County-Level Predictions: Test Sample 10 -Actual eNET ( $R^2 = 0.495$ , RMSE<sub>cv</sub> = 0.336) RF ( $R^2 = 0.834$ , RMSE<sub>cv</sub> = 0.286)  $XGB (R^2 = 0.860, RMSE_{cv} = 0.258)$ 8 Outage Duration (log-hrs) 4 2 1000 2000 500 1500 0 Outage Index (event x county)