

**Supporting Information for:**  
**Dynamic spatiotemporal modeling of a habitat defining plant  
species to support wildlife management at regional scales**

ANDREW T. TREDENNICK, THOMAS PREBYL, ADRIAN P. MONROE, JOHN LOMBARDI, AND CAMERON L. ALDRIDGE

**Potential scale reduction factors**

Potential scale reduction factors ( $\hat{R}$ ) help diagnose MCMC convergence. MCMC algorithms have reached convergence when  $\hat{R} < 1.1$ .

Table 1: BearRiver

	Point est.	Upper C.I.
Beta[1]	1.01	1.03
Beta[2]	1.01	1.03
Beta[3]	1.00	1.00
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.00	1.00
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.01	1.01
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.01
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.01	1.01
gamma[18]	1.00	1.00
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.01	1.03
lp__	1.00	1.02

Table 2: BlacksFork

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.01
Beta[3]	1.01	1.03
Beta[4]	1.02	1.05
gamma[1]	1.01	1.02
gamma[2]	1.00	1.01
gamma[3]	1.00	1.01
gamma[4]	1.01	1.02
gamma[5]	1.01	1.03
gamma[6]	1.01	1.02
gamma[7]	1.01	1.04
gamma[8]	1.01	1.03
gamma[9]	1.01	1.03
gamma[10]	1.01	1.03
gamma[11]	1.02	1.05
gamma[12]	1.00	1.00
gamma[13]	1.01	1.05
gamma[14]	1.01	1.04
gamma[15]	1.01	1.03
gamma[16]	1.01	1.02
gamma[17]	1.01	1.03
gamma[18]	1.00	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.01
gamma[22]	1.01	1.04
gamma[23]	1.02	1.07
gamma[24]	1.01	1.02
gamma[25]	1.01	1.03
gamma[26]	1.01	1.03
gamma[27]	1.01	1.04
gamma[28]	1.01	1.04
gamma[29]	1.00	1.00
gamma[30]	1.01	1.01
gamma[31]	1.00	1.01
gamma[32]	1.01	1.02
sigma_y	1.00	1.01
lp__	1.00	1.00

Table 3: Buffalo

	Point est.	Upper C.I.
Beta[1]	1.01	1.03
Beta[2]	1.01	1.03
Beta[3]	1.01	1.02
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.01
gamma[3]	1.00	1.00
gamma[4]	1.01	1.01
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.01	1.02
gamma[11]	1.00	1.01
gamma[12]	1.00	1.00
gamma[13]	1.00	1.01
gamma[14]	1.00	1.01
gamma[15]	1.00	1.01
gamma[16]	1.00	1.00
gamma[17]	1.00	1.01
gamma[18]	1.00	1.00
gamma[19]	1.00	1.01
gamma[20]	1.00	1.01
gamma[21]	1.01	1.03
gamma[22]	1.01	1.02
gamma[23]	1.00	1.00
gamma[24]	1.01	1.01
gamma[25]	1.00	1.00
gamma[26]	1.00	1.01
gamma[27]	1.00	1.01
gamma[28]	1.00	1.01
gamma[29]	1.00	1.01
gamma[30]	1.00	1.01
gamma[31]	1.00	1.00
gamma[32]	1.00	1.01
sigma_y	1.01	1.01
lp__	1.00	1.02

Table 4: ContinentalDivide

	Point est.	Upper C.I.
Beta[1]	1	1.00
Beta[2]	1	1.00
Beta[3]	1	1.01
Beta[4]	1	1.00
gamma[1]	1	1.01
gamma[2]	1	1.00
gamma[3]	1	1.00
gamma[4]	1	1.01
gamma[5]	1	1.00
gamma[6]	1	1.00
gamma[7]	1	1.01
gamma[8]	1	1.00
gamma[9]	1	1.00
gamma[10]	1	1.01
gamma[11]	1	1.01
gamma[12]	1	1.00
gamma[13]	1	1.00
gamma[14]	1	1.01
gamma[15]	1	1.00
gamma[16]	1	1.00
gamma[17]	1	1.01
gamma[18]	1	1.01
gamma[19]	1	1.00
gamma[20]	1	1.00
gamma[21]	1	1.00
gamma[22]	1	1.01
gamma[23]	1	1.00
gamma[24]	1	1.00
gamma[25]	1	1.00
gamma[26]	1	1.01
gamma[27]	1	1.00
gamma[28]	1	1.00
gamma[29]	1	1.01
gamma[30]	1	1.01
gamma[31]	1	1.00
gamma[32]	1	1.00
sigma_y	1	1.00
lp__	1	1.00

Table 5: Crowheart

	Point est.	Upper C.I.
Beta[1]	1.01	1.03
Beta[2]	1.01	1.03
Beta[3]	1.01	1.01
Beta[4]	1.00	1.00
gamma[1]	1.01	1.01
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.01
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.01
gamma[9]	1.01	1.02
gamma[10]	1.00	1.01
gamma[11]	1.00	1.01
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.02
gamma[18]	1.00	1.01
gamma[19]	1.01	1.02
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.01
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.01	1.02
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.00	1.01
lp__	1.01	1.02

Table 6: Daniel

	Point est.	Upper C.I.
Beta[1]	1.01	1.04
Beta[2]	1.01	1.04
Beta[3]	1.00	1.00
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.01	1.01
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.00
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.01
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.00	1.00
gamma[32]	1.01	1.01
sigma_y	1.03	1.11
lp__	1.00	1.01

Table 7: Douglas

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.01
Beta[4]	1.01	1.02
gamma[1]	1.00	1.01
gamma[2]	1.00	1.01
gamma[3]	1.00	1.01
gamma[4]	1.00	1.01
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.01	1.02
gamma[9]	1.00	1.01
gamma[10]	1.00	1.01
gamma[11]	1.00	1.01
gamma[12]	1.00	1.01
gamma[13]	1.00	1.02
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.01
gamma[17]	1.00	1.01
gamma[18]	1.00	1.00
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.01	1.02
gamma[23]	1.01	1.02
gamma[24]	1.00	1.01
gamma[25]	1.01	1.02
gamma[26]	1.00	1.01
gamma[27]	1.00	1.01
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.01	1.02
lp__	1.00	1.00



Table 8: ElkBasinEast

	Point est.	Upper C.I.
Beta[1]	1.01	1.01
Beta[2]	1.01	1.01
Beta[3]	1.02	1.06
Beta[4]	1.01	1.01
gamma[1]	1.01	1.03
gamma[2]	1.01	1.03
gamma[3]	1.01	1.04
gamma[4]	1.01	1.02
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.01	1.03
gamma[9]	1.01	1.04
gamma[10]	1.01	1.03
gamma[11]	1.00	1.01
gamma[12]	1.01	1.02
gamma[13]	1.02	1.05
gamma[14]	1.00	1.01
gamma[15]	1.00	1.01
gamma[16]	1.00	1.01
gamma[17]	1.00	1.01
gamma[18]	1.01	1.02
gamma[19]	1.01	1.03
gamma[20]	1.01	1.02
gamma[21]	1.02	1.05
gamma[22]	1.02	1.06
gamma[23]	1.01	1.02
gamma[24]	1.00	1.01
gamma[25]	1.01	1.02
gamma[26]	1.01	1.01
gamma[27]	1.01	1.03
gamma[28]	1.00	1.00
gamma[29]	1.00	1.01
gamma[30]	1.00	1.01
gamma[31]	1.01	1.02
gamma[32]	1.01	1.02
sigma_y	1.00	1.00
lp__	1.00	1.00

Table 9: ElkBasinWest

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.04	1.14
Beta[4]	1.15	1.44
gamma[1]	1.00	1.00
gamma[2]	1.05	1.15
gamma[3]	1.06	1.20
gamma[4]	1.11	1.33
gamma[5]	1.04	1.14
gamma[6]	1.00	1.00
gamma[7]	1.03	1.09
gamma[8]	1.06	1.19
gamma[9]	1.05	1.16
gamma[10]	1.02	1.07
gamma[11]	1.10	1.31
gamma[12]	1.11	1.32
gamma[13]	1.00	1.00
gamma[14]	1.03	1.11
gamma[15]	1.01	1.03
gamma[16]	1.05	1.17
gamma[17]	1.05	1.15
gamma[18]	1.12	1.36
gamma[19]	1.01	1.03
gamma[20]	1.03	1.09
gamma[21]	1.02	1.07
gamma[22]	1.02	1.07
gamma[23]	1.12	1.34
gamma[24]	1.10	1.31
gamma[25]	1.11	1.33
gamma[26]	1.05	1.16
gamma[27]	1.04	1.13
gamma[28]	1.00	1.00
gamma[29]	1.03	1.11
gamma[30]	1.05	1.16
gamma[31]	1.06	1.19
gamma[32]	1.06	1.18
sigma_y	1.04	1.11
lp__	1.00	1.02

Table 10: Fontenelle

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.01	1.02
Beta[4]	1.01	1.03
gamma[1]	1.00	1.01
gamma[2]	1.00	1.01
gamma[3]	1.00	1.00
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.01	1.01
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.00	1.01
gamma[11]	1.00	1.00
gamma[12]	1.00	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.00
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.01	1.02
gamma[24]	1.01	1.02
gamma[25]	1.00	1.00
gamma[26]	1.00	1.01
gamma[27]	1.01	1.02
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.00	1.01
gamma[32]	1.01	1.02
sigma_y	1.01	1.04
lp__	1.00	1.01

Table 11: GrassCreek

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.01	1.02
Beta[4]	1.00	1.01
gamma[1]	1.00	1.01
gamma[2]	1.00	1.01
gamma[3]	1.00	1.01
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.00	1.01
gamma[7]	1.00	1.01
gamma[8]	1.01	1.02
gamma[9]	1.00	1.01
gamma[10]	1.00	1.01
gamma[11]	1.00	1.01
gamma[12]	1.00	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.01
gamma[21]	1.00	1.01
gamma[22]	1.01	1.02
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.01
gamma[26]	1.00	1.01
gamma[27]	1.00	1.01
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.00	1.01
lp__	1.01	1.03

Table 12: GreaterSouthPass1

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.00
Beta[4]	1.00	1.01
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.01
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.01
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.00
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.01
gamma[24]	1.00	1.02
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.01
gamma[32]	1.01	1.01
sigma_y	1.07	1.18
lp__	1.01	1.05

Table 13: GreaterSouthPass2

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.01	1.05
Beta[4]	1.00	1.01
gamma[1]	1.01	1.02
gamma[2]	1.00	1.01
gamma[3]	1.00	1.01
gamma[4]	1.01	1.03
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.01	1.03
gamma[8]	1.00	1.00
gamma[9]	1.01	1.02
gamma[10]	1.00	1.02
gamma[11]	1.01	1.04
gamma[12]	1.00	1.01
gamma[13]	1.00	1.01
gamma[14]	1.01	1.02
gamma[15]	1.01	1.02
gamma[16]	1.00	1.01
gamma[17]	1.01	1.02
gamma[18]	1.00	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.01	1.04
gamma[23]	1.00	1.01
gamma[24]	1.00	1.01
gamma[25]	1.00	1.02
gamma[26]	1.00	1.01
gamma[27]	1.00	1.01
gamma[28]	1.01	1.03
gamma[29]	1.00	1.00
gamma[30]	1.01	1.02
gamma[31]	1.01	1.04
gamma[32]	1.00	1.00
sigma_y	1.01	1.03
lp__	1.01	1.03

Table 14: GreaterSouthPass3

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.01
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.01
gamma[3]	1.00	1.01
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.00	1.01
gamma[11]	1.00	1.01
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.01
gamma[18]	1.00	1.01
gamma[19]	1.00	1.00
gamma[20]	1.01	1.01
gamma[21]	1.00	1.00
gamma[22]	1.00	1.01
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.05	1.15
lp__	1.00	1.00

Table 15: GreaterSouthPass4

	Point est.	Upper C.I.
Beta[1]	1.00	1.02
Beta[2]	1.01	1.02
Beta[3]	1.01	1.02
Beta[4]	1.00	1.01
gamma[1]	1.01	1.01
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.01	1.02
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.02
gamma[10]	1.00	1.01
gamma[11]	1.00	1.01
gamma[12]	1.00	1.01
gamma[13]	1.01	1.01
gamma[14]	1.01	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.01	1.02
gamma[18]	1.00	1.00
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.01	1.02
gamma[23]	1.00	1.01
gamma[24]	1.00	1.00
gamma[25]	1.00	1.01
gamma[26]	1.00	1.01
gamma[27]	1.00	1.00
gamma[28]	1.01	1.02
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.01	1.02
lp__	1.00	1.00



