FIPS 6037 cases ~ bs(date, 8) + dayofweek + log(po cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek fit.cases\$fitted.values 5000 fit.cases\$fitted.values 5000 -7500 cases 2500 -2500 -2500 cases -2500 **-**-2500 **-**150 50 50 150 150 200 50 200 100 200 100 100 date date date

FIPS 6073 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(pop cases ~ bs(date, 8) + dayofweek 600 -600 -1000 -300 -300 -750 cases\$fitted -300 --300 -250 **-**50 50 50 150 150 200 150 200 100 200 100 100 date date date

FIPS 6059 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(pop 500 -500 -1000 fit.cases\$fitted. fit.cases\$fitted 500 ses -250 ses -250 --500 **-**-500 **-**50 150 50 150 150 50 100 100 100 200 200 200 date date date

FIPS 6065 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(po values fit.cases\$fitted.values 500 -500 -1500 cases\$fitted. cases 1000 --500 **-**-500 **-**500 --1000 **-**-1000 **-**50 150 50 100 150 200 50 150 200 100 200 100 date date date

FIPS 53033 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(pop it.cases\$fitted.values cases\$fitted.values 300 -100 -Sases 200 -100 --100 **-**-100 **-**0 --200 **-**-200 **-**50 100 150 50 150 50 150 100 200 100 200 200 date date date

FIPS 6071 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(pop 2000 values values - 0001 1500 fit.cases\$fitted fit.cases\$fitted 500 ses 2000 -500 **-**-500 **-**-500 **-**50 50 50 150 200 150 200 100 200 100 150 100 date date date

FIPS 6085 cases ~ bs(date, 8) + dayofweek + log(pop cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek 400 -400 fit.cases\$fitted.values fit.cases\$fitted.values 600 -200 -200 cases 200 --200 **-**-200 **-**50 50 50 150 100 150 150 200 100 200 200 100 date date date

FIPS 6001 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(popu cases ~ bs(date, 8) + dayofweek fit.cases\$fitted.values - fit.cases\$fitted.values 900 cases 300 cases cases 50 150 50 50 150 200 100 200 100 150 200 100 date date date

FIPS 6067 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(pop cases ~ bs(date, 8) + dayofweek 600 -600 -1200 -.values cases\$fitted.values 300 -300 cases\$fitted 800 -400 --300 **-**-300 **-**-600 **-**-600 **-**50 50 150 50 200 150 100 150 200 100 100 200 date date date

FIPS 6013 cases ~ bs(date, 8) + dayofweek cases ~ bs(date, 8) + dayofweek + log(pop cases ~ bs(date, 8) + dayofweek 200 -200 -400 fit.cases\$fitted.values fit.cases\$fitted.values 100 -300 -Sases -100 ses -100 -100 -50 50 50 150 150 200 150 200 100 200 100 100 date date date