

STORM AND FLOOD OF 14-15 AUGUST 1990

Meteorology -- Tropical Storm/Hurricane Remnant

Rainfall -- Over 3 inches of rain fell in parts of the valley over two days with broad areas experiencing between 1 and 2 inches.

Runoff -- Significant runoff in Cave Creek, Skunk Creek, the ACDC, New River, lower Hassayampa River, South Mountain, Dreamy Draw, Indian Bend Wash, and Centennial Wash. Flows in most of these washes was above 2,000 cfs. In addition most of the District's dams experienced minor impoundments, while Dreamy Draw Dam recorded one of the highest impoundments since its construction in 1974 (17.4 ft). In addition to the wash flows, street flooding was common with many areas.

Flooded Area -- In addition to extensive street flooding around the County, the hardest hit areas were in Peoria, Glendale, and the Laveen area.

Summary of Damages -- Some residential and business flooding, irrigation canal and roadway damage. 20 homes evacuated near 51st Ave and Dobbins.

(Information from FCDMC report by Carol Davis entitled "Monsoon Season, 1990, Maricopa County" and District's ALERT database)

Summary of USGS Peak Streamflow estimates for Storm of 8/14-15/90:

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|----------------------------------|-----------|
| Cave Creek above Arizona Canal | 3,370 cfs |
| New River @ Bell Road | 567 cfs |
| Skunk Creek @ I-17 | 2,900 cfs |
| New River @ Glendale Road | 2,600 cfs |
| Hassayampa River near Arlington | 2,120 cfs |
| Centennial Wash @ SPRR | 2,630 cfs |
| Salt R. Tributary in S. Mtn Park | 1,210 cfs |

Other Streamflow Estimates

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|-----------------|-----------|--|
| ACDC @ 43rd Ave | 2,780 cfs | estimated by FCD from field observations |
| ACDC @ 67th Ave | 2,200 cfs | estimated by FCD from field observations |

STORM AND FLOOD OF 3-4 SEPTEMBER 1990

Meteorology -- Unknown

Rainfall -- See Table 1 from C. Davis' report and map.

Runoff -- Significant runoff in many of the same areas affected by the Aug. 14-15 storm which occurred just a few weeks earlier. The most significant flows occurred in the New River near Glendale Ave. where 10,000 cfs is estimated to have flowed through. In addition to the wash flows, street flooding was again very common with many areas but especially in the west valley areas of Peoria and Glendale north of Thunderbird Road.

Flooded Area -- Again, some of the hardest hit areas were in Peoria and Glendale. Street flooding of 1.75 ft was reported at 59th Ave between Glendale and Northern Avenues. Flow waves 3 ft high were reported at 7th Ave. and Union Hills. Homes were reported flooded in the area of 83rd Ave. and Edward.

Summary of Damages -- As in August, homes and businesses were flooded in addition to the streets.

(Information from FCDMC report by Carol Davis entitled "Monsoon Season, 1990, Maricopa County" and District's ALERT database)

Summary of USGS Peak Streamflow estimates for Storm of 9/3-4/90

| | |
|----------------------------------|------------|
| New River @ Bell Road | 2,000 cfs |
| Skunk Creek @ I-17 | 2,090 cfs |
| New River @ Glendale Road | 10,000 cfs |
| Hassayampa River near Morristown | 6,280 cfs |
| Centennial Wash @ SPRR | 700 cfs |