

Rainfall Summary

Whitewater River Watershed - July 1999 to June 2019

| Annual Rainfall (inches) | | | | |
|--------------------------|---------|-----------|--------------|-----------|
| Year* | Banning | PalmSprgs | DesertHotSpr | Cath City |
| 1999 | 13.28 | 1.06 | 0.46 | 0.49 |
| 2000 | 17.12 | 3.48 | 3.24 | 1.83 |
| 2001 | 14.43 | 5.20 | 5.99 | 2.81 |
| 2002 | 6.02 | 0.70 | 0.74 | 0.55 |
| 2003 | 12.56 | 4.15 | 3.98 | 3.09 |
| 2004 | 8.69 | 4.23 | 4.34 | 2.87 |
| 2005 | 23.32 | 12.20 | 14.82 | 9.45 |
| 2006 | 11.77 | 3.61 | 5.75 | 3.21 |
| 2007 | 2.88 | 0.12 | 0.12 | 0.48 |
| 2008 | 13.76 | 5.25 | 5.15 | 4.27 |
| 2009 | 7.96 | 6.91 | 4.13 | 4.30 |
| 2010 | 14.71 | 7.88 | 7.61 | 5.70 |
| 2011 | 18.09 | 7.97 | 8.28 | 4.62 |
| 2012 | 10.50 | 2.67 | 1.79 | 1.25 |
| 2013 | 6.73 | 2.97 | 2.68 | 1.73 |
| 2014 | 7.67 | 3.25 | 0.97 | 1.11 |
| 2015 | 11.16 | 3.36 | 2.89 | 2.01 |
| 2016 | 9.75 | 4.11 | 3.96 | 2.78 |
| 2017 | 14.29 | 8.39 | 8.42 | 6.94 |
| 2018 | 6.15 | 4.29 | 2.58 | 2.39 |
| 2019 | 18.99 | 12.01 | 7.92 | 7.96 |

| Percent(%) of Normal = Current Year / Average Year | | | | | | |
|----------------------------------------------------|---------|-----------|--------------|-----------|---------|----------|
| Year * | Banning | PalmSprgs | DesertHotSpr | Cath City | Mean(4) | Result |
| 1999 | 82% | 18% | 9% | 12% | 30% | very dry |
| 2000 | 105% | 58% | 64% | 43% | 68% | dry |
| 2001 | 89% | 87% | 118% | 67% | 90% | normal |
| 2002 | 37% | 12% | 15% | 13% | 19% | very dry |
| 2003 | 77% | 69% | 78% | 73% | 75% | dry |
| 2004 | 53% | 71% | 85% | 68% | 69% | dry |
| 2005 | 143% | 204% | 292% | 224% | 216% | very wet |
| 2006 | 72% | 60% | 113% | 76% | 80% | dry |
| 2007 | 18% | 2% | 2% | 11% | 8% | very dry |
| 2008 | 85% | 88% | 101% | 101% | 94% | normal |
| 2009 | 49% | 115% | 81% | 102% | 87% | normal |
| 2010 | 90% | 132% | 150% | 135% | 127% | wet |
| 2011 | 111% | 133% | 163% | 109% | 129% | wet |
| 2012 | 65% | 45% | 35% | 30% | 43% | very dry |
| 2013 | 41% | 50% | 53% | 41% | 46% | very dry |
| 2014 | 47% | 54% | 19% | 26% | 37% | very dry |
| 2015 | 69% | 56% | 57% | 48% | 57% | dry |
| 2016 | 60% | 69% | 78% | 66% | 68% | dry |
| 2017 | 88% | 140% | 166% | 164% | 140% | very wet |
| 2018 | 38% | 72% | 51% | 57% | 54% | dry |
| 2018 | 117% | 201% | 156% | 189% | 165% | very wet |

* Fiscal Year = July 01 thru June 30

| Station Information | | | | |
|---------------------|-------|-------|-------|----------|
| Name | ID No | Avg | Years | Location |
| Banning | 012 | 16.27 | 105 | 3S/1E-14 |
| PalmSprgs | 142 | 5.99 | 83 | 4S/4E-15 |
| DesertHotSpr | 057 | 5.08 | 62 | 2S/4E-25 |
| Cath City | 034 | 4.22 | 71 | 4S/5E-33 |

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Daily Rainfall for Fiscal Year 2018-2019 (inches) **

