**USGS Gauge ID: 02297310 USGS Gauge ID: 02300017 USGS Gauge ID: 02300100** Horse Creek at SR 72 near Arcadia, FL Gamble Creek at Co Rd. 675 near Parrish, FL Little Manatee River near Ft. Lonesome, FL Used Obs (cms) 45 Used Obs (cms) Used Obs (cms) Rejected Obs: -0% Rejected Obs: 22% Rejected Obs: 15% 20-mem EnKF OL RMSE: 4.99 OL RMSE: 39.77 OL RMSE: 3.74 35 Prior Ensemble Prior Ensemble Prior Ensemble 125 1000 ■ Prior RMSE: 12.95 Prior RMSE: 3.36 Prior RMSE: 3.67 25 Post Ensemble Post Ensemble Post Ensemble Post RMSE: 7.91 Post RMSE: 3.22 Post RMSE: 3.30 75 500 15 25 2 Sep 28 Sep 29 Sep 28 Oct 01 Sep 27 Sep 30 Oct 02 Oct 05 Oct 08 Oct 01 Oct 03 Oct 01 Sep 25 Sep 29 45 Used Obs (cms) Used Obs (cms) Used Obs (cms) RD-ENKF Rejected Obs: -0% Rejected Obs: -0% Rejected Obs: 5% OL RMSE: 39.77 OL RMSE: 3.74 OL RMSE: 4.99 35 Prior Ensemble Prior Ensemble Prior Ensemble 1000 Prior RMSE: 11.78 Prior RMSE: 1.64 Prior RMSE: 1.90 25 Post Ensemble Post Ensemble Post Ensemble 20-mem Post RMSE: 6.11 Post RMSE: 0.76 Post RMSE: 0.61 75 500 15 25 2 Sep 28 Sep 29 Sep 28 Oct 02 Oct 01 Oct 08 Oct 01 Oct 03 Sep 30 Oct 01 Sep 25 Oct 05 Sep 27 Sep 29