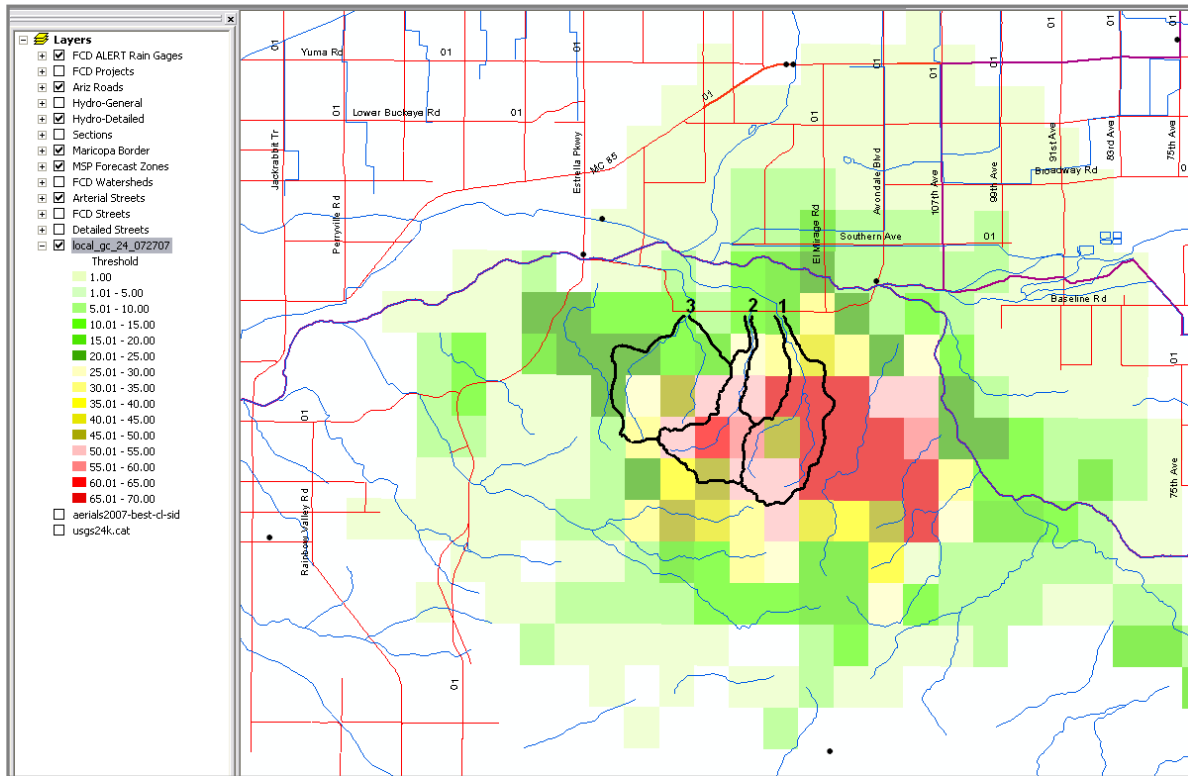
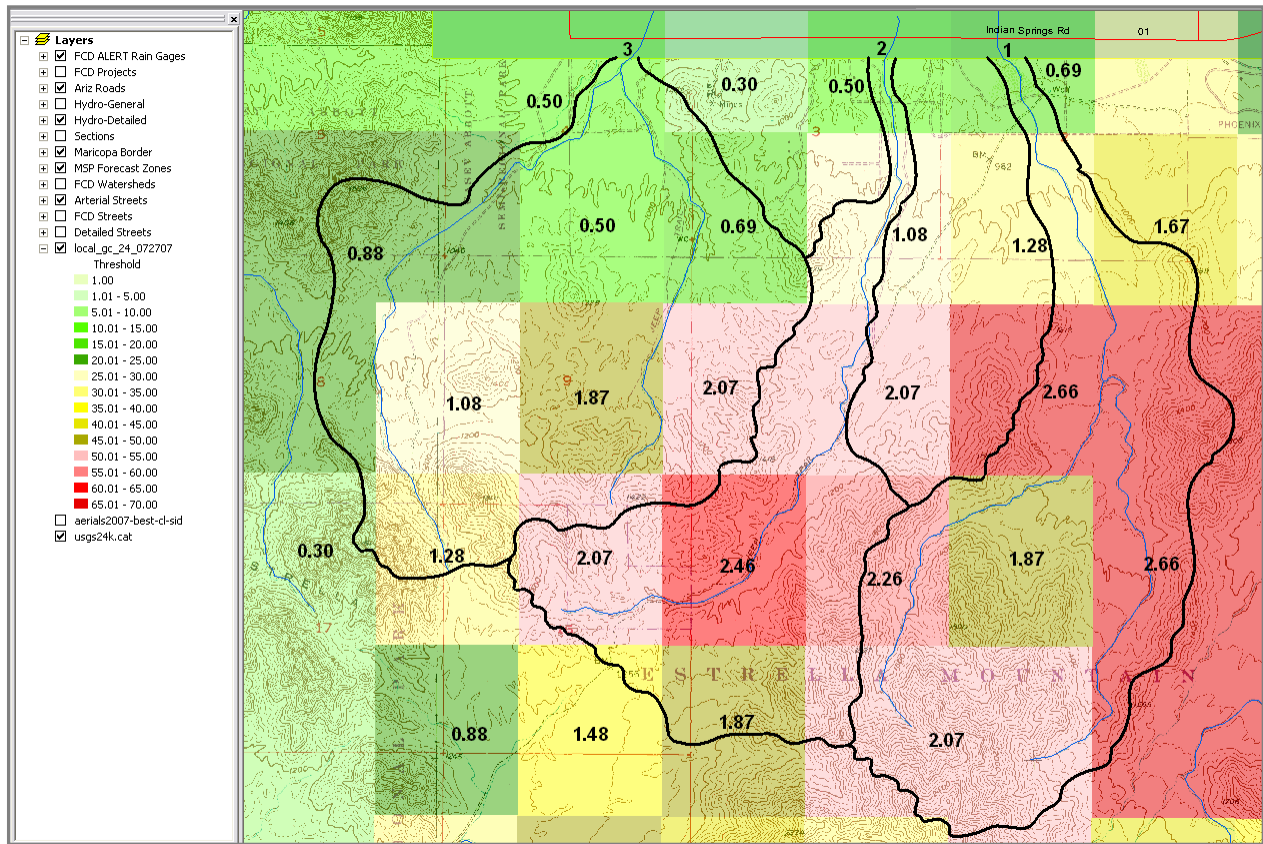


