 |
| S, | | 1989 Budget statement, 1989 | 中村禁仰事 1060 |
| ė, | Ministry of finance, GM | 1990 Budget statement, 1990 | 小は銘作動1990 |
| رج 5 | | 1991 Budget statement, 1991 | - 1 1 2 3 3 1 1 2 3 3 1 1 1 2 3 3 1 1 1 1 |
| S-11(a) | | 1987 Malawi, Balance of payments, 1987 | 国際仮攻、1987 |
| S-11(b) | National statistic | 1986 Malawi, Balance of payments, 1986 | 回数反对、1986 |
| S12 | | 1988 Annual statement of external trade, 1985 | 1985年假對即年次整化 |
| \$13 | _ | 1988 The apropriation accounts revenue statements | 1887年附升时中村建 |
| ₽-7. | - | 1990 Nutrition facts for Malawi families | レルケイ図の米煮汁軽ナや食飲製品物 |
| S-15 | Ministry of finance, GM | 1991 Annual report of the registrar of insurance, 1989 | マラウイ図の1989年度保険行館する資料 |
| S-15 | _ | 1991 The apropriation accounts revenue statements | 和林小兴小区计6000 |
| | | | |

| ĺ | | | |
|-----|---------------------------------|--|-----------------------------------|
| 収集 | 収集 発行機関 | 発行年 資料タイトル | 内容の概要 |
| 阜 | 泰号 (4) 聚苯酰保波科 | • | |
| ¥ | A-1 Ministry of agriculture, GM | 1991 Guide to agricultural production in Malawi, 1990-1991 | マラウイ国主要作物生産教況および奨励状態法 |
| 4.2 | A-2 Ministry of agriculture, GM | 1985 Annual survey of agriculture in Salima district | 1985年度詳細最康および農業生産調査結果(サリマ地区) |
| ę, | National statistical office | 1984 Nationa sampling survey of egriculture, vol-1 | 全国を対象にした農業調査(展演実際調査) |
| ¥ | National statistical office | 1984 Nationa sampling survey of agriculture, vot-2 | 会国を対象にした農業調査(作物および収益) |
| Ą. | National statistical office | 1984 Nationa sampling survey of agriculture, voi-3 | 全国も対象にした最楽調査(収入および作物収支) |
| A-6 | Landell Mills association Ltd | 1986 Bwanje farm, Malawi | エステート会社によるBwanje valley 開発調査報告書 |
| A-7 | Ministry of agriculture, GM | 1990 Five year extension strategy | マラウイ図の替及に関する5カ年計画会 |
| Ą | A-8 Ministry of agriculture, GM | ? A description of crop varieties grown in Malawi | マラウイ国主要作物の品種の解説 |
| A-5 | A-9 Ministry of agriculture, GM | 1991 Crop production estimate | 1985-19910主要作物生産、作付面積、収盘資料、 |
| | | | |
| | (5) 超常學園與有資本 | | |
| ŏ | 0-1 大統領部 | 1990 Food security and nutrition policy | 国家開発計画のポリシーの食程安全保障に関する資料 |
| ő | D-2 大統領府 | Statement of development policies, 1987-1996 | 最新版 5 力年国來開発計画書 |
| Ö | AONO | 1987 National phylsical development of plan(vol-2) | 都市開発對画雀(現況分析鑑) |
| 4 | UNDP | 1987 National phylsical development of plan(vol-1) | 都市網条計画等 (生聚烯) |
| ្ត | D-5 World Bank | 1990 Public expendiure review, Malawi | 由数据宏紹門の改出種のフルルーと勧告 |
| 9 | MF/World Bank | 1989 Policy framework paper(1989/90-1991/92) | 5.カ年開発計画に対する1.9.8.9~9.2年間における勧出政策 |
| | | | |
| | (6)その治療告徴 | | |
| ۶. | O-1 World Bank | 1990 Malawi training sector survey. | 跟蒋討西に対する世界銀行報告書 |
| 8 | O-2 UNDP/FAO | 1990 Agricultural sector review and NATCAP planning mission | レルセト国際状のフガリーが破株パロケル技術医的状状型面 |
| g | USAID/Colombia university | 1989 Overview of smal scale/self-help infigation development in Matawi | コロッド大学数板による凝液解発に対する値段表 |
| Ş | O-4 World Bank | 1991 Country brief | 世界銀作作成マックイ図数解認思報 |
| ò | O-5 UNDP | 1991 Development cooperation 1989 report, Malawi | UNDP(マラウイ)年次報告否 |
| g | GM/Hunling | 1986 Imgation study phaselil feasibility studies(vol-1) | ツフ加浦教医院院画権 |
| ò | O-7 World Bank | 1990 Growth through peverty reduction | 有些観作作長、レックト回とソトシーフボート |
| ő | O-8 GM | 1990 Statement of policy on technical cooperation for human/institutinal 人的/超越開発に対する技術協力に関する政府の方針設明書 | 人的人類機関発に対する技術協力に関する政府の方針設明者 |
| | | development in Malawt | |
| ĺ. | | | |

