

Hydrologic Characteristics of each Condition Class

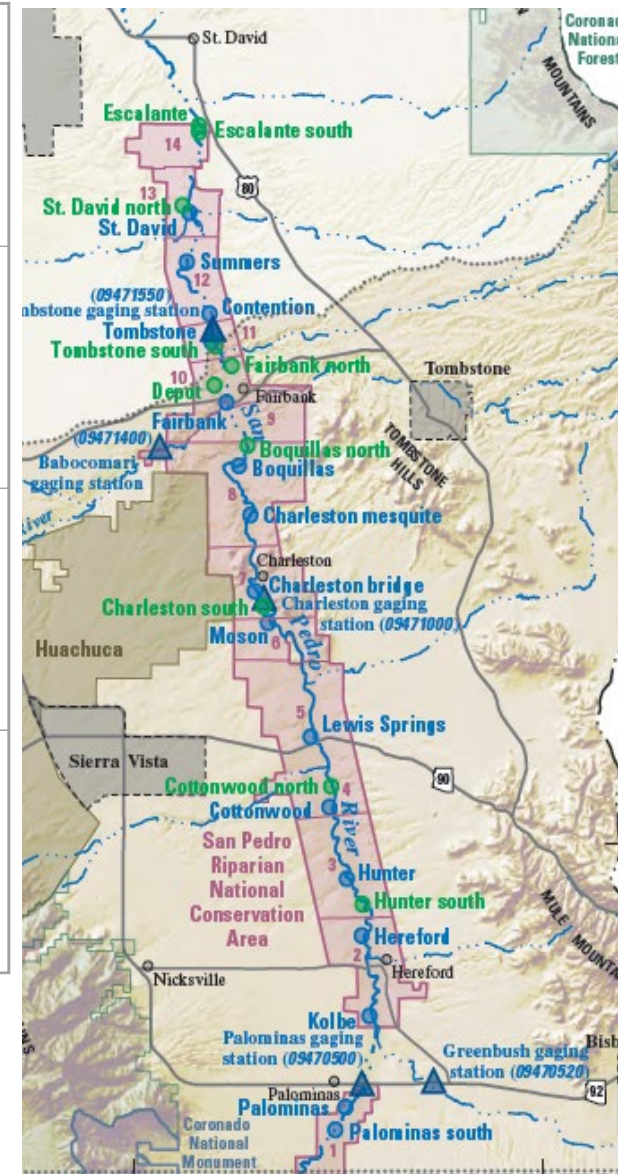
| Cond. Class (CC) | Flow Permanence (1) | Dry Seasonal Max. Depth to GW (ft) (2) | GW Fluctuation (ft) (3) | Percent of SPRNCA (4) |
|------------------|-------------------------------|--|--|-----------------------|
| 1 | Intermittent-Dry (< 60%) | Deep (> 11.5 ft) | Large (> 3.3 ft Diff. between monthly max and min) | 9% |
| 2 | Intermittent-Wet (60% to 95%) | Moderately Shallow (8.2 - 11.5 ft) | Moderate (1.7 to 3.3 ft) | 49% |
| 3 | Perennial (> 95%) | Shallow (< 8.2 ft) | Small - Stable (< 1.7 ft difference) | 38% |

(1) 0% = no flow the entire year, 100% = surface flow entire year

(2) Dry-season mean as averaged across the floodplain

(3) As averaged across the floodplain

(4) 4% of the SPRNCA has not yet been adequately sampled



Condition Class 3 (wettest)