Table 16: GreaterSouthPass5

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.01	1.03
Beta[4]	1.00	1.01
gamma[1]	1.00	1.01
gamma[2]	1.00	1.01
gamma[3]	1.00	1.00
gamma[4]	1.00	1.01
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.01
gamma[11]	1.00	1.01
gamma[12]	1.00	1.00
gamma[13]	1.00	1.01
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.01
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.01
gamma[25]	1.01	1.02
gamma[26]	1.00	1.01
gamma[27]	1.00	1.00
gamma[28]	1.00	1.01
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.00	1.01
gamma[32]	1.00	1.00
sigma_y	1.03	1.08
lp__	1.00	1.01

Table 17: Hanna

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.01
Beta[4]	1.00	1.01
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.01	1.02
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.01
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.01
gamma[19]	1.01	1.01
gamma[20]	1.00	1.01
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.02
gamma[24]	1.00	1.01
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.01
gamma[28]	1.00	1.01
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.00	1.00
gamma[32]	1.00	1.01
sigma_y	1.04	1.13
lp__	1.00	1.00

Table 18: HeartMountain

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.01	1.01
Beta[3]	1.01	1.03
Beta[4]	1.01	1.04
gamma[1]	1.00	1.02
gamma[2]	1.00	1.01
gamma[3]	1.01	1.02
gamma[4]	1.00	1.01
gamma[5]	1.00	1.00
gamma[6]	1.00	1.01
gamma[7]	1.00	1.00
gamma[8]	1.01	1.03
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.01
gamma[12]	1.00	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.01
gamma[18]	1.00	1.01
gamma[19]	1.00	1.00
gamma[20]	1.00	1.02
gamma[21]	1.00	1.00
gamma[22]	1.00	1.01
gamma[23]	1.00	1.01
gamma[24]	1.00	1.01
gamma[25]	1.00	1.00
gamma[26]	1.00	1.01
gamma[27]	1.00	1.02
gamma[28]	1.00	1.00
gamma[29]	1.00	1.02
gamma[30]	1.00	1.01
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.00	1.02
lp__	1.01	1.03

Table 19: Hyattville

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.00
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.01
gamma[5]	1.00	1.00
gamma[6]	1.00	1.01
gamma[7]	1.00	1.02
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.01	1.01
gamma[15]	1.00	1.01
gamma[16]	1.01	1.01
gamma[17]	1.01	1.01
gamma[18]	1.00	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.01
sigma_y	1.01	1.02
lp__	1.00	1.01

Table 20: Jackson

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.00	1.01
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.00
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.01
gamma[19]	1.00	1.00
gamma[20]	1.00	1.01
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.01
gamma[24]	1.00	1.01
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.01
sigma_y	1.02	1.05
lp__	1.00	1.02

Table 21: LittleMountain

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.01	1.03
Beta[4]	1.00	1.01
gamma[1]	1.00	1.00
gamma[2]	1.00	1.01
gamma[3]	1.00	1.01
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.00	1.01
gamma[7]	1.00	1.00
gamma[8]	1.01	1.02
gamma[9]	1.00	1.01
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.01	1.03
gamma[18]	1.00	1.01
gamma[19]	1.00	1.00
gamma[20]	1.00	1.01
gamma[21]	1.00	1.01
gamma[22]	1.00	1.00
gamma[23]	1.00	1.01
gamma[24]	1.00	1.00
gamma[25]	1.00	1.01
gamma[26]	1.00	1.01
gamma[27]	1.01	1.02
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.01	1.01
gamma[32]	1.00	1.00
sigma_y	1.00	1.00
lp__	1.00	1.01

Table 22: Natrona1

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.00
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.00	1.00
gamma[11]	1.00	1.01
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.01
gamma[17]	1.00	1.00
gamma[18]	1.01	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.01
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.01	1.02
lp__	1.00	1.01

Table 23: Natrona2

	Point est.	Upper C.I.
Beta[1]	1.01	1.02
Beta[2]	1.01	1.02
Beta[3]	1.00	1.02
Beta[4]	1.01	1.02
gamma[1]	1.00	1.00
gamma[2]	1.00	1.01
gamma[3]	1.00	1.01
gamma[4]	1.00	1.00
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.01
gamma[16]	1.00	1.00
gamma[17]	1.00	1.01
gamma[18]	1.00	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.01
gamma[21]	1.00	1.00
gamma[22]	1.00	1.01
gamma[23]	1.00	1.02
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.01
gamma[30]	1.00	1.01
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.02	1.07
lp__	1.01	1.01



Table 24: Natrona3

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.00	1.00
Beta[4]	1.00	1.01
gamma[1]	1.00	1.00
gamma[2]	1.01	1.01
gamma[3]	1.00	1.00
gamma[4]	1.01	1.03
gamma[5]	1.00	1.01
gamma[6]	1.01	1.01
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.00	1.01
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.01
gamma[18]	1.00	1.01
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.01	1.02
gamma[26]	1.00	1.01
gamma[27]	1.00	1.01
gamma[28]	1.00	1.01
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.02	1.07
lp__	1.01	1.02

Table 25: Newcastle

	Point est.	Upper C.I.
Beta[1]	1.00	1.02
Beta[2]	1.00	1.01
Beta[3]	1.00	1.01
Beta[4]	1.01	1.04
gamma[1]	1.00	1.01
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.01	1.03
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.00	1.00
gamma[11]	1.00	1.01
gamma[12]	1.01	1.03
gamma[13]	1.00	1.01
gamma[14]	1.01	1.02
gamma[15]	1.00	1.00
gamma[16]	1.00	1.02
gamma[17]	1.00	1.01
gamma[18]	1.00	1.01
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.01
gamma[22]	1.00	1.02
gamma[23]	1.01	1.02
gamma[24]	1.00	1.01
gamma[25]	1.00	1.01
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.02
gamma[29]	1.00	1.01
gamma[30]	1.00	1.01
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.01	1.04
lp__	1.00	1.01

Table 26: NorthGillette

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.01	1.05
Beta[4]	1.01	1.02
gamma[1]	1.00	1.01
gamma[2]	1.00	1.02
gamma[3]	1.01	1.02
gamma[4]	1.01	1.02
gamma[5]	1.00	1.01
gamma[6]	1.01	1.01
gamma[7]	1.00	1.01
gamma[8]	1.00	1.01
gamma[9]	1.00	1.01
gamma[10]	1.00	1.02
gamma[11]	1.01	1.02
gamma[12]	1.01	1.02
gamma[13]	1.01	1.04
gamma[14]	1.00	1.01
gamma[15]	1.00	1.01
gamma[16]	1.00	1.01
gamma[17]	1.00	1.01
gamma[18]	1.01	1.03
gamma[19]	1.00	1.00
gamma[20]	1.01	1.04
gamma[21]	1.00	1.01
gamma[22]	1.00	1.00
gamma[23]	1.01	1.03
gamma[24]	1.01	1.02
gamma[25]	1.01	1.02
gamma[26]	1.01	1.02
gamma[27]	1.00	1.02
gamma[28]	1.01	1.04
gamma[29]	1.00	1.01
gamma[30]	1.01	1.03
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.01	1.03
lp__	1.00	1.01

Table 27: NorthGlenrock

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.01	1.02
Beta[4]	1.01	1.01
gamma[1]	1.01	1.01
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.00	1.02
gamma[5]	1.01	1.03
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.01
gamma[11]	1.00	1.01
gamma[12]	1.01	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.01
gamma[18]	1.01	1.02
gamma[19]	1.00	1.00
gamma[20]	1.00	1.01
gamma[21]	1.00	1.00
gamma[22]	1.00	1.01
gamma[23]	1.01	1.01
gamma[24]	1.00	1.01
gamma[25]	1.00	1.00
gamma[26]	1.00	1.01
gamma[27]	1.00	1.01
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.01	1.01
lp__	1.00	1.01

Table 28: NorthLaramie

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.01	1.02
Beta[4]	1.00	1.02
gamma[1]	1.00	1.01
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.01
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.01	1.01
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.01
gamma[18]	1.00	1.00
gamma[19]	1.00	1.02
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.01
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.01
gamma[27]	1.00	1.01
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.01	1.01
gamma[32]	1.01	1.01
sigma_y	1.01	1.02
lp__	1.00	1.00

Table 29: OregonBasin

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.01
Beta[4]	1.00	1.01
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.01	1.01
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.01
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.00
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.01
gamma[26]	1.00	1.00
gamma[27]	1.00	1.01
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.01	1.03
lp__	1.00	1.01

Table 30: Powder

	Point est.	Upper C.I.
Beta[1]	1.01	1.01
Beta[2]	1.01	1.02
Beta[3]	1.01	1.05
Beta[4]	1.00	1.00
gamma[1]	1.00	1.02
gamma[2]	1.01	1.04
gamma[3]	1.00	1.01
gamma[4]	1.02	1.05
gamma[5]	1.01	1.05
gamma[6]	1.01	1.02
gamma[7]	1.01	1.02
gamma[8]	1.00	1.01
gamma[9]	1.01	1.03
gamma[10]	1.01	1.03
gamma[11]	1.01	1.04
gamma[12]	1.01	1.03
gamma[13]	1.01	1.02
gamma[14]	1.01	1.02
gamma[15]	1.01	1.04
gamma[16]	1.01	1.03
gamma[17]	1.01	1.02
gamma[18]	1.02	1.05
gamma[19]	1.00	1.01
gamma[20]	1.01	1.03
gamma[21]	1.00	1.00
gamma[22]	1.01	1.03
gamma[23]	1.01	1.02
gamma[24]	1.00	1.02
gamma[25]	1.01	1.04
gamma[26]	1.01	1.02
gamma[27]	1.01	1.04
gamma[28]	1.01	1.03
gamma[29]	1.00	1.00
gamma[30]	1.01	1.03
gamma[31]	1.01	1.03
gamma[32]	1.00	1.02
sigma_y	1.00	1.01
lp__	1.00	1.00

Table 31: Sage

	Point est.	Upper C.I.
Beta[1]	1.01	1.03
Beta[2]	1.01	1.02
Beta[3]	1.01	1.02
Beta[4]	1.01	1.02
gamma[1]	1.00	1.01
gamma[2]	1.00	1.01
gamma[3]	1.00	1.00
gamma[4]	1.00	1.01
gamma[5]	1.00	1.00
gamma[6]	1.00	1.01
gamma[7]	1.00	1.00
gamma[8]	1.00	1.01
gamma[9]	1.00	1.00
gamma[10]	1.00	1.01
gamma[11]	1.00	1.00
gamma[12]	1.00	1.01
gamma[13]	1.00	1.00
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.00
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.01
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.01	1.02
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.01
gamma[30]	1.00	1.01
gamma[31]	1.00	1.01
gamma[32]	1.00	1.00
sigma_y	1.05	1.18
lp__	1.00	1.01



Table 32: SaltWells

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.00	1.00
Beta[4]	1.01	1.01
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.00
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.00	1.01
gamma[7]	1.00	1.00
gamma[8]	1.00	1.00
gamma[9]	1.00	1.00
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.00
gamma[15]	1.00	1.00
gamma[16]	1.00	1.00
gamma[17]	1.00	1.00
gamma[18]	1.00	1.00
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.01	1.01
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.01
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.02	1.05
lp__	1.00	1.01

Table 33: Seedskadee

	Point est.	Upper C.I.
Beta[1]	1.01	1.01
Beta[2]	1.01	1.01
Beta[3]	1.02	1.07
Beta[4]	1.00	1.00
gamma[1]	1.02	1.08
gamma[2]	1.02	1.06
gamma[3]	1.02	1.06
gamma[4]	1.02	1.06
gamma[5]	1.01	1.05
gamma[6]	1.01	1.02
gamma[7]	1.02	1.06
gamma[8]	1.01	1.03
gamma[9]	1.01	1.04
gamma[10]	1.02	1.07
gamma[11]	1.02	1.06
gamma[12]	1.01	1.05
gamma[13]	1.01	1.04
gamma[14]	1.02	1.06
gamma[15]	1.01	1.04
gamma[16]	1.02	1.06
gamma[17]	1.01	1.05
gamma[18]	1.02	1.07
gamma[19]	1.01	1.02
gamma[20]	1.01	1.02
gamma[21]	1.01	1.03
gamma[22]	1.02	1.07
gamma[23]	1.01	1.04
gamma[24]	1.02	1.07
gamma[25]	1.01	1.05
gamma[26]	1.01	1.03
gamma[27]	1.02	1.06
gamma[28]	1.01	1.05
gamma[29]	1.01	1.03
gamma[30]	1.02	1.07
gamma[31]	1.02	1.07
gamma[32]	1.01	1.03
sigma_y	1.00	1.00
lp__	1.00	1.00