9. 農業開発案件

9.1 開発案件概要

マラウィにおける農業は国家経済の基盤として位置づけられ、マラウィ政府の開発戦略としても農業開発は重要な部門を占めている。日本はこれまで空港、通信、倉庫、生活用水等の整備及び肥料援助等に関して、有償、無償の援助を続けてきたが、農業部門に関しては、無償資金協力及び海外青年協力隊の活動に限られている。

農業開発案件(灌漑部門)として種々の灌漑開発案件があるが、その内正式に日本に 要請されている案件はブワンジェ谷小規模灌漑農業開発計画(Bwanje Valley Smallholder Self-Help Irrigation Project) 1 件であり、叉IICAマラウィ事務所に非公式に打診のあった案 件が3件及びその他の案件が7件ある。以上の案件に関しての概要を表-9.1に示すと共 に、プロジェクト名、要請内容等を下記にとりまとめた。叉、正式に要請されているブ ワンジェ谷小規模灌漑農業開発計画に関しては次項で詳細に記す事とする。

| プ | ・シ | _ | ħ | 卜名 |
|---|----|---|---|----|
| | | | | |

要請内容

(日本への正式要請案件)

 ブワンジェ谷小規模灌漑農業開発計画 (Bwanje Valley Small-Holder Self-Help Irrigation Project)

(JICAマラウィ事務所への非公式打診案件)

- ロビダム建設・開発計画 (Robi Dam Construction and Devleopment Project)
- カロンガ地区小規模灌漑開発計画 (Small Scale Self-Help Irrigation Project)
- 全国砂糖栽培計画
 (Expansion of Smallholder Sugar Authority Sugarcane Production)

(その他の案件)

- 花概局強化計画 (Strengthening of the Newly Formed Irrigation Department in the Ministry of Agriculture)
- リウォンデADD小規模灌漑開発計画 (The Development of a Sclf-Help Irrigation Project)

- プワンジェ谷農業開発に関しての開発
- 詳細は9.2項に記す

調査

- ダム建設による農業開発の資金援助 及び技術協力
- ー カロンガADD管轄内小規模花漑農業開 発に関しての資金援助
- 砂糖栽培に適した地区の選定及び その調査に関する技術協力
- ー リウォンデADD管轄内農業開発に関する 資金援助
- ー ドイツ政府により援助される予定

| 要請 | 内容 |
|----|----|

プロジェクト名

- 小規模確准農業開発計画 (Improving Agricultural Production by Introduction of Irrigation Method and Self-Help Irrigation Scheme)
- リロンゲ及びカスンクADD管轄内の遊漑 農業開発に関する技術協力、機材供与
- 4) マラウィ自助努力灌漑開発計画 (Development of Self-Help Irrigation Schemes in Malawi - Implementation)
- ー マラウィにおける自助努力灌漑プロジェ クトに関する技術協力
- 5) ゴロウィンド小規模灌漑地区強化計画 (Ngolowindo Micro Irrigation Scheme)
- 欧州共同体による援助継続案件

