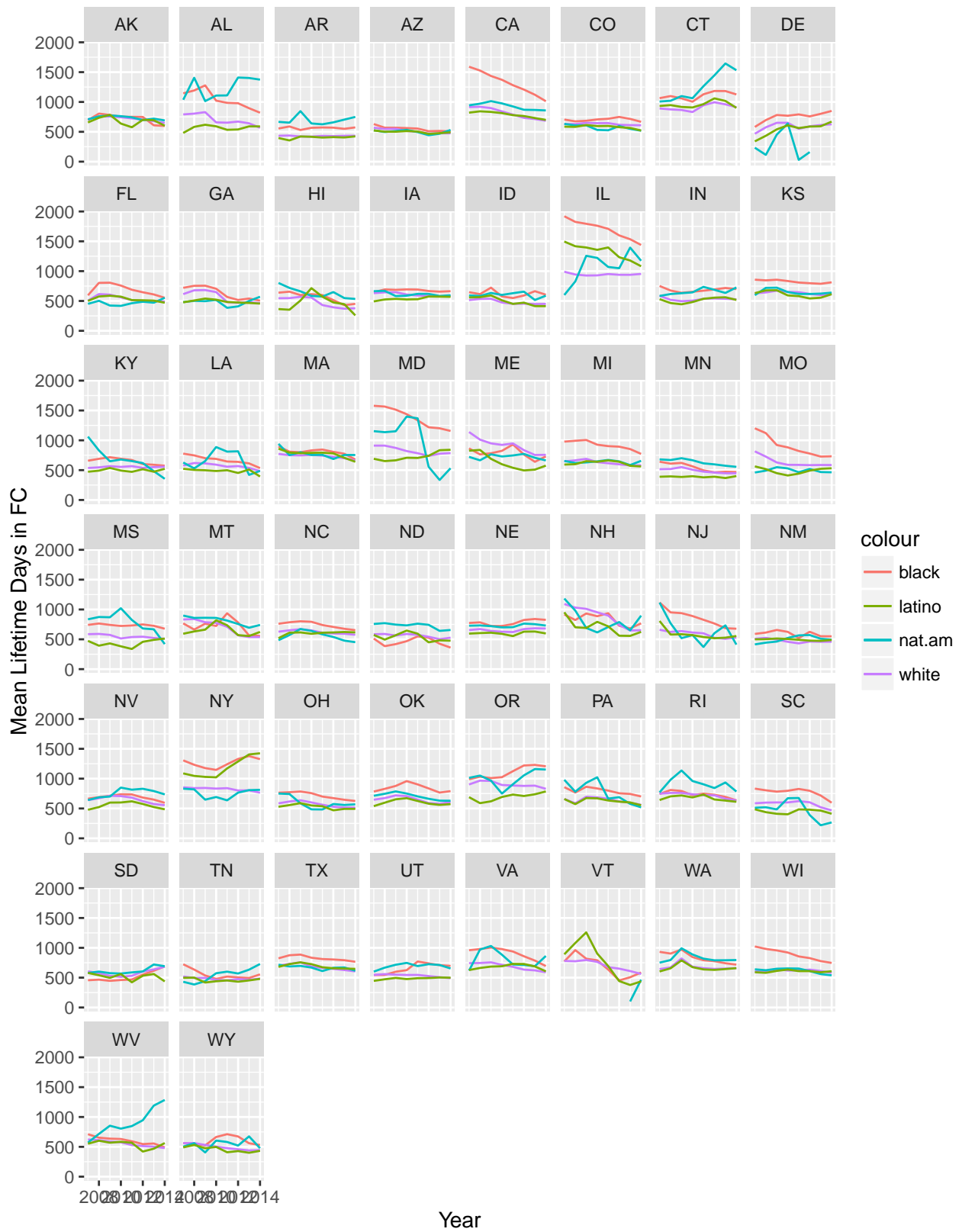# cw-race-models-eda

Frank Edwards
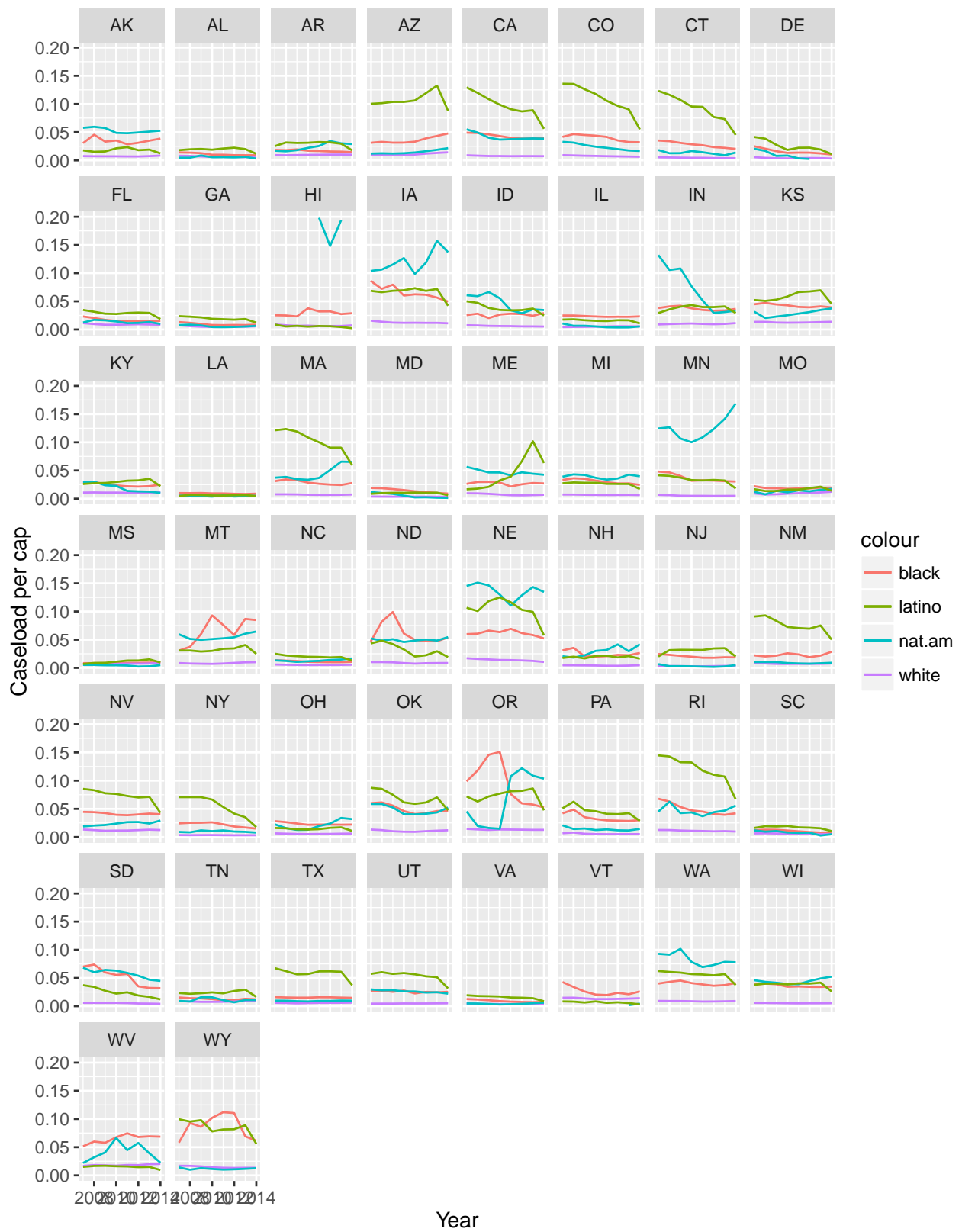
June 1, 2016

```
## Warning in left_join_impl(x, y, by$x, by$y): joining character vector and
## factor, coercing