Table 34: Shell

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.02	1.07
Beta[4]	1.02	1.07
gamma[1]	1.00	1.02
gamma[2]	1.00	1.01
gamma[3]	1.02	1.05
gamma[4]	1.00	1.00
gamma[5]	1.01	1.02
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.01	1.05
gamma[9]	1.01	1.02
gamma[10]	1.01	1.01
gamma[11]	1.00	1.00
gamma[12]	1.00	1.02
gamma[13]	1.01	1.03
gamma[14]	1.00	1.02
gamma[15]	1.00	1.00
gamma[16]	1.00	1.01
gamma[17]	1.01	1.02
gamma[18]	1.01	1.04
gamma[19]	1.00	1.00
gamma[20]	1.01	1.02
gamma[21]	1.01	1.02
gamma[22]	1.01	1.02
gamma[23]	1.01	1.05
gamma[24]	1.00	1.00
gamma[25]	1.00	1.00
gamma[26]	1.00	1.00
gamma[27]	1.01	1.02
gamma[28]	1.01	1.03
gamma[29]	1.01	1.01
gamma[30]	1.00	1.00
gamma[31]	1.00	1.01
gamma[32]	1.01	1.01
sigma_y	1.01	1.03
lp__	1.00	1.01

Table 35: SouthRawlins

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.00	1.01
Beta[4]	1.00	1.01
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.00	1.00
gamma[5]	1.00	1.00
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.00	1.00
gamma[9]	1.00	1.01
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.01	1.01
gamma[14]	1.00	1.00
gamma[15]	1.01	1.01
gamma[16]	1.01	1.01
gamma[17]	1.00	1.00
gamma[18]	1.00	1.01
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.01
gamma[25]	1.00	1.01
gamma[26]	1.00	1.00
gamma[27]	1.00	1.00
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.01	1.03
lp__	1.00	1.00

Table 36: Thermopolis

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.01	1.03
Beta[4]	1.01	1.02
gamma[1]	1.00	1.01
gamma[2]	1.00	1.01
gamma[3]	1.00	1.00
gamma[4]	1.00	1.00
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.02
gamma[8]	1.01	1.03
gamma[9]	1.00	1.00
gamma[10]	1.00	1.01
gamma[11]	1.00	1.00
gamma[12]	1.01	1.03
gamma[13]	1.00	1.01
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.01
gamma[17]	1.00	1.01
gamma[18]	1.01	1.02
gamma[19]	1.00	1.00
gamma[20]	1.00	1.00
gamma[21]	1.00	1.01
gamma[22]	1.00	1.01
gamma[23]	1.01	1.01
gamma[24]	1.01	1.01
gamma[25]	1.00	1.01
gamma[26]	1.00	1.01
gamma[27]	1.01	1.02
gamma[28]	1.01	1.02
gamma[29]	1.01	1.02
gamma[30]	1.00	1.02
gamma[31]	1.00	1.01
gamma[32]	1.01	1.03
sigma_y	1.00	1.01
lp__	1.00	1.01

Table 37: ThunderBasin

	Point est.	Upper C.I.
Beta[1]	1.00	1.01
Beta[2]	1.00	1.01
Beta[3]	1.01	1.02
Beta[4]	1.00	1.00
gamma[1]	1.00	1.00
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.00	1.01
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.00
gamma[8]	1.01	1.01
gamma[9]	1.00	1.01
gamma[10]	1.00	1.00
gamma[11]	1.00	1.00
gamma[12]	1.00	1.00
gamma[13]	1.00	1.00
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.01
gamma[17]	1.00	1.01
gamma[18]	1.00	1.00
gamma[19]	1.00	1.01
gamma[20]	1.00	1.01
gamma[21]	1.00	1.00
gamma[22]	1.00	1.00
gamma[23]	1.00	1.00
gamma[24]	1.00	1.00
gamma[25]	1.00	1.01
gamma[26]	1.00	1.00
gamma[27]	1.00	1.01
gamma[28]	1.00	1.00
gamma[29]	1.00	1.00
gamma[30]	1.00	1.01
gamma[31]	1.00	1.00
gamma[32]	1.00	1.00
sigma_y	1.01	1.04
lp__	1.00	1.01

Table 38: Uinta

	Point est.	Upper C.I.
Beta[1]	1.00	1.02
Beta[2]	1.01	1.02
Beta[3]	1.02	1.06
Beta[4]	1.01	1.04
gamma[1]	1.01	1.03
gamma[2]	1.01	1.02
gamma[3]	1.00	1.00
gamma[4]	1.00	1.00
gamma[5]	1.00	1.01
gamma[6]	1.00	1.01
gamma[7]	1.00	1.02
gamma[8]	1.00	1.01
gamma[9]	1.00	1.00
gamma[10]	1.01	1.01
gamma[11]	1.00	1.00
gamma[12]	1.00	1.02
gamma[13]	1.00	1.00
gamma[14]	1.00	1.01
gamma[15]	1.00	1.00
gamma[16]	1.00	1.01
gamma[17]	1.00	1.00
gamma[18]	1.01	1.02
gamma[19]	1.00	1.01
gamma[20]	1.00	1.00
gamma[21]	1.00	1.01
gamma[22]	1.00	1.01
gamma[23]	1.00	1.00
gamma[24]	1.01	1.03
gamma[25]	1.00	1.01
gamma[26]	1.00	1.00
gamma[27]	1.01	1.02
gamma[28]	1.00	1.00
gamma[29]	1.00	1.01
gamma[30]	1.01	1.03
gamma[31]	1.00	1.01
gamma[32]	1.00	1.01
sigma_y	1.00	1.02
lp__	1.01	1.02

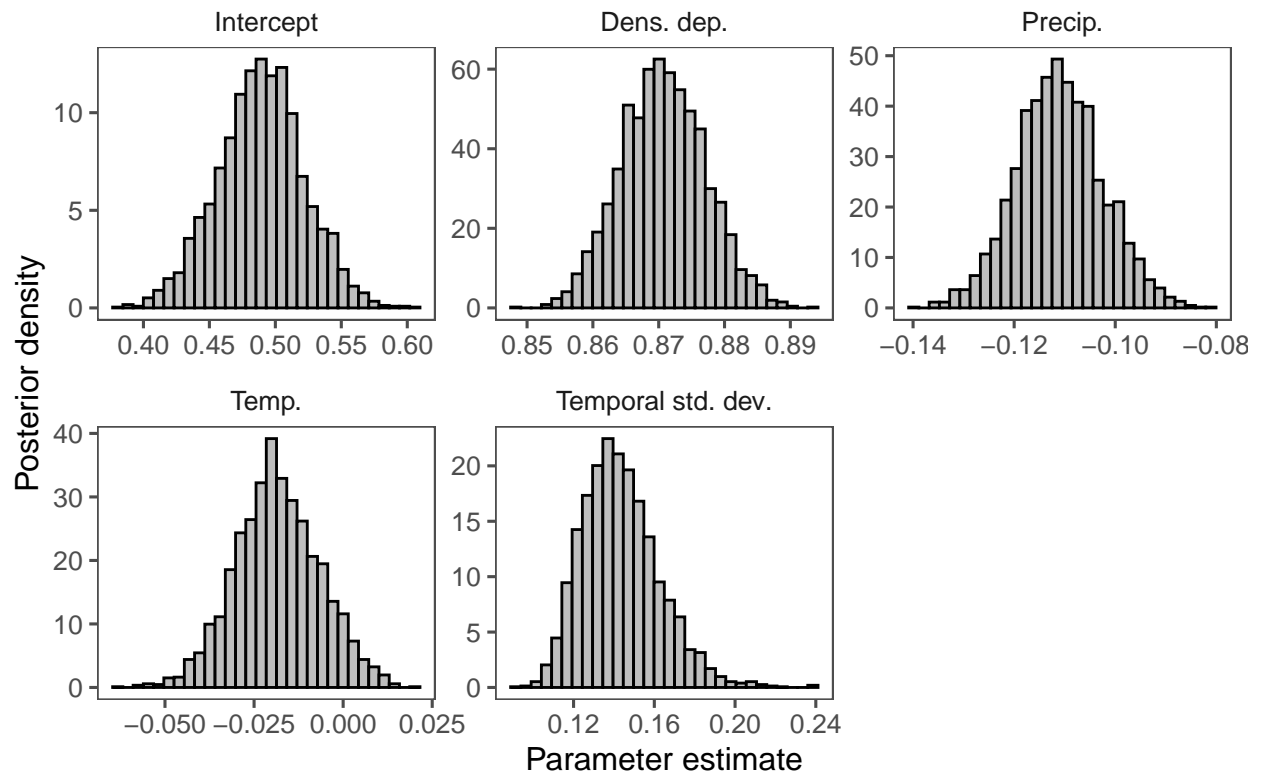
Table 39: Washakie

	Point est.	Upper C.I.
Beta[1]	1.00	1.00
Beta[2]	1.00	1.00
Beta[3]	1.02	1.05
Beta[4]	1.00	1.02
gamma[1]	1.00	1.01
gamma[2]	1.00	1.00
gamma[3]	1.00	1.01
gamma[4]	1.00	1.01
gamma[5]	1.00	1.01
gamma[6]	1.00	1.00
gamma[7]	1.00	1.01
gamma[8]	1.01	1.02
gamma[9]	1.01	1.03
gamma[10]	1.00	1.01
gamma[11]	1.00	1.00
gamma[12]	1.00	1.01
gamma[13]	1.01	1.01
gamma[14]	1.00	1.00
gamma[15]	1.00	1.01
gamma[16]	1.00	1.00
gamma[17]	1.00	1.02
gamma[18]	1.00	1.01
gamma[19]	1.01	1.04
gamma[20]	1.00	1.01
gamma[21]	1.00	1.00
gamma[22]	1.00	1.01
gamma[23]	1.00	1.00
gamma[24]	1.00	1.01
gamma[25]	1.00	1.00
gamma[26]	1.00	1.01
gamma[27]	1.00	1.02
gamma[28]	1.00	1.02
gamma[29]	1.00	1.00
gamma[30]	1.00	1.00
gamma[31]	1.00	1.00
gamma[32]	1.01	1.03
sigma_y	1.04	1.12
lp__	1.00	1.01



