DAILY DISCHARGE FOR 1994

ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8174 | 19680 | 23485 | 20837 | 22771 | 6300 | 9606 | 3287 | 1687 | 1261 | 1671 | 8528 |
| 2 | 7833 | 20252 | 24034 | 18601 | 25055 | 6067 | 7548 | 3063 | 1821 | 1329 | 1683 | 7988 |
| 3 | 7553 | 21565 | 22760 | 16124 | 27300 | 5884 | 7759 | 2879 | 1791 | 1404 | 1679 | 7321 |
| 4 | 7264 | 23234 | 19730 | 13888 | 28493 | 5777 | 10953 | 2508 | 1865 | 1414 | 1632 | 6168 |
| 5 | 6878 | 24769 | 16465 | 12284 | 28628 | 5883 | 11232 | 2621 | 1927 | 1454 | 1666 | 4972 |
| 6 | 6264 | 25064 | 14224 | 11520 | 28250 | 7820 | 10208 | 2700 | 2008 | 1568 | 1673 | 5035 |
| 7 | 5670 | 22890 | 12572 | 10867 | 27344 | 13872 | 7655 | 2677 | 2322 | 1557 | 1758 | 5109 |
| 8 | 6315 | 18614 | 11795 | 10440 | 25541 | 16646 | 5918 | 2617 | 2188 | 1500 | 2400 | 5204 |
| 9 | 6363 | 16157 | 14898 | 10211 | 22585 | 17157 | 5160 | 2540 | 2009 | 1447 | 4022 | 8502 |
| 10 | 5944 | 15474 | 18591 | 10446 | 18425 | 18871 | 4417 | 2429 | 1637 | 1374 | 5953 | 12631 |
| 11 | 6067 | 14898 | 17845 | 10399 | 15506 | 18147 | 3827 | 2125 | 1575 | 1308 | 5698 | 17677 |
| 12 | 7763 | 15374 | 16210 | 11915 | 13205 | 16352 | 3627 | 2129 | 1623 | 1115 | 4927 | 18588 |
| 13 | 8800 | 16955 | 14686 | 14236 | 11991 | 14080 | 3591 | 2101 | 1634 | 1191 | 5075 | 17407 |
| 14 | 8645 | 17283 | 14044 | 14181 | 11444 | 11269 | 3644 | 2144 | 1564 | 1328 | 5216 | 16260 |
| 15 | 7901 | 16413 | 14225 | 13932 | 10609 | 8695 | 4368 | 2203 | 1370 | 1363 | 4944 | 14630 |
| 16 | 7002 | 14855 | 14504 | 14017 | 9611 | 6698 | 5824 | 2146 | 1427 | 1403 | 4256 | 13138 |
| 17 | 7783 | 13332 | 14669 | 14799 | 8532 | 5845 | 6690 | 1875 | 1479 | 1403 | 3650 | 13058 |
| 18 | 8955 | 12149 | 14771 | 15997 | 7721 | 5685 | 5176 | 1856 | 1635 | 1400 | 3952 | 12412 |
| 19 | 8385 | 11348 | 14035 | 17369 | 7365 | 6001 | 5035 | 1892 | 1657 | 1386 | 4490 | 10923 |
| 20 | 7734 | 10991 | 13433 | 18711 | 7171 | 4867 | 4464 | 1939 | 1615 | 1383 | 5060 | 9429 |
| 21 | 5434 | 11248 | 12822 | 20540 | 6823 | 4775 | 4010 | 2076 | 1618 | 1346 | 4999 | 8913 |
| 22 | 5839 | 13097 | 12153 | 21211 | 6527 | 5034 | 3896 | 2143 | 1526 | 1436 | 4827 | 12783 |
| 23 | 5727 | 20683 | 11503 | 21176 | 6233 | 4987 | 3759 | 2090 | 1452 | 1742 | 4522 | 14682 |
| 24 | 6469 | 21972 | 11179 | 20834 | 5850 | 4620 | 3438 | 2037 | 1427 | 1779 | 4083 | 13884 |
| 25 | 9168 | 20398 | 11020 | 20133 | 5835 | 4611 | 3536 | 2013 | 1255 | 1955 | 4079 | 12978 |
| 26 | 11482 | 20203 | 11472 | 19287 | 5853 | 5893 | 3678 | 1818 | 1335 | 2146 | 4182 | 11919 |
| 27 | 15751 | 20615 | 17305 | 18144 | 5687 | 7312 | 4766 | 1666 | 1418 | 2243 | 4809 | 10967 |
| 28 | 21215 | 22057 | 25219 | 17150 | 5752 | 9341 | 4505 | 1698 | 1429 | 2203 | 6786 | 10084 |
| 29 | 21483 | ---- | 25694 | 17712 | 5758 | 10210 | 4393 | 1761 | 1466 | 2079 | 7401 | 9394 |
| 30 | 19940 | ---- | 24072 | 20038 | 5685 | 10445 | 3954 | 1553 | 1213 | 1920 | 7709 | 8854 |
| 31 | 19697 | ---- | 22945 | ---- | 6205 | ---- | 3532 | 1539 | ---- | 1604 | ---- | 8016 |
| MEAN | 9339 | 17913 | 16528 | 15900 | 13670 | 8971 | 5489 | 2198 | 1632 | 1550 | 4160 | 10886 |
| MAX | 21483 | 25064 | 25694 | 21211 | 28628 | 18871 | 11232 | 3287 | 2322 | 2243 | 7709 | 18588 |
| MIN | 5434 | 10991 | 11020 | 10211 | 5685 | 4611 | 3438 | 1539 | 1213 | 1115 | 1632 | 4972 |

THE MEAN FLOW FOR THE YEAR 8961
HIGHEST FLOW WAS 28628 5 MAY 1994
LOWEST FLOW WAS 1115 12 OCT 1994

# DAILY DISCHARGE FOR 1993

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5416 | 13983 | 8198 | 9712 | 9601 | 5605 | 8712 | 5319 | 1133 | 2384 | 3510 | 11565 |
| 2 | 5670 | 12565 | 8598 | 8658 | 13140 | 5680 | 8335 | 5528 | 1195 | 2292 | 3445 | 10099 |
| 3 | 5896 | 11294 | 10057 | 7845 | 20458 | 5508 | 7217 | 5799 | 1301 | 2650 | 3406 | 10853 |
| 4 | 6388 | 10151 | 10484 | 7205 | 24790 | 5262 | 5647 | 6156 | 1447 | 2955 | 3251 | 18058 |
| 5 | 10277 | 9317 | 10697 | 6659 | 24076 | 4699 | 4478 | 6459 | 1726 | 3108 | 2887 | 22811 |
| 6 | 11533 | 8562 | 10571 | 6379 | 21503 | 4745 | 3924 | 7310 | 1563 | 3049 | 2810 | 23437 |
| 7 | 11536 | 7827 | 10732 | 6375 | 19608 | 5065 | 3518 | 7571 | 1469 | 2981 | 2720 | 23246 |
| 8 | 11378 | 6957 | 10689 | 6775 | 18494 | 5187 | 3460 | 7432 | 1376 | 3035 | 2530 | 22987 |
| 9 | 11677 | 6623 | 10455 | 11027 | 17647 | 5002 | 3325 | 6903 | 1193 | 3021 | 2436 | 22241 |
| 10 | 12852 | 6563 | 10162 | 15199 | 17180 | 4635 | 2989 | 6427 | 1034 | 3158 | 2290 | 21453 |
| 11 | 14353 | 6215 | 9745 | 16055 | 19154 | 4135 | 3221 | 6196 | 1020 | 3162 | 2052 | 20619 |
| 12 | 15282 | 6256 | 9234 | 15725 | 18073 | 4152 | 3270 | 6137 | 1119 | 3132 | 1844 | 19470 |
| 13 | 15793 | 6458 | 8719 | 14392 | 15994 | 4728 | 3301 | 5941 | 1096 | 3067 | 1801 | 18653 |
| 14 | 15769 | 6525 | 8378 | 13260 | 14032 | 5053 | 3431 | 5742 | 1171 | 3076 | 2111 | 19217 |
| 15 | 15426 | 6633 | 8171 | 16745 | 11784 | 5170 | 3731 | 5515 | 1079 | 3260 | 4541 | 17879 |
| 16 | 14703 | 7817 | 8088 | 19315 | 9883 | 4764 | 4051 | 5382 | 1461 | 3263 | 6561 | 15771 |
| 17 | 13695 | 8807 | 8295 | 17623 | 8766 | 4248 | 4182 | 5150 | 1462 | 3123 | 13917 | 13315 |
| 18 | 12566 | 8779 | 8237 | 15656 | 7974 | 3806 | 4300 | 4929 | 1491 | 3237 | 17101 | 11225 |
| 19 | 11597 | 8336 | 8141 | 14257 | 7476 | 3469 | 4326 | 4785 | 1512 | 3522 | 16236 | 10298 |
| 20 | 11299 | 7684 | 8508 | 13469 | 6569 | 3410 | 4270 | 4659 | 1583 | 3996 | 15513 | 9770 |
| 21 | 14030 | 6885 | 8454 | 12622 | 6191 | 3621 | 4383 | 4399 | 1657 | 4882 | 15176 | 9216 |
| 22 | 14247 | 7102 | 8424 | 11617 | 6057 | 3763 | 4842 | 4178 | 1707 | 5613 | 14876 | 8665 |
| 23 | 13380 | 6468 | 9338 | 10846 | 5766 | 3738 | 5066 | 4029 | 1535 | 6421 | 14419 | 8212 |
| 24 | 15985 | 6636 | 9932 | 10846 | 5711 | 3644 | 5164 | 3594 | 1469 | 6915 | 14042 | 7941 |
| 25 | 19147 | 7873 | 10448 | 10690 | 5768 | 3905 | 5398 | 3025 | 2216 | 6740 | 14849 | 7778 |
| 26 | 18437 | 9411 | 11938 | 10748 | 5768 | 4336 | 5472 | 2507 | 3368 | 5442 | 19410 | 7669 |
| 27 | 17901 | 9331 | 16081 | 10475 | 5657 | 5759 | 5541 | 2071 | 3986 | 4629 | 21246 | 7596 |
| 28 | 17236 | 8777 | 15202 | 10065 | 5259 | 6792 | 5518 | 1708 | 4248 | 4048 | 18811 | 7610 |
| 29 | 16979 | | 13708 | 9653 | 5205 | 7652 | 5368 | 1532 | 4411 | 4091 | 15979 | 7713 |
| 30 | 16578 | | 12285 | 9404 | 5171 | 8116 | 5365 | 1455 | 3007 | 4046 | 13639 | 7995 |
| 31 | 15481 | | 10930 | | 5269 | | 5299 | 1293 | | 3925 | | 7959 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 13306 | 8208 | 10093 | 11643 | 11871 | 4854 | 4745 | 4810 | 1801 | 3813 | 9113 | 13913 |
| MAX. | 19147 | 13983 | 16081 | 19315 | 24790 | 8116 | 8712 | 7571 | 4411 | 6915 | 21246 | 23437 |
| MIN. | 5416 | 6215 | 8088 | 6375 | 5171 | 3410 | 2989 | 1293 | 1020 | 2292 | 1801 | 7596 |

TOTAL DISCHARGE FOR YEAR WAS 2991563 MEAN DISCHARGE FOR YEAR WAS 8195

MAXIMUM DISCHARGE WAS 24,790 ON MAY 4.
MINIMUM DISCHARGE WAS 1,020 ON SEP. 11.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP CUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6759 | 5029 | 9010 | 6422 | 6545 | 5491 | 6980 | 4221 | 3100 | 1593 | A | 6215 |
| 2 | 6666 | 4848 | 8285 | 5254 | 6525 | 5249 | 4732 | 4048 | 3091 | 1491 | A | 6159 |
| 3 | 6690 | 4651 | 7552 | 6255 | 6554 | 5918 | 3929 | 3820 | 2917 | 1429 | A | 5970 |
| 4 | 6868 | 4114 | 6825 | 6244 | 6631 | 8373 | 3619 | 2619 | 2316 | 1458 | A | 5241 |
| 5 | 7054 | 4080 | 6017 | 5979 | 6606 | 10200 | 3752 | 2747 | 2080 | 1433 | A | 4532 |
| 6 | 7171 | 4074 | 5956 | 5564 | 6502 | 10244 | 3939 | 3084 | 1885 | 1095 | A | 4357 |
| 7 | 7359 | 3881 | 5437 | 5176 | 6324 | 11137 | 4699 | 3068 | 1813 | 957 | A | 4301 |
| 8 | 8805 | 3809 | 5361 | 4816 | 5910 | 11415 | 5940 | 2654 | A | 1031 | A | 4216 |
| 9 | 12731 | 3804 | 6697 | 4304 | 5785 | 11408 | 6272 | 2591 | A | 1313 | 1415 | 3887 |
| 10 | 13992 | 3806 | 15591 | 3940 | 5759 | 11272 | 5763 | 2559 | A | 1257 | A | 4653 |
| 11 | 13787 | 3762 | 17584 | 4083 | 5688 | 10984 | 5347 | 2988 | A | 1196 | A | 5337 |
| 12 | 12768 | 3794 | 16133 | 4180 | 5627 | 9892 | 4794 | 4600 | A | 1136 | A | 4004 |
| 13 | 12160 | 3828 | 15329 | 4135 | 5498 | 9874 | 4070 | 5384 | A | 1114 | A | 4262 |
| 14 | 14302 | 3945 | 13557 | 4039 | 5556 | 9701 | 3026 | 4707 | A | 1038 | A | 5021 |
| 15 | 14749 | 5284 | 11211 | 3818 | 5570 | 8640 | 2670 | 3925 | 1364 | 1025 | 3884 | 5341 |
| 16 | 13560 | 5473 | 9203 | 3809 | 5257 | 6994 | 2800 | 3209 | 1331 | 1029 | 6178 | 4913 |
| 17 | 12304 | 6320 | 7500 | 3560 | 5340 | 5547 | 3013 | 2706 | 1384 | 1092 | 6388 | 4521 |
| 18 | 11094 | 8892 | 9393 | 3638 | 5751 | 4483 | 3316 | 2384 | 1495 | 1794 | 4745 | 4666 |
| 19 | 10225 | 10424 | 15049 | 4697 | 4486 | 4401 | 3524 | 2254 | 2497 | 4896 | 3433 | 5025 |
| 20 | 9376 | 10890 | 16436 | 6730 | 4775 | 4278 | 3602 | 2257 | 3369 | 5346 | 2589 | 8762 |
| 21 | 8510 | 10707 | 15106 | 8573 | 5505 | 3848 | 3710 | 2388 | 3024 | 4074 | 3133 | 10787 |
| 22 | 7366 | 9793 | 14473 | 7639 | 5588 | 3275 | 4144 | 2452 | 2803 | 4645 | 4954 | 11154 |
| 23 | 6997 | 8170 | 15520 | 9067 | 5514 | 2960 | 4415 | 2426 | 3031 | 4695 | 6940 | 11365 |
| 24 | 6381 | 8116 | 14948 | 10517 | 5749 | 2783 | 4430 | 2545 | 3123 | 4292 | 7000 | 10722 |
| 25 | 5052 | 8258 | 13395 | 10546 | 5769 | 2795 | 4151 | 2707 | 2642 | 3190 | 9224 | 10040 |
| 26 | 5079 | 9045 | 11578 | 9936 | 5935 | 3199 | 3700 | 2444 | 2535 | 2771 | 9579 | 8491 |
| 27 | 5538 | 10228 | 9567 | 8875 | 5347 | 4777 | 3577 | 2410 | 2424 | 2765 | 8927 | 7659 |
| 28 | 5602 | 10599 | 7760 | 7525 | 4424 | 5134 | 3813 | 3111 | 2237 | 2616 | 8240 | 7393 |
| 29 | 5554 | 9828 | 6669 | 7168 | 4600 | 6552 | 4286 | 2907 | 2044 | 2376 | 7205 | 7198 |
| 30 | 5463 | | 6622 | 6904 | 5177 | 8185 | 5791 | 3194 | 1849 | 2128 | 6529 | 7005 |
| 31 | 5213 | | 6635 | | 5673 | | 6092 | 3428 | | 1290 | | 6714 |
| THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE | | | | | | | | | | | | |
| MEAN | 8877 | 6533 | 10658 | 6113 | 5676 | 6967 | 4319 | 3092 | | 2180 | | 6455 |
| MAX. | 14749 | 10890 | 17584 | 10546 | 6631 | 11415 | 6980 | 5384 | | 5346 | | 11365 |
| MIN. | 5052 | 3762 | 5361 | 3560 | 4424 | 2783 | 2670 | 2254 | | 957 | | 3887 |

A- RECORD
MAXIMUM DISCHARGE WAS 17,584 ON MAR. 11.
MINIMUM DISCHARGE WAS 957 ON OCT. 7.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 39583 | 11040 | 7854 | 11211 | 34033 | 13878 | 5052 | 1973 | 2098 | 927 | 13025 | 10552 |
| 2 | 38466 | 10588 | 9693 | 10659 | 31288 | 13128 | 4823 | 1928 | 1717 | 905 | 12693 | 14765 |
| 3 | 37150 | 10109 | 10229 | 9940 | 28413 | 12194 | 4393 | 1880 | 1444 | 916 | 10473 | 18244 |
| 4 | 35496 | 9806 | 9113 | 10698 | 26900 | 11970 | 4281 | 1810 | 1462 | 937 | 8524 | 17800 |
| 5 | 33588 | 10509 | 8269 | 11323 | 25339 | 11507 | 4710 | 1737 | 1787 | 1029 | 5973 | 17109 |
| 6 | 34034 | 15492 | 7577 | 10654 | 23190 | 10708 | 4606 | 1618 | 2341 | 1048 | 4153 | 16832 |
| 7 | 36646 | 17745 | 6695 | 10117 | 20599 | 9759 | 4107 | 1703 | 3261 | 943 | 3369 | 15565 |
| 8 | 37657 | 18459 | 5876 | 10225 | 18005 | 9097 | 3706 | 1679 | 3643 | 902 | 3135 | 13924 |
| 9 | 37934 | 18948 | 4913 | 12236 | 15858 | 8412 | 3510 | 1649 | 3280 | 883 | 3113 | 15288 |
| 10 | 38022 | 18595 | 4274 | 13422 | 14658 | 7889 | 3277 | 2168 | 2632 | 893 | 3045 | 18150 |
| 11 | 38157 | 17396 | 3692 | 11823 | 13683 | 7518 | 3044 | 3554 | 2272 | 844 | 2984 | 17517 |
| 12 | 37826 | 16047 | 3320 | 12163 | 13657 | 7479 | 2733 | 3042 | 2151 | 844 | 2865 | 15887 |
| 13 | 36962 | 15798 | 3296 | 16937 | 16468 | 7538 | 2854 | 2642 | 1750 | 827 | 2759 | 18507 |
| 14 | 35675 | 17970 | 3345 | 25330 | 19284 | 8636 | 3333 | 2253 | 1642 | 813 | A | 20171 |
| 15 | 34326 | 17721 | 3357 | 29584 | 20355 | 10259 | 4435 | 1931 | 1554 | 830 | A | 19047 |
| 16 | 33374 | 16644 | 3342 | 29785 | 21004 | 11006 | 3752 | 1649 | 1424 | 823 | A | 17727 |
| 17 | 32595 | 15443 | 3570 | 28965 | 21289 | 10967 | 3294 | 1432 | 1206 | 781 | A | 16252 |
| 18 | 31710 | 15467 | 3825 | 30068 | 20693 | 10283 | 2889 | 1811 | 1233 | 769 | A | 14520 |
| 19 | 30796 | 17264 | 4086 | 33302 | 19925 | 8855 | 2593 | 1949 | 1246 | 747 | 5331 | 13036 |
| 20 | 29858 | 17560 | 4354 | 32644 | 19310 | 8436 | 2589 | 2251 | 1218 | 741 | 10604 | 11918 |
| 21 | 28823 | 15976 | 3946 | 30591 | 18812 | 7250 | 2559 | 1769 | 1168 | 738 | 14214 | 11045 |
| 22 | 27596 | 13912 | 3679 | 29389 | 18135 | 7342 | 2484 | 1548 | 1052 | 717 | 15382 | 10617 |
| 23 | 26198 | 11674 | 3813 | 28121 | 17554 | 7959 | 2348 | 1539 | 1049 | 705 | 16372 | 11238 |
| 24 | 24690 | 9920 | 4267 | 26371 | 16919 | 8297 | 2203 | 1548 | 1081 | 726 | 15582 | 12235 |
| 25 | 22909 | 8823 | 5219 | 24425 | 17310 | 9062 | 2414 | 1527 | 1100 | 774 | 14601 | 11960 |
| 26 | 20821 | 8180 | 5824 | 22351 | 18351 | 9312 | 2648 | 1482 | 1297 | 815 | 13624 | 11247 |
| 27 | 18485 | 7709 | 7334 | 25140 | 18364 | 8739 | 2455 | 1401 | 1147 | 897 | 13059 | 10600 |
| 28 | 16219 | 7391 | 8421 | 29128 | 17637 | 7770 | 2252 | 1606 | 921 | 1258 | 12521 | 10086 |
| 29 | 14319 | | 9317 | 33496 | 16675 | 7120 | 2126 | 2688 | 866 | 3818 | 11857 | 8614 |
| 30 | 12825 | | 10752 | 34988 | 15650 | 5928 | 2033 | 3070 | 927 | 9410 | 10460 | 7833 |
| 31 | 11689 | | 11220 | | 14694 | | 2013 | 2653 | | 11287 | | 7540 |
| THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE | | | | | | | | | | | | |
| MEAN | 30143 | 14007 | 5951 | 21503 | 19808 | 9277 | 3210 | 1984 | 1666 | 1566 | | 14059 |
| MAX. | 39583 | 18948 | 11220 | 34988 | 34033 | 13878 | 5052 | 3554 | 3643 | 11287 | | 20171 |
| MIN. | 11689 | 7391 | 3296 | 9940 | 13657 | 5928 | 2013 | 1401 | 866 | 705 | | 7540 |