38% of SPRNCA

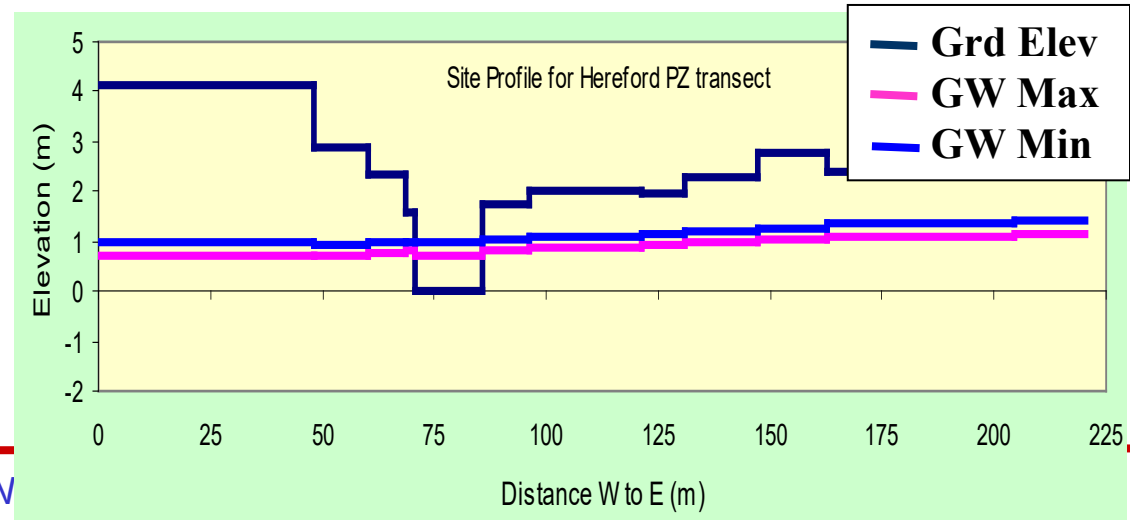
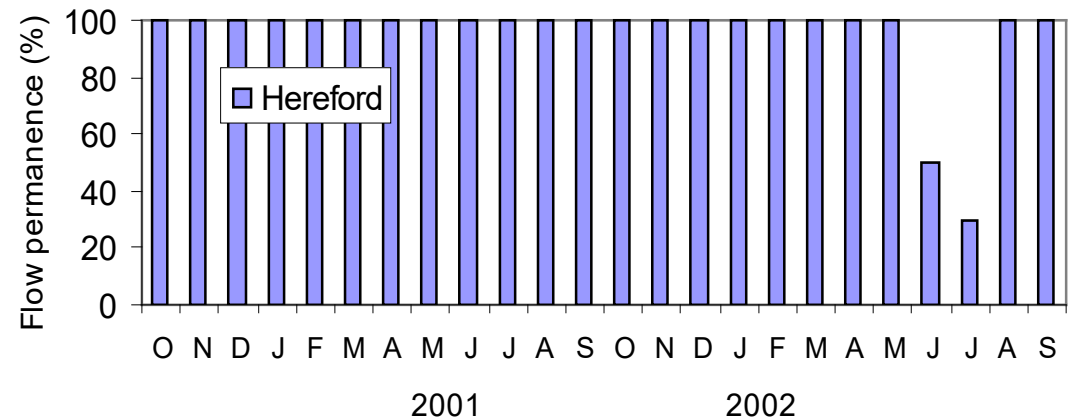
Perennial or near-perennial stream flow (present >95% of time)

Shallow ground-water (mean depth of <2.5 m across floodplain during dry season) with little seasonal fluctuation (<0.5 m/yr)

Tall, dense, multi-aged cottonwood-willow forests

Tamarisk subdominant or absent

Channel lined by dense herbaceous cover



Cond. Class 2 (intermediate)

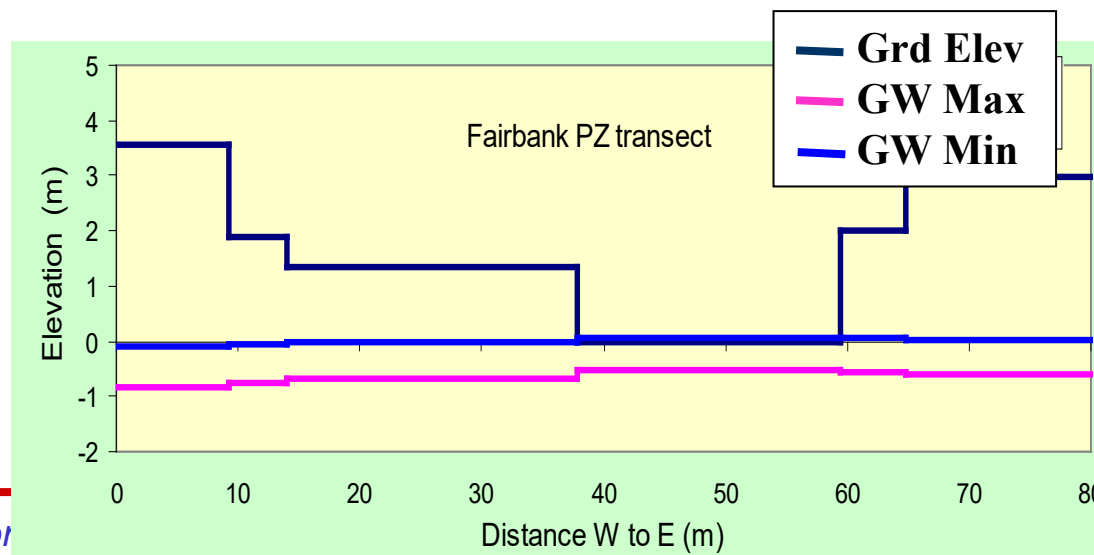
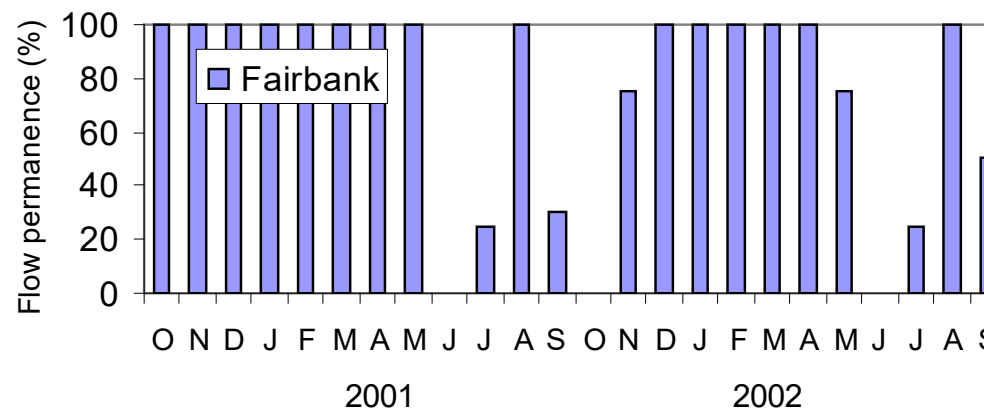
49% of SPRNCA

Stream flow present 60%-95% of time

Moderately deep and fluctuating ground water

Tamarisk has increased, although cottonwood-willow still dominant.