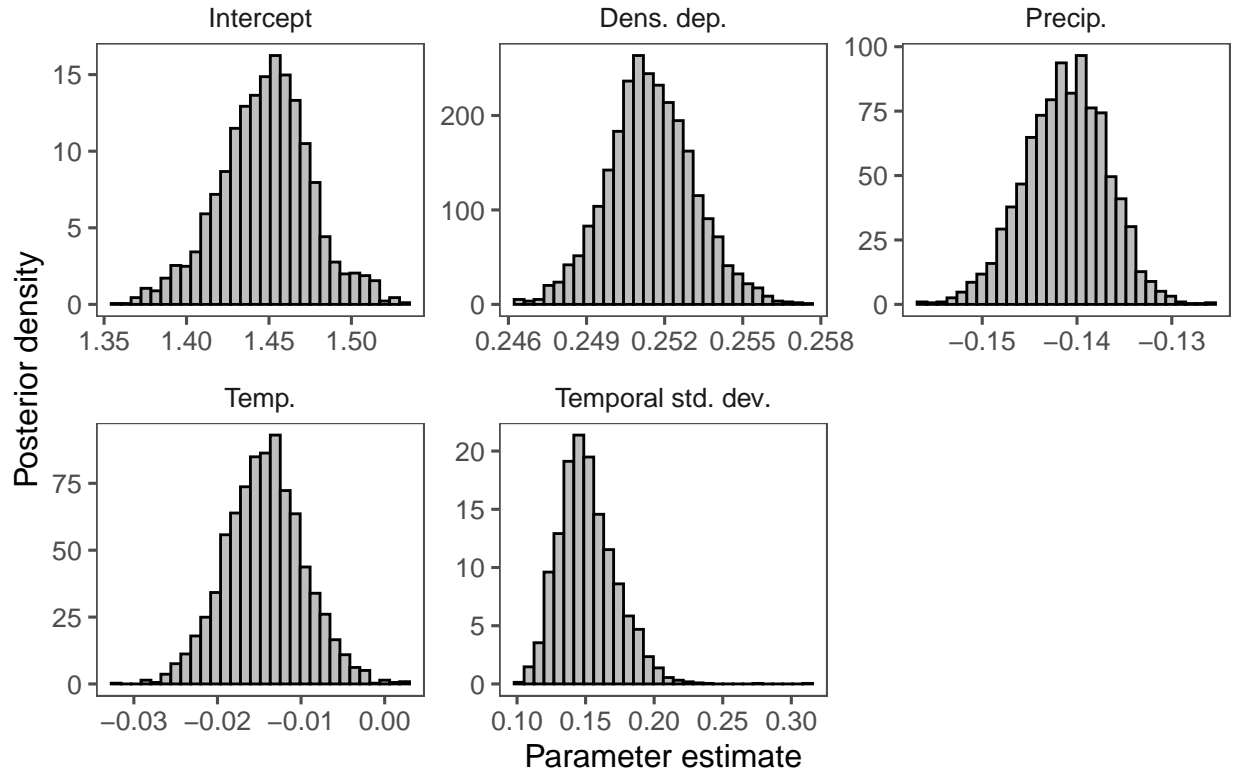
## Posterior distributions

### BearRiver



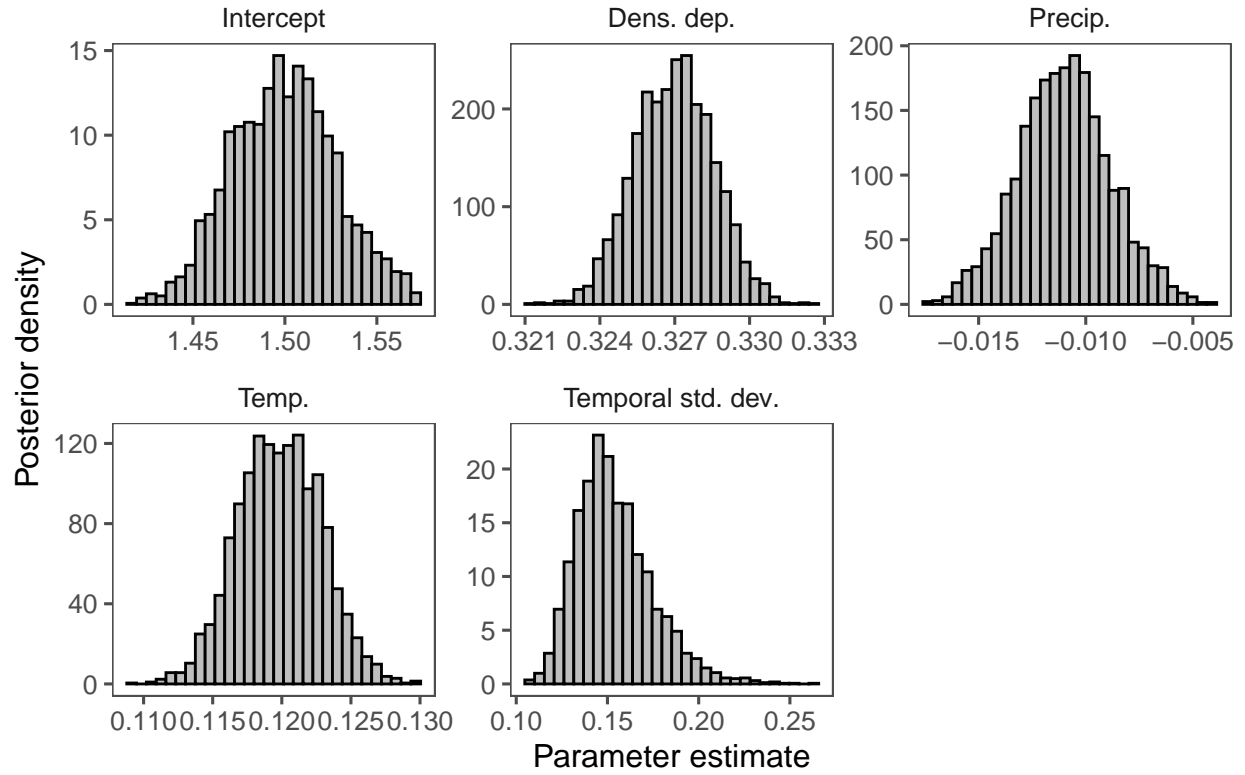
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.49	0.49	0.03	0.42	0.55
Density dependence, $\beta_2$	0.87	0.87	0.01	0.86	0.88
Precipitation effect, $\beta_3$	-0.11	-0.11	0.01	-0.13	-0.09
Temperature effect, $\beta_4$	-0.02	-0.02	0.01	-0.04	0.01
Std. dev. of temporal random effect, $\sigma_y$	0.14	0.14	0.02	0.11	0.18

## BlacksFork



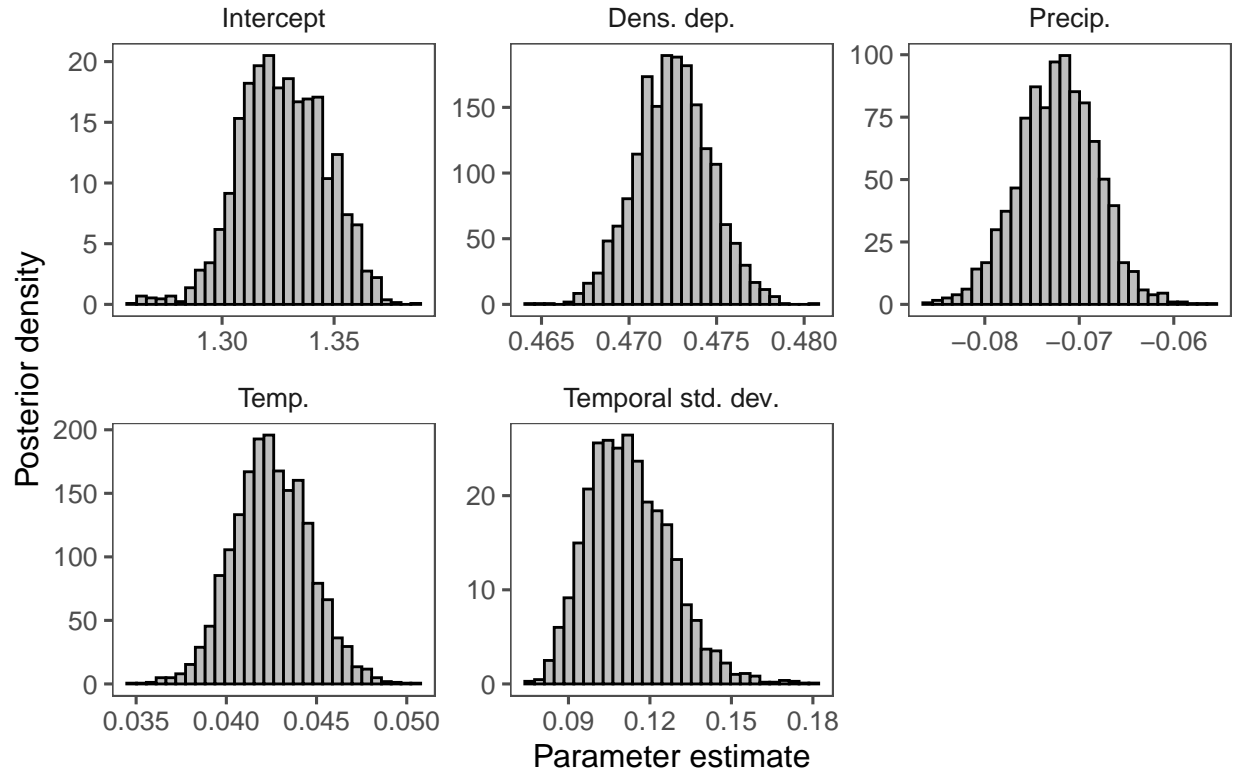
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.45	1.45	0.03	1.39	1.51
Density dependence, $\beta_2$	0.25	0.25	0.00	0.25	0.25
Precipitation effect, $\beta_3$	-0.14	-0.14	0.00	-0.15	-0.13
Temperature effect, $\beta_4$	-0.01	-0.01	0.00	-0.02	0.00
Std. dev. of temporal random effect, $\sigma_y$	0.15	0.15	0.02	0.12	0.20

## Buffalo



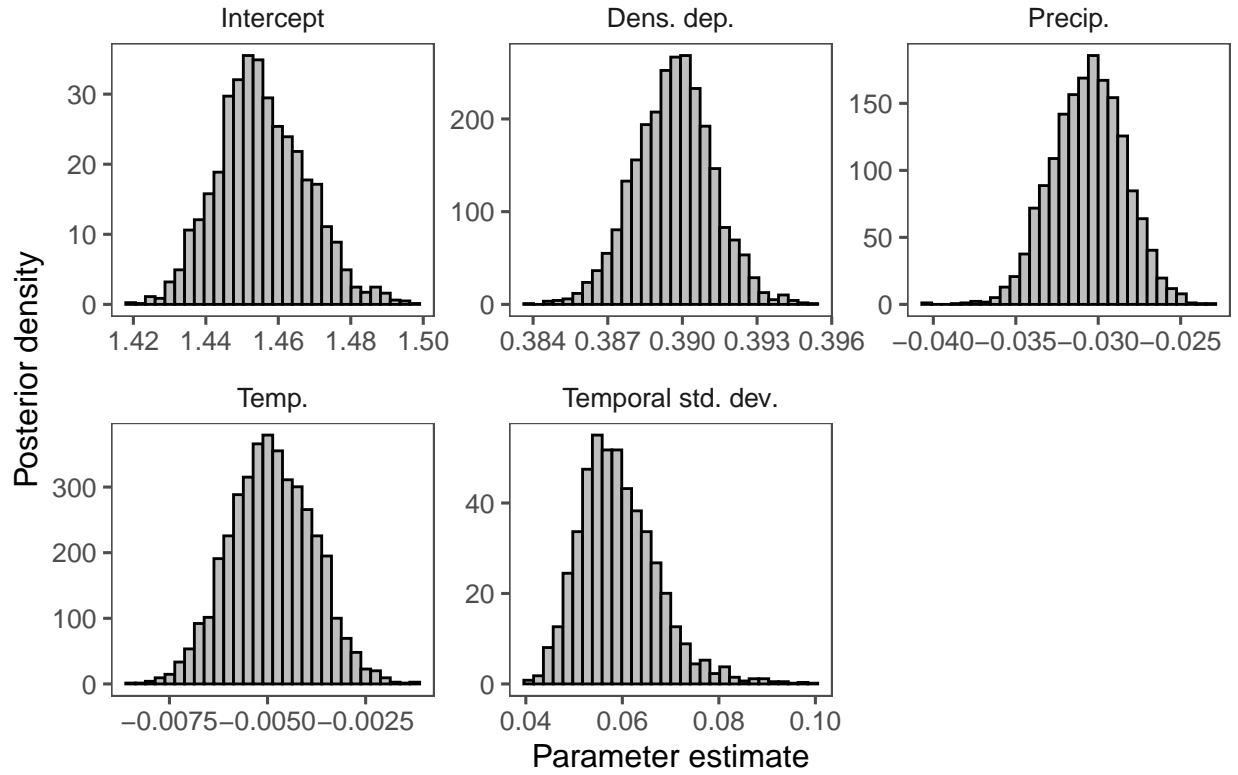
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.50	1.50	0.03	1.45	1.56
Density dependence, $\beta_2$	0.33	0.33	0.00	0.32	0.33
Precipitation effect, $\beta_3$	-0.01	-0.01	0.00	-0.02	-0.01
Temperature effect, $\beta_4$	0.12	0.12	0.00	0.11	0.13
Std. dev. of temporal random effect, $\sigma_y$	0.15	0.15	0.02	0.12	0.20

