

**1998 ANNUAL CROP
AND LIVESTOCK REPORT
GLENN COUNTY**



**GLENN COUNTY
DEPARTMENT OF AGRICULTURE**

P. O. Box 351
720 North Colusa Street
WILLOWS, CALIFORNIA 95988

**1998 ANNUAL CROP
AND LIVESTOCK REPORT**

GLENN COUNTY BOARD OF SUPERVISORS

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Keith Hansen
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Dick Mudd

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Ernest L. Simpson Deputy Commissioner
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Rey Lopez Senior Agricultural Biologist
Jean Miller Senior Agricultural Biologist
Bob Birdseye Agricultural Biologist III
Helmut Bloo Agricultural Biologist III
Maureen Bailey Office Manager
Debra Hubbard Senior Secretary
Sharron Lay Secretary

Air Pollution Staff:

Kevin Tokunaga Deputy Air Pollution Control Officer
Rick Steward Senior Air Pollution Specialist
Candy Woods Administrative Assistant
Trudy Silveira Air Pollution Assistant
Colleen Gustafson Senior Clerical Assistant

Cover Photo: Rice Field in Glenn County
Photo by Jean Miller.

May 4, 1999

William (Bill) J. Lyons, Jr., Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Glenn

I am pleased to submit the 1998 Annual Crop and Livestock Report for Glenn County as required by Section 2279 of the California Agriculture Code.

Agriculture Production took a beating due to the record 41.62 inches of rainfall. The value of 1998 agricultural production was down a devastating \$52,000,000 with field crop production and fruit and nut crops showing the largest decrease in production. Only livestock products, timber products, nursery products and apiary products showed a rise in production. We will all look back on 1998 and say thank goodness it is history.

Values given in this report are gross receipts received by growers and they, in no way, reflect the net income to growers.

I wish to express my appreciation for the cooperation and assistance of all individuals who contributed to this report and especially members of my staff who compiled the report.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Ed Romano', written in a cursive style.

Ed Romano
Agricultural Commissioner

Production and Value of Agricultural Products

FIELD CROPS - 1997-1998

| COMMODITY | YEAR | ACREAGE | PRODUCTION PER ACRE | TOTAL PRODUCTION | UNIT | PRICE PER UNIT | TOTAL VALUE |
|----------------------|-------------|----------------|------------------------|---------------------|---------|-------------------|----------------------|
| Barley | 1998 | 1,696 | 1.20 | 2,035 | Ton | 85.00 | \$173,000 |
| | 1997 | 1,795 | 1.32 | 2,369 | " | 122.00 | 289,000 |
| Beans | 1998 | 1,632 | .88 | 1,428 | " | 931.22 | 1,330,000 |
| | 1997 | 2,312 | 1.12 | 2,583 | " | 537.00 | 1,387,000 |
| Corn | 1998 | 19,522 | 4.50 | 87,849 | " | 82.00 | 7,204,000 |
| | 1997 | 16,582 | 4.80 | 79,594 | " | 114.00 | 9,074,000 |
| Cotton, Lint | 1998 | 789 | 1.75 | 1,382 | 500 lb. | 369.17 | 510,000 |
| | 1997 | 818 | 2.06 | 1,684 | Bale | 375.00 | 632,000 |
| Cotton, Seed | 1998 | | | 587 | Ton | 190.00 | 112,000 |
| | 1997 | | | 699 | " | 180.00 | 126,000 |
| Hay Alfalfa | 1998 | 16,959 | 4.20 | 71,228 | " | 90.00 | 6,411,000 |
| | 1997 | 16,414 | 7.10 | 116,539 | " | 125.00 | 14,567,000 |
| Hay Other | 1998 | 4,473 | 1.90 | 8,499 | " | 70.00 | 595,000 |
| | 1997 | 6,960 | 3.00 | 20,880 | " | 85.00 | 1,775,000 |
| Pasture Irrigated | 1998 | 15,500 | | | Acre | 120.00 | 1,860,000 |
| | 1997 | 16,575 | | | " | 120.00 | 1,989,000 |
| Range | 19978 | 230,000 | | | " | 7.00 | 1,610,000 |
| | 1997 | 230,000 | | | " | 7.00 | 1,610,000 |
| Rice, Paddy | 1998 | 81,820 | 3.50 | 286,370 | Ton | 244.00** | 69,874,000 |
| | 1997 | 85,768 | 4.25 | 364,514 | " | 208.00** | 75,819,000 |
| Safflower | 1998 | 1,500 | .60 | 900 | " | 300.00 | 270,000 |
| | 1997 | 1,000 | .75 | 750 | " | 320.00 | 240,000 |
| Silage | 1998 | 2,850 | 20.00 | 57,000 | " | 22.00 | 1,254,000 |
| | 1997 | 2,464 | 26.00 | 64,064 | " | 21.00 | 1,345,000 |
| Grain Sorghum | 1998 | 419 | 2.80 | 1,173 | " | 86.00 | 101,000 |
| | 1997 | 650 | 2.00 | 1,300 | " | 105.00 | 173,000 |
| Sugar Beets | 1998 | 950 | 21.24 | 20,181 | " | 35.08 | 708,000 |
| | 1997 | 3,997 | 26.38 | 105,436 | " | 35.02 | 3,692,000 |
| Sunflower Oil | 1998 | | | | " | | |
| | 1997 | 3,962 | .61 | 2,417 | " | 1,000.00 | 2,417,000 |
| Wheat | 1998 | 20,486 | 1.50 | 30,729 | " | 90.00 | 2,766,000 |
| | 1997 | 24,712 | 2.25 | 55,602 | " | 126.00 | 7,006,000 |
| Miscellaneous | 1998 | 200 | | | | | 453,000 |
| | 1997 | 259 | | | | | 607,000 |
| TOTALS | 1998 | 398,796 | | | | | \$95,231,000 |
| | 1997 | 414,268 | | | | | \$122,712,000 |

