Water-Data Report 2013

# 07375500 TANGIPAHOA RIVER AT ROBERT, LA

Lake Maurepas Basin
Tangipahoa Subbasin

LOCATION.--Lat 30°30′23″, long 90°21′42″ referenced to North American Datum of 1927, in sec.40, T.6 S., R.8 E., Tangipahoa Parish, LA, Hydrologic Unit 08070205, near left bank on downstream side of bridge on U.S. Highway 190, 1.2 mi west of Robert, 2.8 mi downstream from Chappepeela Creek, and 6.0 mi east of Hammond.

DRAINAGE AREA.--646.00 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6.60 ft above NAVD 88. Prior to Oct. 1, 2001, datum of gage is 6.87 ft, above NGVD of 1929. Prior to Nov. 25, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good. Satellite telemetry at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--72 years, 1148 $ft^3/s$, 831,726 acre-ft/yr.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1921 reached a stage of 27.1 ft, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Jan 11 | 0800 | *22,800 | *20.31 |
| Jan 16 | 0400 | 14,800 | 18.79 |
| Feb 15 | 0100 | 8,620 | 17.52 |

Minimum discharge, 329 $ft^3/s$, Nov. 24, gage height, 6.73 ft.



Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 07375500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07375500.2013.pdf

**07375500 TANGIPAHOA RIVER AT ROBERT, LA—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2,280 | 367 | 355 | 3,630 | 2,230 | 1,950 | 688 | 773 | 589 | 477 | 390 | 409 |
| 2 | 2,000 | 366 | 347 | 2,290 | 1,530 | 1,590 | 681 | 1,160 | 598 | 446 | 406 | 404 |
| 3 | 1,200 | 364 | 343 | 2,810 | 1,280 | 1,400 | 829 | 1,870 | 610 | 431 | 442 | 405 |
| 4 | 928 | 372 | 341 | 2,190 | 1,160 | 1,260 | 1,030 | 1,600 | 653 | 429 | 430 | 404 |
| 5 | 871 | 391 | 438 | 1,460 | 1,080 | 1,180 | 1,040 | 1,180 | 680 | 465 | 388 | 410 |
| 6 | 767 | 400 | 533 | 1,230 | 1,020 | 1,110 | 918 | 912 | 609 | 476 | 375 | 414 |
| 7 | 695 | 389 | 533 | 1,550 | 1,980 | 1,040 | 807 | 795 | 603 | 474 | 368 | 447 |
| 8 | 645 | 376 | 456 | 1,410 | 2,660 | 993 | 740 | 730 | 571 | 459 | 362 | 408 |
| 9 | 609 | 366 | 407 | 6,680 | 2,170 | 960 | 701 | 687 | 579 | 484 | 368 | 393 |
| 10 | 578 | 359 | 485 | 16,000 | 1,580 | 930 | 677 | 1,250 | 567 | 544 | 395 | 386 |
| 11 | 544 | 354 | 962 | 22,200 | 1,860 | 948 | 801 | 3,230 | 607 | 554 | 450 | 382 |