Streamside herbaceous cover is reduced, and mesic herb species have replaced hydric species.



Condition Class 1 (driest)

9% of SPRNCA

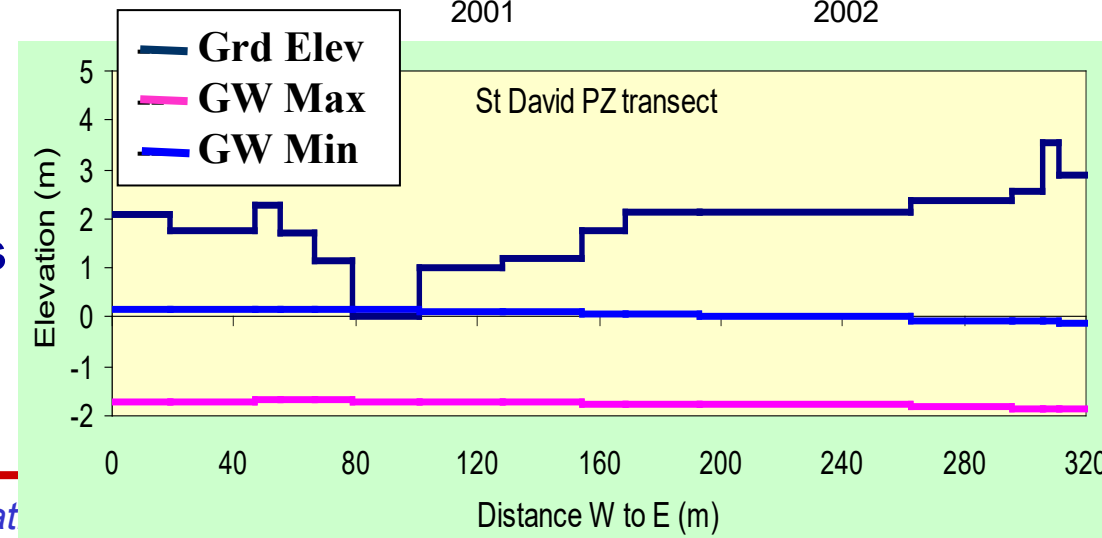
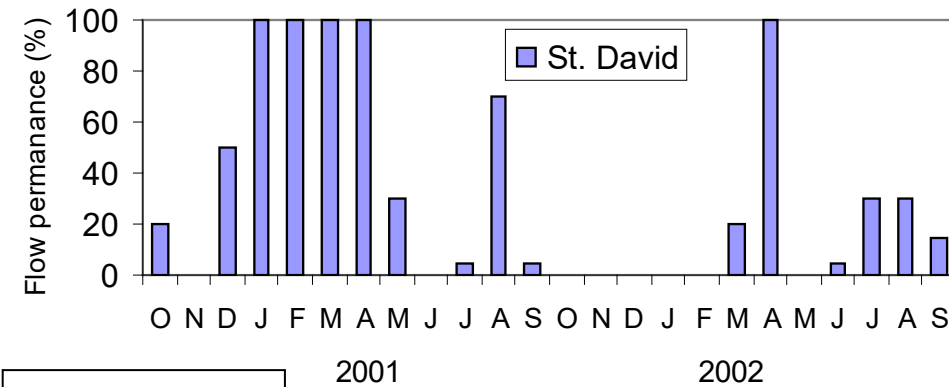
Stream flow present <60% of time

Deep (>3.5 m in dry season) and highly fluctuating (>1 m/yr) GW

Tamarisk dominant

Short shrublands with limited upper canopy cover

Sparse streamside herbaceous cover, dominated by mesic species such as bermuda grass



Monitoring of Flow Permanence

| Reach # | Site Name | Number of Cameras | Streamflow gauges | Comments |
|---------|-------------------|-------------------|-------------------|---|
| 1 | Palominas | | 1 | |
| 2 | Hereford | 1 | | |
| 3 | Hunter | 1 | | |
| 4 | Cottonwood | | | perennial in Leenhouts report |
| 5 | Lewis Springs | | 1 | stage only, but perennial |
| 6 | Moson | 1 | | perennial |
| 7 | Charleston | | 1 | perennial |
| 8 | Boquillas | 2 | | perennial |
| 9 | Fairbank South | 1 | | not sure if camera is here or in FN |
| 10 | Fairbank North | | | |
| 11 | Tombstone | | 1 | |
| 12 | Contention | 1 | | |
| 13 | St. David | 1 | | |
| 14 | Escalante | | | has never been monitored, even in Leenhouts |