**Includes USDA Support Price

VEGETABLE CROPS - 1997-1998

| COMMODITY | YEAR | ACREAGE | PRODUCTION PER ACRE | TOTAL PRODUCTION | UNIT | PRICE PER UNIT | TOTAL VALUE |
|---------------|-------------|---------|------------------------|---------------------|------|-------------------|----------------|
| Tomatoes, | 1998 * | | | | | | |
| Processing | 1997 | 957 | 36.85 | 35,272 | Ton | 51.57 | \$1,819,000 |
| | | 437 | | | | | |
| | 1997 | 51 | | | | | 152,000 |
| Totals | 1998 | | | | | | 920,000 |

*Included under Miscellaneous to avoid disclosing individual operations

Production and Value of Agricultural Products

APIARY PRODUCTS – 1997-1998

| COMMODITY | YEAR | TOTAL PRODUCTION | UNIT | PRICE PER UNIT | TOTAL VALUE |
|---------------|-------------|---------------------|------|-------------------|--------------------|
| Honey | 1998 | 650,000 | Lb. | \$.61 | \$396,000 |
| | 1997 | 296,000 | " | .86 | 255,000 |
| Beeswax | 1998 | 9,000 | " | 1.78 | 16,000 |
| | 1997 | 10,000 | " | 2.00 | 20,000 |
| Packaged Bees | 1998 | 101,000 | " | 6.04 | 610,000 |
| | 1997 | 104,000 | " | 5.50 | 572,000 |
| Queen Bees | 1998 | 85,000 | Each | 7.22 | 614,000 |
| | 1997 | 101,000 | " | 6.51 | 658,000 |
| Pollination | 1998 | | | | 987,000 |
| | 1997 | | | | 920,000 |
| TOTALS | 1998 | | | | \$2,425,000 |
| | 1997 | | | | \$2,953,000 |