## ContinentalDivide



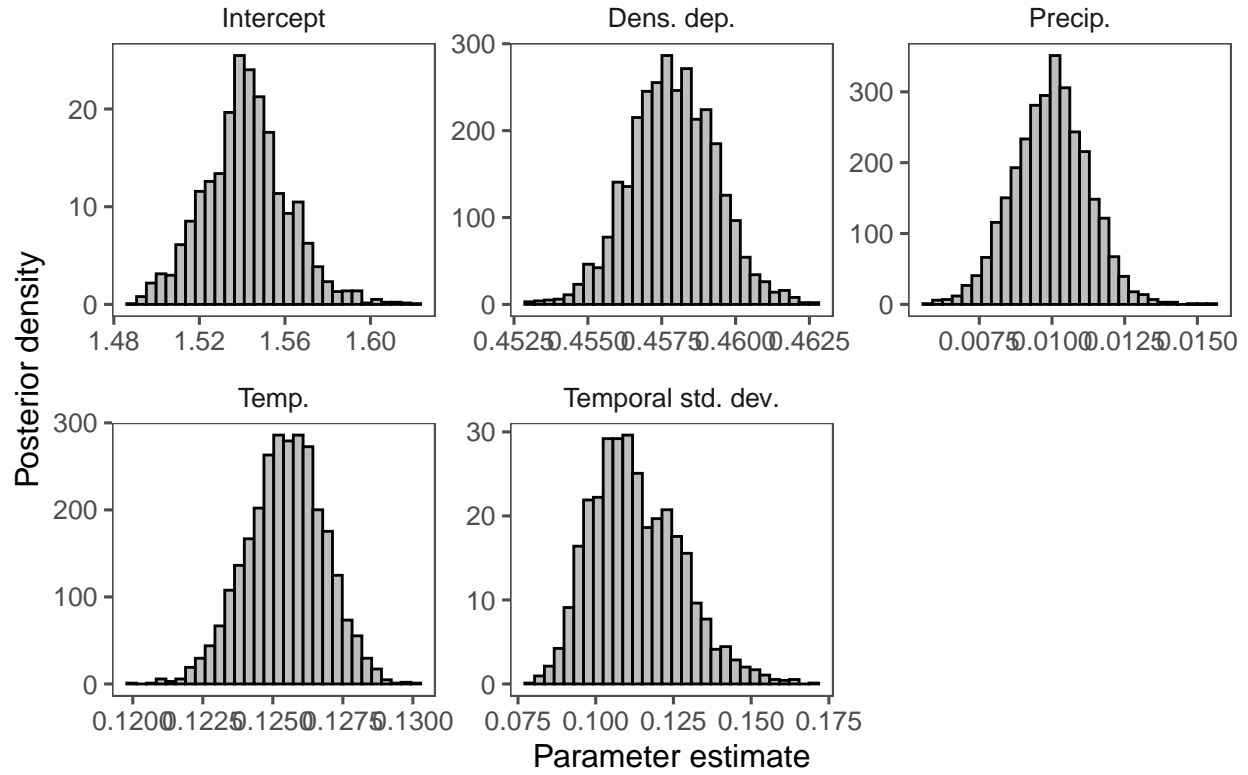
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.33	1.33	0.02	1.29	1.36
Density dependence, $\beta_2$	0.47	0.47	0.00	0.47	0.48
Precipitation effect, $\beta_3$	-0.07	-0.07	0.00	-0.08	-0.06
Temperature effect, $\beta_4$	0.04	0.04	0.00	0.04	0.05
Std. dev. of temporal random effect, $\sigma_y$	0.11	0.11	0.02	0.09	0.15

## Crowheart



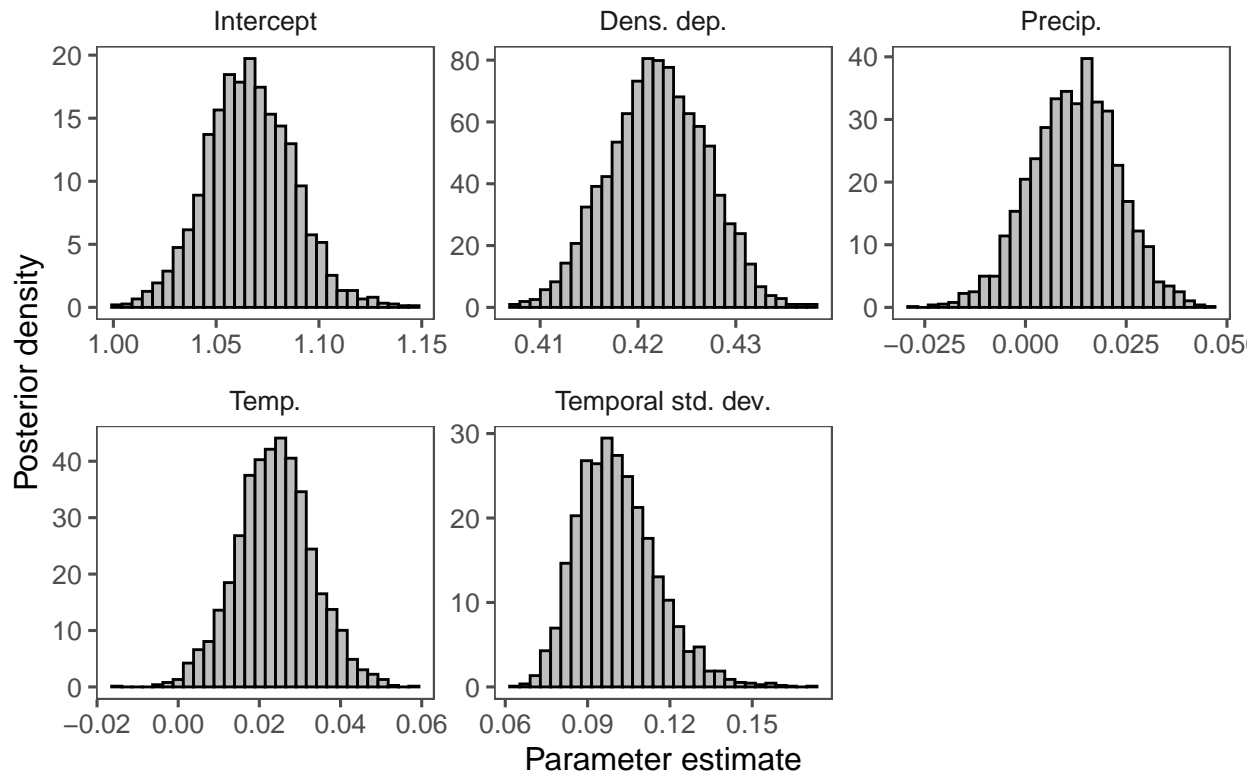
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.46	1.45	0.01	1.43	1.48
Density dependence, $\beta_2$	0.39	0.39	0.00	0.39	0.39
Precipitation effect, $\beta_3$	-0.03	-0.03	0.00	-0.03	-0.03
Temperature effect, $\beta_4$	0.00	0.00	0.00	-0.01	0.00
Std. dev. of temporal random effect, $\sigma_y$	0.06	0.06	0.01	0.05	0.08

## Daniel



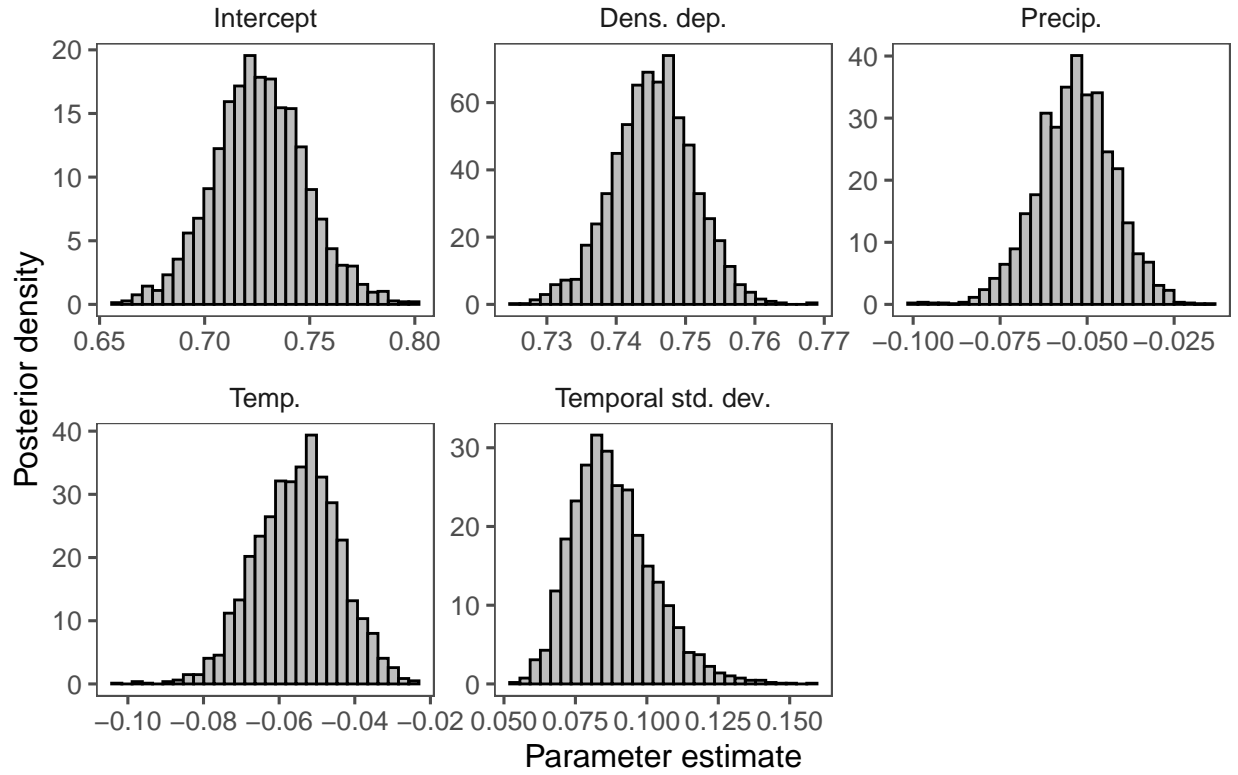
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.54	1.54	0.02	1.50	1.58
Density dependence, $\beta_2$	0.46	0.46	0.00	0.46	0.46
Precipitation effect, $\beta_3$	0.01	0.01	0.00	0.01	0.01
Temperature effect, $\beta_4$	0.13	0.13	0.00	0.12	0.13
Std. dev. of temporal random effect, $\sigma_y$	0.11	0.11	0.01	0.09	0.14

## Douglas



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.07	1.07	0.02	1.03	1.11
Density dependence, $\beta_2$	0.42	0.42	0.00	0.41	0.43
Precipitation effect, $\beta_3$	0.01	0.01	0.01	-0.01	0.03
Temperature effect, $\beta_4$	0.02	0.02	0.01	0.01	0.04
Std. dev. of temporal random effect, $\sigma_y$	0.10	0.10	0.01	0.08	0.13