A- RECORD.
MAXIMUM DISCHARGE WAS 39,583 ON JAN. 1.
MINIMUM DISCHARGE WAS 705 ON OCT. 23.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1680 | 12640 | 24080 | 17370 | 20220 | 16660 | 7840 | 2340 | 1750 | 910 | 1510 | 2560 |
| 2 | 2280 | 14860 | 22970 | 16420 | 23080 | 17650 | 7520 | 2330 | 1560 | 900 | 1420 | 1900 |
| 3 | 2380 | 18810 | 21130 | 17290 | 26970 | 19790 | 7090 | 2320 | 1440 | 890 | 1720 | 2810 |
| 4 | 2410 | 22310 | 18930 | 17590 | 26830 | 20600 | 6910 | 2330 | 1390 | 1620 | 1760 | 3880 |
| 5 | 2230 | 23860 | 17040 | 17500 | 25480 | 20410 | 6610 | 2370 | 1330 | 2280 | 1710 | 4320 |
| 6 | 2090 | 24710 | 15410 | 17400 | 24210 | 19580 | 6360 | 2360 | 1270 | 2890 | 1660 | 4140 |
| 7 | 2010 | 25180 | 14360 | 16710 | 23390 | 18090 | 5860 | 2300 | 1260 | 3240 | 1580 | 3260 |
| 8 | 2220 | 25250 | 22450 | 15590 | 23320 | 16450 | 5430 | 2270 | 1310 | 5900 | 1530 | 3130 |
| 9 | 1650 | 24640 | 28010 | 14100 | 23030 | 15180 | 5050 | 2220 | 1450 | 11170 | 1620 | 2940 |
| 10 | 1690 | 25510 | 27920 | 12740 | 21900 | 14540 | 4600 | 2170 | 1600 | 16340 | 2120 | 2880 |
| 11 | 1330 | 25510 | 26320 | 11350 | 20230 | 14190 | 4220 | 2120 | 1690 | 17560 | 2280 | 3100 |
| 12 | 1430 | 24310 | 24410 | 10470 | 18300 | 13690 | 4150 | 2050 | 1790 | 16290 | 2240 | 3110 |
| 13 | 1780 | 22460 | 21900 | 9820 | 16090 | 13040 | 4280 | 2040 | 2080 | 15110 | 2000 | 3070 |
| 14 | 1840 | 20390 | 18940 | 10000 | 13510 | 12410 | 5820 | 2120 | 2080 | 14370 | 1710 | 3080 |
| 15 | 1820 | 20200 | 19380 | 10340 | 11650 | 11830 | 6140 | 2260 | 1900 | 13180 | 1660 | 3480 |
| 16 | 1710 | 24540 | 20200 | 10420 | 10430 | 11230 | 5390 | 2050 | 1820 | 11110 | 1610 | 3790 |
| 17 | 1780 | 27160 | 19090 | 11580 | 9740 | 10760 | 4380 | 1940 | 1700 | 8630 | 1710 | 5660 |
| 18 | 2050 | 27990 | 17610 | 16190 | 9400 | 10530 | 3750 | 1800 | 1610 | 6740 | 2030 | 16580 |
| 19 | 2940 | 27590 | 15710 | 16570 | 9520 | 10170 | 3340 | 1880 | 1540 | 5630 | 1630 | 21950 |
| 20 | 7300 | 26980 | 13890 | 16360 | 14420 | 9740 | 3190 | 1750 | 1470 | 4490 | 1380 | 22840 |
| 21 | 9370 | 26200 | 12660 | 19600 | 17350 | 9540 | 2990 | 1810 | 1410 | 3260 | 1550 | 25330 |
| 22 | 8330 | 27370 | 11700 | 21350 | 19330 | 10770 | 2820 | 1680 | 1340 | 3260 | 1680 | 30300 |
| 23 | 10320 | 29330 | 10780 | 19510 | 17650 | 13410 | 2950 | 1600 | 1260 | 3260 | 1780 | 32250 |
| 24 | 11630 | 29420 | 10040 | 17970 | 16260 | 12620 | 3050 | 1580 | 1200 | 3240 | 1800 | 32360 |
| 25 | 11840 | 28460 | 9350 | 15620 | 15390 | 11220 | 3140 | 1580 | 1150 | 2900 | 1780 | 32180 |
| 26 | 11480 | 27020 | 9080 | 13240 | 14920 | 10020 | 3250 | 1580 | 1090 | 2500 | 1830 | 33280 |
| 27 | 10820 | 25830 | 8660 | 11850 | 14770 | 9300 | 3110 | 1570 | 1040 | 2210 | 1660 | 34910 |
| 28 | 9960 | 24950 | 8320 | 16220 | 15100 | 8850 | 2760 | 1580 | 1020 | 2150 | 2330 | 36640 |
| 29 | 13040 | | 9360 | 20510 | 15150 | 8470 | 2560 | 1560 | 990 | 2030 | 3740 | 37300 |
| 30 | 13540 | | 14250 | 20330 | 15430 | 8140 | 2450 | 1640 | 940 | 1690 | 3860 | 38700 |
| 31 | 12460 | | 18260 | | 16080 | | 2380 | 1825 | | 1560 | | 39980 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 5400 | 24410 | 17168 | 15400 | 17715 | 13296 | 4496 | 1969 | 1449 | 6042 | 1896 | 15862 |
| MAX. | 13540 | 29420 | 28010 | 21350 | 26970 | 20600 | 7840 | 2370 | 2080 | 17560 | 3860 | 39980 |
| MIN. | 1330 | 12640 | 8320 | 9820 | 9400 | 8140 | 2380 | 1560 | 940 | 890 | 1380 | 1900 |

TOTAL DISCHARGE FOR YEAR WAS 3773160 MEAN DISCHARGE FOR YEAR WAS 10340

MAXIMUN DISCHARGE WAS 39,980 ON DEC. 31.
MINIMUM DISCHARGE WAS 890 ON OCT. 3.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19770 | 13080 | 47420 | 20880 | 9920 | 4060 | 10006 | 4200 | 2390 | 3430 | 1310 | 880 |
| 2 | 18310 | 13530 | 44570 | 19920 | 9020 | 4320 | 11440 | 4020 | 2530 | 3200 | 1390 | 910 |
| 3 | 16570 | 19910 | 42080 | 18590 | 8020 | 3880 | 12890 | 3840 | 2480 | 2420 | 970 | 920 |
| 4 | 15080 | 26850 | 39680 | 22370 | 7540 | 4400 | 13250 | 3700 | 2340 | 1830 | 980 | 960 |
| 5 | 13790 | 27340 | 39200 | 24240 | 7590 | 6400 | 12740 | 3530 | 2240 | 1590 | 1060 | 960 |
| 6 | 13900 | 26080 | 39630 | 22710 | 7580 | 7220 | 11830 | 3410 | 2110 | 1410 | 1140 | 960 |
| 7 | 14210 | 25110 | 39380 | 21590 | 7650 | 6660 | 11380 | 3290 | 1970 | 1350 | 1370 | 970 |
| 8 | 15050 | 24180 | 38290 | 20980 | 7360 | 5760 | 11000 | 3270 | 1810 | 1250 | 3370 | 1170 |
| 9 | 15380 | 22970 | 36810 | 20790 | 6830 | 5410 | 9560 | 3010 | 1690 | 1200 | 3060 | 1890 |
| 10 | 14720 | 21920 | 35310 | 20870 | 7300 | 5340 | 8320 | 2760 | 1710 | 1140 | 2720 | 1460 |
| 11 | 14480 | 21410 | 34100 | 20700 | 7580 | 5150 | 7440 | 2690 | 1790 | 1120 | 2350 | 1120 |
| 12 | 20850 | 20950 | 33470 | 20160 | 7360 | 4790 | 6760 | 2640 | 1870 | 1110 | 1920 | 1080 |
| 13 | 27830 | 20610 | 32860 | 19050 | 6690 | 6890 | 6120 | 2570 | 1760 | 1080 | 1730 | 1190 |
| 14 | 29960 | 28640 | 31920 | 17520 | 6500 | 10860 | 5770 | 2480 | 2000 | 1110 | 1510 | 1020 |
| 15 | 31710 | 35592 | 31090 | 15830 | 5750 | 13070 | 5460 | 2390 | 2600 | 1090 | 1340 | 970 |
| 16 | 31530 | 39270 | 30090 | 14070 | 5690 | 14190 | 5240 | 2280 | 2750 | 1020 | 1490 | 990 |
| 17 | 30920 | 41140 | 29220 | 12410 | 5710 | 14800 | 5070 | 2230 | 2610 | 1670 | 1790 | 940 |
| 18 | 30650 | 43230 | 28440 | 10980 | 5580 | 15400 | 4950 | 2110 | 2500 | 1740 | 1540 | 1180 |
| 19 | 30140 | 45480 | 27460 | 9720 | 5140 | 20070 | 5670 | 2090 | 2420 | 1590 | 1430 | 1570 |
| 20 | 28620 | 49030 | 26140 | 8080 | 5370 | 19880 | 5720 | 1960 | 2310 | 2740 | 1380 | 1250 |
| 21 | 26550 | 54320 | 24660 | 6960 | 5480 | 18740 | 5690 | 1960 | 2150 | 2680 | 1380 | 1120 |
| 22 | 24460 | 57510 | 22060 | 7590 | 6210 | 17430 | 5420 | 1990 | 1960 | 1890 | 1370 | 1130 |
| 23 | 22220 | 58640 | 19360 | 7520 | 8970 | 16300 | 5550 | 2060 | 1930 | 1620 | 1410 | 1140 |
| 24 | 19800 | 58090 | 17190 | 7310 | 9480 | 15480 | 5000 | 2070 | 1830 | 1590 | 1350 | 1140 |
| 25 | 17360 | 56670 | 16100 | 7150 | 8100 | 14730 | 4650 | 2560 | 1770 | 1510 | 1160 | 1100 |
| 26 | 15600 | 54540 | 15330 | 7380 | 6510 | 13630 | 4440 | 2870 | 1690 | 1470 | 1060 | 930 |
| 27 | 15320 | 52440 | 14320 | 7650 | 5800 | 12320 | 4290 | 3170 | 1550 | 1460 | 1070 | 1220 |
| 28 | 14230 | 49970 | 13270 | 7620 | 6380 | 11170 | 4150 | 2940 | 1420 | 1480 | 980 | 940 |
| 29 | 13310 | | 18520 | 9750 | 7140 | 10250 | 4030 | 2530 | 1440 | 1330 | 900 | 1050 |
| 30 | 12500 | | 20930 | 10090 | 6170 | 9670 | 3920 | 2360 | 2780 | 1510 | 870 | 1330 |
| 31 | 11580 | | 20630 | | 4810 | | 4030 | 2370 | | 1110 | | 2330 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 20206 | 36018 | 29340 | 14683 | 6943 | 10609 | 7154 | 2753 | 2080 | 1637 | 1513 | 1155 |
| MAX. | 31710 | 58640 | 47420 | 24240 | 9920 | 20070 | 13250 | 4200 | 2780 | 3430 | 3370 | 2330 |
| MIN. | 11580 | 13080 | 13270 | 6960 | 4810 | 3880 | 3920 | 1960 | 1420 | 1020 | 870 | 880 |

TOTAL DISCHARGE FOR YEAR WAS 4019908. MEAN DISCHARGE FOR YEAR WAS 11013.

MAXIMUN DISCHARGE WAS 47,420 ON MAR. 1.
MINIMUM DISCHARGE WAS 870 ON NOV. 30.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 44810 | 14320 | 7030 | 12310 | 6400 | 3680 | 1640 | 3250 | 1030 | 2300 | 1590 | 37740 |
| 2 | 45230 | 16180 | 5500 | 13220 | 6260 | 4780 | 1710 | 3300 | 1060 | 3400 | 1530 | 35920 |
| 3 | 45310 | 21730 | 7210 | 13390 | 4710 | 4310 | 1690 | 3220 | 1080 | 6360 | 1530 | 33470 |
| 4 | 45080 | 22530 | 9240 | 13430 | 5180 | 3310 | 1740 | 2730 | 1160 | 7380 | 1520 | 31190 |
| 5 | 44060 | 22440 | 9350 | 13300 | 5830 | 2610 | 2130 | 2210 | 1550 | 7090 | 1500 | 29460 |
| 6 | 42200 | 22250 | 8750 | 13042 | 6270 | 2260 | 1580 | 2150 | 3740 | 6640 | 1490 | 27860 |
| 7 | 38780 | 21930 | 8110 | 12400 | 5740 | 2200 | 1360 | 2190 | 2980 | 5780 | 1480 | 26110 |
| 8 | 35310 | 21980 | 8420 | 11320 | 6020 | 2380 | 1490 | 2100 | 4560 | 4710 | 1540 | 23950 |
| 9 | 32550 | 22370 | 11380 | 10160 | 5840 | 2420 | 1390 | 1970 | 3370 | 4030 | 1630 | 20750 |
| 10 | 28530 | 22780 | 12560 | 9150 | 6040 | 2400 | 1340 | 1840 | 3030 | 3450 | 1810 | 17170 |
| 11 | 24330 | 22230 | 12750 | 7990 | 5750 | 2400 | 1390 | 1780 | 2900 | 3410 | 1940 | 13880 |
| 12 | 19910 | 20800 | 12980 | 7680 | 5660 | 2300 | 1640 | 1720 | 2310 | 3340 | 2110 | 11540 |
| 13 | 16810 | 18790 | 13120 | 7630 | 5460 | 2150 | 7050 | 1690 | 2070 | 3220 | 1950 | 9260 |
| 14 | 14410 | 16550 | 12870 | 7580 | 5170 | 2040 | 10510 | 1640 | 3610 | 3150 | 1800 | 7680 |
| 15 | 12780 | 15130 | 12460 | 7500 | 5490 | 1960 | 9180 | 1570 | 4540 | 3060 | 1790 | 6610 |
| 16 | 11870 | 13980 | 11960 | 7470 | 5240 | 1900 | 7850 | 1530 | 5150 | 2990 | 1830 | 7440 |
| 17 | 12570 | 12610 | 10290 | 7350 | 5060 | 1860 | 6760 | 1460 | 4650 | 2900 | 2040 | 7540 |
| 18 | 14990 | 11390 | 8690 | 7860 | 4420 | 1820 | 4850 | 1260 | 4540 | 2730 | 2470 | 7420 |
| 19 | 18480 | 11730 | 8170 | 8420 | 4800 | 1760 | 3180 | 1610 | 3440 | 2450 | 16860 | 7060 |
| 20 | 23780 | 12480 | 8330 | 8490 | 3900 | 1700 | 2390 | 1590 | 3140 | 2260 | 28390 | 6070 |
| 21 | 24900 | 12070 | 8580 | 9360 | 3790 | 1630 | 2490 | 1320 | 3110 | 2160 | 32270 | 6330 |
| 22 | 25190 | 11110 | 8840 | 9870 | 4230 | 1590 | 3600 | 1380 | 3050 | 2080 | 34250 | 6270 |
| 23 | 25540 | 10290 | 8710 | 10110 | 4280 | 1570 | 5080 | 1850 | 2300 | 2070 | 35690 | 7180 |
| 24 | 25330 | 10050 | 8210 | 9560 | 4620 | 1550 | 3870 | 2140 | 2740 | 2090 | 35520 | 7860 |
| 25 | 24470 | 9680 | 7720 | 9010 | 4470 | 1530 | 4260 | 2260 | 3860 | 1940 | 34460 | 8310 |
| 26 | 22800 | 8600 | 7430 | 7820 | 5130 | 1500 | 7670 | 2050 | 3510 | 1830 | 35460 | 7990 |
| 27 | 21010 | 7730 | 7344 | 7820 | 4930 | 1460 | 7972 | 1280 | 2800 | 1760 | 38660 | 7210 |
| 28 | 19580 | 7650 | 7250 | 7350 | 4390 | 1430 | 6780 | 1090 | 2560 | 1820 | 40120 | 14060 |
| 29 | 18450 | 7130 | 6700 | 5970 | 3720 | 1410 | 5480 | 1060 | 2330 | 1910 | 40060 | 18490 |
| 30 | 16980 | | 7990 | 6250 | 3620 | 1700 | 4800 | 1060 | 2210 | 1780 | 39120 | 19100 |
| 31 | 15420 | | 8980 | | 3440 | | 4020 | 1050 | | 1670 | | 19620 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 26176 | 15466 | 9256 | 9427 | 5028 | 2187 | 4093 | 1850 | 2946 | 3283 | 14747 | 15824 |
| MAX. | 45310 | 22780 | 13120 | 13430 | 6400 | 4780 | 10510 | 3300 | 5150 | 7380 | 40120 | 37740 |
| MIN. | 11870 | 7130 | 5500 | 5970 | 3440 | 1410 | 1340 | 1050 | 1030 | 1670 | 1480 | 6070 |

TOTAL DISCHARGE FOR YEAR WAS 3358508. MEAN DISCHARGE FOR YEAR WAS 9176.

MAXIMUM DISCHARGE WAS 45,230 ON JAN. 2.
MINIMUM DISCHARGE WAS 1030 ON SEP. 1.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP CUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3900 | 2800 | 25710 | 5230 | 4170 | 3880 | 2460 | 2560 | 960 | 1230 | 560 | 8540 |
| 2 | 4000 | 4280 | 28420 | 4910 | 3780 | 4970 | 2930 | 2520 | 950 | 990 | 530 | 6970 |
| 3 | 4120 | 5450 | 26340 | 4570 | 3890 | 5500 | 6020 | 2290 | 1170 | 890 | 520 | 6130 |
| 4 | 4240 | 4950 | 24680 | 4630 | 3960 | 5820 | 7940 | 2190 | 1000 | 870 | 500 | 5430 |
| 5 | 4330 | 4050 | 23740 | 4900 | 3970 | 3530 | 9360 | 2160 | 820 | 830 | 490 | 6120 |
| 6 | 4430 | 3500 | 22200 | 5050 | 3700 | 2970 | 9750 | 2080 | 810 | 800 | 490 | 5950 |
| 7 | 4620 | 3240 | 20370 | 5370 | 3270 | 2810 | 8790 | 2090 | 830 | 820 | 450 | 4770 |
| 8 | 4730 | 3150 | 18100 | 5200 | 2920 | 2500 | 6570 | 2050 | 1000 | 770 | 450 | 3980 |
| 9 | 4850 | 3030 | 14650 | 4920 | 2820 | 2350 | 5710 | 2060 | 990 | 740 | 500 | 3090 |
| 10 | 5100 | 2930 | 13090 | 4340 | 2590 | 2130 | 6380 | 2090 | 860 | 710 | 840 | 2750 |
| 11 | 5180 | 2830 | 11570 | 4170 | 2690 | 2010 | 5950 | 1860 | 920 | 820 | 990 | 2680 |
| 12 | 5170 | 2720 | 10130 | 3730 | 2700 | 2070 | 4390 | 1760 | 1220 | 640 | 850 | 3010 |
| 13 | 5150 | 2570 | 8720 | 3640 | 2550 | 2100 | 3480 | 1870 | 950 | 520 | 700 | 3210 |
| 14 | 4990 | 2540 | 7270 | 5120 | 2500 | 2320 | 3090 | 1950 | 780 | 510 | 610 | 4400 |
| 15 | 6050 | 2570 | 5880 | 5980 | 2470 | 2710 | 2860 | 1890 | 830 | 520 | 570 | 9950 |
| 16 | 7530 | 3270 | 5730 | 6810 | 2460 | 2060 | 2950 | 1760 | 1010 | 480 | 3120 | 12840 |
| 17 | 7330 | 3870 | 6090 | 8250 | 2940 | 2440 | 2490 | 1620 | 840 | 460 | 12150 | 13020 |
| 18 | 5730 | 4000 | 12710 | 6960 | 3640 | 2460 | 2580 | 1590 | 870 | 460 | 13000 | 12670 |
| 19 | 5250 | 5250 | 14960 | 6130 | 3320 | 3690 | 2210 | 1950 | 910 | 420 | 11440 | 11470 |
| 20 | 4400 | 5730 | 12540 | 5270 | 2770 | 4940 | 2100 | 1950 | 2290 | 430 | 9840 | 10950 |
| 21 | 4190 | 5360 | 10880 | 5090 | 2710 | 4130 | 1920 | 1690 | 1260 | 440 | 8280 | 10610 |
| 22 | 4150 | 4960 | 9620 | 4960 | 2580 | 4180 | 1980 | 1180 | 1200 | 450 | 6360 | 9620 |
| 23 | 4040 | 4400 | 8660 | 4560 | 2680 | 3560 | 2270 | 930 | 980 | 420 | 4220 | 8040 |
| 24 | 3760 | 4160 | 8100 | 4420 | 3260 | 4180 | 2130 | 900 | 930 | 410 | 2850 | 9760 |
| 25 | 3640 | 3940 | 6990 | 4380 | 7170 | 4480 | 2320 | 980 | 1200 | 420 | 4610 | 28900 |
| 26 | 3480 | 4600 | 5840 | 4330 | 8710 | 6330 | 2540 | 1190 | 900 | 670 | 8910 | 35280 |
| 27 | 3230 | 10560 | 5200 | 4360 | 7920 | 5400 | 2580 | 1070 | 840 | 750 | 9340 | 38590 |
| 28 | 2880 | 18030 | 5100 | 4660 | 7060 | 3610 | 3610 | 1060 | 870 | 750 | 9690 | 41000 |
| 29 | 2740 | | 5080 | 4670 | 5340 | 2710 | 4470 | 1160 | 910 | 710 | 9820 | 42240 |
| 30 | 2770 | | 5140 | 4480 | 4060 | 2350 | 3360 | 1160 | 1010 | 640 | 10590 | 43350 |
| 31 | 2750 | | 5230 | | 2500 | | 2610 | 1050 | | 580 | | 44590 |
| MEAN | 4475 | 4598 | 12540 | 5036 | 3777 | 3473 | 4123 | 1699 | 1004 | 650 | 4442 | 14513 |
| MAX. | 7530 | 18030 | 28420 | 8250 | 8710 | 6330 | 9750 | 2560 | 2290 | 1230 | 13000 | 44590 |
| MIN. | 2740 | 2540 | 5080 | 3640 | 2460 | 2010 | 1920 | 900 | 780 | 410 | 450 | 2680 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

TOTAL DISCHARGE FOR YEAR WAS 1842499. MEAN DISCHARGE FOR YEAR WAS 5047.