SEED CROPS – 1997-1998

| COMMODITY | YEAR | ACREAGE | PRODUCTION PER ACRE | TOTAL PRODUCTION | UNIT | PRICE PER UNIT | TOTAL VALUE |
|---------------|-------------|---------------|------------------------------|---------------------|------|-------------------|---------------------|
| Beans | 1998 | 3,028 | 1,694 | 4,548,915 | Lb. | \$.32 | \$1,445,000 |
| | 1997 | 4,171 | 1,608 | 6,706,319 | " | .34 | 2,280,000 |
| Clover, all | 1998 | 1,284 | 495 | 636,017 | " | 1.44 | 914,000 |
| | 1997 | 2,123 | 475 | 1,009,121 | " | 1.42 | 1,436,000 |
| Rice | 1998 | 2,408 | 7,000 | 16,856,000 | " | .15 | 2,528,000 |
| | 1997 | 2,992 | 8,500 | 25,432,000 | " | .14 | 3,560,000 |
| Sunflower | 1998 | 8,269 | 886 | 7,328,295 | " | .55 | 4,039,000 |
| | 1997 | 5,704 | 1,216 | 6,938,723 | " | .62 | 4,280,000 |
| Vine Crops | 1998 | 2,383 | | | | | 2,849,000 |
| | 1997 | 1,888 | | | | | 2,580,000 |
| Wheat | 1998 | | Included under miscellaneous | | | | |
| | 1997 | 979 | 4,700 | 4,601,300 | " | .07 | 322,000 |
| Other Seed | 1998 | 1,882 | | | | | 1,633,000 |
| | 1997 | 1,144 | | | | | 1,196,000 |
| TOTALS | 1998 | 19,254 | | | | | \$13,408,000 |
| | 1997 | 19,001 | | | | | \$15,654,000 |

Production and Value of Agricultural Products

LIVESTOCK AND POULTRY – 1997-1998

| COMMODITY | YEAR | NUMBER OF HEAD | TOTAL LIVE WEIGHT | UNIT | PRICE PER UNIT | TOTAL VALUE |
|-------------------|-------------|---|-------------------|------|----------------|---------------------|
| Cattle and Calves | 1998 | 25,324 | 185,372 | Cwt. | \$61.00 | \$11,308,000 |
| | 1997 | 26,379 | 193,094 | " | 63.00 * | 12,165,000 * |
| Sheep and Lambs | 1998 | 7,081 | 7,293 | " | 74.80 | 546,000 |
| | 1997 | 7,300 | 7,519 | " | 91.60 | 689,000 |
| Hogs and Pigs | 1998 | 1,710 | 2,941 | " | 34.00 | 100,000 |
| | 1997 | 1,798 | 3,100 | " | 54.70 | 170,000 |
| Poultry | 1998 | Included under Livestock and Poultry Products | | | | |
| | 1997 | to protect individual operations. | | | | |
| TOTALS | 1998 | | | | | \$11,954,000 |
| | 1997 | | | | | \$13,024,000 |

* Revised

LIVESTOCK AND POULTRY PRODUCTS – 1997-1998

| COMMODITY | YEAR | PRODUCTION | UNIT | PRICE PER UNIT | TOTAL VALUE |
|---------------|-------------|------------|------|----------------|---------------------|
| Milk, all | 1998 | 3,110,909 | Cwt. | \$ 14.78 | \$45,977,000 |
| | 1997 | 3,124,585 | " | 12.34 | 38,568,000 |
| Market | 1998 | 2,520,537 | " | 14.80 | 37,300,000 |
| | 1997 | 2,594,143 | " | 12.42 | 32,207,000 |
| Manufacturing | 1998 | 590,371 | " | 14.70 | 8,676,000 |
| | 1997 | 530,442 | " | 11.99 | 6,361,000 |
| Wool | 1998 | 71,731 | Lb. | .40 | 29,000 |
| | 1997 | 73,960 | " | .68 | 50,000 |
| Miscellaneous | 1998 | | | | 226,000 |
| | 1997 | | | | 220,000 |
| TOTALS | 1998 | | | | \$46,232,000 |
| | 1997 | | | | \$38,838,000 |

NURSERY PRODUCTS – 1997-1998

| COMMODITY | YEAR | ACREAGE | TOTAL VALUE |
|-----------------------|------|---------|-------------|
| Nursery | 1998 | 220 | \$2,583,000 |
| Production | 1997 | 200.5 | \$2,438,000 |
| Nursery Product Total | 1998 | 220 | \$2,583,000 |
| | 1997 | 200.5 | \$2,438,000 |