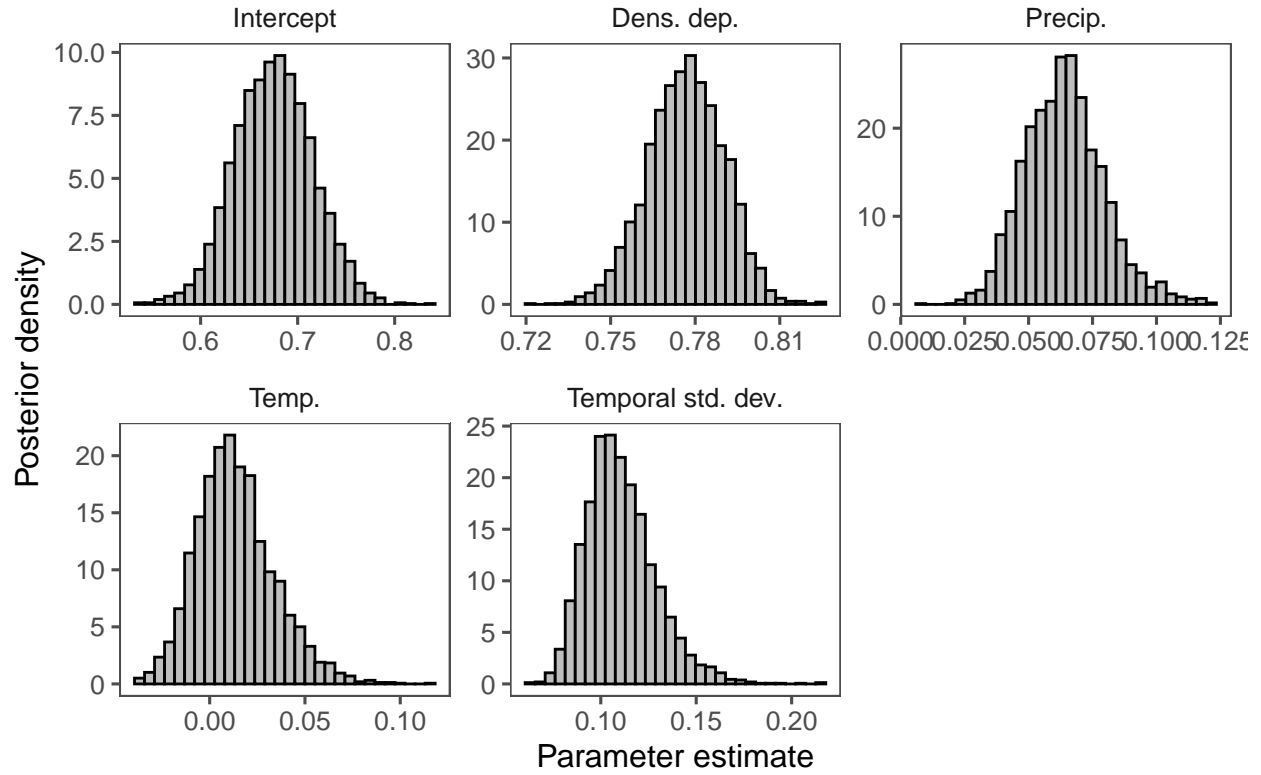
## ElkBasinEast



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.73	0.73	0.02	0.68	0.77
Density dependence, $\beta_2$	0.75	0.75	0.01	0.73	0.76
Precipitation effect, $\beta_3$	-0.05	-0.05	0.01	-0.08	-0.03
Temperature effect, $\beta_4$	-0.06	-0.05	0.01	-0.08	-0.03
Std. dev. of temporal random effect, $\sigma_y$	0.09	0.09	0.01	0.07	0.12

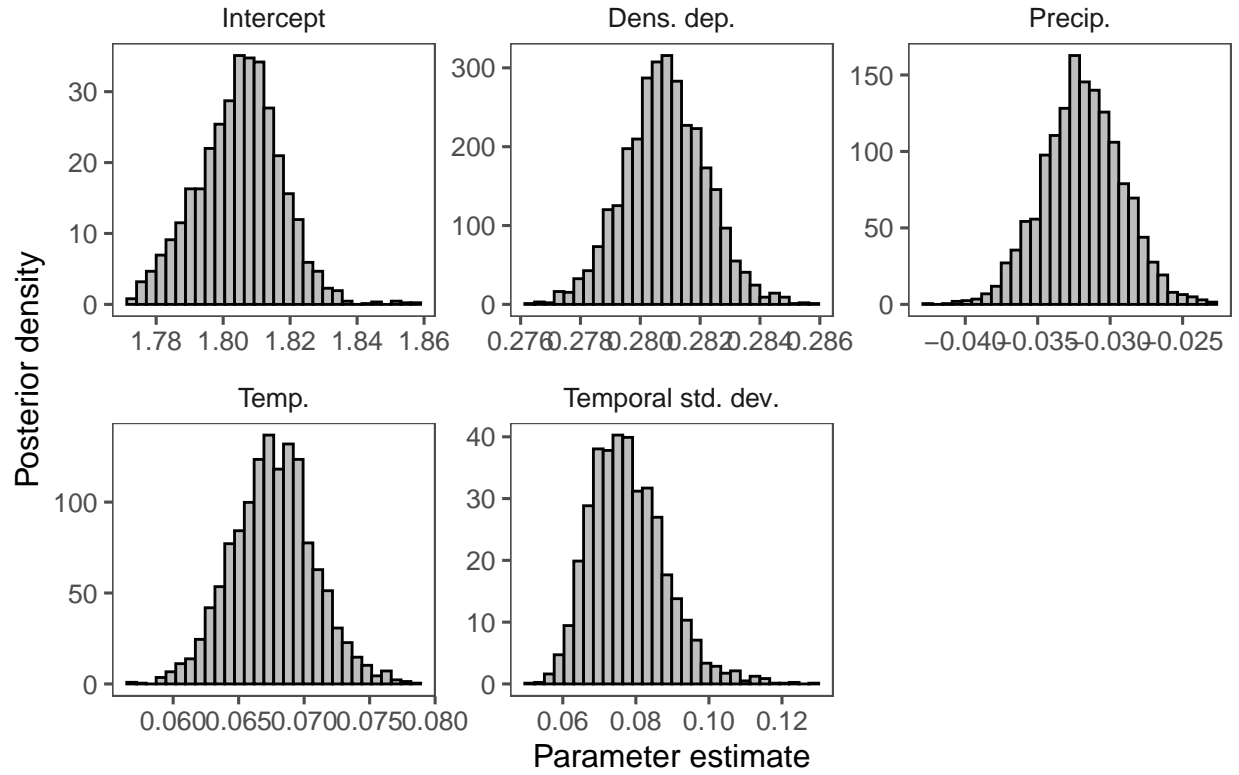


## ElkBasinWest



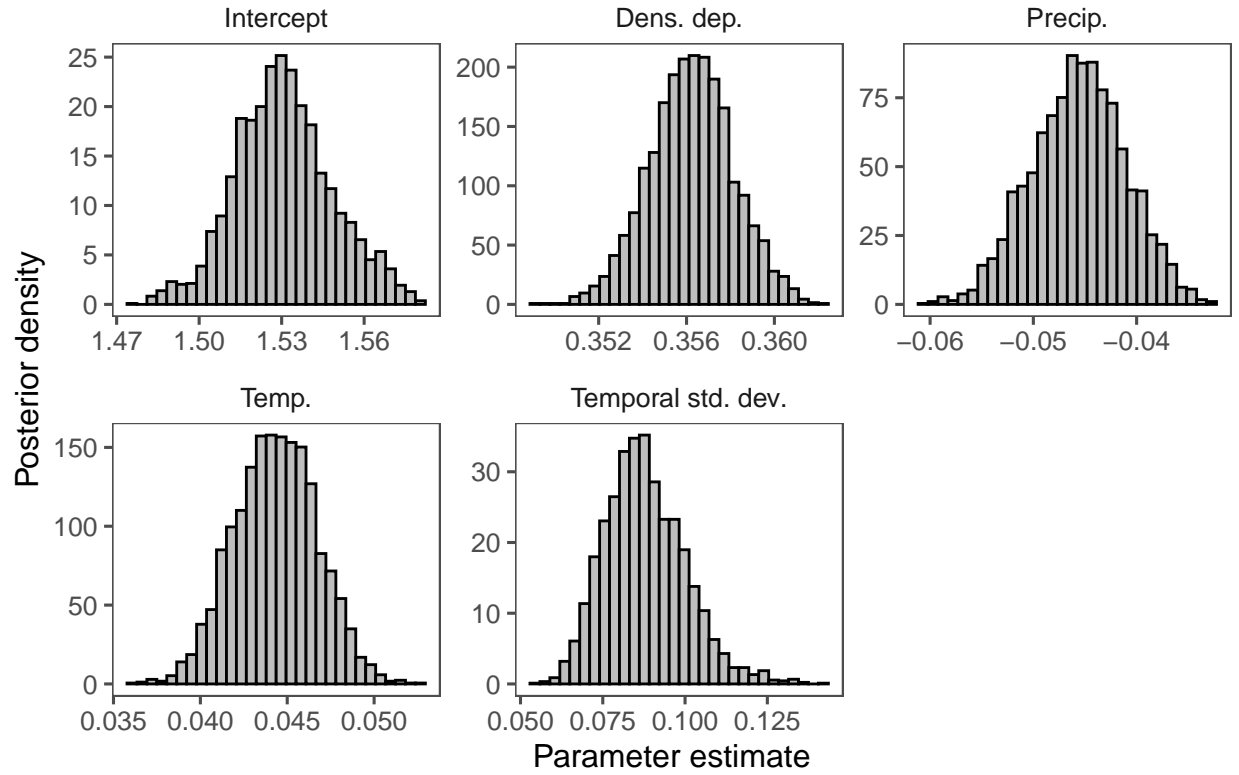
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.68	0.68	0.04	0.60	0.75
Density dependence, $\beta_2$	0.78	0.78	0.01	0.75	0.80
Precipitation effect, $\beta_3$	0.06	0.06	0.02	0.04	0.10
Temperature effect, $\beta_4$	0.01	0.01	0.02	-0.02	0.06
Std. dev. of temporal random effect, $\sigma_y$	0.11	0.11	0.02	0.08	0.15

## Fontenelle



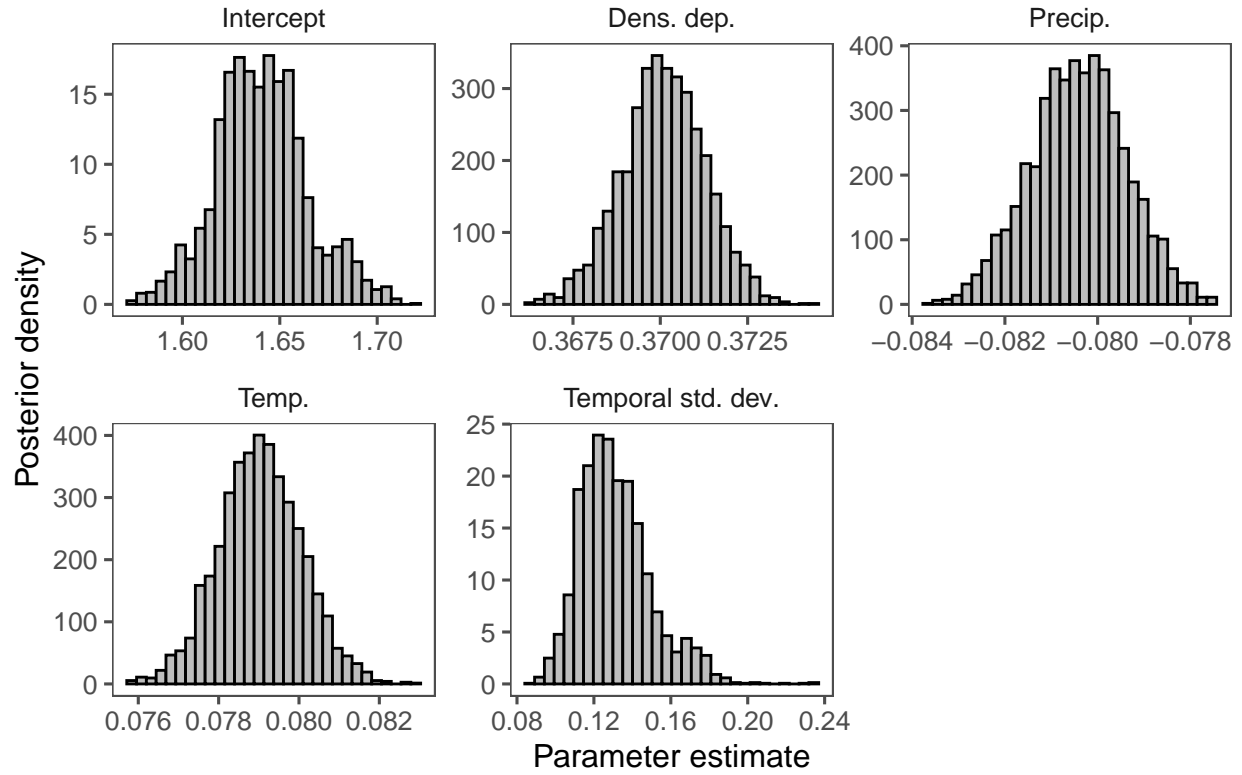
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.80	1.81	0.01	1.78	1.83
Density dependence, $\beta_2$	0.28	0.28	0.00	0.28	0.28
Precipitation effect, $\beta_3$	-0.03	-0.03	0.00	-0.04	-0.03
Temperature effect, $\beta_4$	0.07	0.07	0.00	0.06	0.07
Std. dev. of temporal random effect, $\sigma_y$	0.08	0.08	0.01	0.06	0.10