MAXIMUM DISCHARGE WAS 44,590 ON DEC. 31.
MINIMUM DISCHARGE WAS 410 ON OCT. 24.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP CUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5660 | 4040 | 4620 | 7020 | 6240 | 20410 | 6410 | 2630 | 1370 | 1010 | 1280 | 2250 |
| 2 | 5850 | 3710 | 4600 | 6620 | 6600 | 18810 | 6050 | 2450 | 1360 | 1000 | 1300 | 2490 |
| 3 | 6120 | 3090 | 4790 | 7340 | 6650 | 17470 | 5790 | 2190 | 1370 | 1030 | 1350 | 2390 |
| 4 | 6350 | 3190 | 5140 | 6570 | 6360 | 17040 | 5710 | 2100 | 1390 | 1090 | 1390 | 2030 |
| 5 | 6300 | 4660 | 5350 | 12180 | 6150 | 18210 | 5650 | 1970 | 1390 | 1200 | 1510 | 1910 |
| 6 | 6220 | 7050 | 5440 | 15830 | 6090 | 20990 | 5590 | 1830 | 1370 | 1200 | 1620 | 1840 |
| 7 | 6080 | 9780 | 5150 | 13880 | 6150 | 21780 | 5460 | 1900 | 1370 | 1280 | 1760 | 1810 |
| 8 | 5920 | 12610 | 4800 | 12880 | 6860 | 21650 | 5230 | 1650 | 1360 | 1270 | 6180 | 3070 |
| 9 | 5950 | 12930 | 4660 | 12840 | 5300 | 21830 | 4960 | 1580 | 1340 | 1210 | 11260 | 8420 |
| 10 | 5900 | 13260 | 4490 | 13260 | 5500 | 22190 | 4770 | 1580 | 1340 | 1060 | 11640 | 15000 |
| 11 | 5810 | 14030 | 4250 | 13020 | 8120 | 21980 | 4510 | 1660 | 1290 | 1070 | 10660 | 16030 |
| 12 | 5860 | 14380 | 13840 | 12360 | 9990 | 21780 | 4200 | 1980 | 1260 | 1200 | 10180 | 14630 |
| 13 | 5900 | 14390 | 18230 | 11250 | 10480 | 20830 | 3790 | 1830 | 1230 | 2250 | 8450 | 13860 |
| 14 | 5990 | 13610 | 17470 | 9710 | 9500 | 20240 | 3450 | 1440 | 1220 | 2900 | 6620 | 13270 |
| 15 | 6190 | 12990 | 17080 | 8120 | 8350 | 19910 | 3290 | 1360 | 1210 | 2180 | 4730 | 12390 |
| 16 | 8190 | 13170 | 16610 | 7220 | 9340 | 19620 | 3260 | 1460 | 1200 | 1750 | 3560 | 10320 |
| 17 | 9420 | 13030 | 15000 | 6990 | 11200 | 18940 | 3150 | 1620 | 1180 | 1640 | 2860 | 7800 |
| 18 | 8830 | 12730 | 13010 | 6520 | 12390 | 17540 | 3010 | 2040 | 1160 | 1600 | 2430 | 6110 |
| 19 | 7790 | 12200 | 12150 | 6300 | 14420 | 15660 | 2840 | 2080 | 1250 | 1520 | 2310 | 5240 |
| 20 | 7170 | 11790 | 11710 | 6230 | 15960 | 13560 | 2690 | 1950 | 1550 | 1460 | 2280 | 4710 |
| 21 | 6790 | 11380 | 10880 | 6560 | 16720 | 11430 | 2560 | 1920 | 1420 | 1420 | 2240 | 4380 |
| 22 | 6540 | 10440 | 10080 | 6120 | 17330 | 9380 | 2500 | 1930 | 1380 | 1370 | 2230 | 3870 |
| 23 | 6710 | 8970 | 9270 | 6220 | 18630 | 7630 | 2390 | 1910 | 1460 | 1300 | 2230 | 3200 |
| 24 | 6420 | 7750 | 8400 | 7470 | 19770 | 7030 | 2320 | 1780 | 1420 | 1350 | 2220 | 2940 |
| 25 | 6080 | 6540 | 7810 | 8260 | 22010 | 7000 | 2270 | 1690 | 1360 | 1770 | 2410 | 3110 |
| 26 | 5410 | 5880 | 7420 | 6770 | 24750 | 6860 | 2220 | 1700 | 1320 | 2010 | 3840 | 3400 |
| 27 | 5310 | 5790 | 6210 | 5670 | 26110 | 6320 | 2300 | 1630 | 1270 | 1850 | 3860 | 3510 |
| 28 | 5080 | 5440 | 6120 | 5690 | 25660 | 6440 | 2430 | 1780 | 1230 | 1680 | 3110 | 3560 |
| 29 | 4620 | | 6790 | 6370 | 25010 | 6550 | 2410 | 1430 | 1090 | 1500 | 2650 | 3620 |
| 30 | 4210 | | 7310 | 6390 | 23730 | 6620 | 2290 | 1320 | 1040 | 1410 | 2390 | 3800 |
| 31 | 4180 | | 7280 | | 21970 | | 2410 | 1370 | | 1330 | | 3890 |
| MEAN | 6221 | 9601 | 8902 | 8722 | 13334 | 15523 | 3739 | 1799 | 1307 | 1481 | 4018 | 5963 |
| MAX. | 9420 | 14390 | 18230 | 15830 | 26110 | 22190 | 6410 | 2630 | 1550 | 2900 | 11640 | 16030 |
| MIN. | 4180 | 3090 | 4250 | 5670 | 5300 | 6320 | 2220 | 1320 | 1040 | 1000 | 1280 | 1810 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

TOTAL DISCHARGE FOR YEAR WAS 2438350. MEAN DISCHARGE FOR YEAR WAS 6680.

MAXIMUM DISCHARGE WAS 26,110 ON MAY 27.
MINIMUM DISCHARGE WAS 1000 ON OCT. 2.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 33901 | 16661 | 18583 | 14984 | 26482 | 8467 | 8420 | 4449 | | 1057 | 4936 | 18347 |
| 2 | 35504 | 16117 | 19509 | 14181 | 27913 | 8145 | 7955 | 5026 | | 1089 | 8010 | 18222 |
| 3 | 35436 | 15671 | 20745 | 14714 | 28763 | 7857 | 7484 | 4123 | | 1107 | 8573 | 16977 |
| 4 | 34686 | 15194 | 21961 | 15592 | 29369 | 7493 | 7132 | 4060 | | 1067 | 7558 | 15402 |
| 5 | 34007 | 14047 | 23054 | 16638 | 29908 | 7408 | 6834 | 3858 | | 1058 | 6576 | 13936 |
| 6 | 33571 | 13014 | 23595 | 17748 | 30527 | 7310 | 6592 | 3824 | | 1053 | 4326 | 12737 |
| 7 | 33536 | 12471 | 23441 | 18905 | 30873 | 7397 | 6447 | 3759 | | 1048 | 3641 | 11616 |
| 8 | 34292 | 11865 | 22841 | 20116 | 30945 | 7355 | 6210 | 3624 | | 1031 | 3450 | 10580 |
| 9 | 34655 | 11383 | 22027 | 21256 | 30259 | 7226 | 5909 | 3346 | | 956 | 3301 | 9571 |
| 10 | 34456 | 11452 | 20944 | 22165 | 28676 | 6885 | 5566 | 3174 | 4030 | 945 | 3008 | 8188 |
| 11 | 34001 | 16324 | 19649 | 22418 | 26191 | 6799 | 5479 | 3373 | 3960 | 1030 | 2366 | 7988 |
| 12 | 32605 | 17728 | 18641 | 22009 | 23220 | 6652 | 5470 | 3461 | 4015 | 1062 | 2228 | 8975 |
| 13 | 30559 | 17401 | 18004 | 21071 | 20304 | 7092 | 5630 | 3081 | 3650 | 1077 | 2290 | 9032 |
| 14 | 28478 | 17642 | 17592 | 20497 | 17690 | 7939 | 5294 | 2598 | 2943 | 1071 | 2333 | 9140 |
| 15 | 26249 | 17497 | 17135 | 21287 | 16110 | 7232 | 5163 | 2566 | 2611 | 1073 | 2350 | 9097 |
| 16 | 24144 | 16798 | 16728 | 20406 | 14933 | 7374 | 5104 | 3294 | 2398 | 1097 | 2596 | 8940 |
| 17 | 22536 | 15755 | 16230 | 19710 | 13758 | 6843 | 5261 | 3990 | 2120 | 1187 | 3087 | 8939 |
| 18 | 20627 | 14714 | 15683 | 19828 | 12698 | 6426 | 5027 | 4086 | 1982 | 1186 | 3176 | 8593 |
| 19 | 18770 | 14288 | 15192 | 20093 | 11442 | 6407 | 5029 | 4369 | 1863 | 1335 | 3149 | 7709 |
| 20 | 17127 | 14633 | 14532 | 20036 | 10277 | 7727 | 5002 | | 1754 | 1398 | 3090 | 7190 |
| 21 | 16344 | 14345 | 14400 | 19663 | 9350 | 8230 | 4848 | | 1651 | 1503 | 3752 | 6535 |
| 22 | 15672 | 13665 | 15698 | 19151 | 11299 | 8433 | 4776 | | 1509 | 1734 | 4270 | 6308 |
| 23 | 14834 | 13540 | 15491 | 19945 | 16250 | 9211 | 4480 | | 1366 | 4025 | 4255 | 6312 |
| 24 | 14574 | 17838 | 14796 | 24099 | 17379 | 9638 | 4916 | | 1627 | 4013 | 4291 | 6237 |
| 25 | 14430 | 19105 | 14100 | 23999 | 16561 | 9605 | 4361 | | 1586 | 3691 | 4495 | 5991 |
| 26 | 14181 | 18505 | 13520 | 23358 | 15101 | 9857 | 4348 | | 1177 | 3643 | 4882 | 5905 |
| 27 | 14178 | 18106 | 12942 | 25305 | 13930 | 8188 | 4805 | | 1109 | 3523 | 9544 | 5805 |
| 28 | 14377 | 18067 | 12215 | 26611 | 12692 | 7800 | 5061 | | 1084 | 3029 | 17190 | 5780 |
| 29 | 14405 | | 11366 | 25860 | 10959 | 8185 | 5013 | | 1072 | 2599 | 18690 | 5795 |
| 30 | 14551 | | 10745 | 24922 | 10237 | 8658 | 5252 | | 1066 | 2341 | 18661 | 5785 |
| 31 | 16467 | | 13272 | | 9301 | | 4529 | | | 2635 | | 5609 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 24618 | 15494 | 17246 | 20552 | 19464 | 7795 | 5593 | | | 1763 | 5669 | 9266 |
| MAX. | 35504 | 19105 | 23595 | 26611 | 30945 | 9857 | 8420 | | | 4025 | 18690 | 18347 |
| MIN. | 14178 | 11383 | 10745 | 14181 | 9301 | 6407 | 4348 | | | 945 | 2228 | 5609 |

TOTAL DISCHARGE AND MEAN DISCHARGE NOT DETERMINED.

MAXIMUM DISCHARGE WAS 35,504 ON JAN. 2.
MINIMUM DISCHARGE WAS NOT DETERMINED.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12800 | | 7140 | 13400 | 8220 | 10700 | 3100 | 2070 | 2140 | 2000 | 16200 | 13900 |
| 2 | 12700 | | 6830 | 13500 | 8560 | 10500 | 3120 | 2000 | 2240 | 2480 | 18300 | 13800 |
| 3 | 11400 | | 6320 | 18600 | 13300 | 9940 | 3190 | 1860 | 2280 | 2430 | 19100 | 13900 |
| 4 | 8580 | | 7140 | 21600 | 16000 | 9200 | 3060 | 1920 | 2300 | 2120 | 18600 | 13900 |
| 5 | 7440 | | 14500 | 21300 | 16200 | 8320 | 2900 | 2100 | 2300 | 1900 | 18100 | 13800 |
| 6 | 8140 | | 16400 | 20200 | 16100 | 7730 | 2770 | 2860 | 2180 | 1980 | 17800 | 13600 |
| 7 | 8660 | | 15500 | 19800 | 18100 | 7230 | 2890 | 3980 | 2000 | 2920 | 17900 | 13200 |
| 8 | 8820 | | 14800 | 20100 | 22800 | 6720 | 4180 | 4060 | 1840 | 5340 | 18200 | 12700 |
| 9 | 9490 | | 13500 | 23300 | 24000 | 6040 | 5750 | 3690 | 3320 | 6520 | 17500 | 12000 |
| 10 | 10100 | | 12100 | 23800 | 24400 | 5830 | 5150 | 3180 | 7560 | 7230 | 19100 | 11200 |
| 11 | 9780 | | 10700 | 21900 | 25000 | 5300 | 5020 | 3240 | 9290 | 8250 | 19300 | 10500 |
| 12 | 9270 | | 9570 | 19800 | 24200 | 5040 | 4830 | 3120 | 7280 | 7180 | 17700 | 9970 |
| 13 | 8950 | 14600 | 8580 | 18300 | 23700 | 4950 | 4890 | 2720 | 5930 | 5820 | 15600 | 8860 |
| 14 | 8690 | 14900 | 7670 | 17100 | 23400 | 4740 | 4200 | 2360 | 4780 | 5070 | 13400 | 8320 |
| 15 | 8420 | 13900 | 6860 | 15900 | 22700 | 4780 | 3570 | 2280 | 3900 | 4020 | 11300 | 6870 |
| 16 | 8190 | 12900 | 9010 | 14700 | 21700 | 4680 | 3540 | 2100 | 3290 | 3530 | 9440 | 6800 |
| 17 | 7910 | 11900 | 13300 | 13700 | 20500 | 4420 | 4000 | 2000 | 2890 | 5460 | 7850 | 7990 |
| 18 | 7700 | 10900 | 16700 | 12700 | 19200 | 4750 | 4350 | 1910 | 2490 | 6800 | 9000 | 8940 |
| 19 | 7510 | 10300 | 16200 | 12200 | 17700 | 4650 | 4540 | 1440 | 2230 | 11200 | 13000 | 10500 |
| 20 | 7520 | 9730 | 16700 | 11800 | 15800 | 4110 | 4060 | 1510 | 2070 | 13700 | 14100 | 13400 |
| 21 | 7570 | 9200 | 16300 | 11400 | 14200 | 4210 | 3460 | 1770 | 1870 | 17400 | 14000 | 18200 |
| 22 | 7360 | 8560 | 15900 | 11300 | 12800 | 4410 | 3010 | 1710 | 1740 | 19500 | 13700 | 19700 |
| 23 | 7370 | 8080 | 15900 | 10600 | 11700 | 4260 | 2840 | 2090 | 1800 | 20400 | 13000 | 19600 |
| 24 | 9320 | 7740 | 15400 | 9960 | 10700 | 4120 | 2620 | 1970 | 2420 | 21100 | 12200 | 19300 |
| 25 | 9850 | 7510 | 15100 | 9450 | 10400 | 4090 | 2400 | 1890 | 3420 | 21000 | 11900 | 19200 |
| 26 | | 7430 | 14700 | 9040 | 10000 | 3940 | 2250 | 1830 | 4030 | 20700 | 11900 | 19800 |
| 27 | | 7320 | 14300 | 8810 | 9630 | 3640 | 2230 | 1770 | 4340 | 20000 | 13000 | 21000 |
| 28 | | 7970 | 15900 | 8700 | 9820 | 3270 | 2100 | 1750 | 3930 | 19100 | 14400 | 22400 |
| 29 | | 7870 | 16100 | 8570 | 10100 | 3100 | 2010 | 2140 | 3160 | 18100 | 14500 | 24400 |
| 30 | | | 14900 | 8440 | 10400 | 3100 | 1910 | 1420 | 2450 | 17300 | 14200 | 27100 |
| 31 | | | 13900 | | 10600 | | 1780 | 1580 | | 16500 | | 29200 |
| MEAN | | | 12836 | 14999 | 16195 | 5592 | 3410 | 2268 | 3382 | 10227 | 14810 | 14969 |
| MAX. | | | 16700 | 23800 | 25000 | 10700 | 5750 | 4060 | 9290 | 21100 | 19300 | 29200 |
| MIN. | | | 6320 | 8440 | 8220 | 3100 | 1780 | 1420 | 1740 | 1900 | 7850 | 6800 |

TOTAL DISCHARGE AND MEAN DISCHARGE NOT DETERMINED.

MAXIMUM DISCHARGE WAS 29,200 CFS ON DEC. 31.
MINIMUM DISCHARGE WAS 1,420 CFS ON AUG. 30.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP CUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35153 | 14422 | 4618 | 7023 | 17530 | 22322 | 4043 | 2027 | 915 | | 899 | 13328 |
| 2 | 36978 | 15448 | 4377 | 7309 | 19626 | 20896 | 3867 | 2024 | 934 | | 895 | 13634 |
| 3 | 38452 | 15475 | 4343 | 7722 | 22408 | 19361 | 3967 | 2139 | 1158 | | 913 | 20501 |
| 4 | 39376 | 14990 | 4312 | 7526 | 24891 | 17980 | 3931 | 2325 | 1205 | | 946 | 24243 |
| 5 | 39651 | 14321 | 5197 | 10661 | 25402 | 16933 | 3933 | 2224 | 1261 | | 991 | 23959 |
| 6 | 39140 | 14479 | 7398 | 15530 | 24950 | 16277 | 3687 | 2049 | 1422 | | 1152 | 23150 |
| 7 | 38120 | 14479 | 7602 | 17786 | 23982 | 15870 | 3453 | 1948 | 1419 | | 1411 | 22517 |
| 8 | 36572 | 13582 | 8045 | 18658 | 24487 | 15438 | 3355 | 1758 | 1277 | | 2186 | 20919 |
| 9 | 34497 | 12444 | 7856 | 18871 | 24400 | 14867 | 3368 | 1361 | 1097 | | 2605 | 19302 |
| 10 | 32050 | 11395 | 7412 | 18120 | 25511 | 14066 | 3281 | 1264 | 1098 | | 2057 | 18025 |
| 11 | 29454 | 10392 | 6900 | 17648 | 26518 | 13106 | 3093 | 1463 | 1071 | | 1296 | 18560 |
| 12 | 26275 | 9311 | 6350 | 16845 | 28399 | 12105 | 2823 | 1584 | 1054 | | 1297 | 19599 |
| 13 | 22470 | 7778 | 5895 | 16397 | 32750 | 11143 | 2605 | 1641 | 1186 | | 1375 | 18498 |
| 14 | 18855 | 7158 | 5275 | 18061 | 34928 | 10099 | 2613 | 1645 | 1253 | | 1411 | 16877 |
| 15 | 16220 | 6805 | 4670 | 19309 | 39838 | 9358 | 2628 | 1615 | 1260 | | 1472 | 15500 |
| 16 | 14706 | 6686 | 4528 | 19280 | 41378 | 9289 | 2634 | 1682 | 1200 | | 1561 | 14464 |
| 17 | 13820 | 6053 | 4218 | 18421 | 40749 | 8942 | 2891 | 1832 | 1091 | | 1714 | 13672 |
| 18 | 13375 | 5677 | 4225 | 17360 | 39668 | 8228 | 3290 | 1847 | 990 | | 1816 | 12926 |
| 19 | 12979 | 5372 | 4352 | 16437 | 40772 | 7545 | 2992 | 1750 | 962 | | 1852 | 11969 |
| 20 | 12615 | 5346 | 4580 | 16002 | 40702 | 6925 | 2871 | 1632 | 961 | | 3347 | |
| 21 | 12353 | 5488 | 5272 | 15590 | 40126 | 6042 | 2694 | 1517 | 955 | | 4027 | |
| 22 | 12231 | 5764 | 5361 | 15226 | 39664 | 5786 | 2439 | 1427 | 963 | | 3172 | |
| 23 | 12345 | 5983 | 4953 | 17093 | 38891 | 5752 | 2401 | 1374 | 962 | | 5932 | |
| 24 | 12667 | 6014 | 4486 | 21010 | 37496 | 5504 | 2422 | 2387 | 965 | | 12077 | |
| 25 | 13137 | 5884 | 4453 | 20598 | 35692 | 4885 | 2403 | 1709 | 952 | | 13733 | |
| 26 | 13316 | 5736 | 4527 | 19171 | 34242 | 4245 | 2337 | 1297 | 966 | | 15777 | |
| 27 | 13326 | 5409 | 4486 | 17431 | 33074 | 4226 | 2315 | 1311 | 1014 | | 15829 | |
| 28 | 13210 | 5051 | 4445 | 15529 | 30801 | 4176 | 2279 | 1438 | | 1050 | 15652 | |
| 29 | 13526 | | 835 | 13812 | 28608 | 4214 | 2164 | 1399 | | 954 | 15140 | |
| 30 | 14162 | | 564 | 13740 | 26621 | 4246 | 2122 | 1203 | | 912 | 14224 | |
| 31 | 13787 | | 574 | | 24447 | | 2092 | 1002 | | 902 | | |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 22413 | 9176 | 4907 | 15805 | 31244 | 10661 | 2935 | 1673 | | | 4891 | |
| MAX. | 39651 | 15475 | 8045 | 21010 | 41378 | 22322 | 4043 | 2387 | | | 15829 | |
| MIN. | 12231 | 5051 | 564 | 7023 | 17530 | 4176 | 2092 | 1002 | | | 895 | |