Production and Value of Agricultural Products

FRUIT AND NUT CROPS – 1997-1998

| COMMODITY | YEAR | BEARING ACREAGE | PRODUCTION PER ACRE | TOTAL PRODUCTION | UNIT | PRICE PER UNIT | TOTAL VALUE |
|-----------------|-------------|--------------------|------------------------|---------------------|---------|-------------------|---------------------|
| Almonds | 1998 | 21,339 | .39 | 8,322 | Meat | \$2,925.00 | \$24,342,000 |
| | 1997 | 17,808 | .61 | 10,931 | Ton | 2,985.00 | 32,630,000 |
| Almond Hulls | 1998 | | | 10,151 | Ton | 80.00 | 812,000 |
| | 1997 | | | | " | 80.00 | 1,093,000 |
| Citrus | 1998 | 712 | 1.62 | 1,154 | " | 510.00 | 588,000 |
| | 1997 | 721 | 10.71 | 7,720 | " | 259.00 | 2,003,000 |
| Grapes | 1998 | 1,349 | 6.20 | 8,347 | " | 286.81 | 2,394,000 |
| | 1997 | 1,418 | 9.80 | 13,890 | " | 383.59 | 5,328,000 |
| Olives | 1998 | 4,165 | 2.24 | 9,330 | " | 449.00 | 4,189,000 |
| | 1997 | 3,845 | 4.56 | 17,550 | " | 614.54 | 10,785,000 |
| Pistachios | 1998 | 746 | .40 | 295 | Inshell | 1,885.00 | 556,000 |
| | 1997 | 745 | 1.08 | 810 | Ton | 2,435.00 | 1,975,000 |
| Prunes | 1998 | 7,516 | 1.18 | 8,850 | Dry | 752.00 | 6,655,000 |
| | 1997 | 8,221 | 2.33 | 19,179 | Ton | 695.00 | 13,329,000 |
| Walnuts | 1998 | 6,231 | .96 | 5,989 | Inshell | 1,050.00 | 6,288,000 |
| | 1997 | 5,836 | 1.40 | 8,176 | Ton | 1,375.00 | 11,250,000 |
| Miscellaneous | 1998 | 132 | | | | | 165,000 |
| Fruits and Nuts | 1997 | 143 | | | | | 218,000 |
| TOTALS | 1998 | 41,353 | | | | | \$45,989,000 |
| | 1997 | 38,726 | | | | | \$78,608,000 |

Production and Value of Forest Products

FOREST PRODUCTS – 1997-1998

| COMMODITY | YEAR | PRODUCTION | UNIT | PRICE PER UNIT | TOTAL VALUE |
|-----------------|-------------|------------|-------|-------------------|--------------------|
| Timber | 1998 | 18,944,000 | Board | \$.37 | \$7,009,000 |
| | 1997 | 8,085,000 | Feet | .36 | 2,911,000 |
| Firewood | 1998 | 750 | Cord | 85.00 | 64,000 |
| | 1997 | 776 | " | 75.00 | 58,000 |
| Christmas Trees | 1998 | 1,610 | Each | 20.00 | 32,000 |
| | 1997 | 1,528 | " | 15.00 | 23,000 |
| TOTALS | 1998 | | | | \$7,105,000 |
| | 1997 | | | | \$2,992,000 |

Production and Value of Agricultural Products

GLENN COUNTY SUSTAINABLE AGRICULTURE – 1997-1998

PEST EXCLUSION

| TERMINAL INSPECTIONS | NUMBER OF INSPECTIONS | REJECTIONS | PEST |
|-----------------------|-----------------------|------------|------|
| Postal | 410 | 0 | |
| United Parcel Service | 0 | 0 | |
| Truck | 2,654 | 0 | |
| Other | 1,704 | 0 | |

| ORIGIN CERTIFICATION | NUMBER OF INSPECTIONS |
|---------------------------|-----------------------|
| Field Inspections | 371 |
| Phyto Certificates Issued | 1,074 |

ORGANIC FARMING

| CROP | NUMBER OF FARMS | AMOUNT |
|------------------|-----------------|-------------|
| Almonds | 3 | 112 Acres |
| Citrus | 5 | 127 Acres |
| Pasture | 1 | 10 Acres |
| Fruit Production | 4 | 29 Acres |
| Rice | 9 | 2,117 Acres |
| Vegetables/Herbs | 2 | 10 Acres |

