T-1034.—INFLOW TO SALTON SEA, IMPERIAL IRRIGATION DISTRICT AND MEXICO, 1959-66 IIn thousands of acre-feet]

| Year | From Mexico at international boundary | From In | Total, Imperial Irrigation | | |
|--|---|--|---|---|--|
| | | Operational loss | Farm drainage | Total, Imperial Irrigation District | District and Mexico |
| 1959 1960 1961 1962 1963 1964 | 124 123 117 134 141 107 | 88 86 78 70 67 36 27 | 933 973 973 1,019 1,087 869 856 | 1,021 1,060 1,051 1,089 1,154 905 883 | 1, 145 1, 183 1, 163 1, 223 1, 295 1, 012 |
| 8-year average | 104 | 60 | 977 961 | 1,005 1,021 | 1, 109 |

T-1035.—THEORETICAL DISTRIBUTION "IMPERIAL IRRIGATION DISTRICT CONTRIBUTION TO SALTON SEA," 1959-66

[In thousands of acre-feet]

| | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 8-year average |
|--------------------------------------|------------------|------------------------|------------------------|-------------------------|-------------------------|------------------|------------------|--------------------------|------------------------|
| Leaching requirement 1 | 387 88 476 | 443 86 491 30 | 462 78 462 57 | 442 70 417 115 | 461 67 410 100 | 505 36 317 | 549 27 297 | 543 28 330 . 56 | 464 60 400 45 |
| Total theoretical 4Observed to sea 5 | 951 1,021 | 1,050 1,060 | 1,059 1,051 | 1,044 1,089 | 1,038 1,154 | 858 905 | 873 883 | 957 1,005 | 969 1,021 |
| Difference | 70 | 10 | +8 | 45 | -116 | -47 | -10 | -48 | -52 |

¹ Refer T-1033.

5 Includes contribution from rainfall.

DIVERSION REQUIRED AT PILOT KNOB FOR IMPERIAL UNIT BASED ON BLANEY-CRIDDLE FORMULA AND 1964-1966 CROP PATTERN FOR HISTORIC PPM SALINITY CONCENTRA-TION OF IRRIGATION WATER

Double cropping, average 3 years—1964-66 (acres)

Acres in crops: 561,000.

Area irrigated for crops: 434,000.

Double cropped: 127,000 or 22.6% of 561,000 acres—Say 23%.

T-1036.—REQUIRED FOR DELIVERY TO FARMS

| Input irrigation water at— | 926 p.p.m. ¹ (percent) | Acre-feet per irrigated acre | | |
|--|-----------------------------------|--|--|--|
| Average consumptive use per irrigated acre, 1964–662 | 22 95 | 4, 26 5, 46 5, 75 5 6, 76 6, 8 | | |

¹ Average measured salinity, 1964-66. 2 Refer to T-1043.

* REIER TO 1-1043.

3 Based on leaching requirement for historic 3-year average salinity of irrigation water, refer T-1044.

3 System loss includes seepage, transpiration, and evaporation losses, unmeasured deliveries to some 1,500 or more service pipes, deliveries to farm homes, and farms less than 2 acres.

5 Round to 6.8 acre-feet.

Refer 1-1033.

2 Based on 15-percent allowance for surface evaporation and consumptive use of vegetation along and adjacent to canal section in Imperial unit, refer T-1020, "Total canal loss and regulation."

3 Estimated 50 percent of water available for farm losses after leaching requirement and crop consumptive use had been satisfied from amount of "deliveries to users"; refer T-1033.

4 Does not include contribution in four mainfall.