into character vector

## Warning in left_join_impl(x, y, by$x, by$y): joining factor and character
## vector, coercing into character vector
```
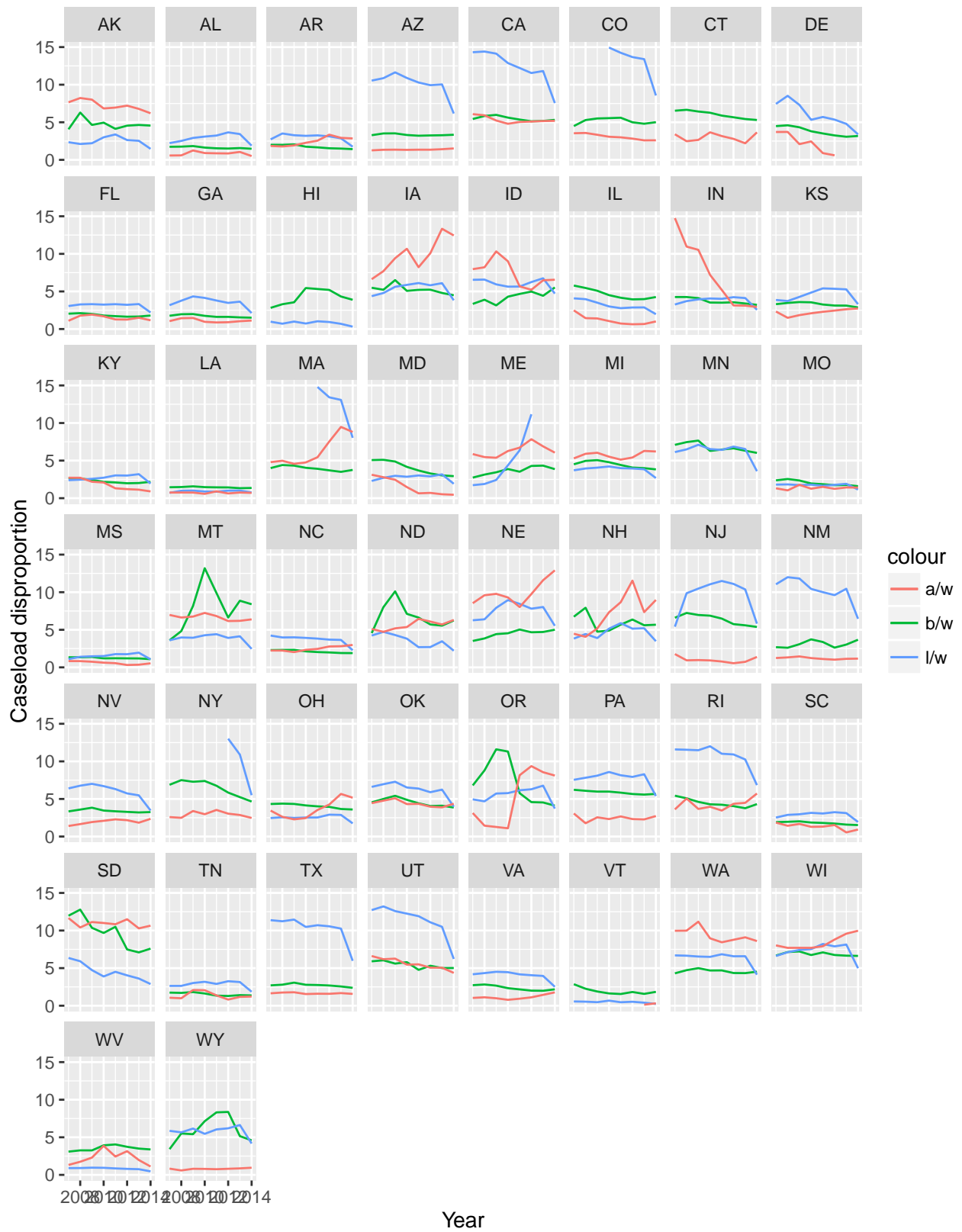
Lifetime mean days in FC by race