| 12 | 510 | 387 | 950 | 19,300 | 4,550 | 1,200 | 1,100 | 3,570 | 560 | 570 | 432 | 376 |
| 13 | 483 | 387 | 641 | 12,700 | 7,260 | 1,660 | 1,000 | 2,290 | 534 | 578 | 489 | 379 |
| 14 | 467 | 398 | 533 | 9,590 | 7,990 | 1,540 | 1,590 | 1,360 | 533 | 529 | 574 | 389 |
| 15 | 455 | 381 | 473 | 12,500 | 7,740 | 1,160 | 3,610 | 1,020 | 508 | 484 | 1,150 | 372 |
| 16 | 445 | 366 | 440 | 14,200 | 3,830 | 1,000 | 4,650 | 873 | 491 | 492 | 1,410 | 367 |
| 17 | 434 | 359 | 757 | 10,600 | 2,160 | 936 | 2,870 | 791 | 476 | 464 | 963 | 365 |
| 18 | 427 | 355 | 2,640 | 7,700 | 1,700 | 892 | 1,600 | 736 | 469 | 447 | 885 | 362 |
| 19 | 423 | 352 | 1,620 | 4,670 | 2,140 | 855 | 1,460 | 697 | 491 | 432 | 799 | 364 |
| 20 | 445 | 349 | 953 | 2,770 | 2,790 | 824 | 1,300 | 665 | 529 | 424 | 639 | 397 |
| 21 | 443 | 347 | 855 | 2,090 | 2,140 | 804 | 1,100 | 639 | 543 | 431 | 579 | 747 |
| 22 | 437 | 344 | 788 | 1,750 | 1,750 | 786 | 937 | 779 | 520 | 431 | 569 | 1,370 |
| 23 | 421 | 343 | 634 | 1,550 | 2,480 | 774 | 844 | 1,290 | 536 | 425 | 535 | 1,190 |
| 24 | 404 | 337 | 558 | 1,410 | 3,310 | 758 | 800 | 1,110 | 510 | 423 | 496 | 811 |
| 25 | 398 | 338 | 529 | 1,310 | 4,680 | 738 | 798 | 834 | 591 | 415 | 472 | 629 |
| 26 | 391 | 339 | 1,330 | 1,240 | 6,150 | 717 | 857 | 715 | 586 | 398 | 459 | 535 |
| 27 | 384 | 355 | 2,290 | 1,170 | 4,770 | 697 | 809 | 652 | 540 | 451 | 446 | 497 |
| 28 | 380 | 381 | 1,720 | 1,120 | 2,840 | 682 | 775 | 615 | 491 | 468 | 437 | 477 |
| 29 | 375 | 398 | 3,280 | 1,070 | --- | 671 | 802 | 613 | 469 | 448 | 425 | 446 |
| 30 | 374 | 373 | 5,890 | 1,400 | --- | 662 | 758 | 705 | 468 | 443 | 418 | 433 |
| 31 | 370 | --- | 6,010 | 2,580 | --- | 663 | --- | 613 | --- | 409 | 412 | --- |
| Total | 19,583 | 10,993 | 38,091 | 172,170 | 86,830 | 31,380 | 36,572 | 34,754 | 16,511 | 14,401 | 16,963 | 14,968 |
| Mean | 632 | 366 | 1,229 | 5,554 | 3,101 | 1,012 | 1,219 | 1,121 | 550 | 465 | 547 | 499 |
| Max | 2,280 | 400 | 6,010 | 22,200 | 7,990 | 1,950 | 4,650 | 3,570 | 680 | 578 | 1,410 | 1,370 |
| Min | 370 | 337 | 341 | 1,070 | 1,020 | 662 | 677 | 613 | 468 | 398 | 362 | 362 |
| Cfsm | 0.98 | 0.57 | 1.90 | 8.60 | 4.80 | 1.57 | 1.89 | 1.74 | 0.85 | 0.72 | 0.85 | 0.77 |
| In. | 1.13 | 0.63 | 2.19 | 9.91 | 5.00 | 1.81 | 2.11 | 2.00 | 0.95 | 0.83 | 0.98 | 0.86 |