Production and Value of Agricultural Products

GLENN COUNTY SUSTAINABLE AGRICULTURE – 1997-1998

BIOLOGICAL CONTROL

| PEST | CONTROL AGENT | PROGRAM SCOPE |
|--|--|----------------------------|
| Ash White Fly <u>Siphonius phillyreae</u> | Wasp <u>Encarsia Sp.</u> | Established |
| | Beetle <u>Clitostethus arcuatus</u> | Established |
| Italian Thistle <u>Carduus tenuifloris</u> | Weevil <u>Rhenocyllus conicus</u> | Established |
| Puncture Vine <u>Tribulus tenestrus</u> | Stem and Seed Weevils <u>Micro lypriformis</u> <u>Microlarinus lareyniei</u> | Established |
| Yellow Star Thistle <u>Centaurea solstitialis</u> | Weevil <u>Bangasternus orientalis</u> <u>Eustenopus villosus</u> | Established Established |
| | Larinus curtus | 1 Release Site |
| | Fly <u>Urophra sirunaseva</u> <u>Chastorellia australis</u> | Established Established |

PEST ERADICATION

| PEST | CONTROL AGENT | NUMBER OF LOCATIONS |
|--|-----------------------|---------------------|
| Canada Thistle <u>Cirsium arvense</u> | Chemical - Mechanical | 1 |
| Dyerswoad <u>Isatis tinctoria</u> | Chemical - Mechanical | 1 |
| Hoarycress <u>Cardaria draba</u> | Chemical | 12 |
| Peppergrass <u>Lepidium latifolium</u> | Chemical | 17 |
| Plumeless Thistle <u>Carduus acanthoides</u> | Chemical - Mechanical | 3 |
| Russian Knapweed <u>Centaurea repens</u> | Chemical | 2 |
| White Horsenettle <u>Solanum elaeagnifolium</u> | Chemical | 28 |
| Diffuse Knapweed <u>Centaurea diffuse</u> | Chemical | 0 |
| Artichoke Thistle <u>Cynara cardunculus</u> | Mechanical | 2 |

**VALUE OF AGRICULTURAL AND FOREST PRODUCTION
GLENN COUNTY, CALIFORNIA**

| Value of Agricultural Production | 1997 | 1998 |
|---|----------------------------|--------------------------|
| Field Crops | \$122,712,000 | \$95,231,000 |
| Livestock and Poultry | 13,024,000 * | 111,954,000 |
| Fruit and Nut Crops | 78,608,000 | 45,989,000 |
| Livestock and Poultry Products | 38,838,000 | 46,232,000 |
| Seed Crops | 15,654,000 | 13,408,000 |
| Apiary Products | 2,425,000 | 2,623,000 |
| Nursery Products | 2,438,000 | 2,538,000 |
| Vegetable Crops | 1,971,000 | 920,000 |
| Total Agricultural Production | \$275,670,000 * | \$218,940,000 |
| Value of Forest Products | | |
| Timber | \$2,911,000 | \$7,009,000 |
| Firewood | 58,000 | 64,000 |
| Christmas Trees | 23,000 | 32,000 |
| Total Forest Products | \$2,992,000 | 7,105,000 |
| Grand Total All Production | \$278,662,000 * | \$226,045,000 |

GLENN COUNTY'S LEADING AGRICULTURAL COMMODITIES

| Commodity | 1998 Value |
|----------------------------|-------------------|
| 1. Rice, paddy | \$69,874,000 |
| 2. Dairy Products | 45,977,000 |
| 3. Almonds | 24,342,000 |
| 4. Cattle and Calves | 11,308,000 |
| 5. Corn | 7,204,000 |
| 6. Prunes | 6,655,000 |
| 7. Hay, Alfalfa | 6,411,000 |
| 8. Walnuts | 6,288,000 |
| 9. Olives | 4,189,000 |
| 10. Sunflower Seed | 4,039,000 |