MAXIMUM DISCHARGE WAS 41,378 ON MAY 16.
MINIMUM DISCHARGE WAS NOT DETERMINED.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2660 | 26900 | 11700 | 6860 | 5720 | 5580 | 5920 | 2390 | 3560 | 2620 | 1260 | 1230 |
| 2 | 2780 | 27200 | 11400 | 7640 | 5330 | 6720 | 6310 | 2400 | 2480 | 2560 | 1200 | 11600 |
| 3 | 4240 | 26300 | 11200 | 10600 | 4970 | 7720 | 5970 | 2220 | 2500 | 2560 | 1130 | 11900 |
| 4 | 6740 | 25700 | 11000 | 10800 | 4550 | 7660 | 5020 | 2060 | 3080 | 2590 | 1210 | 18600 |
| 5 | 7830 | 25000 | 10800 | 10400 | 4220 | 6520 | 4130 | 1980 | 4130 | 2810 | 1230 | 21500 |
| 6 | 7640 | 24100 | 10600 | 9640 | 3910 | 4340 | 3720 | 1690 | 3330 | 2700 | 1120 | 20700 |
| 7 | 6790 | 23300 | 10300 | 8340 | 3960 | 3800 | 3300 | 1790 | 2630 | 2690 | 993 | 19800 |
| 8 | 5740 | 23500 | 9860 | 8640 | 4530 | 3410 | 3040 | 2010 | 2510 | 2690 | 937 | 19800 |
| 9 | 5030 | 27300 | 9130 | 11700 | 4900 | 3230 | 3010 | 2070 | 2480 | 2690 | 897 | 19600 |
| 10 | 4480 | 28500 | 8430 | 10700 | 5490 | 3400 | 3570 | 2800 | 2520 | 2660 | 884 | 19000 |
| 11 | 4340 | 27400 | 7930 | 8960 | 7060 | 3590 | 3410 | 2060 | 2700 | 2690 | 871 | 18900 |
| 12 | 4390 | 26200 | 7320 | 7600 | 6480 | 3580 | 3130 | 1810 | 2860 | 2850 | 825 | 19000 |
| 13 | 4450 | 24600 | 7910 | 6910 | 5630 | 3700 | 2930 | 1840 | 3140 | 2890 | 757 | 18900 |
| 14 | 4540 | 22700 | 6670 | 5400 | 4640 | 3590 | 2770 | 2710 | 3550 | 2870 | 691 | 18500 |
| 15 | 4620 | 20900 | 6970 | 3370 | 4660 | 3390 | 2650 | 3930 | 3460 | 2780 | 601 | 20400 |
| 16 | 4930 | 19100 | 7060 | 8010 | 4480 | 5140 | 2600 | 7360 | 3050 | 2630 | 570 | 22800 |
| 17 | 4990 | 17900 | 7110 | 14500 | 4230 | 7390 | 2670 | 6260 | 2860 | 2560 | 580 | 22800 |
| 18 | 5090 | 17000 | 7250 | 15500 | 3570 | 7330 | 2800 | 4430 | 2990 | 2410 | 586 | 20000 |
| 19 | 5300 | 16500 | 7190 | 14800 | 3610 | 5870 | 2750 | 3300 | 2860 | 2220 | 801 | 18800 |
| 20 | 5050 | 16100 | 6880 | 14100 | 3760 | 4720 | 2650 | 2450 | 2720 | 2020 | 3750 | 18300 |
| 21 | 7750 | 15800 | 6910 | 11900 | 4340 | 3990 | 2810 | 1920 | 2560 | 2160 | 8870 | 17800 |
| 22 | 10700 | 15500 | 7010 | 9800 | 5200 | 3660 | 2840 | 1830 | 2510 | 2180 | 8540 | 16900 |
| 23 | 16300 | 15100 | 6920 | 6250 | 4860 | 3450 | 2660 | 1830 | 2520 | 2100 | 7240 | 16000 |
| 24 | 17300 | 14300 | 6460 | 6780 | 4720 | 3330 | 2330 | 1970 | 2410 | 1990 | 8830 | 14900 |
| 25 | 16100 | 13500 | 6340 | 6790 | 6730 | 3210 | 2100 | 2250 | 2360 | 1890 | 9020 | 15900 |
| 26 | 15600 | 12900 | 6400 | 8000 | 8380 | 3680 | 2030 | 2280 | 2380 | 1740 | 6460 | 21000 |
| 27 | 14200 | 12300 | 6460 | 9130 | 8790 | 4510 | 2010 | 2190 | 2400 | 1670 | 5770 | 25500 |
| 28 | 14900 | 12000 | 6510 | 7240 | 9020 | 4880 | 2000 | 3220 | 2470 | 1720 | 11500 | 30200 |
| 29 | 16000 | | 6620 | 6350 | 8150 | 5690 | 1890 | 4120 | 2490 | 1700 | 13300 | 32100 |
| 30 | 17500 | | 6720 | 6020 | 6690 | 6470 | 1570 | 3780 | 2640 | 1450 | 13100 | 33700 |
| 31 | 23300 | | 6610 | | 5990 | | 1970 | 3100 | | 1320 | | 35400 |
| MEAN | 8751 | 20629 | 8054 | 9085 | 5438 | 4785 | 3115 | 2776 | 2817 | 2336 | 3784 | 20406 |
| MAX | 23300 | 28500 | 11700 | 15500 | 9020 | 7720 | 6310 | 7360 | 4130 | 2890 | 13300 | 35400 |
| MIN | 2660 | 12000 | 6340 | 3370 | 3570 | 3210 | 1570 | 1690 | 2360 | 1320 | 570 | 11600 |

TOTAL DISCHARGE FOR YEAR WAS 2,765,549. MEAN DISCHARGE FOR YEAR WAS 7665.

MAXIMUM DISCHARGE WAS 35,400 CFS ON DEC. 31.
MINIMUM DISCHARGE WAS 570 CFS ON NOV. 16.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2370 | 1960 | 1930 | 3260 | 2620 | 20600 | 4090 | 4700 | 5020 | 851 | 1502 | 2020 |
| 2 | 2830 | 3760 | 2600 | 2830 | 2360 | 20200 | 5610 | 4470 | 7000 | 1260 | 1470 | 2310 |
| 3 | 1940 | 4820 | 2410 | 2590 | 2260 | 19300 | 9810 | 4320 | 6550 | 1700 | 1460 | 2040 |
| 4 | 1930 | 5140 | 3210 | 3420 | 2170 | 17900 | 9820 | 4300 | 5000 | 1590 | 1810 | 1760 |
| 5 | 2480 | 5370 | 6380 | 5290 | 2100 | 16500 | 8810 | 4150 | 3780 | 1310 | 2260 | 1660 |
| 6 | 1930 | 4500 | 7180 | 5280 | 2090 | 23800 | 7370 | 3950 | 3100 | 1120 | 2120 | 1670 |
| 7 | 1440 | 2770 | 6980 | 4680 | 2060 | 27100 | 6970 | 4170 | 2710 | 1160 | 2330 | 1630 |
| 8 | 2440 | 2530 | 5800 | 4530 | 2040 | 27500 | 7480 | 4230 | 2370 | 1270 | 2580 | 1540 |
| 9 | 2130 | 2870 | 4250 | 3650 | 2020 | 26500 | 8370 | 4180 | 2130 | 1350 | 2360 | 1500 |
| 10 | 1430 | 2980 | 2820 | 2570 | 2010 | 24920 | 7560 | 4090 | 2000 | 1400 | 1960 | 1530 |
| 11 | 1370 | 5960 | 2760 | 2230 | 2030 | 24000 | 6880 | 4170 | 1810 | 1640 | 1790 | 1520 |
| 12 | 2490 | 6350 | 2700 | 2060 | 2420 | 23100 | 6900 | 4110 | 1480 | 1780 | 1110 | 1710 |
| 13 | 1670 | 6400 | 2650 | 1950 | 3000 | 21700 | 5860 | 4000 | 1330 | 1720 | 710 | 2150 |
| 14 | 1230 | 5950 | 2490 | 1870 | 3330 | 20100 | 4190 | 3740 | 1380 | 1560 | 749 | 2490 |
| 15 | 1430 | 4580 | 2310 | 1840 | 4820 | 18400 | 5720 | 3660 | 1790 | 1510 | 893 | 2500 |
| 16 | 1870 | 3720 | 2470 | 1830 | 6210 | 17460 | 4650 | 3520 | 2380 | 1430 | 1000 | 1400 |
| 17 | 1830 | 3360 | 2590 | 1840 | 7910 | 16400 | 3790 | 3300 | 2080 | 1580 | 1070 | 858 |
| 18 | 1790 | 3270 | 2600 | 1860 | 8010 | 14860 | 4640 | 4680 | 1630 | 2710 | 1120 | 1010 |
| 19 | 1790 | 3080 | 2480 | 1900 | 8300 | 12900 | 4900 | 5000 | 1400 | 3030 | 1170 | 1140 |
| 20 | 1820 | 2920 | 2400 | 1930 | 6310 | 11000 | 4610 | 4400 | 1380 | 3120 | 1140 | 1290 |
| 21 | 2020 | 2760 | 2320 | 1960 | 5290 | 9250 | 5140 | 3850 | 1390 | 2570 | 1150 | 1310 |
| 22 | 2500 | 2050 | 2420 | 2060 | 5060 | 7720 | 6110 | 3151 | 1320 | 2110 | 1150 | 1390 |
| 23 | 1620 | 2340 | 2370 | 2410 | 3230 | 7200 | 8200 | 2910 | 1230 | 1770 | 1160 | 1570 |
| 24 | 1210 | 2620 | 2160 | 2570 | 2880 | 5060 | 7560 | 2910 | 1200 | 1650 | 1150 | 2050 |
| 25 | 2380 | 1960 | 2080 | 2660 | 3250 | 6190 | 6290 | 2780 | 1230 | 1600 | 1140 | 2290 |
| 26 | 1780 | 2020 | 2080 | 2870 | 5830 | 5190 | 6810 | 2480 | 1340 | 1760 | 1150 | 2210 |
| 27 | 1110 | 2540 | 2070 | 3250 | 9480 | 6490 | 6100 | 2430 | 1350 | 2310 | 1140 | 2250 |
| 28 | 1230 | 2280 | 2060 | 3710 | 7890 | 6070 | 5630 | 2430 | 1230 | 2190 | 1140 | 2390 |
| 29 | 1910 | | 2380 | 3480 | 7220 | 5120 | 5410 | 2460 | 904 | 1970 | 1140 | 2500 |
| 30 | 1830 | | 3780 | 3040 | 9280 | 4360 | 5650 | 2510 | 826 | 1740 | 1340 | 2560 |
| 31 | 1620 | | 3710 | | 16700 | | 5300 | 2710 | | 1580 | | 2590. |
| MEAN | 1852 | 3602 | 3111 | 2847 | 4845 | 15563 | 6330 | 3670 | 2278 | 1753 | 1409 | 1831 |
| MAX. | 2830 | 6400 | 7180 | 5290 | 16700 | 27500 | 9820 | 5000 | 7000 | 3120 | 2580 | 2590 |
| MIN. | 1110 | 1960 | 1930 | 1830 | 2010 | 4360 | 3790 | 2430 | 826 | 851 | 710 | 858 |

THE FOLLOWING REFER ONLY TO READINGS APPEARING IN THE TABLE ABOVE

TOTAL DISCHARGE FOR YEAR WAS 1488697. MEAN DISCHARGE FOR YEAR WAS 4079.

MAXIMUM DISCHARGE WAS 27,525 CFS ON JUN. 8.
MINIMUM DISCHARGE WAS 710 CFS ON NOV. 13.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10000 | 3900 | 6360 | 14900 | 6080 | 4290 | 3140 | 1860 | 868 | 1720 | 1920 | 5190 |
| 2 | 9740 | 3610 | 6460 | 14300 | 5910 | 4300 | 3110 | 1810 | 855 | 1250 | 1700 | 4220 |
| 3 | 9460 | 3560 | 6320 | 14800 | 5920 | 4230 | 3170 | 1740 | 839 | 996 | 1520 | 3650 |
| 4 | 9320 | 3570 | 6010 | 15600 | 5730 | 4160 | 2750 | 1710 | 832 | 850 | 1430 | 3370 |
| 5 | 9210 | 3520 | 5910 | 15400 | 5520 | 4090 | 2660 | 1650 | 849 | 747 | 1320 | 3150 |
| 6 | 8430 | 3530 | 5940 | 15100 | 5340 | 3910 | 2340 | 1580 | 857 | 697 | 1250 | 3020 |
| 7 | 8060 | 3530 | 6250 | 14800 | 5170 | 3690 | 2570 | 1580 | 831 | 619 | 1230 | 2910 |
| 8 | 8050 | 3560 | 6710 | 19400 | 4930 | 3480 | 1660 | 1550 | 798 | 1990 | 1240 | 3150 |
| 9 | 7860 | 3600 | 6850 | 22200 | 4720 | 3260 | 1250 | 1510 | 771 | 980 | 1240 | 9480 |
| 10 | 7630 | 3610 | 6580 | 19900 | 4600 | 3360 | 1350 | 1490 | 737 | 698 | 1240 | 12300 |
| 11 | 9450 | 3580 | 6100 | 17200 | 4480 | 3250 | 1810 | 1490 | 694 | 662 | 1260 | 11400 |
| 12 | 10100 | 3500 | 5520 | 16000 | 4630 | 3010 | 1990 | 1490 | 668 | 638 | 1290 | 10200 |
| 13 | 9800 | 3540 | 5610 | 15600 | 6440 | 2900 | 1990 | 1580 | 645 | 623 | 1310 | 6620 |
| 14 | 10500 | 4000 | 5240 | 18900 | 6360 | 2610 | 1980 | 1580 | 634 | 616 | 2110 | 6800 |
| 15 | 10700 | 4960 | 4660 | 19000 | 5960 | 2830 | 1950 | 1500 | 618 | 607 | 3840 | 4940 |
| 16 | 11100 | 7600 | 5460 | 16800 | 6000 | 2670 | 1900 | 1300 | 599 | 601 | 3640 | 3810 |
| 17 | 11200 | 9070 | 14500 | 15100 | 6180 | 2550 | 1710 | 1180 | 671 | 706 | 7200 | 3440 |
| 18 | 10700 | 9240 | 17800 | 14000 | 5960 | 2560 | 1250 | 1880 | 758 | 3630 | 12200 | 3080 |
| 19 | 10100 | 8990 | 16200 | 12900 | 5860 | 2690 | 1740 | 1860 | 820 | 5370 | 12100 | 2780 |
| 20 | 9430 | 9210 | 16700 | 11900 | 5340 | 2730 | 1600 | 1430 | 796 | 7220 | 10900 | 2660 |
| 21 | 8750 | 10300 | 18100 | 10800 | 4980 | 2680 | 2030 | 1200 | 739 | 6860 | 8180 | 2500 |
| 22 | 8680 | 10200 | 17300 | 9800 | 5940 | 2660 | 9290 | 1140 | 695 | 4800 | 5830 | 2190 |
| 23 | 8730 | 9260 | 16200 | 8730 | 7510 | 2630 | 5173 | 1110 | 909 | 3700 | 4550 | 2030 |
| 24 | 7780 | 8050 | 18300 | 7900 | 6680 | 4190 | 3680 | 1070 | 2000 | 2920 | 4040 | 2010 |
| 25 | 6690 | 7040 | 17500 | 8470 | 5700 | 5620 | 2560 | 1020 | 3780 | 2520 | 3700 | 1990 |
| 26 | 5970 | 6910 | 15600 | 9050 | 5010 | 6440 | 1970 | 941 | 4100 | 2140 | 3480 | 2060 |
| 27 | 5560 | 6660 | 13800 | 8240 | 4640 | 5910 | 1780 | 910 | 3020 | 1950 | 5730 | 2070 |
| 28 | 5220 | 6270 | 13700 | 7420 | 4430 | 4490 | 1760 | 917 | 2470 | 2320 | 7550 | 2930 |
| 29 | 4660 | 6210 | 13900 | 6680 | 4400 | 3900 | 1800 | 908 | 2860 | 2060 | 8120 | 2340 |
| 30 | 4800 | | 15800 | 6310 | 4570 | 3560 | 2100 | 901 | 2330 | 3120 | 7040 | 2030 |
| 31 | 4310 | | 16300 | | 4340 | | 1820 | 893 | | 2280 | | 2180 |
| MEAN | 8451 | 5882 | 10893 | 13573 | 5462 | 3622 | 2448 | 1380 | 1268 | 2125 | 4272 | 4210 |
| MAX. | 11200 | 10300 | 18300 | 22200 | 7510 | 6440 | 9290 | 1880 | 4100 | 7220 | 12200 | 12300 |
| MIN. | 4310 | 3500 | 4660 | 6310 | 4340 | 2550 | 1250 | 893 | 599 | 601 | 1230 | 1990 |

TOTAL DISCHARGE FOR YEAR WAS 1936686. MEAN DISCHARGE FOR YEAR WAS 5291.

MAXIMUM DISCHARGE WAS 22,200 ON APR. 9.
MINIMUM DISCHARGE WAS 599 ON SEP. 16.