Caseload per cap / Year

Black, Latino, Am Indian / White disp.

```
## Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control
```

	Model 1
(Intercept)	1.25***
	(0.06)
scale(chpovrt)	−0.08*
	(0.03)
scale(incarrt)	0.00
	(0.02)
scale(bdisp.chpov)	0.04*
	(0.02)
scale(pop.imm.1910)	0.12*
	(0.05)
scale(pop.blk.1910)	−0.19*
	(0.08)
scale(pctblk)	−0.03
	(0.08)
bs.trueTRUE	0.26**
	(0.09)
year.c	−0.01*
	(0.01)
AIC	-287.04
BIC	-235.41
Log Likelihood	156.52
Num. obs.	392
Num. groups: stname	49
Var: stname (Intercept)	0.10
Var: stname year.c	0.00
Cov: stname (Intercept) year.c	-0.01
Var: Residual	0.01

$^{***}p < 0.001$, $^{**}p < 0.01$, $^{*}p < 0.05$

Table 1: Outcome: log(B/W FC caseload per cap), state intercepts, state|year slopes

	Model 1
(Intercept)	−3.63***
	(0.07)
scale(chpovrt)	−0.06
	(0.03)
scale(incarrt)	0.02
	(0.02)
scale(bdisp.chpov)	0.02
	(0.02)
scale(pop.imm.1910)	−0.02
	(0.06)
scale(pop.blk.1910)	−0.05
	(0.10)
scale(pctblk)	−0.41***
	(0.09)
bs.trueTRUE	0.27*
	(0.11)
year.c	−0.03***
	(0.01)
AIC	5578.99
BIC	5630.61
Log Likelihood	-2776.49
Num. obs.	392
Num. groups: obs	392
Num. groups: stname	49
Var: obs (Intercept)	0.01
Var: stname (Intercept)	0.13
Var: stname year.c	0.00
Cov: stname (Intercept) year.c	-0.01

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table 2: Outcome: Black FC caseload (count), state intercepts, state|year slopes

```
## $checkConv, : Model failed to converge with max|grad| = 0.0019527 (tol =
## 0.001, component 1)
```