## GrassCreek



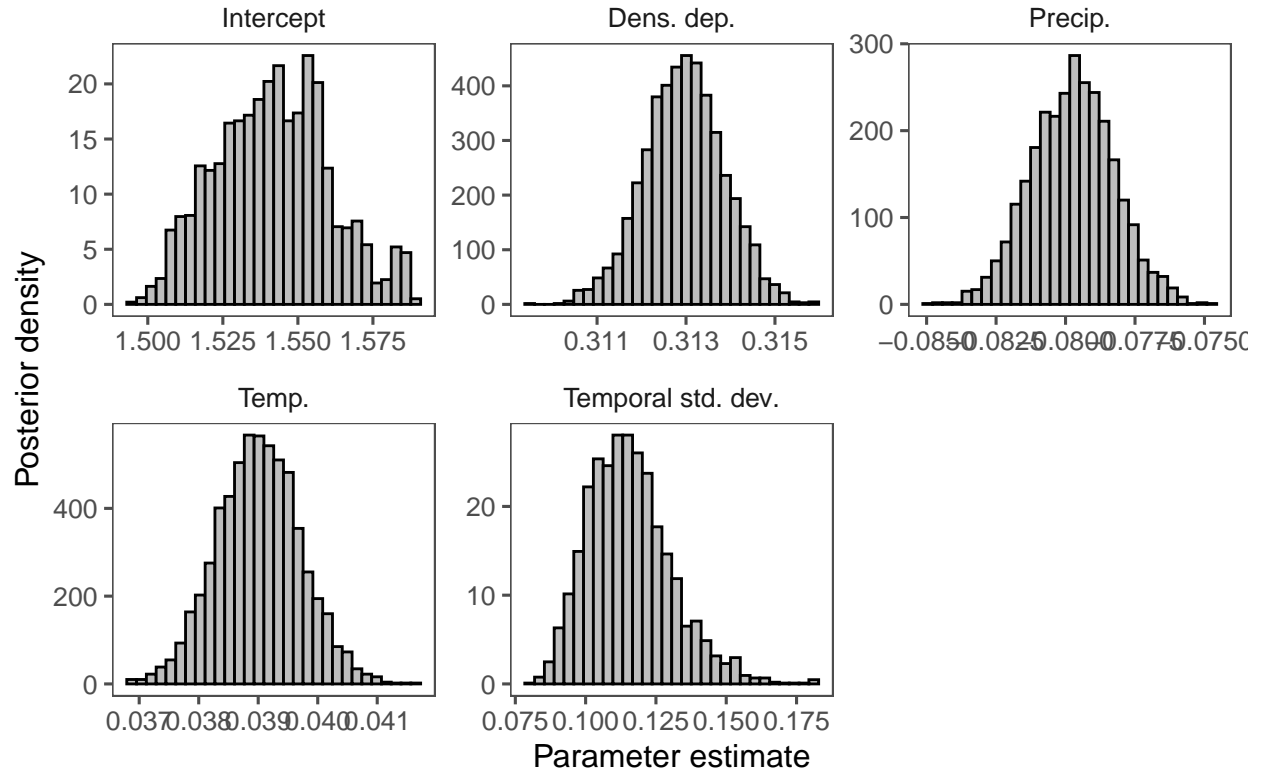
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.53	1.53	0.02	1.50	1.57
Density dependence, $\beta_2$	0.36	0.36	0.00	0.35	0.36
Precipitation effect, $\beta_3$	-0.05	-0.05	0.00	-0.05	-0.04
Temperature effect, $\beta_4$	0.04	0.04	0.00	0.04	0.05
Std. dev. of temporal random effect, $\sigma_y$	0.09	0.09	0.01	0.07	0.12

## GreaterSouthPass1



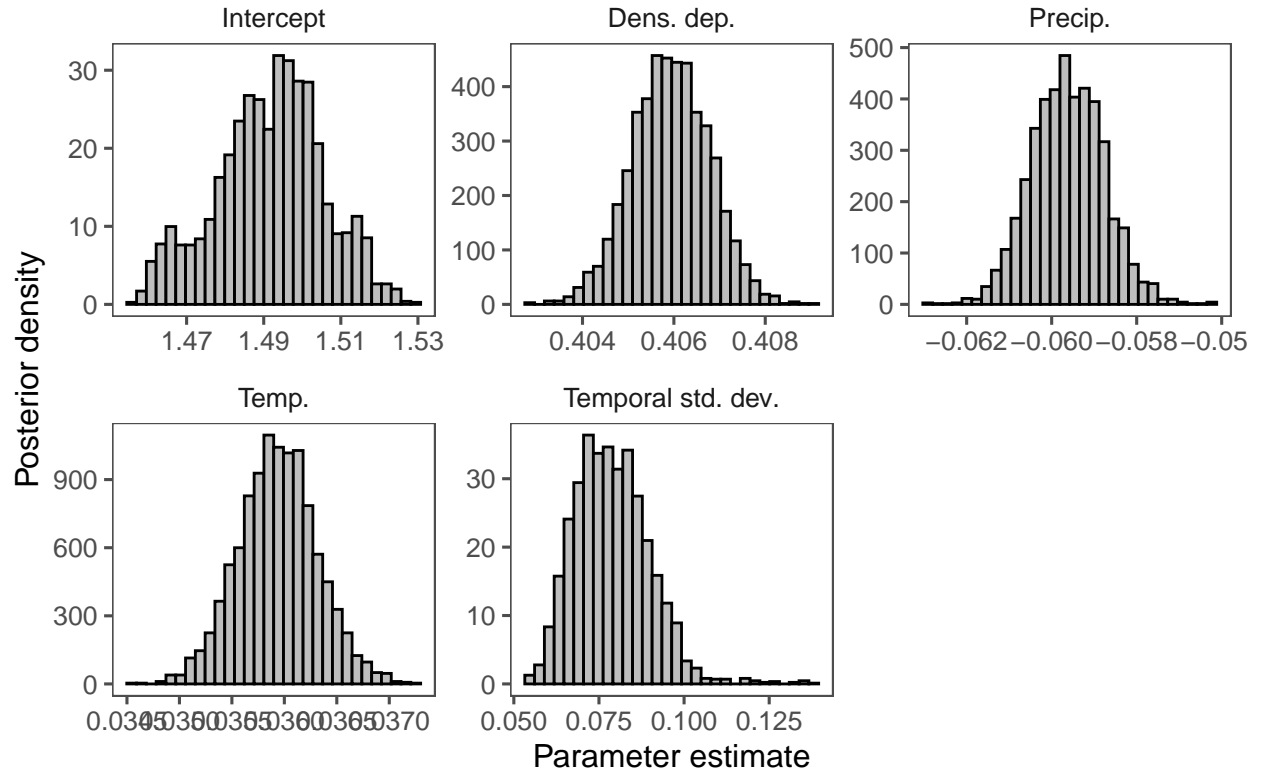
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.64	1.64	0.02	1.60	1.69
Density dependence, $\beta_2$	0.37	0.37	0.00	0.37	0.37
Precipitation effect, $\beta_3$	-0.08	-0.08	0.00	-0.08	-0.08
Temperature effect, $\beta_4$	0.08	0.08	0.00	0.08	0.08
Std. dev. of temporal random effect, $\sigma_y$	0.13	0.13	0.02	0.10	0.18

## GreaterSouthPass2



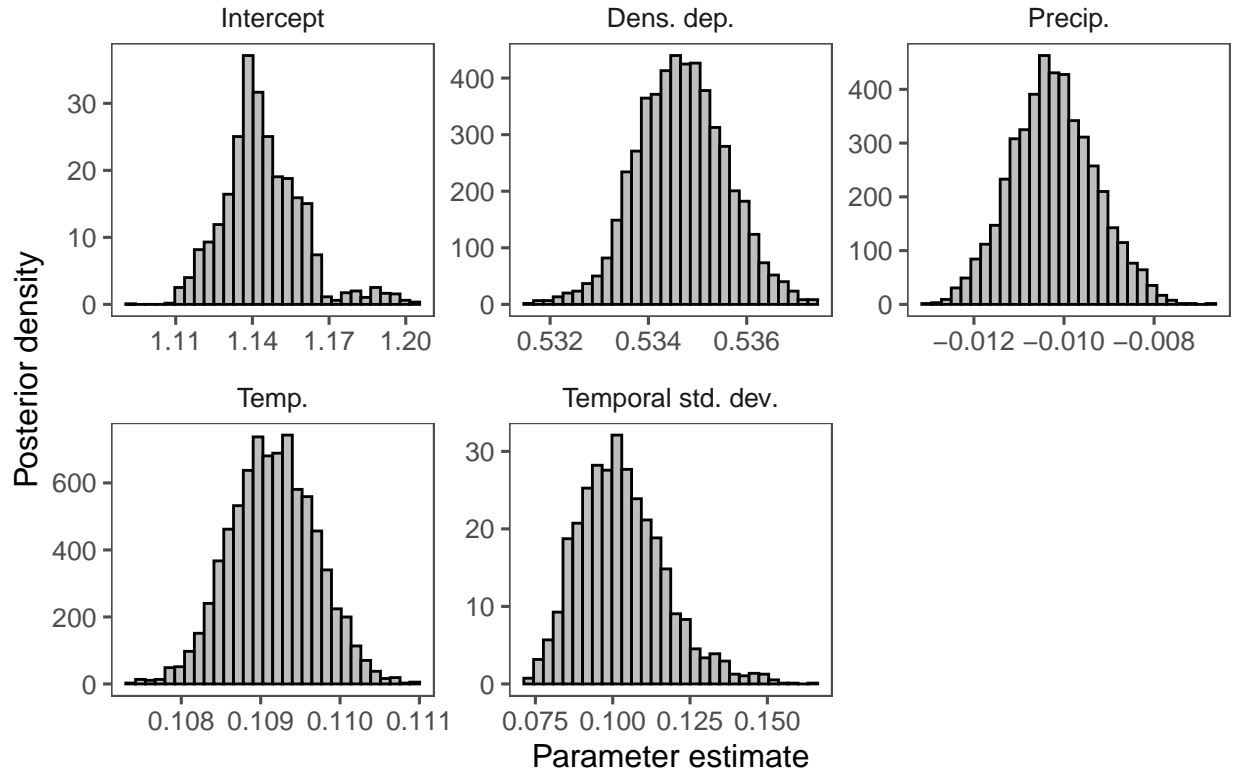
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.54	1.54	0.02	1.51	1.58
Density dependence, $\beta_2$	0.31	0.31	0.00	0.31	0.31
Precipitation effect, $\beta_3$	-0.08	-0.08	0.00	-0.08	-0.08
Temperature effect, $\beta_4$	0.04	0.04	0.00	0.04	0.04
Std. dev. of temporal random effect, $\sigma_y$	0.12	0.11	0.01	0.09	0.15

## GreaterSouthPass3



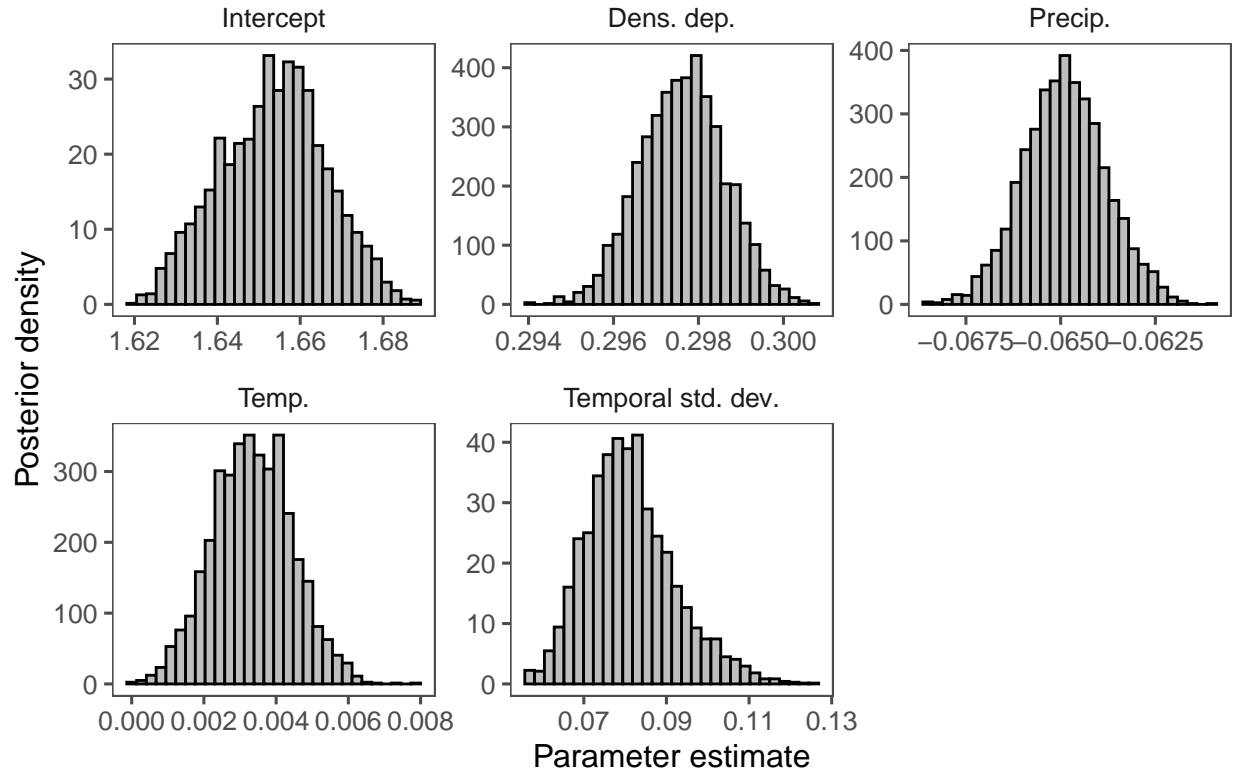
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.49	1.49	0.01	1.46	1.52
Density dependence, $\beta_2$	0.41	0.41	0.00	0.40	0.41
Precipitation effect, $\beta_3$	-0.06	-0.06	0.00	-0.06	-0.06
Temperature effect, $\beta_4$	0.04	0.04	0.00	0.04	0.04
Std. dev. of temporal random effect, $\sigma_y$	0.08	0.08	0.01	0.06	0.10