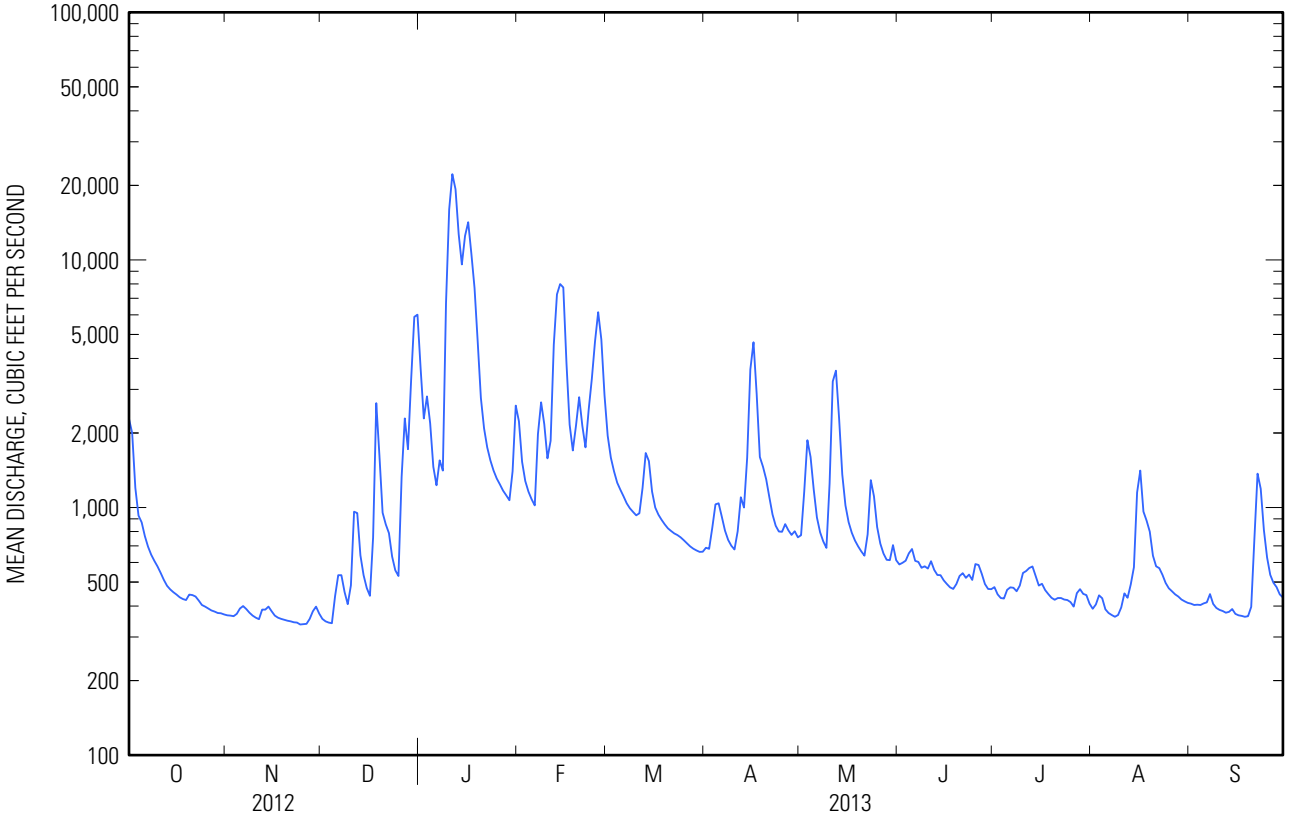
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2013, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 603 | 738 | 1,253 | 1,617 | 1,967 | 1,787 | 1,632 | 1,118 | 813 | 775 | 706 | 772 |
| Max | 3,107 | 3,122 | 4,534 | 5,554 | 7,611 | 5,106 | 8,813 | 4,689 | 2,746 | 3,371 | 2,114 | 3,822 |
| (WY) | (2003) | (1949) | (1962) | (2013) | (1966) | (1943) | (1983) | (1953) | (1975) | (2003) | (1983) | (2012) |
| Min | 259 | 283 | 315 | 381 | 410 | 438 | 418 | 303 | 296 | 271 | 268 | 310 |
| (WY) | (2001) | (2000) | (1940) | (1940) | (2000) | (2000) | (2000) | (2000) | (2000) | (2000) | (2000) | (1999) |