DAILY DISCHARGE FOR 1979

ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15700 | 21800 | 37200 | 29100 | 29200 | 14200 | 2540 | 4840 | 3090 | 2770 | 1390 | 8510 |
| 2 | 16300 | 20500 | 38700 | 38300 | 29100 | 13900 | 3610 | 4590 | 3840 | 2720 | 1370 | 8280 |
| 3 | 15200 | 19600 | 39900 | 42600 | 29200 | 15200 | 3820 | 4250 | 3430 | 2670 | 1310 | 8020 |
| 4 | 14600 | 18400 | 43500 | 46500 | 32900 | 13500 | 3750 | 4890 | 2940 | 2460 | 1330 | 7590 |
| 5 | 14400 | 16600 | 46100 | 53800 | 35300 | 11800 | 3710 | 3990 | 2690 | 2280 | 1350 | 7020 |
| 6 | 14200 | 15000 | 46800 | 61400 | 35400 | 11000 | 3740 | 3600 | 2570 | 2130 | 1320 | 6190 |
| 7 | 13900 | 13900 | 46100 | 62700 | 34500 | 10400 | 3850 | 3090 | 2520 | 1900 | 1290 | 5310 |
| 8 | 13300 | 12900 | 44900 | 62100 | 34100 | 10200 | 3860 | 2940 | 2470 | 1770 | 1270 | 4540 |
| 9 | 12800 | 11900 | 43200 | 60300 | 33900 | 10000 | 4000 | 2990 | 2350 | 1770 | 1320 | 3950 |
| 10 | 12400 | 11100 | 42100 | 57000 | 33900 | 10000 | 4220 | 3070 | 2230 | 1780 | 1320 | 3530 |
| 11 | 12000 | 10500 | 40500 | 52600 | 33900 | 10500 | 4180 | 3730 | 2070 | 1790 | 1340 | 3140 |
| 12 | 11600 | 10700 | 38600 | 54500 | 35300 | 10800 | 4140 | 4200 | 1950 | 1800 | 1360 | 3230 |
| 13 | 11300 | 13500 | 36300 | 54600 | 36100 | 10200 | 4390 | 4120 | 1950 | 1790 | 1360 | 5700 |
| 14 | 10900 | 13800 | 34600 | 52800 | 35200 | 9600 | 4580 | 3910 | 1920 | 1660 | 1410 | 8540 |
| 15 | 10500 | 13700 | 32700 | 50600 | 33800 | 8840 | 4600 | 3730 | 1850 | 1100 | 1450 | 9090 |
| 16 | 10100 | 13800 | 30800 | 48000 | 32300 | 8080 | 4480 | 3590 | 1790 | 965 | 1500 | 9380 |
| 17 | 8680 | 13200 | 29000 | 45400 | 30800 | 7510 | 4280 | 3340 | 1750 | 1230 | 1540 | 8670 |
| 18 | 9900 | 12900 | 27200 | 40700 | 29100 | 6970 | 4020 | 3140 | 1710 | 2660 | 1590 | 7760 |
| 19 | 12300 | 12800 | 25500 | 36400 | 26700 | 6180 | 3800 | 3120 | 1770 | 2040 | 1600 | 6910 |
| 20 | 17700 | 12600 | 24400 | 33500 | 23900 | 4890 | 3610 | 3250 | 1920 | 1800 | 1630 | 6320 |
| 21 | 20300 | 13200 | 23400 | 31900 | 22100 | 5800 | 3750 | 3410 | 6140 | 1760 | 1770 | 5420 |
| 22 | 19800 | 14300 | 22200 | 30400 | 22800 | 5090 | 3730 | 3660 | 7970 | 1750 | 5120 | 4580 |
| 23 | 19700 | 20900 | 23600 | 29700 | 25700 | 5260 | 3420 | 4070 | 9590 | 1550 | 8720 | 4440 |
| 24 | 23000 | 27200 | 25800 | 32000 | 27400 | 5570 | 3220 | 4110 | 9660 | 1240 | 9900 | 9660 |
| 25 | 23300 | 31200 | 25300 | 33300 | 26400 | 5050 | 2570 | 4060 | 8310 | 1100 | 10500 | 14000 |
| 26 | 23100 | 33100 | 24300 | 32600 | 24600 | 4170 | 2480 | 3750 | 7180 | 1060 | 12300 | 13400 |
| 27 | 23300 | 34000 | 23900 | 31100 | 22300 | 3730 | 2920 | 3530 | 5300 | 1040 | 12200 | 12400 |
| 28 | 23500 | 35200 | 24300 | 30000 | 20100 | 3480 | 3610 | 3580 | 4560 | 1080 | 11300 | 11600 |
| 29 | 23600 | | 24300 | 29300 | 19100 | 3340 | 5050 | 3270 | 3300 | 1110 | 10000 | 11100 |
| 30 | 23800 | | 24000 | 29200 | 17200 | 2340 | 5100 | 2960 | 2860 | 1140 | 9030 | 11100 |
| 31 | 23300 | | 25600 | | 15600 | | 5020 | 2760 | | 1270 | | 11000 |
| MEAN | 16274 | 17796 | 32735 | 43080 | 28642 | 8253 | 3873 | 3663 | 3723 | 1716 | 3963 | 7754 |
| MAX. | 23800 | 35200 | 46800 | 62700 | 36100 | 15200 | 5100 | 4890 | 9660 | 2770 | 12300 | 14000 |
| MIN. | 8680 | 10500 | 22200 | 29100 | 15600 | 2340 | 2480 | 2760 | 1710 | 965 | 1270 | 3140 |

TOTAL DISCHARGE FOR YEAR WAS 5203205. MEAN DISCHARGE FOR YEAR WAS 14255.

MAXIMUM DISCHARGE WAS 62,678 CFS ON APR. 7.
MINIMUM DISCHARGE WAS 965 CFS ON OCT. 16.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS, PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

MEAN. NOT COMPUTED FOR PERIOD OF RECORD.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5870 | 7310 | 14100 | 17500 | 5740 | 7840 | 2070 | 2680 | | 1590 | 1480 | 10700 |
| 2 | 5650 | 6360 | 15400 | 17300 | 6490 | 7710 | 1770 | 2650 | | 1360 | 1440 | 12200 |
| 3 | 5500 | 5690 | 19800 | 17200 | 4080 | 5970 | 2790 | 2640 | | 1170 | 1400 | 16300 |
| 4 | 5350 | 5240 | 20700 | 17000 | 5680 | 5480 | 2500 | 2740 | | 1160 | 1370 | 22600 |
| 5 | 5230 | 4990 | 20300 | 16700 | 4990 | 5350 | 2260 | 3560 | | 1170 | 1380 | 25300 |
| 6 | 5130 | 4710 | 19000 | 16600 | 4430 | 4960 | 2110 | 3890 | | 1170 | 1390 | 25900 |
| 7 | 5440 | 4310 | 18300 | 16200 | 14500 | 5080 | 1810 | 3430 | | 1170 | 1500 | 27200 |
| 8 | 12800 | 3800 | 21500 | 15900 | 16200 | 5990 | 2410 | 3090 | | 1220 | 1670 | 32000 |
| 9 | 14500 | 3270 | 21100 | 15500 | 21600 | 5140 | 2040 | 2250 | | 1270 | 1740 | 34600 |
| 10 | 13600 | 2620 | 18200 | 15000 | 23900 | 4950 | 3420 | 2580 | | 1280 | 1640 | 36400 |
| 11 | 12500 | 3140 | 16400 | 15000 | 21800 | 4630 | 3070 | 1900 | | 1290 | 1450 | 38300 |
| 12 | 11200 | 6020 | 17500 | 14200 | 20200 | 4260 | 3360 | 2200 | | 1350 | 1300 | 40100 |
| 13 | 9280 | 12100 | 18200 | 13400 | 18000 | 3510 | 6020 | 2680 | | 1340 | 1230 | 41500 |
| 14 | 7770 | 13800 | 21100 | 12600 | 15400 | 3380 | 6190 | 4160 | 19200 | 1320 | 1210 | 41000 |
| 15 | 7140 | 15100 | 22800 | 11700 | 12900 | 3050 | 5980 | 5960 | 18700 | 1340 | 1240 | 39900 |
| 16 | 7010 | 14900 | 22500 | 10700 | 10500 | 2950 | 5590 | | 13700 | 1330 | 1330 | 38700 |
| 17 | 8960 | 14600 | 22100 | 9520 | 8430 | 2610 | 5340 | | 9800 | 1290 | 3070 | 37400 |
| 18 | 9880 | 13300 | 22300 | 9510 | 7380 | 2410 | 4900 | | 7030 | 1270 | 4890 | 35900 |
| 19 | 9030 | 11600 | 22400 | 10200 | 7620 | 2340 | 4650 | | 5320 | 1310 | 5200 | 34200 |
| 20 | 8070 | 10500 | 22500 | 10100 | 6920 | 2860 | 4330 | | 3840 | 1320 | 5230 | 32500 |
| 21 | 6950 | 10200 | 22600 | 9680 | 7460 | 3520 | 4050 | | 3370 | 1330 | 4940 | 30400 |
| 22 | 5860 | 10100 | 22700 | 9530 | 7910 | 3510 | 3880 | | 2230 | 1350 | 5130 | 27700 |
| 23 | 5130 | 9340 | 22800 | 9110 | 6390 | 5150 | 3710 | | 2700 | 1370 | 5870 | 24900 |
| 24 | 6890 | 10200 | 23000 | 8510 | 6180 | 5830 | 3440 | | 2720 | 1370 | 6410 | 21900 |
| 25 | 15800 | 10900 | 22700 | 6690 | 5570 | 4350 | 3040 | | 2050 | 1380 | 7000 | 19100 |
| 26 | 17900 | 12200 | 21800 | 6590 | 5080 | 4160 | 2860 | | 1720 | 1410 | 7610 | 16600 |
| 27 | 15800 | 12900 | 20600 | 6200 | 4760 | 3890 | 2200 | | 1720 | 1400 | 8920 | 14400 |
| 28 | 13900 | 13600 | 19400 | 5570 | 4750 | 3760 | 4030 | | 1900 | 1390 | 9810 | 12600 |
| 29 | 12800 | | 18500 | 3900 | 5110 | 3570 | 2850 | | 1970 | 1410 | 10500 | 11200 |
| 30 | 10200 | | 17900 | 4280 | 5050 | 3310 | 2610 | | 1890 | 1440 | 10400 | 10600 |
| 31 | 8590 | | 17600 | | 6410 | | 2780 | | | 1470 | | 12100 |
| MEAN | 9320 | 9030 | 20200 | 11700 | 9720 | 4380 | 3490 | | | 1320 | 3910 | 26600 |
| MAX. | 17900 | 15100 | 23000 | 17500 | 23900 | 7840 | 6190 | | | 1590 | 10500 | 41500 |
| MIN. | 5130 | 2620 | 14100 | 3900 | 4080 | 2340 | 1770 | | | 1160 | 1210 | 10600 |

MAXIMUM DISCHARGE WAS 41,500 CFS ON DEC. 13.
MINIMUM DISCHARGE WAS 1,160 CFS ON OCT. 4.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1660 | 2350 | 2260 | 8520 | 8860 | 4150 | 3140 | 2150 | 1600 | 11300 | 1850 | 8430 |
| 2 | 1520 | 2100 | 2200 | 9360 | 8500 | 3170 | 3530 | 1830 | 1580 | 18300 | 1860 | 8890 |
| 3 | 1580 | 2010 | 3000 | 10700 | 8320 | 2090 | 3720 | 1490 | 1580 | 9320 | 1920 | 7990 |
| 4 | 2110 | 2140 | 11000 | 13200 | 8140 | 4430 | 3800 | 1410 | 1670 | 8980 | 2110 | 6890 |
| 5 | 2000 | 2220 | 13200 | 15100 | 7880 | 4370 | 3850 | 2060 | 1710 | 8840 | 2200 | 7130 |
| 6 | 1840 | 2370 | 12000 | 16100 | 7630 | 3560 | 3910 | 2060 | 1620 | 8530 | 2200 | 8300 |
| 7 | 1830 | 2490 | 10300 | 17100 | 7520 | 2980 | 4140 | 1300 | 1570 | 7970 | 2170 | 8410 |
| 8 | 1820 | 2420 | 8710 | 17600 | 7480 | 2750 | 4230 | 990 | 1530 | 6800 | 2210 | 8290 |
| 9 | 1840 | 2370 | 7420 | 17800 | 7720 | 2480 | 3890 | 1030 | 1520 | 5570 | 2140 | 7830 |
| 10 | 1810 | 2200 | 6760 | 17400 | 7680 | 2290 | 3900 | 1420 | 1550 | 4570 | 2030 | 7800 |
| 11 | 1810 | 2200 | 6650 | 16800 | 6970 | 2330 | 4150 | 1280 | 1520 | 4120 | 1990 | 8060 |
| 12 | 1900 | 2770 | 10100 | 15800 | 6400 | 2280 | 3990 | 1000 | 1500 | 3740 | 1990 | 8370 |
| 13 | 1930 | 3950 | 13000 | 14700 | 6180 | 2180 | 3340 | 1160 | 1490 | 3650 | 2000 | 8900 |
| 14 | 1890 | 3490 | 12000 | 13300 | 5800 | 2210 | 3730 | 1400 | 1800 | 3450 | 1970 | 11000 |
| 15 | 1740 | 2910 | 11300 | 12200 | 5470 | 3230 | 3720 | 1040 | 1880 | 3160 | 1950 | 11700 |
| 16 | 1880 | 2510 | 10400 | 11200 | 5410 | 2740 | 3500 | 1050 | 2110 | 3070 | 2230 | 12200 |
| 17 | 1940 | 2300 | 9680 | 10500 | 5220 | 2550 | 3320 | 1650 | 2940 | 3060 | 3020 | 11700 |
| 18 | 1950 | 2040 | 9080 | 9920 | 4710 | 3040 | 3140 | 1820 | 3100 | 3040 | 3330 | 11300 |
| 19 | 1950 | 2010 | 8730 | 9560 | 4310 | 3720 | 2950 | 2370 | 3110 | 2750 | 3910 | 11300 |
| 20 | 1920 | 2030 | 8220 | 9130 | 3860 | 3950 | 2740 | 2280 | 2610 | 2630 | 4280 | 11300 |
| 21 | 1860 | 2040 | 7590 | 8740 | 3450 | 3460 | 2760 | 2310 | 2190 | 2520 | 5410 | 11000 |
| 22 | 1840 | 2040 | 6930 | 8620 | 3200 | 3270 | 2090 | 2370 | 2050 | 2280 | 6740 | 10700 |
| 23 | 1890 | 2040 | 6360 | 9360 | 3210 | 3050 | 2180 | 2140 | 1870 | 2480 | 7990 | 10200 |
| 24 | 1720 | 1930 | 5450 | 9720 | 4180 | 2930 | 2220 | 1860 | 2570 | 2520 | 7450 | 9690 |
| 25 | 1820 | 2320 | 5200 | 9430 | 4960 | 3160 | 2340 | 1780 | 5380 | 2080 | 6420 | 9120 |
| 26 | 2550 | 2370 | 5420 | 9670 | 4940 | 2980 | 2130 | 1740 | 5470 | 2200 | 5570 | 8680 |
| 27 | 3490 | 2340 | 5720 | 9610 | 5000 | 3400 | 1810 | 1710 | 6890 | 2320 | 4560 | 8270 |
| 28 | 4280 | 2300 | 7090 | 9430 | 5290 | 3980 | 1720 | 1680 | 8130 | 2280 | 3990 | 7800 |
| 29 | 4050 | | 6880 | 9290 | 5050 | 4080 | 1640 | 1650 | 9750 | 2140 | 4650 | 7190 |
| 30 | 3300 | | 7050 | 9200 | 4550 | 3550 | 2250 | 1830 | 12000 | 2020 | 6530 | 6670 |
| 31 | 2720 | | 7750 | | 4320 | | 2460 | 1820 | | 1900 | | 6270 |
| MEAN | 2140 | 2370 | 7980 | 12000 | 5880 | 3140 | 3110 | 1690 | 3140 | 4500 | 3560 | 9080 |
| MAX. | 4280 | 3950 | 13200 | 17800 | 8860 | 4430 | 4230 | 2370 | 12000 | 11300 | 7990 | 12200 |
| MIN. | 1520 | 1930 | 2200 | 8520 | 3200 | 2090 | 1640 | 990 | 1490 | 1900 | 1850 | 6270 |

TOTAL DISCHARGE FOR YEAR WAS 1786087. MEAN 4893.4

MAXIMUM DISCHARGE WAS 17,800 CFS ON APR. 9.
MINIMUM DISCHARGE WAS 990 CFS ON AUG. 8.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION: LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS; ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES: MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 7910 | | 6650 | 2090 | 1040 | 2820 | 1520 |
| 2 | | | | | | 7780 | | 6520 | 2030 | 1100 | 2430 | 1230 |
| 3 | | | | | | 7410 | | 6220 | 1940 | 1210 | 1980 | 1180 |
| 4 | | | | | | 6910 | | 5720 | 1980 | 1310 | 1710 | 1320 |
| 5 | | | | | | 6910 | | 5130 | 1920 | 1280 | 1600 | 1210 |
| 6 | | | | | | 7010 | | 5400 | 1770 | 1100 | 1560 | 1240 |
| 7 | | | | | | 6770 | | 4780 | 1730 | 1470 | 1660 | 1310 |
| 8 | | | | | | 6480 | | 4340 | 1610 | 1540 | 1930 | 1390 |
| 9 | | | | | | 6100 | | 3960 | 1250 | 1540 | 2200 | 1380 |
| 10 | | | | | | 5820 | | 3600 | 1290 | 1520 | 1770 | 1310 |
| 11 | | | | | | 5320 | | 3260 | 1550 | 1510 | 1180 | 1500 |
| 12 | | | | | | 4610 | | 3050 | 1520 | 1480 | 1330 | 2060 |
| 13 | | | | | | 4020 | | 2850 | 1490 | 1460 | 1540 | 2490 |
| 14 | | | | | | 3700 | 18500 | 2690 | 1470 | 1420 | 1630 | 2490 |
| 15 | | | | | | 3750 | 16800 | 2560 | 1450 | 1360 | 1490 | |
| 16 | | | | | | 4340 | 14700 | 2610 | 1430 | 1280 | 1160 | |
| 17 | | | | | | 3700 | 12500 | 2640 | 1410 | 1270 | 880 | |
| 18 | | | | | 3180 | 8630 | 11100 | 2520 | 1410 | 1270 | 1010 | |
| 19 | | | | | 3070 | 13400 | 9960 | 3000 | 1410 | 1250 | 1320 | |
| 20 | | | | | 2680 | 14000 | 8990 | 2370 | 1390 | 1290 | 1120 | |
| 21 | | | | | 2870 | 14400 | 8250 | 2100 | 1360 | 1230 | 1250 | |
| 22 | | | | | 3080 | 14700 | 7700 | 2500 | 1280 | 1180 | 1250 | |
| 23 | | | | | 3000 | 16200 | 7410 | 2530 | 1110 | 1140 | 1240 | 1240 |
| 24 | | | | | 2770 | 19200 | 6790 | 2510 | 1020 | 1350 | 1730 | 1270 |
| 25 | | | | | 2720 | 19200 | 6610 | 2460 | 950 | 3910 | 1640 | 1370 |
| 26 | | | | | 2710 | | 6590 | 2390 | 1010 | 6690 | 1290 | 1590 |
| 27 | | | | | 4370 | | 5980 | 2240 | 1330 | 6100 | 1450 | 1480 |
| 28 | | | | | 6740 | | 6010 | 2180 | 1440 | 5030 | 1210 | 1470 |
| 29 | | | | | 6860 | | 6770 | 2180 | 1280 | 3520 | 1480 | 1490 |
| 30 | | | | | 7590 | | 6690 | 2140 | 1080 | 2810 | 2010 | 1670 |
| 31 | | | | | 7620 | | 6460 | 2100 | | 2840 | | 1860 |
| MEAN | | | | | | | | 3390 | 1470 | 2020 | 1560 | |
| MAX. | | | | | | | | 6650 | 2090 | 6690 | 2820 | |
| MIN. | | | | | | | | 2100 | 950 | 1840 | 880 | |

MAXIMUM DISCHARGE RECORD INCOMPLETE
MINIMUM DISCHARGE RECORD INCOMPLETE

ST FRANCUS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS; ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES: MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 7330 | 9430 | 16600 | 39300 | 10200 | 9830 | 4500 | | 3590 | 4800 | 2100 | |
| 2 | 7680 | 12500 | 18300 | 39900 | 10200 | 9330 | 4400 | | 3580 | 4470 | 2050 | |
| 3 | 10800 | 13600 | 19400 | 40600 | 11800 | 8940 | 4300 | | 3560 | 4180 | 2060 | |
| 4 | 10800 | 14200 | 19100 | 40700 | 12000 | 8270 | 4190 | | 3460 | 3930 | 2170 | |
| 5 | 10300 | 14900 | 18600 | 40100 | 11700 | 7730 | 4860 | | 3350 | 3720 | 2300 | |
| 6 | 9810 | 15500 | 17900 | 39700 | 12200 | 7500 | 3890 | | 3270 | 3510 | 2460 | |
| 7 | 8380 | 15600 | 17200 | 39400 | 13200 | 7170 | 3750 | | 3350 | 3370 | 2780 | |
| 8 | 8200 | 14500 | 16400 | 41000 | 13200 | 6870 | 3610 | | 3370 | 3590 | 3420 | |
| 9 | 9180 | 13200 | 15700 | 42200 | 14400 | 6620 | 3510 | | 3480 | 3680 | 3630 | |
| 10 | 11800 | 11900 | 15400 | 43000 | 15900 | 6150 | 3620 | | 3630 | 3350 | 3370 | |
| 11 | 14200 | 11200 | 16800 | 43200 | 17600 | 6530 | 4050 | 6990 | 3910 | 3130 | 3120 | |
| 12 | 12400 | 10700 | 20600 | 40700 | 19300 | 7140 | 4860 | 6590 | 5090 | 3050 | 3020 | |
| 13 | 10800 | 10300 | 25500 | 38300 | 20400 | 5970 | 5790 | 6150 | 5520 | 2970 | 2890 | |
| 14 | 9960 | 10200 | 27500 | 35800 | 20100 | 5880 | 6110 | 5780 | 5540 | 2810 | 2780 | |
| 15 | 9590 | 9980 | 28400 | 33600 | 19100 | 6100 | | 5320 | 5650 | | 2750 | |
| 16 | 9580 | 9790 | 28700 | 31100 | 17800 | 6700 | | 4790 | 5770 | | 2690 | |
| 17 | 9650 | 9680 | 29000 | 29100 | 16200 | 6590 | | 4390 | 5750 | | 2560 | |
| 18 | 9660 | 9470 | 30200 | 26600 | 14600 | 6080 | | 4190 | 5780 | | 2420 | |
| 19 | 9720 | 9080 | 31900 | 24000 | 13100 | 5710 | | 5000 | 5940 | | 2330 | |
| 20 | 9810 | 8580 | 31800 | 21500 | 11500 | 5490 | | 6330 | 6870 | | 2450 | |
| 21 | 9600 | 8060 | 31200 | 18900 | 10100 | 5320 | | 6400 | 6590 | | 2360 | |
| 22 | 9100 | 7640 | 30300 | 16500 | 9440 | 5240 | | 6400 | 6790 | 2290 | 2290 | |
| 23 | 8530 | 11400 | 29400 | 14500 | 8960 | 5200 | | 6110 | 6690 | 2200 | 2270 | |
| 24 | 8440 | 15600 | 28800 | 12500 | 8720 | 5100 | | 5760 | 6440 | 2170 | 2150 | |
| 25 | 8400 | 15300 | 28400 | 11700 | 8660 | 4940 | | 5400 | 5760 | 2230 | 2120 | |
| 26 | 8160 | 15200 | 27900 | 10800 | 8650 | 4740 | | 5040 | 5570 | 2250 | 2200 | |
| 27 | 7960 | 15600 | 27700 | 9630 | 8810 | 4580 | | 4650 | 5810 | 2240 | 2470 | |
| 28 | 7770 | 16000 | 31300 | 8920 | 9440 | 4580 | | 4260 | 5440 | 2200 | 2650 | |
| 29 | 7870 | | 35300 | 8550 | 11400 | 5040 | | 3850 | 5360 | 2170 | 2620 | |
| 30 | 7500 | | 36900 | 9040 | 11100 | 4690 | | 3570 | 5050 | 2160 | 3720 | |
| 31 | 7800 | | 38400 | | 10400 | | | 3630 | | 2150 | | |
| MEAN | 9340 | 12100 | 25500 | 28400 | 12900 | 6330 | | | 4990 | | 2610 | |
| MAX. | 14200 | 16000 | 38400 | 43200 | 20400 | 9830 | | | 6790 | | 3720 | |
| MIN. | 7330 | 7640 | 15400 | 8550 | 8650 | 4580 | | | 3270 | | 2050 | |