Whitewater River Watershed

| Day | Jul | | | | | Aug | | | | | Sep | | | | |
|-------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|
| | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave |
| 1 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 2 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 3 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 4 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 5 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 6 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 7 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 8 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 9 | | 0.70 | | | 0.18 | | | 0.01 | | 0.00 | | | | | 0.00 |
| 10 | | | | 0.08 | 0.02 | | | | | 0.00 | | | | | 0.00 |
| 11 | | 1.50 | | | 0.38 | | | | | 0.00 | | | | | 0.00 |
| 12 | | | 0.13 | 0.05 | 0.05 | | | | | 0.00 | | | | | 0.00 |
| 13 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 14 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 15 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 16 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 17 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 18 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 19 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 20 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 21 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 22 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 23 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 24 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 25 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 26 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 27 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 28 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 29 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 30 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 31 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Sum | 0.00 | 2.20 | 0.13 | 0.13 | | 0.00 | 0.00 | 0.01 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total | 0.00 | 2.20 | 0.13 | 0.13 | | 0.00 | 2.20 | 0.14 | 0.13 | | 0.00 | 2.20 | 0.14 | 0.13 | |

** 24 Hour Precip Period (8am to 8am)

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Daily Rainfall for Fiscal Year 2018-2019 (inches) **

Whitewater River Watershed

| Day | Oct | | | | | Nov | | | | | Dec | | | | |
|-------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|
| | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave |
| 1 | | | | | 0.00 | | | | | 0.00 | 0.01 | | | 0.01 | 0.01 |
| 2 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 3 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 4 | | | | 0.02 | 0.01 | | | | | 0.00 | | | | | 0.00 |
| 5 | | | | | 0.00 | | | | | 0.00 | | 0.77 | | | 0.19 |
| 6 | | | | | 0.00 | | | | | 0.00 | 0.20 | | 0.16 | 0.17 | 0.13 |
| 7 | | | | | 0.00 | | | | | 0.00 | 1.36 | | 0.38 | 0.54 | 0.57 |
| 8 | | | | | 0.00 | | | | | 0.00 | | | 0.01 | 0.01 | 0.01 |
| 9 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 10 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 11 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 12 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 13 | 0.25 | 0.42 | 1.09 | 1.53 | 0.82 | | | | | 0.00 | | | | | 0.00 |
| 14 | 0.10 | | | | 0.03 | | | | | 0.00 | | | | | 0.00 |
| 15 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 16 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 17 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 18 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 19 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 20 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 21 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 22 | | | | | 0.00 | 0.10 | | | | 0.03 | | | | | 0.00 |
| 23 | | | | | 0.00 | 0.01 | | | | 0.00 | | | | | 0.00 |
| 24 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 25 | | | | | 0.00 | | | | | 0.00 | 0.01 | | | | 0.00 |
| 26 | | | | | 0.00 | | | | | 0.00 | 0.17 | | | | 0.04 |
| 27 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 28 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 29 | | | | | 0.00 | 0.06 | 0.40 | | | 0.12 | | | | | 0.00 |
| 30 | | | | | 0.00 | 1.25 | | 0.15 | 0.03 | 0.36 | | | | | 0.00 |
| 31 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Sum | 0.35 | 0.42 | 1.09 | 1.55 | | 1.42 | 0.40 | 0.15 | 0.03 | | 1.75 | 0.77 | 0.55 | 0.73 | |
| Total | 0.35 | 2.62 | 1.23 | 1.68 | | 1.77 | 3.02 | 1.38 | 1.71 | | 3.52 | 3.79 | 1.93 | 2.44 | |

** 24 Hour Precip Period (8am to 8am)

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Daily Rainfall for Fiscal Year 2018-2019 (inches) **