Storm of July 26, 2007 In the Area of Indian Springs Road West of Phoenix International Raceway



The storm depicted above occurred on July 26, 2007 from approximately 16:45 through 18:00 MST, with the majority of rain falling in a 1-hour period. It formed in a moist and unstable environment over the northern Estrella Mountains and moved very little after its formation. The colored grid above represents rainfall estimates from weather radar that are adjusted using FCDMC raingage data. The raingage at Avondale Blvd. and the Gila River (black dot on the map) recorded 0.36 inches (9mm). The colored scale on the left is in millimeters of rain. The heavy black lines are watershed boundaries for washes that I have labeled 1, 2 and 3. On the evening of July 26, a pickup truck driven by a teenager, carrying four younger siblings, slid off Indian Springs Road due to floodwaters from Wash #1 and flipped over near the western-most PIR parking lots. All were rescued and there were no serious injuries. It appears from news video that the driver lost control of the vehicle due to speed and hydroplaning rather than from the depth of flow.



This map is a zoom of the previous map, with a topographic background and the estimated rainfall amounts in inches labeled on the grid cells. This map suggests that Watershed #1, above Wash #1, received that highest rainfall amounts over the greatest area. In this area of the County the 100-year, 1-hour rainfall is 2.09 inches and the 500-year, 1-hour rainfall is 2.63 inches. Much of the areas of watersheds 1 and 2 received rainfall comparable to these magnitudes.



These are aerial photos of the wash crossings. Wash #3 below is west of washes 1 and 2 above. The striped areas east of Wash #1 are the western parking areas for PIR.





These photos show the crossing point of Wash #1 with Indian Springs Road. The four culverts were likely overtopped during the event of 7/26/07, and water flowed over the road from south to north. There is not much of a swale at the crossing so the water was likely less than 1 foot deep, but the flooded area was likely much wider than the culverts or the wash itself.





These photos show the crossing point of Wash #2 with Indian Springs Road. The six culverts were likely overtopped during the event of 7/26/07, and water flowed over the road from south to north. Again, there is not much of a swale at the crossing so the water was likely less than 1 foot deep, but the flooded area was likely much wider than the culverts or the wash itself.





These two photos of Wash #3 show a more dangerous condition for vehicles than exists at either Wash # 1 or 2. There are no culverts, and a pronounced swale can easily allow for crossing depths of 2 to 3 feet. Had the storm been centered over the watershed feeding this crossing, a life-threatening condition would have surely developed.