MAXIMUM DISCHARGE WAS 43,200 CFS ON APR. 11.
MINIMUM DISCHARGE WAS 2,050 CFS ON NOV. 2.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15000 | 19300 | 12600 | 10300 | 21500 | 19000 | 5960 | 3580 | 6140 | 3490 | 1880 | 6100 |
| 2 | 14200 | 18700 | 12400 | 9990 | 19400 | 19700 | 5920 | 3240 | 6410 | 3230 | 1900 | 5750 |
| 3 | 14300 | 18100 | 12000 | 9560 | 17100 | 18800 | 5900 | 3030 | 6780 | 3060 | 1940 | 5520 |
| 4 | 14400 | 17800 | 11600 | 8870 | 15600 | 18200 | 5980 | 3020 | 6990 | 2990 | 2370 | 4890 |
| 5 | 14500 | 17400 | 11300 | 8160 | 15500 | 18100 | 6500 | 3490 | 7050 | 2970 | 2590 | 4500 |
| 6 | 14500 | 17000 | 11000 | 7540 | 15000 | 18800 | 6350 | 3670 | 6650 | 2960 | 2620 | 4300 |
| 7 | 14600 | 16600 | 10900 | 7140 | 14200 | 28800 | 6240 | 3490 | 5880 | 2960 | 2560 | 4220 |
| 8 | 14700 | 16200 | 10800 | 7370 | 13400 | 29600 | 6040 | 3280 | 5280 | 2970 | 2510 | 4170 |
| 9 | 16100 | 15800 | 10800 | 7170 | 13200 | 27000 | 5910 | 3140 | 4990 | 2870 | 2570 | 4130 |
| 10 | 18900 | 15400 | 10900 | 7020 | 12600 | 24500 | 5870 | 3050 | 4890 | 2770 | 2630 | 3970 |
| 11 | 22100 | 14900 | 12200 | 7050 | 11800 | 23000 | 5800 | 2910 | 4430 | 2690 | 3940 | 3870 |
| 12 | 22800 | 14400 | 13700 | 10300 | 11700 | 22200 | 5990 | 3020 | 3960 | 2620 | 6270 | 3780 |
| 13 | 22800 | 14100 | 13100 | 10500 | 12100 | 22000 | 5950 | 3320 | 3790 | 2560 | 5630 | 3760 |
| 14 | 22700 | 14400 | 12800 | 9250 | 12400 | 21100 | 5690 | 3460 | 3650 | 2480 | 4680 | 3660 |
| 15 | 22400 | 14300 | 12800 | 8580 | 15200 | 20000 | 5410 | 4800 | 3560 | 2410 | 4100 | 3620 |
| 16 | 22100 | 13800 | 13100 | 8460 | 15000 | 19400 | 5190 | 6510 | 3540 | 2360 | 3780 | 3570 |
| 17 | 21500 | 13000 | 13400 | 8850 | 13500 | 17300 | 4860 | 7350 | 4340 | 2340 | 3720 | 3510 |
| 18 | 20500 | 12100 | 13600 | 9140 | 12300 | 15700 | 4530 | 7320 | 3610 | 2220 | 3550 | 3340 |
| 19 | 19400 | 13300 | 13200 | 9420 | 11600 | 14400 | 4190 | 7020 | 3680 | 2000 | 3500 | 3160 |
| 20 | 18500 | 12300 | 12800 | 9680 | 11500 | 13100 | 3900 | 7700 | 3760 | 1840 | 4070 | 3050 |
| 21 | 18100 | 11800 | 12800 | 11100 | 11600 | 11900 | 3700 | 7920 | 3870 | 1700 | 4840 | 2960 |
| 22 | 17900 | 14800 | 12700 | 25700 | 12500 | 10600 | 3540 | 7320 | 4000 | 1550 | 4740 | 2860 |
| 23 | 17800 | 14700 | 12700 | 29400 | 14300 | 9460 | 3460 | 6260 | 4010 | 1570 | 4470 | 2800 |
| 24 | 17800 | 13300 | 12600 | 30400 | 14100 | 8290 | 4550 | 5550 | 3990 | 1590 | 6410 | 2820 |
| 25 | 17900 | 12600 | 12500 | 29900 | 13600 | 7440 | 6010 | 4970 | 3850 | 1610 | 11600 | 3090 |
| 26 | 18600 | 12400 | 12200 | 28800 | 13200 | 6890 | 6550 | 4410 | 3680 | 1640 | 10800 | 3440 |
| 27 | 18400 | 12600 | 12000 | 28500 | 13400 | 6520 | 6210 | 3970 | 3540 | 1660 | 10200 | 3740 |
| 28 | 19500 | 12700 | 11800 | 28000 | 13400 | 6230 | 5490 | 3700 | 3410 | 1690 | 8950 | 4010 |
| 29 | 20700 | | 11600 | 26600 | 12700 | 6050 | 4970 | 3740 | 3620 | 1800 | 7460 | 5240 |
| 30 | 20900 | | 11200 | 24200 | 12300 | 6020 | 4530 | 4580 | 3720 | 1820 | 6510 | 6540 |
| 31 | 20200 | | 10800 | | 13300 | | 4060 | 5570 | | 1840 | | 6920 |
| MEAN | 18500 | 14800 | 12200 | 14600 | 13800 | 16300 | 5330 | 4660 | 4570 | 2330 | 4760 | 4110 |
| MAX. | 22800 | 19300 | 13700 | 30400 | 21500 | 29600 | 6550 | 7920 | 7050 | 3490 | 11600 | 6920 |
| MIN. | 14200 | 11800 | 10800 | 7020 | 11500 | 6020 | 3460 | 2910 | 3410 | 1550 | 1880 | 2800 |

TOTAL DISCHARGE FOR YEAR WAS 3510622. MEAN DISCHARGE FOR YEAR WAS 9618.1

MAXIMUM DISCHARGE WAS 30,421 CFS ON APR. 24.
MINIMUM DISCHARGE WAS 1,549 CFS ON OCT. 22.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16100 | 28300 | 9480 | 29400 | 57000 | 25300 | 10000 | 4410 | 2820 | 2600 | 2120 | 28400 |
| 2 | 15300 | 27500 | 9380 | 29000 | 59000 | 24700 | 9650 | 4460 | 2740 | 2480 | 2080 | 29500 |
| 3 | 14900 | 26100 | 9410 | 27300 | 61400 | 23900 | 9330 | 4680 | 2750 | 2300 | 2000 | 29500 |
| 4 | 15600 | 24500 | 9140 | 26200 | 59700 | 23100 | 9190 | 4740 | 2750 | 2210 | 2100 | 29800 |
| 5 | 15700 | 22800 | 8860 | 25600 | 61800 | 22200 | 9270 | 4830 | 2650 | 2300 | 2890 | 30400 |
| 6 | 15700 | 21600 | 8610 | 25200 | 60100 | 21400 | 9200 | 4940 | 3720 | 2420 | 3220 | 30200 |
| 7 | 15500 | 22300 | 11200 | 24800 | 58700 | 20700 | 8800 | 4850 | 9340 | 2680 | 2920 | 29600 |
| 8 | 15400 | 27700 | 10600 | 24300 | 59600 | 20200 | 8650 | 4770 | 12500 | 3100 | 2550 | 28400 |
| 9 | 15500 | 29700 | 9330 | 23700 | 57800 | 19800 | 8280 | 4620 | 12500 | 2980 | 2340 | 27400 |
| 10 | 15400 | 28900 | 10200 | 23800 | 57500 | 19800 | 8190 | 4480 | 11400 | 2580 | 2220 | 26400 |
| 11 | 15200 | 28000 | 19600 | 23000 | 53800 | 19700 | 8110 | 4210 | 9510 | 2290 | 2120 | 25200 |
| 12 | 14700 | 27200 | 21600 | 22300 | 51500 | 19500 | 8440 | 3950 | 7500 | 2150 | 2090 | 23600 |
| 13 | 14400 | 27000 | 21400 | 21500 | 49100 | 20200 | 8800 | 3830 | 6290 | 2100 | 2080 | 21700 |
| 14 | 14000 | 26800 | 21400 | 20700 | 47100 | 19800 | 8560 | 4520 | 5500 | 2290 | 2000 | 19500 |
| 15 | 13800 | 25500 | 23300 | 20100 | 43600 | 20000 | 8150 | 5320 | 4700 | 2460 | 2060 | 17300 |
| 16 | 14000 | 23400 | 25100 | 20700 | 39900 | 19500 | 7940 | 5350 | 3970 | 2350 | 2120 | 15000 |
| 17 | 13900 | 20900 | 26900 | 21000 | 37800 | 18900 | 7710 | 4980 | 3520 | 2160 | 2190 | 12900 |
| 18 | 13600 | 18700 | 28000 | 22600 | 35600 | 18300 | 7500 | 4800 | 3220 | 2060 | 2420 | 11100 |
| 19 | 14200 | 16700 | 28900 | 27100 | 33400 | 17900 | 7310 | 4730 | 2840 | 2030 | 2690 | 10200 |
| 20 | 14700 | 15800 | 29500 | 34200 | 31700 | 17300 | 7140 | 4680 | 2830 | 2000 | 2950 | 10600 |
| 21 | 20100 | 14700 | 29200 | 36000 | 29600 | 16400 | 7340 | 4620 | 2720 | 1990 | 5290 | 10800 |
| 22 | 25100 | 13900 | 28900 | 37800 | 27600 | 15200 | 7170 | 4440 | 2550 | 1980 | 5900 | 10800 |
| 23 | 25400 | 20600 | 28400 | 38900 | 25800 | 14200 | 6710 | 4170 | 2520 | 1970 | 5800 | 11100 |
| 24 | 24600 | 12400 | 27900 | 49500 | 24500 | 13400 | 6200 | 3890 | 2480 | 1980 | 12200 | 11700 |
| 25 | 24100 | 11700 | 28300 | 56300 | 22800 | 12700 | 5760 | 3580 | 2460 | 1960 | 15400 | 14400 |
| 26 | 24800 | 11100 | 26000 | 58600 | 21400 | 12100 | 5500 | 3350 | 2410 | 2020 | 18200 | 16600 |
| 27 | 26300 | 10600 | 27100 | 61900 | 21900 | 11500 | 5310 | 3220 | 2340 | 2100 | 21400 | 17700 |
| 28 | 28500 | 9860 | 26700 | 62600 | 23300 | 11100 | 5150 | 3100 | 2310 | 2090 | 24200 | 17900 |
| 29 | 30200 | | 26300 | 59900 | 24300 | 10600 | 4920 | 3000 | 2470 | 2070 | 25300 | 17500 |
| 30 | 29900 | | 25900 | 60000 | 25500 | 10400 | 4700 | 2900 | 2510 | 2110 | 26600 | 16400 |
| 31 | 28900 | | 26200 | | 25700 | | 4550 | 3300 | | 2160 | | 16200 |
| MEAN | 18900 | 21200 | 20900 | 33800 | 41600 | 18000 | 7530 | 4280 | 4590 | 2260 | 6920 | 19900 |
| MAX. | 30200 | 29700 | 29500 | 62600 | 61800 | 25300 | 10000 | 5350 | 12500 | 3100 | 26600 | 30400 |
| MIN. | 13600 | 9860 | 8610 | 20100 | 21400 | 10400 | 4550 | 2900 | 2310 | 1960 | 2000 | 10200 |

TOTAL DISCHARGE FOR YEAR 6068160.0 MEAN DISCHARGE FOR YEAR WAS 16625.1

MAXIMUM DISCHARGE WAS 62,613 ON APR. 28.
MINIMUM DISCHARGE WAS 1,960 ON OCT. 25.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5260 | 3560 | 4610 | 7280 | 18700 | 5360 | 3650 | 4080 | 2100 | 7590 | 11200 | 12400 |
| 2 | 5310 | 3700 | 6810 | 6690 | 20400 | 5030 | 4420 | 4640 | 2080 | 6170 | 13900 | 11700 |
| 3 | 5150 | 3780 | 7420 | 6410 | 19200 | 4680 | 5540 | 5110 | 2120 | 4460 | 14300 | 11200 |
| 4 | 5460 | 3760 | 7040 | 7440 | 17900 | 4450 | 4760 | 5410 | 2080 | 3510 | 13600 | 10900 |
| 5 | 6100 | 3670 | 7200 | 7640 | 17200 | 4200 | 4280 | 5410 | 2060 | 3180 | 12800 | 10900 |
| 6 | 6010 | 4030 | 7730 | 7250 | 16800 | 3950 | 4080 | 5160 | 2040 | 3070 | 13500 | 11400 |
| 7 | 5530 | 5540 | 8210 | 6310 | 16600 | 3730 | 3700 | 5170 | 1990 | 3040 | 20400 | 11600 |
| 8 | 5050 | 6350 | 8700 | 5490 | 16280 | 3530 | 3800 | 4690 | 1970 | 3040 | 26100 | 15900 |
| 9 | 4860 | 6180 | 8960 | 5120 | 16000 | 3360 | 4000 | 4230 | 1930 | 3030 | 26300 | 24800 |
| 10 | 4990 | 5490 | 9160 | 4910 | 15600 | 3210 | 4030 | 3950 | 1910 | 3040 | 26000 | 26100 |
| 11 | 5110 | 5110 | 9160 | 4620 | 15000 | 3060 | 3860 | 3770 | 1870 | 2950 | 25000 | 26100 |
| 12 | 4830 | 4980 | 8920 | 4380 | 14300 | 2960 | 3630 | 3640 | 1760 | 2820 | 24400 | 25800 |
| 13 | 4430 | 4950 | 8680 | 4200 | 13700 | 2920 | 3380 | 3520 | 1740 | 2710 | 24400 | 27300 |
| 14 | 4090 | 4810 | 8140 | 4150 | 12900 | 3780 | 3160 | 3550 | 1640 | 2580 | 25500 | 28200 |
| 15 | 3920 | 4700 | 7760 | 4080 | 11900 | 4380 | 2960 | 3220 | 1590 | 2580 | 24900 | 30000 |
| 16 | 3810 | 4500 | 7370 | 5940 | 11100 | 4230 | 2810 | 3030 | 1610 | 2490 | 24100 | 31100 |
| 17 | 3510 | 4360 | 6860 | 7360 | 10400 | 4030 | 2770 | 2890 | 1590 | 2270 | 23000 | 31100 |
| 18 | 3470 | 4240 | 6460 | 8000 | 9850 | 4080 | 3570 | 2770 | 1600 | 2120 | 22000 | 30500 |
| 19 | 3400 | 4120 | 6030 | 8280 | 9800 | 4200 | 3910 | 2580 | 1620 | 1810 | 21900 | 31200 |
| 20 | 3340 | 3900 | 5660 | 8130 | 8800 | 4280 | 3780 | 2470 | 1610 | 1860 | 21700 | 31700 |
| 21 | 3480 | 3790 | 5460 | 8680 | 8340 | 4370 | 3850 | 2420 | 1590 | 2190 | 21100 | 31000 |
| 22 | 4060 | 3780 | 5220 | 10100 | 8010 | 3520 | 4020 | 2260 | 1690 | 2410 | 20000 | 30200 |
| 23 | 4430 | 3620 | 5000 | 10700 | 7560 | 2560 | 4170 | 2240 | 1820 | 2900 | 16600 | 28800 |
| 24 | 4130 | 3520 | 4830 | 11800 | 7200 | 3110 | 4230 | 2240 | 1780 | 3320 | 17400 | 26900 |
| 25 | 3700 | 3530 | 4870 | 11400 | 6760 | 3610 | 4130 | 2270 | 1810 | 3370 | 17100 | 24900 |
| 26 | 3440 | 3560 | 4740 | 12100 | 6300 | 3800 | 3970 | 2260 | 1910 | 3580 | 17100 | 23100 |
| 27 | 3290 | 3390 | 4930 | 13100 | 5880 | 3900 | 3720 | 2240 | 2340 | 4500 | 16300 | 21600 |
| 28 | 3430 | 3440 | 5080 | 14000 | 5560 | 3700 | 3440 | 2200 | 2310 | 5920 | 15200 | 20400 |
| 29 | 3410 | 3650 | 7730 | 15800 | 5400 | 3280 | 3370 | 2180 | 3160 | 5300 | 13900 | 19400 |
| 30 | 3400 |  | 8090 | 16500 | 5290 | 3340 | 3600 | 2150 | 7510 | 5050 | 13200 | 18700 |
| 31 | 3440 |  | 7850 |  | 5310 |  | 3820 | 2120 |  | 7890 |  | 18500 |
| MEAN | 4320 | 4280 | 6930 | 8260 | 11700 | 3820 | 3820 | 3350 | 2090 | 3570 | 19500 | 22700 |
| MAX. | 6100 | 6350 | 9160 | 16500 | 20400 | 5360 | 5540 | 5410 | 7510 | 7890 | 26300 | 31700 |
| MIN. | 3290 | 3390 | 4610 | 4060 | 5290 | 2560 | 2770 | 2120 | 1590 | 1810 | 11200 | 10900 |

TOTAL DISCHARGE FOR YEAR 2882883, MEAN DISCHARGE FOR YEAR WAS 7876.7

MAXIMUM DISCHARGE WAS 31,700 CFS ON DEC. 20.
MINIMUM DISCHARGE WAS 1,590 CFS ON SEP. 17.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 831) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 13100 | 8230 | 22000 | 5970 | 3740 | 3380 | 3460 | 4490 | 3450 | 1620 | 710 | 1040 |
| 2 | 12100 | 7720 | 22600 | 5820 | 3710 | 3300 | 3540 | 4190 | 3150 | 1620 | 655 | 1060 |
| 3 | 11200 | 7270 | 23400 | 5670 | 3620 | 3190 | 3280 | 4990 | 2860 | 1540 | 648 | 1370 |
| 4 | 12600 | 7020 | 23600 | 5510 | 3520 | 3130 | 3050 | 8030 | 2590 | 1540 | 644 | 1530 |
| 5 | 12600 | 7520 | 23000 | 5320 | 3510 | 3160 | 2910 | 10400 | 2410 | 1510 | 648 | 1510 |
| 6 | 11600 | 7730 | 22000 | 5270 | 3620 | 3410 | 3100 | 11300 | 2300 | 1480 | 701 | 1460 |
| 7 | 10700 | 7570 | 21000 | 5050 | 4410 | 3630 | 3540 | 10700 | 2400 | 1410 | 645 | 1430 |
| 8 | 10000 | 6920 | 19800 | 4930 | 4170 | 4250 | 4280 | 9120 | 2780 | 1400 | 642 | 1530 |
| 9 | 9710 | 6420 | 18800 | 4720 | 3880 | 4500 | 4090 | 8370 | 3030 | 1380 | 680 | 5660 |
| 10 | 9650 | 5960 | 18000 | 4600 | 3770 | 4800 | 3520 | 8230 | 3220 | 1360 | 644 | 7780 |
| 11 | 9590 | 5800 | 17300 | 4390 | 3920 | 4740 | 3090 | 8090 | 3230 | 1340 | 677 | 6060 |
| 12 | 9270 | 9820 | 16400 | 4270 | 5480 | 4550 | 2860 | 8760 | 3210 | 1270 | 720 | 4830 |
| 13 | 9070 | 13800 | 15900 | 4090 | 7030 | 4740 | 2670 | 6720 | 3160 | 1270 | 766 | 3920 |
| 14 | 8920 | 14100 | 15200 | 3980 | 7270 | 5760 | 2500 | 5330 | 2840 | 1260 | 757 | 3410 |
| 15 | 8750 | 13300 | 14100 | 3890 | 6600 | 6360 | 2360 | 4500 | 2630 | 1200 | 750 | 4890 |
| 16 | 8680 | 12600 | 13000 | 3800 | 5560 | 6910 | 2320 | 3950 | 2470 | 1220 | 714 | 4480 |
| 17 | 8780 | 11100 | 11700 | 3780 | 4740 | 6580 | 2400 | 3620 | 2290 | 1220 | 760 | 3760 |
| 18 | 9060 | 10600 | 10800 | 3690 | 4350 | 6430 | 2380 | 3400 | 2160 | 1200 | 908 | 3100 |
| 19 | 9470 | 10700 | 9780 | 3650 | 4150 | 6220 | 2330 | 3220 | 2130 | 1200 | 1140 | 2610 |
| 20 | 9880 | 11000 | 8890 | 3750 | 3970 | 5760 | 2310 | 3040 | 2050 | 1190 | 950 | 2640 |
| 21 | 10400 | 13200 | 8330 | 3820 | 3820 | 5310 | 2300 | 2890 | 1970 | 1180 | 859 | 2230 |
| 22 | 10700 | 15700 | 7800 | 4170 | 3700 | 5270 | 2290 | 2790 | 1960 | 1140 | 842 | 2140 |
| 23 | 10800 | 18100 | 7330 | 6870 | 3530 | 5180 | 2330 | 2790 | 1910 | 1140 | 938 | 2160 |
| 24 | 11400 | 19800 | 6970 | 5300 | 3490 | 4850 | 2460 | 2850 | 1840 | 1140 | 944 | 2090 |
| 25 | 11600 | 19300 | 6900 | 4880 | 3460 | 4600 | 2450 | 2940 | 1870 | 1140 | 996 | 2110 |
| 26 | 11400 | 19400 | 6830 | 4490 | 3440 | 4360 | 2500 | 3140 | 1860 | 1180 | 1000 | 2330 |
| 27 | 10900 | 19900 | 6940 | 4290 | 3520 | 4320 | 2560 | 3320 | 1800 | 1140 | 1010 | 2630 |
| 28 | 10400 | 21000 | 6960 | 4110 | 3530 | 4050 | 2730 | 3540 | 1800 | 1110 | 1030 | 3080 |
| 29 | 9900 | | 6680 | 3980 | 3560 | 3740 | 2950 | 3690 | 1800 | 962 | 1040 | 3550 |
| 30 | 9420 | | 6430 | 3860 | 3560 | 3520 | 4120 | 3800 | 1720 | 869 | 1040 | 4350 |
| 31 | 8850 | | 6140 | | 3540 | | 4580 | 3670 | | 849 | | 4960 |
| MEAN | 10300 | 11800 | 13700 | 4600 | 4200 | 4670 | 2940 | 5350 | 2430 | 1260 | 815 | 3090 |
| MAX. | 13100 | 21000 | 23600 | 6870 | 7270 | 6910 | 4580 | 11300 | 3450 | 1620 | 1140 | 7780 |
| MIN. | 8680 | 5800 | 6140 | 3650 | 3440 | 3130 | 2290 | 2790 | 1720 | 849 | 642 | 1040 |