- 6) 自助努力灌漑援助プログラム (Self-Help Irrigation Support Program -Preparatory Phase)
- 欧州共同体援助により連設された (1986/88)コロウィンド灌漑地区の強化計 画(倉庫、事務所等の建設)に対する資金援助

- 7) 小規模灌漑地区改修計画, II期 (Smallholder Irrigation Rehabilitation Project, Phase-II)
- 自助努力灌漑計画に対する全体的な 技術協力
- 国連食糧生産機構/国連開発計画による 援助プログラム
- マラウィ既存灌漑地区改修に関する資金 援助及び、技術協力
- デンマーク国際開発庁により援助継続中

9.2 ブワンジェ谷小規模灌漑農業開発計画

9.2.1 位置

ブワンジェ谷小規模灌漑農業開発計画は、マラウィ政府により日本への技術協力の要請のあった、唯一の案件である。政府はブワンジェ谷の農業開発を、最重要開発計画のひとつとして位置づけておりこの調査をぜひとも進めて貰いたいとの農業省の意向であった。下記に現地調査の概要を示すと共に、マラウィ政府からの要請書概要及び要請書を添付資料(4)に添付する。

本調査の対象地域は、農業省の行政区分の1つ、サリマ (Salima) Agricultural Development Division (ADD)の管轄地区にある。計画対象地区は、首都リロンゲ (Lilongwe) の東約80 kmのサリマ市より、南に約50 kmの位置にあり、国道M-17 (Salima-Balaka線) にそって広がる地域である。調査対象地区としては計画対象地区内を流下する河川の流域面積を考慮すると、約2,500 km² (250,000 ha)となる。

図-9.1に対象地区の位置図を示す。

9.2.2 対象地区現況

(1) 地形/河川形状

計画対象地区の標高は、約450~550 mの範囲にあり、マラウィ湖に向かって1/200~1/500の勾配をもって傾斜している。国道M-17の西側には低い丘陵が追り、その裾部分には微地形が目立つ。またM-17よりマラウィ湖の間の地区においても地形がローリングして、複雑な地形になっている箇所も数多くみられる。地区内小河川の上流部は上述丘陵部において非常に急峻で階段状に流下し、国道との交差部では河川が深さ2~5 m切込まれた状態となっている。しかし、国道の東側へ5 kmマラウィ湖に下ると、河川が網状に流れ、河道の判別が難しい状態で流下している。

(2) 土壌/植生

調査対象地区に目られる土壌は大きく次の3種にわかれる:

(a) リトソル : 国道西側の丘陵地帯より国道付近まで分布し、一部ラテライ

ト様に酸化・固結した土層が下層にみられる。一般に草地で

耕作の跡が無い。

(b) 赤色沖積土 : 国道付近からやや東に下った地区に分布、土層は一般に薄く、

50 cm ~1 m下に上記ラテライト様の層が多く見られる。メイ

ズ、綿等の非灌漑畑作が行われている。

(c) 灰色沖積土 : (a), (b)以外の低位部に広がる、Sandy-Silty Clay土壌。一部

Black Cotton Soil様の黒色土壌が見られる。赤色沖積土地域に

近い地域では、綿、メイズ等の畑作、低位部で水田が見られ

る。

西側丘陵地帯には森林が見られるが、丘陵裾部よりマラウィ湖までは、河川岸と一部の地区を除けば、樹林とよばれるものは見られない。一般に、疎らなアカシア系の樹木、灌木とブッシュが覆っている。

