

Safe Yield Definition (Statute)

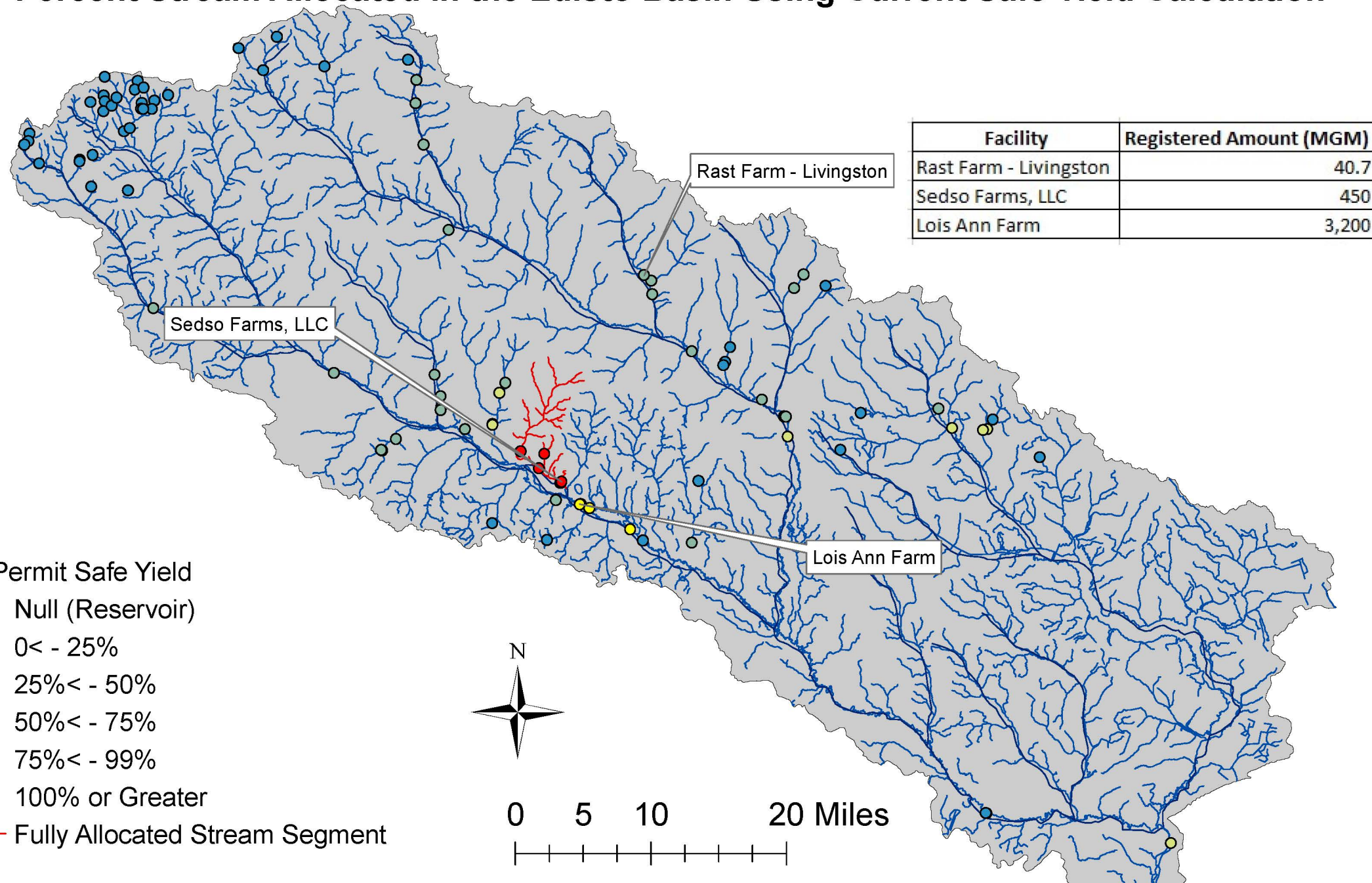
The amount of water available for withdrawal from a particular surface water source in excess of the minimum instream flow or minimum water level for that surface water source. Safe yield is determined by comparing the natural and artificial replenishment of the surface water to the existing or planned consumptive and nonconsumptive uses.

Safe Yield Calculation (Regulation)

For withdrawals in a stream segment not influenced by a licensed or otherwise flow controlled impoundment:

the safe yield is calculated as the difference between the mean annual daily flow and twenty (20) percent of mean annual daily flow at the withdrawal point, taking into consideration natural and artificial replenishment of the surface water and affected downstream withdrawals.

Percent Stream Allocated in the Edisto Basin Using Current Safe Yield Calculation



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Guinyard Landing South Fork of Edisto

- Registration Issued 559.49 MGM
- Original Registration Request 5,322 MGM
- Unadjusted Safe Yield (80% Mean Annual Daily Flow) 6,921 MGM
- SY adjusted for Upstream Withdrawals (6,921-1,421) 5,500 MGM

Guinyard Landing South Fork of Edisto

- Examined the impact of proposed registration on the ability of downstream users to withdrawal full permitted or registered amount under “normal flow conditions” (75% Exceedance)
- Cope Generating Station was identified as the pinch point.
- MIF was not considered as Grandfathered Permits are not subject

Guinyard Landing South Fork of Edisto

- UIF flow from SWAM were examined. Permitted Withdrawals and Discharges were added

Table 1: 75% Exceedance values for the Cope USGS Gage UIF data for each month with all current upstream registrations and permits removed and discharges added (in cfs)

Percent Exceedance	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
75	430.59	439.81	489.02	344.96	124.67	86.45	35.73	36.28	28.46	52.61	144.44	301.66

- Remaining at Cope Station in September is 28.46 CFS (559.49 MGM)

Percent of Safe Yield Allocated