MEAN DISCHARGE FOR YEAR WAS 5,430.0

MAXIMUM DISCHARGE WAS 23,600 CFS ON MAR. 4.
MINIMUM DISCHARGE WAS 642 CFS NOV. 8.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG %MILE 831 NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM %MILE 1551, FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. %MILE 1001 NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 %SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19700 | 3780 | 5610 | 11100 | 28400 | 8560 | 11300 | 2860 | 2520 | 4140 | 8100 | 4730 |
| 2 | 18900 | 4800 | 5940 | 11800 | 31400 | 8030 | 10200 | 2760 | 2660 | 3970 | 7420 | 4620 |
| 3 | 18700 | 5610 | 10500 | 11800 | 31300 | 7710 | 9840 | 2670 | 3010 | 3860 | 6930 | 4650 |
| 4 | 18300 | 5430 | 15800 | 11200 | 30200 | 8420 | 9020 | 2760 | 3400 | 3700 | 6510 | 4640 |
| 5 | 17300 | 4880 | 16500 | 11100 | 29800 | 9230 | 8190 | 2830 | 3870 | 3560 | 6090 | 4610 |
| 6 | 15800 | 5410 | 15000 | 11600 | 28600 | 9750 | 7390 | 2980 | 3620 | 3380 | 5670 | 4580 |
| 7 | 14000 | 4550 | 13700 | 12300 | 28200 | 9570 | 6680 | 3210 | 3400 | 3350 | 5360 | 4510 |
| 8 | 12900 | 4990 | 12500 | 13000 | 27500 | 9000 | 6230 | 3610 | 3330 | 3400 | 5090 | 4390 |
| 9 | 12000 | 5380 | 12000 | 12800 | 26800 | 8340 | 5840 | 5070 | 3400 | 3870 | 5170 | 4190 |
| 10 | 11000 | 5480 | 11900 | 12500 | 26300 | 7750 | 5560 | 6120 | 3150 | 4670 | 5780 | 4040 |
| 11 | 10200 | 5420 | 11900 | 11900 | 25200 | 7170 | 5330 | 6410 | 2970 | 4360 | 5470 | 3930 |
| 12 | 9240 | 5370 | 11800 | 11000 | 23600 | 6700 | 5150 | 5720 | 2740 | 4790 | 5410 | 3980 |
| 13 | 7970 | 5350 | 11800 | 10200 | 21500 | 6280 | 4830 | 5010 | 2560 | 6220 | 5270 | 4450 |
| 14 | 7060 | 5340 | 11700 | 9150 | 19900 | 5970 | 4550 | 4480 | 2330 | 8640 | 5890 | 4420 |
| 15 | 6600 | 6950 | 11500 | 8920 | 18900 | 6430 | 4390 | 4080 | 2100 | 9910 | 7580 | 4370 |
| 16 | 6430 | 9650 | 11300 | 8650 | 18300 | 7550 | 4570 | 3670 | 2250 | 10200 | 7420 | 5520 |
| 17 | 6300 | 10100 | 12000 | 8550 | 17900 | 9870 | 4340 | 3330 | 2210 | 9260 | 6690 | 7530 |
| 18 | 6100 | 9670 | 14800 | 8200 | 17500 | 11600 | 3950 | 3200 | 2230 | 7700 | 6150 | 7780 |
| 19 | 5680 | 8560 | 14700 | 9650 | 16800 | 12800 | 3730 | 3110 | 2490 | 6390 | 5720 | 7580 |
| 20 | 5200 | 7500 | 14900 | 13600 | 16200 | 13300 | 3630 | 3060 | 5550 | 5850 | 5540 | 7110 |
| 21 | 4780 | 6770 | 14300 | 13800 | 15100 | 13500 | 3570 | 3180 | 8000 | 6150 | 5400 | 7830 |
| 22 | 4650 | 6240 | 11000 | 12900 | 14200 | 13500 | 3510 | 3220 | 9230 | 6660 | 5330 | 13800 |
| 23 | 4730 | 5960 | 13800 | 11700 | 13500 | 13600 | 3420 | 3300 | 9930 | 6490 | 5050 | 18800 |
| 24 | 4570 | 5540 | 13800 | 11100 | 12600 | 13700 | 3360 | 3420 | 9910 | 6200 | 4750 | 19700 |
| 25 | 4410 | 5270 | 13700 | 16600 | 11900 | 13900 | 3310 | 3430 | 9110 | 6070 | 4720 | 18900 |
| 26 | 4300 | 5070 | 14400 | 26900 | 11300 | 13800 | 3280 | 3310 | 8050 | 5870 | 4740 | 18400 |
| 27 | 4340 | 5140 | 13900 | 27300 | 10400 | 13700 | 3260 | 3190 | 6830 | 7000 | 4690 | 18000 |
| 28 | 4530 | 5410 | 13300 | 25500 | 9570 | 13200 | 3190 | 3020 | 5740 | 10200 | 4690 | 17400 |
| 29 | 4220 | | 12600 | 25100 | 8790 | 12600 | 3160 | 2840 | 4900 | 11300 | 4730 | 16100 |
| 30 | 3950 | | 11800 | 24700 | 8800 | 12000 | 3080 | 2710 | 4430 | 10400 | 4720 | 13500 |
| 31 | 3770 | | 11300 | | 8700 | | 2960 | 2610 | | 9050 | | 12700 |
| MEAN | 8960 | 6060 | 12600 | 13800 | 19700 | 10300 | 5190 | 3590 | 4530 | 6340 | 5740 | 8920 |
| MAX. | 19700 | 10100 | 16500 | 27300 | 31400 | 13900 | 11300 | 6410 | 9930 | 11300 | 8100 | 19700 |
| MIN. | 3770 | 3780 | 5610 | 8200 | 8700 | 5970 | 2960 | 2610 | 2100 | 3350 | 4690 | 3930 |

TOTAL DISCHARGE FOR YEAR WAS 3221480. MEAN DISCHARGE FOR YEAR WAS 8826.0

MAXIMUM DISCHARGE WAS 36,820 CFS ON MAY 2.
MINIMUM DISCHARGE WAS 1,638 CFS ON SEP. 15.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG %MILE 83] NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM %MILE 155], FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. %MILE 100] NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 %SEE ST. FRANCIS RIVER AT PARKIN], AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12000 | 33600 | 13400 | 10300 | 15900 | 4950 | 6570 | 2350 | 1670 | 1300 | 1210 | 2430 |
| 2 | 12100 | 35000 | 12800 | 10000 | 15100 | 4850 | 5890 | 2310 | 1660 | 1100 | 1160 | 2340 |
| 3 | 12500 | 36800 | 12300 | 9730 | 14400 | 4820 | 4950 | 2310 | 1600 | 1200 | 1160 | 2280 |
| 4 | 13000 | 38700 | 11600 | 9450 | 13400 | 4650 | 4410 | 2270 | 1690 | 1150 | 1150 | 2090 |
| 5 | 13300 | 39900 | 11200 | 9610 | 12700 | 4490 | 3930 | 2240 | 1530 | 1220 | 1120 | 2100 |
| 6 | 13400 | 40700 | 10500 | 10600 | 11600 | 4170 | 3710 | 2190 | 1590 | 1170 | 1080 | 2240 |
| 7 | 13300 | 40800 | 10000 | 11000 | 11000 | 4090 | 3600 | 2110 | 1630 | 1030 | 1060 | 2820 |
| 8 | 13200 | 41000 | 9640 | 11000 | 10300 | 3770 | 3600 | 1960 | 1600 | 1150 | 1050 | 3060 |
| 9 | 12700 | 40900 | 9040 | 12100 | 9640 | 3680 | 3540 | 1870 | 1580 | 1210 | 1050 | 3040 |
| 10 | 12400 | 41000 | 8780 | 16800 | 8810 | 3570 | 3330 | 1860 | 1580 | 1260 | 1060 | 2780 |
| 11 | 12000 | 40800 | 8440 | 19600 | 8050 | 3500 | 3020 | 1700 | 1600 | 1150 | 1090 | 2410 |
| 12 | 11500 | 40300 | 8130 | 20100 | 7450 | 3410 | 2840 | 1720 | 1710 | 1060 | 1080 | 2320 |
| 13 | 11200 | 39300 | 7740 | 19900 | 6950 | 3390 | 2890 | 1720 | 1670 | 939 | 1070 | 2150 |
| 14 | 10800 | 38000 | 7460 | 21200 | 6300 | 3720 | 2850 | 1690 | 1690 | 976 | 1030 | 2150 |
| 15 | 10400 | 37100 | 7170 | 23000 | 5860 | 3630 | 2840 | 1720 | 1670 | 1190 | 1010 | 2110 |
| 16 | 9850 | 35700 | 6890 | 23800 | 5590 | 3380 | 3490 | 1730 | 1650 | 1250 | 987 | 1960 |
| 17 | 11300 | 34400 | 6620 | 21400 | 5520 | 3860 | 3390 | 1840 | 1620 | 1310 | 1060 | 2120 |
| 18 | 15600 | 32600 | 6370 | 25600 | 5630 | 3870 | 3520 | 1930 | 1580 | 1350 | 1130 | 1980 |
| 19 | 17500 | 30100 | 6120 | 26500 | 5530 | 3720 | 3630 | 2000 | 1530 | 1400 | 1690 | 1990 |
| 20 | 17500 | 27700 | 5960 | 26300 | 5640 | 3420 | 3360 | 2100 | 1620 | 1430 | 1990 | 1960 |
| 21 | 16800 | 25000 | 5950 | 24700 | 5500 | 3320 | 3490 | 2690 | 1320 | 1460 | 2090 | 2140 |
| 22 | 16300 | 23300 | 5800 | 23700 | 5200 | 3240 | 3340 | 3260 | 1660 | 1450 | 2260 | 2320 |
| 23 | 16600 | 21100 | 9530 | 21800 | 5130 | 2990 | 3230 | 3670 | 1330 | 1450 | 2420 | 2480 |
| 24 | 16500 | 18700 | 12000 | 20600 | 4990 | 2640 | 2990 | 3480 | 1340 | 1450 | 2690 | 2310 |
| 25 | 16700 | 17000 | 11900 | 20000 | 5060 | 3590 | 2830 | 3080 | 1170 | 1440 | 2990 | 2360 |
| 26 | 16700 | 15700 | 11600 | 19700 | 4990 | 4280 | 2660 | 2490 | 1230 | 1420 | 3000 | 2410 |
| 27 | 17000 | 14800 | 10600 | 19100 | 4910 | 5510 | 2720 | 2240 | 1250 | 1380 | 3170 | 2480 |
| 28 | 16700 | 14200 | 10500 | 18500 | 4800 | 6460 | 2610 | 2040 | 1160 | 1300 | 3030 | 4830 |
| 29 | 18000 | | 10600 | 17700 | 4780 | 7100 | 2630 | 1920 | 1130 | 1220 | 2760 | 16000 |
| 30 | 30000 | | 10500 | 16700 | 4750 | 6990 | 2550 | 1940 | 1130 | 1210 | 2560 | 18300 |
| 31 | 31900 | | 10600 | | 4880 | | 2360 | 1740 | | 1240 | | 20000 |
| MEAN | 15100 | 31900 | 9340 | 18000 | 7750 | 4170 | 3440 | 2200 | 1510 | 1250 | 1670 | 3930 |
| MAX. | 31900 | 41000 | 13400 | 26500 | 15900 | 7100 | 6570 | 3670 | 1710 | 1460 | 3170 | 20000 |
| MIN. | 9850 | 14200 | 5800 | 9450 | 4750 | 2640 | 2360 | 1690 | 1130 | 939 | 987 | 1960 |

TOTAL DISCHARGE FOR YEAR WAS 2989669. MEAN DISCHARGE FOR YEAR WAS 8190.9

MAXIMUM DISCHARGE WAS 41,000 CFS ON FEB. 8 AND 10.
MINIMUM DISCHARGE WAS 939 CFS ON OCT. 13.

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG %MILE 831 NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM %MILE 1551, FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. %MILE 1001 NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 %SEE ST. FRANCIS RIVER AT PARKIN], AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 13300 | 10100 | 6320 | 16200 | | | | | 1670 | 2030 | 1180 | 10700 |
| 2 | 12800 | 13500 | 5920 | 16200 | | | | | 1630 | 1870 | 1190 | 11000 |
| 3 | 13100 | 14500 | 5440 | 16900 | | | | | 1580 | 1760 | 1170 | 10700 |
| 4 | 13500 | 14400 | 5130 | 25700 | | | | | 1570 | 1700 | 1190 | 10800 |
| 5 | 12900 | 13400 | 4800 | 27300 | | | | | 1560 | 1690 | 1210 | 9860 |
| 6 | 12500 | 12700 | 4590 | 26000 | | | | | 1540 | 1760 | 1240 | 9100 |
| 7 | 12100 | 12800 | 4430 | 25300 | | | | | 1520 | 2100 | 1250 | 8440 |
| 8 | 11600 | 13200 | 4320 | 25400 | | | | | 1530 | 1870 | 1240 | 8070 |
| 9 | 11000 | 13700 | 4186 | 25400 | | | | | 1590 | 1770 | 1240 | 7770 |
| 10 | 11200 | 13900 | 4090 | 25200 | | | | | 1490 | 1660 | 1220 | 7510 |
| 11 | 11400 | 13900 | 4860 | 24300 | | | | | 1440 | 1609 | 1180 | 7200 |
| 12 | 11400 | 13700 | 7600 | 23500 | | | | | 1460 | 1570 | 1220 | 6850 |
| 13 | 11500 | 13400 | 7400 | 22900 | | | | | 1430 | 1510 | 1180 | 6610 |
| 14 | 11600 | 13000 | 6140 | 22000 | | | | | 1330 | 1450 | 1180 | 6350 |
| 15 | 11000 | 12600 | 5310 | 20900 | | | | | 1350 | 1370 | 1190 | 6110 |
| 16 | 10600 | 12300 | 5090 | 19500 | | | | | 1500 | 1340 | 1280 | 5810 |
| 17 | 10300 | 12000 | 5090 | 18600 | | | | | 1980 | 1470 | 1320 | 5440 |
| 18 | 10200 | 11600 | 4980 | 16800 | | | | | 2320 | 1460 | 1300 | 5230 |
| 19 | 10600 | 11300 | 4710 | 15600 | | | | | 2260 | 1440 | 1300 | 4790 |
| 20 | 11000 | 11000 | 7740 | 14900 | | | | | 2100 | 1440 | 1310 | 5400 |
| 21 | 11600 | 10600 | 14800 | 14300 | | | | | 2060 | 1430 | 1320 | 5980 |
| 22 | 10600 | 10200 | 15500 | 14200 | | | | | 1840 | 1400 | 1260 | 11200 |
| 23 | 11500 | 9770 | 15500 | 15400 | | | | | 1760 | 1300 | 1280 | 12100 |
| 24 | 11400 | 9250 | 14900 | 16800 | | | | | 1680 | 1220 | 1340 | 11800 |
| 25 | 10300 | 8800 | 14700 | | | | | | 1940 | 1180 | 1310 | 10900 |
| 26 | 9160 | 8210 | 14600 | | | | | | 2820 | 1110 | 1350 | 10000 |
| 27 | 9260 | 7650 | 14600 | | | | | 1960 | 2560 | 1040 | 2350 | 9730 |
| 28 | 7690 | 7250 | 14800 | | | | | 1910 | 2240 | 1010 | 7460 | 12400 |
| 29 | 7410 | 6770 | 15100 | | | | | 1840 | 2160 | 967 | 8490 | 13900 |
| 30 | 7770 | | 15400 | | | | | 1780 | 2110 | 1180 | 8990 | 13500 |
| 31 | 9370 | | 15900 | | | | | 1760 | | 1160 | | 12900 |
| MEAN | 10900 | 11600 | 8840 | | | | | | 1800 | 1480 | 1990 | 8970 |
| MAX. | 13500 | 14500 | 15900 | | | | | | 2820 | 2100 | 8990 | 13900 |
| MIN. | 7410 | 6770 | 4090 | | | | | | 1330 | 967 | 1170 | 4790 |

TOTAL DISCHARGE FOR YEAR WAS 1385267. MEAN DISCHARGE FOR YEAR WAS 3784.9

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 831) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE [illegible]) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16300 | 4180 | 4580 | 5730 | 8130 | 20000 | 6130 | 5820 | 1960 | 2560 | 2370 | 2300 |
| 2 | 15000 | 4860 | 4390 | 5490 | 11700 | 17100 | 5510 | 5870 | 1950 | 2520 | 2260 | 5520 |
| 3 | 13600 | 5410 | 4280 | 5200 | 11400 | 14600 | 5640 | 5850 | 1910 | 2450 | 2160 | 8610 |
| 4 | 12200 | 5460 | 4200 | 4870 | 9330 | 12600 | 5730 | 5450 | 1840 | 2450 | 2100 | 10800 |
| 5 | 11000 | 5170 | 4360 | 4670 | 8130 | 11100 | 6390 | 5540 | 1840 | 2380 | 2080 | 11300 |
| 6 | 10000 | 4910 | 9020 | 4390 | 7690 | 9880 | 9630 | 5250 | 1800 | 2260 | 2020 | 9930 |
| 7 | 9460 | 4860 | 13600 | 4180 | 7320 | 8830 | 10600 | 4520 | 1860 | 2160 | 1960 | 8340 |
| 8 | 8950 | 5060 | 14900 | 4120 | 7150 | 7710 | 10500 | 4450 | 1990 | 2120 | 1910 | 7590 |
| 9 | 8510 | 5190 | 14800 | 4010 | 6710 | 6660 | 10300 | 4380 | 1880 | 2010 | 1860 | 8160 |
| 10 | 7970 | 5210 | 13500 | 3960 | 6180 | 5840 | 10000 | 3940 | 1890 | 1940 | 1870 | 10500 |
| 11 | 7490 | 5260 | 11900 | 3980 | 5750 | 5370 | 9870 | 3620 | 1890 | 1840 | 1880 | 13400 |
| 12 | 6830 | 5250 | 10700 | 3990 | 5390 | 5040 | 9840 | 3360 | 1930 | 1790 | 1900 | 15300 |
| 13 | 6250 | 5210 | 10200 | 3890 | 5200 | 4810 | 9660 | 3240 | 1950 | 1740 | 1920 | 13600 |
| 14 | 5670 | 5250 | 10200 | 3940 | 6470 | 4650 | 9010 | 3050 | 1990 | 1660 | 2090 | 11600 |
| 15 | 5230 | 5170 | 10300 | 3850 | 10800 | 4590 | 7750 | 2920 | 2260 | 1630 | 2230 | 10400 |
| 16 | 4960 | 5160 | 10100 | 3660 | 13000 | 4640 | 6570 | 2780 | 2510 | 1810 | 2330 | 9630 |
| 17 | 4560 | 5230 | 9760 | 3550 | 14200 | 4170 | 5670 | 2710 | 2530 | 2000 | 2350 | 10200 |
| 18 | 4280 | 5370 | 9330 | 3460 | 14600 | 4140 | 5310 | 2660 | 2480 | 2600 | 2330 | 12300 |
| 19 | 4040 | 5460 | 8860 | 3400 | 15900 | 4100 | 5080 | 2820 | 2360 | 3170 | 2460 | 12300 |
| 20 | 3840 | 5920 | 8640 | 3340 | 19600 | 4660 | 4770 | 2670 | 2270 | 3380 | 2400 | 12200 |
| 21 | 3770 | 6110 | 8110 | 3160 | 20800 | 6830 | 4460 | 2520 | 2190 | 3380 | 2200 | 12600 |
| 22 | 3690 | 5910 | 7610 | 3090 | 22100 | 6170 | 4230 | 2500 | 2220 | 3520 | 2100 | 12400 |
| 23 | 3550 | 5690 | 7200 | 3320 | 22900 | 5750 | 3970 | 2430 | 2690 | 3710 | 2020 | 13400 |
| 24 | 3470 | 5420 | 6810 | 3670 | 23000 | 5390 | 4050 | 2340 | 2840 | 3800 | 1960 | 13000 |
| 25 | 3370 | 5230 | 6440 | 3980 | 23000 | 5090 | 4070 | 2280 | 2780 | 3820 | 1930 | 12800 |
| 26 | 3970 | 5010 | 6240 | 5630 | 22600 | 4930 | 4210 | 2190 | 2730 | 3630 | 1860 | 13000 |
| 27 | 5180 | 4890 | 6160 | 6030 | 22000 | 4630 | 4700 | 2170 | 2760 | 3410 | 1810 | 13200 |
| 28 | 5400 | 4770 | 6140 | 5560 | 21000 | 4450 | 5480 | 2130 | 2740 | 3160 | 1780 | 13400 |
| 29 | 4880 | | 5930 | 5060 | 19800 | 4330 | 7510 | 2150 | 2660 | 2950 | 1800 | 13500 |
| 30 | 4340 | | 6050 | 5000 | 18700 | 4780 | 7900 | 2070 | 2590 | 2700 | 2000 | 13500 |
| 31 | 4130 | | 6000 | | 19500 | | 7020 | 2020 | | 2510 | | 13400 |
| MEAN | 6830 | 5240 | 8400 | 4270 | 13900 | 7090 | 6820 | 3410 | 2240 | 2610 | 2060 | 11200 |
| MAX. | 16300 | 6110 | 14900 | 6030 | 23000 | 20000 | 10600 | 5870 | 2840 | 3820 | 2460 | 15300 |
| MIN. | 3370 | 4180 | 4200 | 3090 | 5200 | 4100 | 3970 | 2020 | 1800 | 1630 | 1780 | 2300 |

MAXIMUM DISCHARGE WAS 23,000 CFS ON MAY 24 AND 25.
MINIMUM DISCHARGE WAS 1,630 CFS ON OCT. 15.