(3) 水文/気象

調査対象地区の年間降雨量は、600~900 mm。南西部丘陵地帯では、1000 mm前後の降雨量となる。降雨の95%は雨期(11月~4月)に集中する。月平均最大降雨量は例年1月に記録されるが、観測所によって1ヶ月程度前後する。同地区内の雨量観測所は平野部(国道付近から東側)に4ヶ所、丘陵部に5ヶ所設置されているが、地域的に偏向しており、調査対象地区全域をカバーする観測所網となっていない。

| 観測所 | | 位置 | | · 5 | 観測所 | 平均年雨置 |
|------|-------------------|-----------|------------|-------|------|-------|
| 番号 | 観測所 | Lat. (S) | Long. (E) | 標高. | 開始年 | (mm) |
| 3E01 | Mlangeni | 14 - 41' | 34 - 32' | 1,067 | 1902 | 964 |
| 3E02 | Mlanda | 14 - 29' | . 34 - 28' | 1,490 | 1932 | 1,078 |
| 3E03 | Nicheu Nkande | 14 - 47'. | 34 - 35' | 1,260 | 1939 | 1,031 |
| 3E04 | Mtakataka R. St. | 14 - 13' | 34 - 32 | 540 | 1944 | 805 |
| 3E05 | Mua Mission | 14 - 16' | 34 - 31' | 560 | 1947 | 944 |
| 3E06 | Ntakataka Agr. | 14 - 14' | 34 - 31 | 530 | 1954 | 682 |
| 3E07 | Myai Forest No. 3 | 14 - 47 | 34 - 36' | 1,501 | 1977 | 1,047 |
| 3F01 | Dedza Boma | 14 - 22 | 34 - 19 | 1,600 | 1920 | 1,077 |
| 3F02 | Ngodzi | 14 - 06 | 34 - 31' | 500 | 1948 | 944 |

(出典) Meteorological Department

同地区の気温はマラウィ湖岸で年平均摂氏24度、丘陵部で20度である。月平均最大 気温は湖岸地域で36度、丘陵部で32度で各々11月に記録されている。

地区内河川流量観測所は7ケ所あり、1950年代後半より流量観測が実施されている。下記に、その内6ケ所の流量記録概要を示す。

| 観測所 番号 | 河川名 | 集水 地域名 | 集水 面積(km²) | 年平均流量 (m³/s∞) | 最大月平均 流量(m³/s∞) | 最小月平均 流量(m³/sec) |
|-----------|-----------|------------------|---------------|------------------|--------------------|---------------------|
| 3E2 | Namkokwe | Mua-Livulezi F.R | 129 | 1.47 | 4.54 (Feb.) | 0.14 (Oct.) |
| 3E3 | Livulezi | Khwekhwelele | 452 | 3.29 | 12.30 (Feb.) | 0.26 (Oct.) |
| 3E5 | Namkokue | Kampanikiza | 44.2 | 0.89 | 2.37 (Feb.) | 0.12 (Oct.) |
| 3E7 | Nkhabde | Tohbola | 1.9 | 0.01 | - <u>-</u> | - |
| 3F2 | Nakaingwa | Ntakataka | 63.4 | 0.43 | 1.57 (Mar.) | 0.04 (Oct.) |
| 3F3 | Nadzipulu | Miakataka | 224 | 2.79 | 7.65 (Mar.) | 0.26 (Oct.) |

(4) 作物

計画対象地域内の主要作物は、綿花、メイズ、および米である。畑作物の作付規模は小さく、営農は非常に疎放であり、畑地と草地の判別が難しく、車両からの一瞥では見逃しかねない畑もある。また、左記畑作物の他に陸稲の栽培も一部で見られる。

水稲栽培は、国道より低位部の河川氾濫原を利用した疎放なものがあり、畔も区画もない湿地で行われている。一方、Salima ADDの管轄下で約230 haの灌漑水稲栽培を行っているが、営農、施設維持管理の不備により収量は低い(田面が一様に均平されておらず、同一場においても湛水深の違いから収量程度にバラツキがある)。

現況の各作物の収量は以下の通り:

- Hybrid maize

2.2~2.6 ton/ha

- Composite maize

: 0.7 ton/ha

- Cotton

 $0.7 \sim 0.75 \text{ ton/ha}$

- Rice (Faya Variety)

: 0.9~1.1 ton/ha (上記灌漑水田を含むかは不明)

