

**Table 3A-6. Annual Owens Valley Runoff, Ground Water Pumping, and Los Angeles Exports**

| Runoff Year | Owens Valley Runoff (AF) | Owens Valley Pumping (AF) | Laws Pumping (AF) | Bishop Pumping (AF) | Big Pine Pumping (AF) | Tinemaha to Haiwee Pumping (AF) | Haiwee Inflow (AF) | Flow to Los Angeles (AF) |
|-------------|--------------------------|---------------------------|-------------------|---------------------|-----------------------|---------------------------------|--------------------|--------------------------|
| 1940        | 441,898                  | 0                         |                   |                     |                       |                                 |                    | 204,557                  |
| 1941        | 648,446                  | 0                         |                   |                     |                       |                                 |                    | 243,452                  |
| 1942        | 522,933                  | 131                       |                   |                     |                       |                                 |                    | 264,215                  |
| 1943        | 499,464                  | 52                        |                   |                     |                       |                                 |                    | 271,987                  |
| 1944        | 404,037                  | 0                         |                   |                     |                       |                                 |                    | 274,004                  |
| 1945        | 590,626                  | 11                        |                   |                     |                       |                                 | 310,497            | 290,725                  |
| 1946        | 487,526                  | 34                        |                   |                     |                       |                                 | 325,089            | 293,932                  |
| 1947        | 366,550                  | 52                        |                   |                     |                       |                                 | 339,890            | 314,136                  |
| 1948        | 297,689                  | 25                        |                   |                     |                       |                                 | 298,866            | 283,747                  |
| 1949        | 338,077                  | 27                        |                   |                     |                       |                                 | 335,934            | 300,838                  |
| 1950        | 356,596                  | 23                        |                   |                     |                       |                                 | 335,072            | 310,900                  |
| 1951        | 368,859                  | 27                        |                   |                     |                       |                                 | 340,545            | 317,243                  |
| 1952        | 644,955                  | 29                        |                   |                     |                       |                                 | 331,011            | 314,510                  |
| 1953        | 361,655                  | 24                        |                   |                     |                       |                                 | 333,911            | 313,629                  |
| 1954        | 377,571                  | 27                        |                   |                     |                       |                                 | 337,577            | 316,589                  |
| 1955        | 380,713                  | 28                        |                   |                     |                       |                                 | 343,548            | 320,243                  |
| 1956        | 539,761                  | 33                        |                   |                     |                       |                                 | 342,606            | 318,723                  |
| 1957        | 423,291                  | 27                        |                   |                     |                       |                                 | 341,111            | 328,048                  |
| 1958        | 588,789                  | 26                        |                   |                     |                       |                                 | 354,824            | 319,975                  |
| 1959        | 310,706                  | 38                        |                   |                     |                       |                                 | 339,034            | 323,403                  |
| 1960        | 260,242                  | 65,096                    |                   |                     |                       |                                 | 333,006            | 320,001                  |
| 1961        | 253,608                  | 109,985                   |                   |                     |                       |                                 | 355,070            | 333,030                  |
| 1962        | 482,085                  | 9,175                     |                   |                     |                       |                                 | 347,648            | 326,583                  |
| 1963        | 504,072                  | 899                       |                   |                     |                       |                                 | 367,491            | 334,340                  |
| 1964        | 307,125                  | 25,100                    |                   |                     |                       |                                 | 327,090            | 332,963                  |
| 1965        | 462,845                  | 6,732                     |                   |                     |                       |                                 | 359,177            | 319,839                  |
| 1966        | 349,868                  | 603                       |                   |                     |                       |                                 | 337,742            | 319,922                  |
| 1967        | 684,936                  | 1,425                     |                   |                     |                       |                                 | 375,308            | 340,069                  |
| 1968        | 342,457                  | 23,914                    |                   |                     |                       |                                 | 345,769            | 345,846                  |
| 1969        | 973,729                  | 4,023                     |                   |                     |                       |                                 | 385,447            | 343,767                  |
| 1970        | 407,147                  | 34,285                    | 9,797             | 0                   | 5,058                 | 19,430                          | 460,219            | 437,413                  |
| 1971        | 363,032                  | 149,562                   | 28,420            | 20                  | 45,780                | 75,342                          | 495,172            | 471,525                  |
| 1972        | 324,924                  | 173,008                   | 28,345            | 4,180               | 38,120                | 102,363                         | 462,559            | 452,019                  |
| 1973        | 519,584                  | 86,751                    | 15,979            | 7,272               | 8,943                 | 54,557                          | 478,670            | 455,347                  |
| 1974        | 488,837                  | 78,647                    | 4,990             | 197                 | 22,506                | 50,954                          | 471,760            | 465,176                  |
| 1975        | 404,157                  | 116,924                   | 11,202            | 3,454               | 30,998                | 71,270                          | 506,116            | 478,066                  |
| 1976        | 291,586                  | 118,579                   | 16,285            | 6,622               | 27,306                | 68,366                          | 406,328            | 399,627                  |
| 1977        | 255,417                  | 153,024                   | 15,038            | 11,048              | 38,001                | 88,937                          | 299,576            | 288,640                  |
| 1978        | 686,471                  | 43,207                    | 945               | 0                   | 24,418                | 17,844                          | 534,256            | 507,285                  |
| 1979        | 445,747                  | 96,871                    | 17,933            | 7,771               | 27,639                | 43,528                          | 504,079            | 482,781                  |
| 1980        | 683,870                  | 45,144                    | 1,251             | 13                  | 24,211                | 19,669                          | 506,452            | 499,167                  |
| 1981        | 403,773                  | 108,400                   | 25,313            | 9,687               | 28,462                | 44,938                          | 485,677            | 464,125                  |
| 1982        | 751,937                  | 45,884                    | 1,388             | 3,503               | 22,351                | 18,642                          | 529,455            | 503,049                  |
| 1983        | 881,746                  | 44,922                    | 1,113             | 11                  | 28,119                | 15,679                          | 544,871            | 534,113                  |
| 1984        | 560,386                  | 61,981                    | 7,403             | 4,849               | 28,067                | 21,662                          | 543,867            | 506,587                  |
| 1985        | 480,287                  | 107,718                   | 17,369            | 10,485              | 25,911                | 53,953                          | 527,404            | 498,574                  |
| 1986        | 711,372                  | 69,887                    | 8,600             | 195                 | 25,934                | 35,158                          | 537,617            | 506,041                  |
| 1987        | 328,682                  | 209,394                   | 38,241            | 10,978              | 48,663                | 111,512                         | 450,017            | 426,908                  |
| 1988        | 304,064                  | 200,443                   | 38,841            | 13,008              | 42,817                | 105,777                         | 361,256            | 360,208                  |
| 1989        | 302,349                  | 155,903                   | 34,785            | 10,692              | 33,950                | 76,476                          | 255,156            | 240,152                  |
| Average:    | 463,330                  | 46,962                    | 16,162            | 5,199               | 28,863                | 54,803                          | 397,862            | 364,360                  |

Notes: Owens Valley Runoff Includes Long and Round Valley.  
Flow to Los Angeles is less than Haiwee flow due to transit losses.