DAILY DISCHARGES FOR 1966

ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2380 | 7150 | 13700 | 4480 | 29700 | 18500 | 4100 | 3910 | 3250 | 1990 | 1620 | 1740 |
| 2 | 7720 | 6940 | 13100 | 4420 | 31200 | 17400 | 3890 | 3620 | 3110 | 2140 | 1620 | 1750 |
| 3 | 12700 | 6980 | 13000 | 4440 | 31000 | 16200 | 3750 | 3580 | 2980 | 2270 | 1610 | 1760 |
| 4 | 15700 | 6840 | 12700 | 4420 | 30000 | 15300 | 3740 | 3420 | 2850 | 2400 | 1610 | 1800 |
| 5 | 18000 | 6670 | 12400 | 4370 | 28500 | 14200 | 3620 | 3170 | 2760 | 2440 | 1630 | 1870 |
| 6 | 20900 | 6470 | 12300 | 4340 | 27400 | 13400 | 3430 | 2940 | 2660 | 2470 | 1590 | 1930 |
| 7 | 23100 | 6430 | 12100 | 4200 | 27000 | 12600 | 3320 | 2860 | 2620 | 2470 | 1610 | 1910 |
| 8 | 26100 | 6500 | 11900 | 4030 | 26500 | 12000 | 3310 | 2800 | 2480 | 2450 | 1640 | 1980 |
| 9 | 28500 | 7680 | 11700 | 3930 | 26100 | 11200 | 3330 | 2760 | 2420 | 2440 | 1640 | 2500 |
| 10 | 29400 | 19700 | 11000 | 3840 | 25200 | 10600 | 3300 | 2660 | 2320 | 2420 | 1970 | 4000 |
| 11 | 29500 | 21300 | 10400 | 3740 | 24200 | 10000 | 3150 | 2650 | 2300 | 2350 | 2560 | 5250 |
| 12 | 29100 | 21100 | 9780 | 3740 | 23700 | 9470 | 3000 | 3210 | 2260 | 2290 | 2740 | 5800 |
| 13 | 29100 | 22900 | 9190 | 3780 | 24500 | 9160 | 3000 | 4630 | 2220 | 2190 | 2390 | 5520 |
| 14 | 28600 | 22200 | 8590 | 3810 | 23400 | 9000 | 2880 | 5890 | 2220 | 2190 | 2020 | 4950 |
| 15 | 27800 | 21200 | 8030 | 3740 | 22000 | 9010 | 2740 | 5750 | 2240 | 2190 | 1880 | 4790 |
| 16 | 26700 | 20000 | 7620 | 3770 | 21300 | 8910 | 2670 | 5090 | 2190 | 2150 | 1760 | 4780 |
| 17 | 25200 | 18700 | 7260 | 3870 | 23000 | 8610 | 2630 | 7350 | 2160 | 2140 | 1740 | 4920 |
| 18 | 23500 | 17700 | 6970 | 4070 | 25800 | 8370 | 2610 | 9950 | 2230 | 2200 | 1700 | 4950 |
| 19 | 21900 | 17000 | 6710 | 4590 | 27900 | 8060 | 2580 | 9550 | 2500 | 2170 | 1680 | 4940 |
| 20 | 20300 | 16500 | 6470 | 5820 | 28600 | 7910 | 2550 | 8560 | 3060 | 2090 | 1640 | 4850 |
| 21 | 18700 | 16000 | 6290 | 7380 | 28300 | 7670 | 2540 | 7300 | 2970 | 2030 | 1670 | 4770 |
| 22 | 17300 | 15100 | 6090 | 8170 | 27600 | 7490 | 2490 | 6380 | 2570 | 1980 | 1680 | 4700 |
| 23 | 15900 | 14200 | 5800 | 8910 | 26500 | 7230 | 2410 | 6140 | 2310 | 1930 | 1670 | 4830 |
| 24 | 14900 | 13700 | 5580 | 15100 | 26900 | 6850 | 2540 | 5600 | 2150 | 1900 | 1640 | 4950 |
| 25 | 13800 | 13500 | 5430 | 19900 | 28800 | 6650 | 3940 | 4990 | 2130 | 1840 | 1580 | 5060 |
| 26 | 12800 | 13700 | 5260 | 24400 | 28500 | 6350 | 4180 | 4450 | 2040 | 1800 | 1630 | 5190 |
| 27 | 11800 | 13600 | 5060 | 26300 | 27000 | 5920 | 4100 | 4040 | 1990 | 1730 | 1650 | 7770 |
| 28 | 10700 | 13700 | 4870 | 25500 | 24900 | 5350 | 4450 | 3790 | 1930 | 1670 | 1670 | 16600 |
| 29 | 9610 | | 4720 | 24200 | 22900 | 4790 | 4910 | 3620 | 1930 | 1640 | 1690 | 17500 |
| 30 | 8480 | | 4570 | 24200 | 21400 | 4430 | 4970 | 3490 | 1950 | 1630 | 1730 | 16600 |
| 31 | 7730 | | 4550 | | 19900 | | 4550 | 3370 | | 1630 | | 15700 |
| MEAN | 19000 | 14100 | 8490 | 8920 | 26100 | 9750 | 3380 | 4760 | 2430 | 2100 | 1780 | 5670 |
| MAX. | 29500 | 22900 | 13700 | 26300 | 31200 | 18500 | 4970 | 9950 | 3250 | 2470 | 2740 | 17500 |
| MIN. | 2380 | 6430 | 4550 | 3740 | 19900 | 4430 | 2410 | 2650 | 1930 | 1630 | 1580 | 1740 |

MAXIMUM DISCHARGE WAS 31,200 CFS ON MAY 2.
MINIMUM DISCHARGE WAS 1,580 CFS ON NOV. 25.

DAILY DISCHARGES FOR 1965

## ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 831 NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4620 | 6030 | 16100 | 14900 | 8920 | 3850 | 3190 | 2240 | 1360 | 7310 | 2510 | 3080 |
| 2 | 5150 | 5700 | 15100 | 14800 | 8250 | 3800 | 3020 | 2140 | 1320 | 6870 | 2480 | 2910 |
| 3 | 5830 | 5390 | 13900 | 16600 | 7650 | 3730 | 2880 | 2040 | 1360 | 6540 | 2420 | 2920 |
| 4 | 5800 | 5180 | 12900 | 18600 | 7240 | 3740 | 2770 | 2010 | 1410 | 6150 | 2380 | 2840 |
| 5 | 5480 | 4960 | 12400 | 20400 | 7010 | 3670 | 3150 | 1940 | 1480 | 5940 | 2370 | 2740 |
| 6 | 5220 | 4730 | 12400 | 22100 | 6890 | 3650 | 4150 | 1890 | 1500 | 6040 | 2340 | 2700 |
| 7 | 4960 | 4460 | 12200 | 23300 | 6640 | 3610 | 4640 | 1960 | 1510 | 6220 | 2340 | 2640 |
| 8 | 5400 | 4310 | 11500 | 23200 | 6500 | 3640 | 4720 | 1990 | 1470 | 6350 | 2350 | 2530 |
| 9 | 13400 | 5350 | 10600 | 21600 | 6180 | 3610 | 4390 | 2240 | 1420 | 6510 | 2310 | 2500 |
| 10 | 17000 | 10200 | 9960 | 20200 | 5760 | 3570 | 4510 | 2440 | 1750 | 6650 | 2300 | 2330 |
| 11 | 16400 | 17300 | 9650 | 19100 | 5380 | 3610 | 5440 | 2190 | 6870 | 6900 | 2260 | 2360 |
| 12 | 15800 | 22100 | 9340 | 18300 | 4980 | 4110 | 5410 | 1940 | 9260 | 6960 | 2260 | 2370 |
| 13 | 15000 | 22500 | 9270 | 17400 | 4640 | 4630 | 5020 | 1860 | 10200 | 6920 | 2150 | 2430 |
| 14 | 14200 | 22600 | 8980 | 16800 | 4490 | 6780 | 4470 | 1770 | 11000 | 6900 | 2270 | 2370 |
| 15 | 13900 | 23000 | 8710 | 16200 | 4380 | 7080 | 4050 | 1710 | 10700 | 6750 | 2400 | 2390 |
| 16 | 14100 | 22700 | 8490 | 15300 | 4210 | 7270 | 3860 | 1700 | 9920 | 6650 | 2350 | 2430 |
| 17 | 14100 | 22300 | 9130 | 14600 | 4250 | 7240 | 3460 | 1650 | 9320 | 6700 | 2300 | 2380 |
| 18 | 14200 | 22100 | 9340 | 13800 | 4210 | 6960 | 3390 | 1640 | 8740 | 6320 | 2170 | 2390 |
| 19 | 13800 | 22700 | 9160 | 13100 | 4200 | 6660 | 3190 | 1580 | 8580 | 5670 | 2220 | 2380 |
| 20 | 13400 | 22900 | 8520 | 12500 | 4100 | 6530 | 2940 | 1510 | 8520 | 5020 | 2170 | 2370 |
| 21 | 12800 | 22900 | 7750 | 12000 | 3930 | 6340 | 2840 | 1420 | 8520 | 4530 | 2190 | 2320 |
| 22 | 12600 | 22400 | 7270 | 11800 | 3840 | 6200 | 2650 | 1470 | 9440 | 4160 | 2470 | 2250 |
| 23 | 13000 | 21700 | 7030 | 11700 | 3610 | 5940 | 2590 | 1470 | 11000 | 3720 | 3000 | 2250 |
| 24 | 12600 | 20900 | 6990 | 11500 | 3580 | 5690 | 2460 | 1370 | 11000 | 3570 | 3730 | 2210 |
| 25 | 11600 | 19500 | 9680 | 11400 | 3440 | 5160 | 2490 | 1460 | 10400 | 3270 | 3880 | 2250 |
| 26 | 9930 | 18200 | 12100 | 11300 | 3510 | 4680 | 2650 | 1430 | 9570 | 3070 | 3800 | 2240 |
| 27 | 8760 | 17500 | 11500 | 11000 | 3920 | 4270 | 3140 | 1420 | 9050 | 2960 | 3730 | 2300 |
| 28 | 7950 | 16900 | 10900 | 10500 | 3950 | 3940 | 3010 | 1390 | 8430 | 2780 | 3590 | 2350 |
| 29 | 7360 | | 13600 | 10100 | 3920 | 3610 | 2780 | 1370 | 8170 | 2760 | 3430 | 2350 |
| 30 | 6750 | | 15100 | 9600 | 3840 | 3300 | 2490 | 1360 | 7700 | 2610 | 3260 | 2350 |
| 31 | 6450 | | 15100 | | 3810 | | 2300 | 1360 | | 2540 | | 2350 |
| MEAN | 10600 | 15600 | 10800 | 15500 | 5070 | 4900 | 3490 | 1740 | 6700 | 5330 | 2650 | 2460 |
| MAX. | 17000 | 23000 | 16100 | 23300 | 8920 | 7270 | 5440 | 2440 | 11000 | 7310 | 3880 | 3080 |
| MIN. | 4620 | 4310 | 6990 | 9600 | 3440 | 3300 | 2300 | 1360 | 1320 | 2540 | 2150 | 2210 |

MAXIMUM DISCHARGE WAS 23,300 CFS ON APR. 7.
MINIMUM DISCHARGE WAS 1,320 CFS ON SEPT. 2.

MEMPHIS DISTRICT, CORPS OF ENGINEERS.

DAILY DISCHARGES

1964

827 ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, ARK.

LOCATION. LAT. 35-13-00, LONG. FROM 90-38-00 TO 90-42-00.

GENERAL INFORMATION. DRAINAGE AREA, 6,475 SQUARE MILES. ST. FRANCIS RIVER AT WITTSBURG (MILE 83) NOW CARRIES ONLY THE DISCHARGE OF ST. FRANCIS BAY WHICH INCLUDES FLOW FROM STEEP GUT AND OAK DONNICK FLOODWAYS. PART OF ST. FRANCIS RIVER AT LOCK AND DAM (MILE 155), FOUR MILES NORTHWEST OF MARKED TREE, ARK. FLOWS THROUGH THESE FLOODWAYS. ST. FRANCIS RIVER AT PARKIN, ARK. (MILE 100) NOW FLOWS INTO GRASSY LAKE CUT-OFF, ABOUT TEN MILES DOWNSTREAM, THUS BY-PASSING THE FLOW AT WITTSBURG. A LEVEE WAS BUILT ACROSS THE RIVER BETWEEN PARKIN AND RIVERFRONT AND INTERCHANGE OF FLOW CEASED ON SEPT. 20, 1963. THE TABULATION BELOW GIVES THE COMBINED DAILY FLOWS OF ST. FRANCIS BAY AT RIVERFRONT AND ST. FRANCIS RIVER AT PARKIN.

RECORDS AVAILABLE. DAILY DISCHARGE, 1928, 1929 (SEE ST. FRANCIS RIVER AT PARKIN), AND 1935 TO DATE. FOR 1961 RECORDS, SEE ST. FRANCIS RIVER AT MADISON, ARK.

EXTREMES. MAXIMUM, 74,100 CFS OBSERVED ON FEB. 2, 1937. MINIMUM, 250 CFS COMPUTED FOR NOV. 7, 1940.

COMPUTED DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1964

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1310 | 1160 | 1580 | 20100 | 11200 | 3500 | 2010 | 1880 | 2780 | 4650 | 1740 | 2350 |
| 2 | 1230 | 1120 | 1550 | 18800 | 10200 | 3410 | 2010 | 1940 | 2570 | 4590 | 1610 | 2590 |
| 3 | 1230 | 1100 | 1660 | 17800 | 9600 | 3340 | 2030 | 1930 | 2370 | 4470 | 1520 | 4370 |
| 4 | 1270 | 1080 | 4040 | 18800 | 9680 | 3240 | 2030 | 1850 | 2190 | 4340 | 1460 | 9180 |
| 5 | 1340 | 1220 | 7450 | 22700 | 9470 | 3140 | 2020 | 1770 | 2060 | 4160 | 1450 | 10700 |
| 6 | 1380 | 1600 | 8940 | 28200 | 8780 | 3050 | 1970 | 1690 | 1950 | 3970 | 1450 | 10900 |
| 7 | 1380 | 1500 | 10200 | 28200 | 8450 | 2990 | 1910 | 1600 | 1860 | 3730 | 1460 | 10400 |
| 8 | 1400 | 1390 | 13500 | 26600 | 8180 | 2920 | 1850 | 1550 | 1780 | 3460 | 1440 | 9860 |
| 9 | 1400 | 1340 | 18700 | 24900 | 7950 | 2840 | 1820 | 1490 | 1720 | 3210 | 1460 | 9170 |
| 10 | 1380 | 1330 | 23900 | 23800 | 7940 | 2760 | 1810 | 1440 | 1660 | 2990 | 1550 | 9020 |
| 11 | 1370 | 1320 | 24000 | 23200 | 8170 | 2680 | 1990 | 1420 | 1590 | 2800 | 1550 | 13600 |
| 12 | 1390 | 1330 | 23200 | 22900 | 8900 | 2670 | 2110 | 1340 | 1530 | 2640 | 1520 | 15200 |
| 13 | 1380 | 1440 | 23700 | 22600 | 9790 | 2630 | 2050 | 1280 | 1480 | 2470 | 1470 | 15100 |
| 14 | 1350 | 1660 | 24300 | 22000 | 10100 | 2580 | 2110 | 1270 | 1440 | 2330 | 1430 | 14500 |
| 15 | 1380 | 1810 | 25400 | 20900 | 10100 | 2540 | 2590 | 1400 | 1390 | 2240 | 1420 | 14000 |
| 16 | 1340 | 1930 | 27300 | 19500 | 9580 | 2480 | 2610 | 1980 | 1330 | 2140 | 1420 | 13300 |
| 17 | 1300 | 1910 | 28900 | 18100 | 8750 | 2440 | 2450 | 2110 | 1560 | 2050 | 1410 | 12300 |
| 18 | 1280 | 1860 | 29700 | 16700 | 7950 | 2460 | 2260 | 2940 | 2050 | 2000 | 1370 | 11300 |
| 19 | 1250 | 1800 | 30200 | 15500 | 7260 | 2540 | 2090 | 3640 | 1890 | 1940 | 1950 | 10700 |
| 20 | 1260 | 1740 | 30300 | 14600 | 6610 | 2510 | 1990 | 3480 | 1640 | 1890 | 4560 | 9990 |
| 21 | 1250 | 1730 | 30100 | 13900 | 5960 | 2460 | 1960 | 3080 | 1620 | 1850 | 6150 | 9190 |
| 22 | 1230 | 1740 | 29700 | 13600 | 5470 | 2410 | 1910 | 2880 | 1680 | 1800 | 6790 | 8370 |
| 23 | 1200 | 1750 | 29000 | 15900 | 5070 | 2360 | 1850 | 2790 | 1920 | 1750 | 6320 | 7550 |
| 24 | 1230 | 1760 | 28300 | 18000 | 4850 | 2310 | 1800 | 2590 | 2250 | 1720 | 5330 | 6800 |
| 25 | 1240 | 1770 | 27700 | 17300 | 4650 | 2210 | 1760 | 2730 | 2070 | 1700 | 4120 | 6320 |
| 26 | 1220 | 1790 | 27300 | 15500 | 4400 | 2140 | 1750 | 4490 | 2100 | 1680 | 3220 | 5820 |
| 27 | 1210 | 1740 | 26400 | 14900 | 4180 | 2070 | 1820 | 5250 | 2650 | 1690 | 2660 | 5520 |
| 28 | 1210 | 1680 | 25400 | 14100 | 3960 | 2030 | 1760 | 4910 | 4070 | 1890 | 2420 | 5320 |
| 29 | 1210 | 1630 | 24100 | 13500 | 3790 | 2040 | 1770 | 4050 | 4460 | 2000 | 2490 | 5090 |
| 30 | 1180 | | 22900 | 12400 | 3660 | 2060 | 1830 | 3320 | 4540 | 1940 | 2330 | 4810 |
| 31 | 1190 | | 21400 | | 3570 | | 1830 | 2990 | | 1860 | | 4580 |
| MEAN | 1290 | 1560 | 21000 | 19200 | 7360 | 2630 | 1990 | 2490 | 2140 | 2640 | 2500 | 8960 |
| MAX. | 1400 | 1930 | 30300 | 28200 | 11200 | 3500 | 2610 | 5250 | 4540 | 4650 | 6790 | 15200 |
| MIN. | 1180 | 1080 | 1550 | 12400 | 3570 | 2030 | 1750 | 1270 | 1330 | 1680 | 1370 | 2350 |

MAXIMUM DISCHARGE WAS 30,310 CFS ON MAR. 20.
MINIMUM DISCHARGE WAS 1,076 CFS ON FEB. 4.

MEMPHIS DISTRICT, CORPS OF ENGINEERS.