(5) インフラ・ストラクチュア

首都リロンゲよりサリマに至る国道M-17は、一応有効幅員4~5 mの舗装道路であるが、いたみがひどく、全線の70%以上が走行に快適さを欠くが、雨季の通行は十分可能である。全般に、降雨による路肩の侵食が見られ、舗装面と路肩表面に段差があるなど高速走行に危険を伴う。現在、EC資金により新道路建設が進行中(英国の業者)である。一方、サリマから南下し調査対象地域に至る国道M-17は、同地区までの約50 kmのほとんどが無舗装に近い状態である。また、Cross Drainの容量不足のため、雨季には浸水、Over-Flowのために不通となる箇所もある。国道M-17の整備は、順次進めている国道整備計画に組込まれているが、一部整備されているにしかすぎない。地区内一般道は不備で、既存道路の雨季中の通行は相当に困難と思われる。

鉄道路線が、首都リロンゲよりサリマを経由し、地区内を縦断している(至モザンビーク)。現在、ブランタイアより、サリマ、リロンゲを通ってムチニ(Mchini)まで定期的に運行されている。

生活用水供給源として、浅井戸(手動式)が多く見られる。地下水面は9月現在で地表より3.0~5.0mの範囲(国道より低位部)にある。住民の話では、年間を通して井戸が枯れることは無いとのことである。

調査対象地区内唯一の灌漑地区はムタンダムラ(Mtandamula Irrigation Scheme 229.5 ha)である。同地区は1985/86年ECの資金援助で建設されたもので、ナムコクエ(Namkokwe)川下流域の洪水氾濫原を堤防で囲って水田としている。取水が自然取り入れ方式であること、乾季の灌漑用水の不足等により、灌漑は雨季とその前後に実施する補助灌漑に限られている。現在450家族が水田耕作にあたっており、収量は3.0 ton/ha弱である。

(6) 建設資機材

建設材料の内、砂、砂利、玉石等は地区内または地区近辺で調達可能であるが、セメント、鉄筋は著しく入手困難である。低位部の灰色沖積土はBlack Cotton Soil様であり、赤色沖積土は国道路肩の雨水侵食、成分よりみて盛土材料、特に流水面に接する盛土材料に最適とは言えない。農道等の簡易舗装材料(ラテライト、モラム)は地区内に豊富である。その他、一般資材(調査・設計資材、木製加工品、生活用

品等)の品不足が顕著であり、調査、設計、建設の各段階において資材の現地調達 は不可能と考えた方が良い。

建設機械の現地調達 (リース) は不可能で、軽重を問わず建設機械は持込みが必要。ただし、第3国内の陸路通過・輸送が必要となるため、搬入コストは非常に高くなろう。また、土木工事の下請け業者は期待出来ないが、首都リロンゲのビル建設の実績から、建築業者はある程度利用可能と思われる。なお、現地コンサルタントの期待は持てない。

9.2.3 開発計画実施機関

本計画の開発調査、設計、施工の各段階の実施は、農業省灌漑局が担当し、実際の業務はSalima ADDが当ると予想される。ADDの下にRural Development Project (RDP) Officeが設置されており、さらにExtension Planning Area (EPA) Officeがその下に配置されている。Salima ADDの既存灌漑施設の維持・管理体制は、灌漑施設に対してSelf-help schemeという位置付けをしていることから、堅固なものとは言えない。

9.2.4 開発必要性及び留意事項

(1) 開発目的

当プロジェクトの開発必要性及びその優位性として下記の点があげられる。

- (a) ブワンジェ地区においては小雨、低生産性により、農家は満足な食糧が得られず、栄養失調、不健康、劣悪な生活環境を招いており、改善する必要がある。
- (c) 人口過密地区である首都リロンゲ及びゾンバ、ブランタイアに近く、開発地区 はそれらの都市の中間地点に位置し、農作物の市場の点で、有利な戦略位置に あると同時に地区内を鉄道が走っていて、収穫物の輸送に適している。
- (d) 地区内をマラウィとしては比較的大きな流域面積を持った川が流れている。地区内の主な河川及びその概略流域面積は下記の通りである。

| and the state of t | |
|--|----------------------------|
| 河川 | 流域面積(km²) |
| 1) ナジプール (Nadzipulu) 2) ナムコクエ (Namkokue) 3) リブレジ (Livulczi) 4) ブワンジェ (Bwanjc) | 340 350 770 1,040 |