Whitewater River Watershed

| Day | Jan | | | | | Feb | | | | | Mar | | | | |
|-------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|
| | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave |
| 1 | | | | | 0.00 | 0.58 | | 0.09 | 0.11 | 0.20 | | | | | 0.00 |
| 2 | | | | | 0.00 | 0.08 | | 0.09 | 0.09 | 0.07 | 0.20 | 0.01 | 0.05 | | 0.07 |
| 3 | | | | | 0.00 | 1.57 | 1.08 | 1.20 | 0.35 | 1.05 | 0.14 | | | | 0.04 |
| 4 | | | | | 0.00 | 0.13 | 0.01 | | | 0.04 | | | | | 0.00 |
| 5 | | | | | 0.00 | 0.87 | | 0.01 | | 0.22 | | | | | 0.00 |
| 6 | 0.76 | | 0.23 | 0.12 | 0.28 | 0.35 | | | | 0.09 | 0.24 | 0.08 | 0.13 | 0.02 | 0.12 |
| 7 | | | | | 0.00 | | | | | 0.00 | 0.28 | | | | 0.07 |
| 8 | | | | | 0.00 | | | | | 0.00 | 0.07 | | | | 0.02 |
| 9 | | | | | 0.00 | | | | | 0.00 | 0.01 | | | | 0.00 |
| 10 | | | | | 0.00 | 0.06 | | | | 0.02 | | | | | 0.00 |
| 11 | | 0.42 | | | 0.11 | 0.20 | | | | 0.05 | | 0.24 | | | 0.06 |
| 12 | 0.02 | | 0.02 | 0.03 | 0.02 | | | | | 0.00 | 0.41 | 0.06 | 0.31 | 0.26 | 0.26 |
| 13 | 0.24 | | 0.01 | 0.02 | 0.07 | | | | | 0.00 | | | | 0.01 | 0.00 |
| 14 | | | | | 0.00 | 2.29 | 2.02 | 0.82 | 1.31 | 1.61 | | | | | 0.00 |
| 15 | 0.45 | 0.86 | 0.82 | 0.69 | 0.71 | 2.34 | 2.74 | 1.30 | 1.84 | 2.06 | | | | | 0.00 |
| 16 | 0.57 | 0.22 | 0.18 | 0.23 | 0.30 | 0.24 | | | 0.01 | 0.06 | | | | | 0.00 |
| 17 | 0.15 | 0.03 | 0.02 | | 0.05 | | 0.09 | | | 0.02 | | | | | 0.00 |
| 18 | 0.42 | 0.07 | 0.38 | 0.20 | 0.27 | 0.29 | 0.09 | 0.06 | 0.10 | 0.14 | | | | | 0.00 |
| 19 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 20 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 21 | | | | | 0.00 | 0.11 | | 0.14 | 0.04 | 0.07 | 0.24 | | | | 0.06 |
| 22 | | | | | 0.00 | 0.01 | | 0.06 | 0.06 | 0.03 | 0.06 | | | | 0.02 |
| 23 | | | | | 0.00 | | | | 0.01 | 0.00 | | | | | 0.00 |
| 24 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 25 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 26 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 27 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 28 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 29 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 30 | | 0.10 | | | 0.03 | | | | | 0.00 | | | | | 0.00 |
| 31 | | 0.10 | | | 0.03 | | | | | 0.00 | | | | | 0.00 |
| Sum | 2.61 | 1.80 | 1.66 | 1.29 | | 9.12 | 6.03 | 3.77 | 3.92 | | 1.65 | 0.39 | 0.49 | 0.29 | |
| Total | 6.13 | 5.59 | 3.59 | 3.73 | | 15.25 | 11.62 | 7.36 | 7.65 | | 16.90 | 12.01 | 7.85 | 7.94 | |

** 24 Hour Precip Period (8am to 8am)

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Daily Rainfall for Fiscal Year 2018-2019 (inches) **

Whitewater River Watershed

| Day | Apr | | | | | May | | | | | Jun | | | | |
|---------------------------------------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|---------|-----------|-----------|-----------|------|
| | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave | Banning | Palm Sprg | Desert HS | Cath City | Ave |
| 1 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 2 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 3 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 4 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 5 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 6 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 7 | | | | | 0.00 | 0.16 | | | | 0.04 | | | | | 0.00 |
| 8 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 9 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 10 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 11 | | | | | 0.00 | | | 0.06 | | 0.02 | | | | | 0.00 |
| 12 | | | | | 0.00 | 0.01 | | 0.01 | | 0.01 | | | | | 0.00 |
| 13 | | | | | 0.00 | 0.01 | | | | 0.00 | | | | | 0.00 |
| 14 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 15 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 16 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 17 | | | | | 0.00 | 0.04 | | | | 0.01 | | | | | 0.00 |
| 18 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 19 | | | | | 0.00 | 0.30 | | | | 0.08 | | | | | 0.00 |
| 20 | | | | | 0.00 | 0.59 | | | | 0.15 | | | | | 0.00 |
| 21 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 22 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 23 | | | | | 0.00 | 0.53 | | | 0.02 | 0.14 | | | | | 0.00 |
| 24 | | | | | 0.00 | 0.03 | | | | 0.01 | | | | | 0.00 |
| 25 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 26 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 27 | | | | | 0.00 | 0.29 | | | | 0.07 | | | | | 0.00 |
| 28 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 29 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| 30 | 0.13 | | | | 0.03 | | | | | 0.00 | | | | | 0.00 |
| 31 | | | | | 0.00 | | | | | 0.00 | | | | | 0.00 |
| Sum | 0.13 | 0.00 | 0.00 | 0.00 | | 1.96 | 0.00 | 0.07 | 0.02 | | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total | 17.03 | 12.01 | 7.85 | 7.94 | | 18.99 | 12.01 | 7.92 | 7.96 | | 18.99 | 12.01 | 7.92 | 7.96 | |
| ** 24 Hour Precip Period (8am to 8am) | | | | | | | | | | | | | | | |