* Revised

ANNUAL RAINFALL AT WILLOWS, CALIFORNIA

120 YEARS – 1878 - 1998

| Year | Inches | Year | Inches | Year | Inches |
|-----------|--------|-----------|--------|-----------|--------|
| 1878-1879 | 7.01 | 1918-1919 | 12.90 | 1958-1959 | 11.96 |
| 1879-1880 | 13.96 | 1919-1920 | 7.70 | 1959-1960 | 13.88 |
| 1880-1881 | 13.85 | 1920-1921 | 21.28 | 1960-1961 | 16.24 |
| 1881-1882 | 8.28 | 1921-1922 | 13.44 | 1961-1962 | 16.01 |
| 1882-1883 | 8.45 | 1922-1923 | 16.81 | 1962-1963 | 20.48 |
| 1883-1884 | 18.84 | 1923-1924 | 8.86 | 1963-1964 | 9.34 |
| 1884-1885 | 7.80 | 1924-1925 | 25.99 | 1964-1965 | 18.75 |
| 1885-1886 | 19.15 | 1925-1926 | 18.44 | 1965-1966 | 13.26 |
| 1886-1887 | 8.07 | 1926-1927 | 25.99 | 1966-1967 | 23.65 |
| 1887-1888 | 8.97 | 1927-1928 | 17.54 | 1967-1968 | 15.21 |
| 1888-1889 | 10.30 | 1928-1929 | 11.46 | 1968-1969 | 23.25 |
| 1889-1890 | 29.94 | 1929-1930 | 16.37 | 1969-1970 | 18.56 |
| 1890-1891 | 19.01 | 1930-1931 | 9.85 | 1970-1971 | 13.50 |
| 1891-1892 | 18.82 | 1931-1932 | 15.01 | 1971-1972 | 7.15 |
| 1892-1893 | 27.30 | 1932-1933 | 7.79 | 1972-1973 | 25.11 |
| 1893-1894 | 11.15 | 1933-1934 | 15.65 | 1973-1974 | 17.45 |
| 1894-1895 | 26.04 | 1934-1935 | 19.62 | 1974-1975 | 16.03 |
| 1895-1896 | 22.18 | 1935-1936 | 17.48 | 1975-1976 | 6.30 |
| 1896-1897 | 18.82 | 1936-1937 | 16.40 | 1976-1977 | 8.46 |
| 1897-1898 | 6.58 | 1937-1938 | 26.28 | 1977-1978 | 25.72 |
| 1898-1899 | 13.05 | 1938-1939 | 6.82 | 1978-1979 | 14.97 |
| 1899-1900 | 15.23 | 1939-1940 | 23.21 | 1979-1980 | 26.95 |
| 1900-1901 | 17.49 | 1940-1941 | 40.50 | 1980-1981 | 18.76 |
| 1901-1902 | 21.67 | 1941-1942 | 24.07 | 1981-1982 | 25.58 |
| 1902-1903 | 17.10 | 1942-1943 | 15.68 | 1982-1983 | 37.25 |
| 1903-1904 | 20.28 | 1943-1944 | 13.52 | 1983-1984 | 20.47 |
| 1904-1905 | 24.55 | 1944-1945 | 16.94 | 1984-1985 | 14.89 |
| 1905-1906 | 19.85 | 1945-1946 | 14.72 | 1985-1986 | 24.82 |
| 1906-1907 | 17.88 | 1946-1947 | 12.28 | 1986-1987 | 10.92 |
| 1907-1908 | 13.44 | 1947-1948 | 19.56 | 1987-1988 | 15.86 |
| 1908-1909 | 22.09 | 1948-1949 | 15.59 | 1988-1989 | 10.12 |
| 1909-1910 | 14.36 | 1949-1950 | 10.32 | 1989-1990 | 12.71 |
| 1910-1911 | 17.75 | 1950-1951 | 17.48 | 1990-1991 | 15.51 |
| 1911-1912 | 11.26 | 1951-1952 | 23.50 | 1991-1992 | 17.19 |
| 1912-1913 | 13.18 | 1952-1953 | 19.70 | 1992-1993 | 25.76 |
| 1913-1914 | 29.18 | 1953-1954 | 16.64 | 1993-1994 | 13.10 |
| 1914-1915 | 27.19 | 1954-1955 | 14.57 | 1994-1995 | 34.04 |
| 1915-1916 | 18.11 | 1955-1956 | 23.24 | 1995-1996 | 20.39 |
| 1916-1917 | 11.43 | 1956-1957 | 19.11 | 1996-1997 | 20.52 |
| 1917-1918 | 11.90 | 1957-1958 | 32.93 | 1997-1998 | 41.62 |