**07375500 TANGIPAHOA RIVER AT ROBERT, LA—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2012 | | Water Year 2013 | | Water Years 1939 - 2013 | |
|---|---|---|---|---|---|---|
| **Annual total** | 452,598 | | 493,216 | | | |
| **Annual mean** | 1,237 | | 1,351 | | 1,144 | |
| **Highest annual mean** | | | | | 2,258 | 1983 |
| **Lowest annual mean** | | | | | 366 | 2000 |
| **Highest daily mean** | 31,500 | Sep 1 | 22,200 | Jan 11 | 78,500 | Apr 7, 1983 |
| **Lowest daily mean** | 307 | Jul 2 | 337 | Nov 24 | 233 | Sep 7, 2000 |
| **Annual seven-day minimum** | 313 | Jun 27 | 342 | Nov 20 | 238 | Sep 1, 2000 |
| **Maximum peak flow** | | | 22,800 | Jan 11 | 85,000 | Apr 7, 1983 |
| **Maximum peak stage** | | | 20.31 | Jan 11 | 25.87 | Apr 7, 1983 |
| **Instantaneous low flow** | | | 329 | Nov 24 | 232 | Sep 7, 2000 |
| **Annual runoff (cfsm)** | 1.91 | | 2.09 | | 1.77 | |
| **Annual runoff (inches)** | 26.06 | | 28.40 | | 24.06 | |
| **10 percent exceeds** | 2,130 | | 2,520 | | 2,030 | |
| **50 percent exceeds** | 515 | | 639 | | 624 | |
| **90 percent exceeds** | 358 | | 376 | | 371 | |