(2) 開発調査実施上の留意事項

今回の現場踏査及び調査事項を踏まえ、当プロジェクトを実施する上での留意事項 を下記に列記する。

- (a) 降雨が雨期に偏重し、乾期における利用可能な自然流下水の不足及び雨期の洪水のため、広大な可耕地をそのまま利用する事は出来ないと考えられる。また水文データを見る限りにおいては頭首工による重力灌漑方式を考える場合、乾期の灌漑可能面積は雨期のそれに較べ、かなり小さくなる。
- (b) 多数の援助国及び援助機関がマラウィの農業 (灌漑開発を含む) 部門に対し援助活動を行っているため、当プロジェクトを実施するにあたっては、各々の援助内容の整合性を明確にした上で計画する必要がある。
- (c) 雨期の洪水により、かなりの量の粗砂の堆砂が洪水氾濫地区に見られ、叉、土 壌塩分濃度の高い地区もあるので、計画地区における詳細な土壌調査が必要と なる。
- (d) 現在FAOの援助により、マラウィ全土の土地利用区分等の調査が行なわれている。土地利用区分調査のためマラウィ全土に渡り1/40,000及び1/25,000縮尺の航空写真が撮影されている。本計画地区では1/40,000の航空写真が撮影されているが、この写真を利用して地形図を作図した場合5mの等高線でしか信頼出来る地形図は作成出来ない(現在ある最大縮尺地形図は1/50,000、50フィート等高線)。一方地区内は起伏の多い地形であり、5m等高線の地図では灌漑計画においては役立たないため、少なくとも最低1m等高線の地形図が必要と考えられる。またこのためには少なくとも1/10,000縮尺程度の航空写真を新たに撮影する必要がある。
- (e) 1983年のデータによると、地区内にはいくつかのエステートがあるので、土地 利用計画に当たってはエステートの扱いを慎重に検討する必要がある。
- (f) 地区内には森林保護区があるが境界がはっきりしていないため、この境界を明確にさせると共に、開発計画において十分注意しなければならない。
- (g) 地区内を流下している河川は地区内において、河道が消滅している程のあばれ 川の様相を呈している。排水調査、洪水調査を行う必要があり、雨期の調査も 欠かせないものと考えられる。
- (h) 上記(g)を考慮すると取水工の位置も詳細に調査の上、慎重に決定する必要がある。

- (i) 地形が複雑な事、雨期と乾期における流量の大巾な違い等を考慮すると、灌漑 計画にあたっては、水資源、土壌、地形等を十分調査把握の上、効率的な対象 地区の選定が要求される。
- (j) 灌漑地区選定にあたっては、十分な農民及び農家が近くで確保出来る地区を対象とすることも重要である。そのためには詳細な村落調査、人口調査を行う必要がある。
- (k) 頭首工による重力灌漑のみならず、地下水及びマラウィ湖の水源を利用したポンプ灌漑も比較検討する必要がある。灌漑用及び洪水調節ダムを建設し、地区内を開発する案も考えられるが、堆砂の量が多く経済的なものとはならないと思われる。しかし堆砂量等を見積り、ダム案も比較検討してみる必要がある。
- (I) マラウィ湖岸沿いの低湿地部では住血吸虫病があり、同地域を対象に灌漑プロジェクトを計画する場合には、住血吸虫病に対する調査及び対策を検討する必要がある。
- (m) 地区内の開発計画は灌漑のみならず、域内輸送インフラの整備、生活用水供給等を含めた農村総合開発計画の観点から検討すべきである。
- (n) 地区内唯一の既存灌漑施設 (ムタンダムラ地区) の改修、拡張を開発計画案の中に取り込む事も考慮に入れる必要がある。