**07375500 TANGIPAHOA RIVER AT ROBERT, LA—Continued**

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11.61 | 6.91 | 6.85 | 13.62 | 11.68 | 11.03 | 7.43 | 7.71 | 7.08 | 6.66 | 6.32 | 6.24 |
| 2 | 11.06 | 6.90 | 6.81 | 11.63 | 9.94 | 10.11 | 7.40 | 8.90 | 7.11 | 6.54 | 6.38 | 6.22 |
| 3 | 9.34 | 6.89 | 6.79 | 12.55 | 9.25 | 9.58 | 7.89 | 10.81 | 7.16 | 6.48 | 6.53 | 6.22 |
| 4 | 8.67 | 6.93 | 6.79 | 11.44 | 8.90 | 9.19 | 8.51 | 10.13 | 7.30 | 6.47 | 6.48 | 6.22 |
| 5 | 8.53 | 7.02 | 7.21 | 9.99 | 8.67 | 8.98 | 8.57 | 8.96 | 7.40 | 6.62 | 6.31 | 6.24 |
| 6 | 8.24 | 7.06 | 7.59 | 9.47 | 8.50 | 8.76 | 8.18 | 8.16 | 7.15 | 6.66 | 6.26 | 6.25 |
| 7 | 8.04 | 7.01 | 7.59 | 10.19 | 11.00 | 8.57 | 7.82 | 7.79 | 7.13 | 6.65 | 6.23 | 6.39 |
| 8 | 7.90 | 6.95 | 7.30 | 9.86 | 12.68 | 8.41 | 7.60 | 7.57 | 7.01 | 6.59 | 6.20 | 6.23 |
| 9 | 7.80 | 6.91 | 7.09 | 15.91 | 11.54 | 8.31 | 7.47 | 7.43 | 7.04 | 6.69 | 6.21 | 6.17 |
| 10 | 7.70 | 6.87 | 7.37 | 19.02 | 10.08 | 8.22 | 7.39 | 9.06 | 7.00 | 6.92 | 6.30 | 6.14 |
| 11 | 7.59 | 6.85 | 8.81 | 20.20 | 10.77 | 8.27 | 7.79 | 13.69 | 7.14 | 6.95 | 6.50 | 6.13 |
| 12 | 7.48 | 7.00 | 8.78 | 19.66 | 15.30 | 9.00 | 8.75 | 14.29 | 6.97 | 7.01 | 6.41 | 6.10 |
| 13 | 7.39 | 7.00 | 7.94 | 18.35 | 17.03 | 10.27 | 8.44 | 11.82 | 6.88 | 7.04 | 6.61 | 6.11 |
| 14 | 7.34 | 7.05 | 7.58 | 17.56 | 17.30 | 9.97 | 9.97 | 9.47 | 6.88 | 6.86 | 6.90 | 6.15 |
| 15 | 7.30 | 6.97 | 7.37 | 18.30 | 17.19 | 8.91 | 14.30 | 8.50 | 6.78 | 6.69 | 8.75 | 6.08 |
| 16 | 7.26 | 6.90 | 7.23 | 18.66 | 14.44 | 8.44 | 15.56 | 8.04 | 6.72 | 6.72 | 9.52 | 6.06 |
| 17 | 7.21 | 6.87 | 8.13 | 17.84 | 11.53 | 8.24 | 12.97 | 7.77 | 6.66 | 6.61 | 8.16 | 6.06 |
| 18 | 7.18 | 6.85 | 12.26 | 16.82 | 10.38 | 8.10 | 10.11 | 7.59 | 6.63 | 6.55 | 7.92 | 6.04 |
| 19 | 7.16 | 6.84 | 10.29 | 14.79 | 11.47 | 7.98 | 9.76 | 7.46 | 6.71 | 6.49 | 7.64 | 6.05 |
| 20 | 7.26 | 6.83 | 8.81 | 12.47 | 12.94 | 7.88 | 9.32 | 7.35 | 6.86 | 6.46 | 7.10 | 6.19 |
| 21 | 7.25 | 6.82 | 8.55 | 11.25 | 11.49 | 7.82 | 8.75 | 7.26 | 6.91 | 6.48 | 6.88 | 7.40 |
| 22 | 7.22 | 6.80 | 8.36 | 10.52 | 10.51 | 7.76 | 8.24 | 7.72 | 6.83 | 6.48 | 6.85 | 9.41 |
| 23 | 7.15 | 6.80 | 7.92 | 10.00 | 12.23 | 7.72 | 7.94 | 9.27 | 6.89 | 6.46 | 6.72 | 8.86 |
| 24 | 7.08 | 6.77 | 7.67 | 9.62 | 13.91 | 7.66 | 7.80 | 8.74 | 6.79 | 6.45 | 6.58 | 7.68 |
| 25 | 7.05 | 6.77 | 7.57 | 9.34 | 15.47 | 7.60 | 7.80 | 7.91 | 7.09 | 6.42 | 6.48 | 7.06 |
| 26 | 7.02 | 6.77 | 9.64 | 9.13 | 16.54 | 7.53 | 7.99 | 7.52 | 7.07 | 6.35 | 6.43 | 6.72 |
| 27 | 6.99 | 6.85 | 11.64 | 8.95 | 15.59 | 7.46 | 7.83 | 7.30 | 6.90 | 6.56 | 6.38 | 6.58 |
| 28 | 6.97 | 6.97 | 10.53 | 8.79 | 12.99 | 7.41 | 7.72 | 7.17 | 6.71 | 6.63 | 6.35 | 6.50 |
| 29 | 6.95 | 7.05 | 13.12 | 8.64 | --- | 7.37 | 7.81 | 7.17 | 6.63 | 6.55 | 6.30 | 6.38 |
| 30 | 6.94 | 6.94 | 15.81 | 9.54 | --- | 7.34 | 7.66 | 7.48 | 6.63 | 6.53 | 6.27 | 6.33 |
| 31 | 6.92 | --- | 15.90 | 12.49 | --- | 7.34 | --- | 7.17 | --- | 6.39 | 6.25 | --- |
| Max | 11.61 | 7.06 | 15.90 | 20.20 | 17.30 | 11.03 | 15.56 | 14.29 | 7.40 | 7.04 | 9.52 | 9.41 |
| Min | 6.92 | 6.77 | 6.79 | 8.64 | 8.50 | 7.34 | 7.39 | 7.17 | 6.63 | 6.35 | 6.20 | 6.04 |