## GreaterSouthPass4



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.14	1.14	0.02	1.12	1.19
Density dependence, $\beta_2$	0.53	0.53	0.00	0.53	0.54
Precipitation effect, $\beta_3$	-0.01	-0.01	0.00	-0.01	-0.01
Temperature effect, $\beta_4$	0.11	0.11	0.00	0.11	0.11
Std. dev. of temporal random effect, $\sigma_y$	0.10	0.10	0.01	0.08	0.14

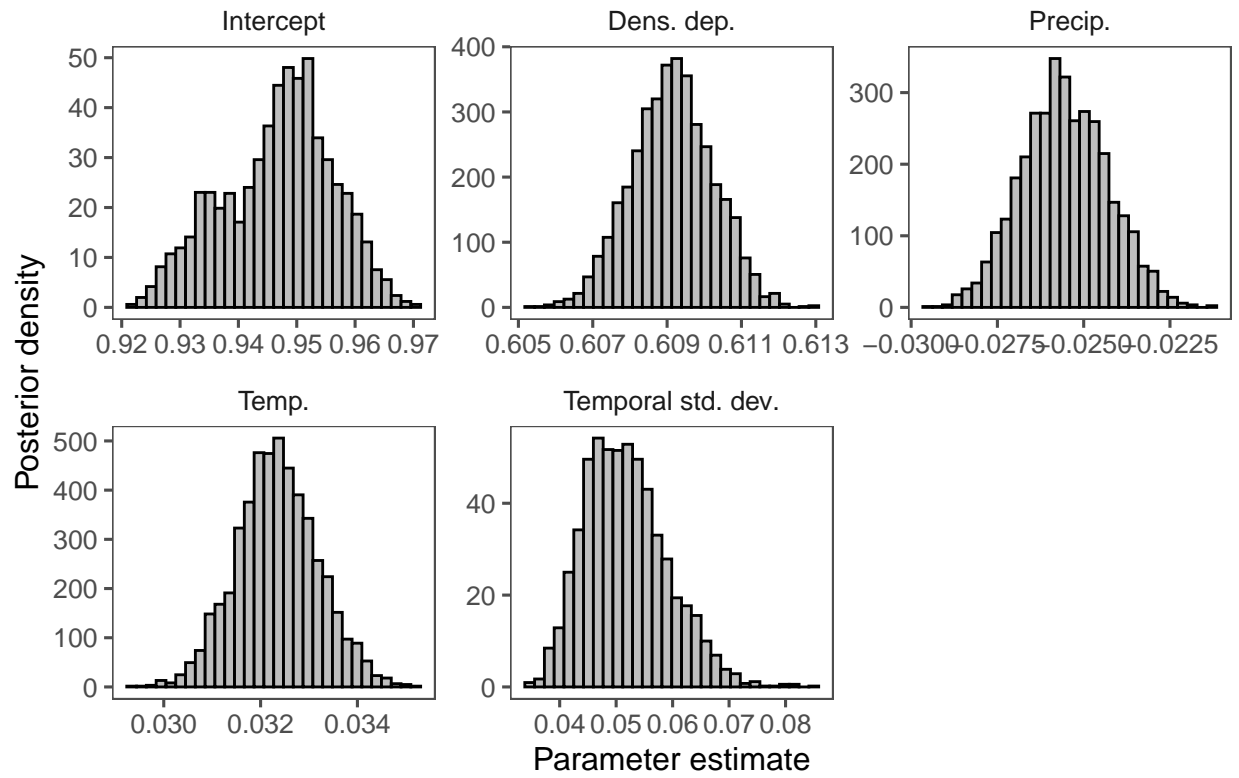
## GreaterSouthPass5



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.65	1.65	0.01	1.63	1.68
Density dependence, $\beta_2$	0.30	0.30	0.00	0.30	0.30
Precipitation effect, $\beta_3$	-0.06	-0.06	0.00	-0.07	-0.06
Temperature effect, $\beta_4$	0.00	0.00	0.00	0.00	0.01
Std. dev. of temporal random effect, $\sigma_y$	0.08	0.08	0.01	0.06	0.11

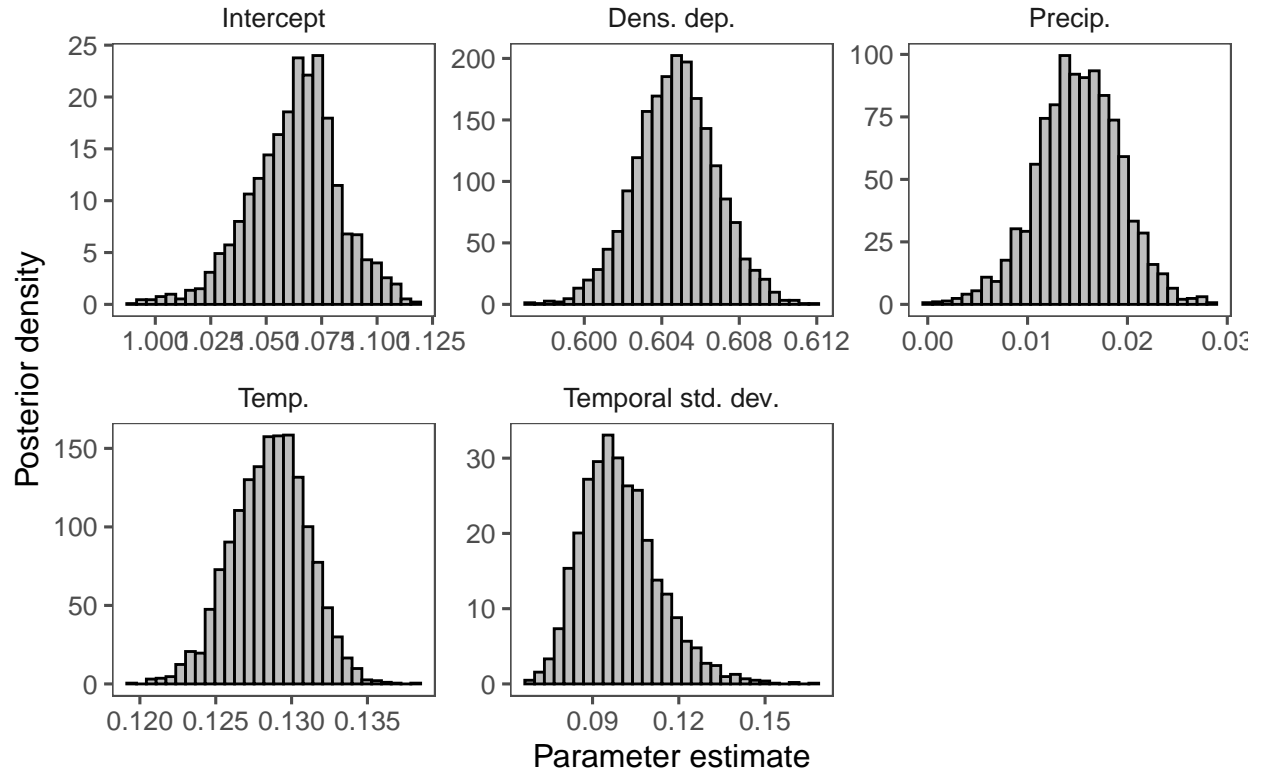


## Hanna



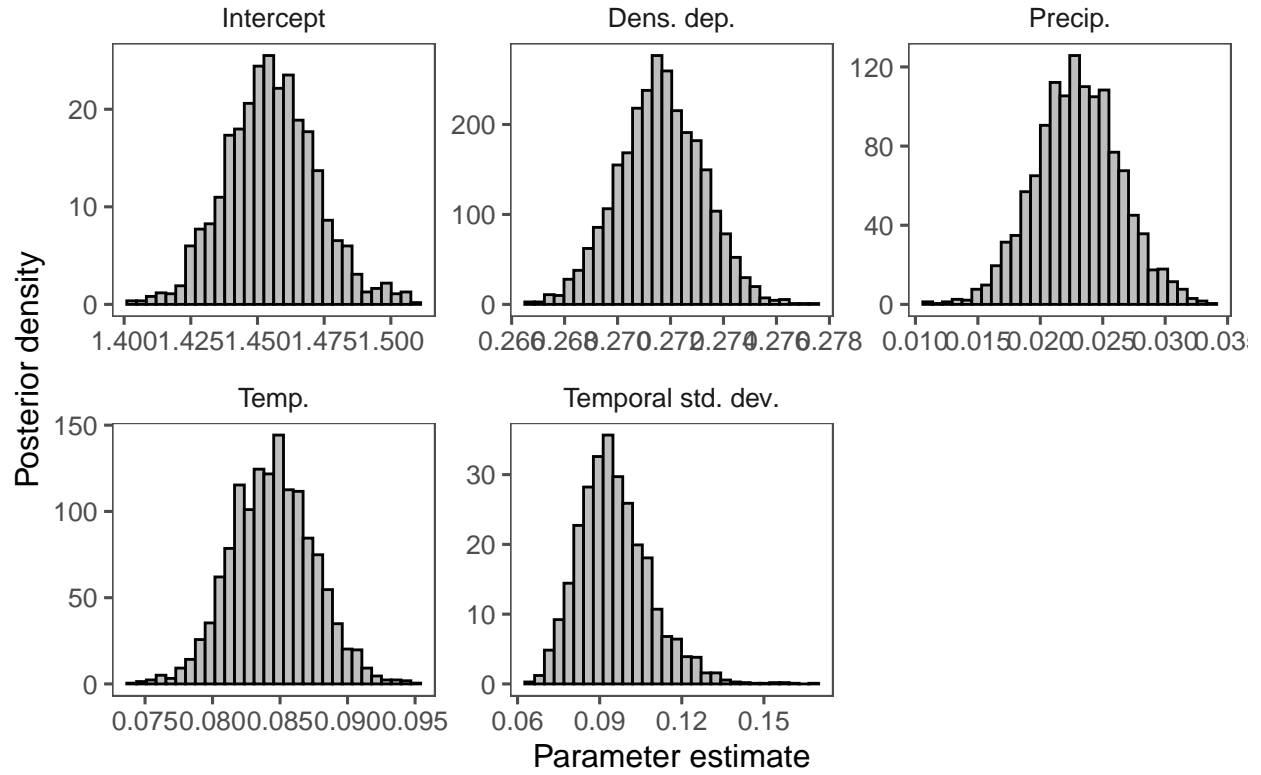
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.95	0.95	0.01	0.93	0.96
Density dependence, $\beta_2$	0.61	0.61	0.00	0.61	0.61
Precipitation effect, $\beta_3$	-0.03	-0.03	0.00	-0.03	-0.02
Temperature effect, $\beta_4$	0.03	0.03	0.00	0.03	0.03
Std. dev. of temporal random effect, $\sigma_y$	0.05	0.05	0.01	0.04	0.07

## HeartMountain



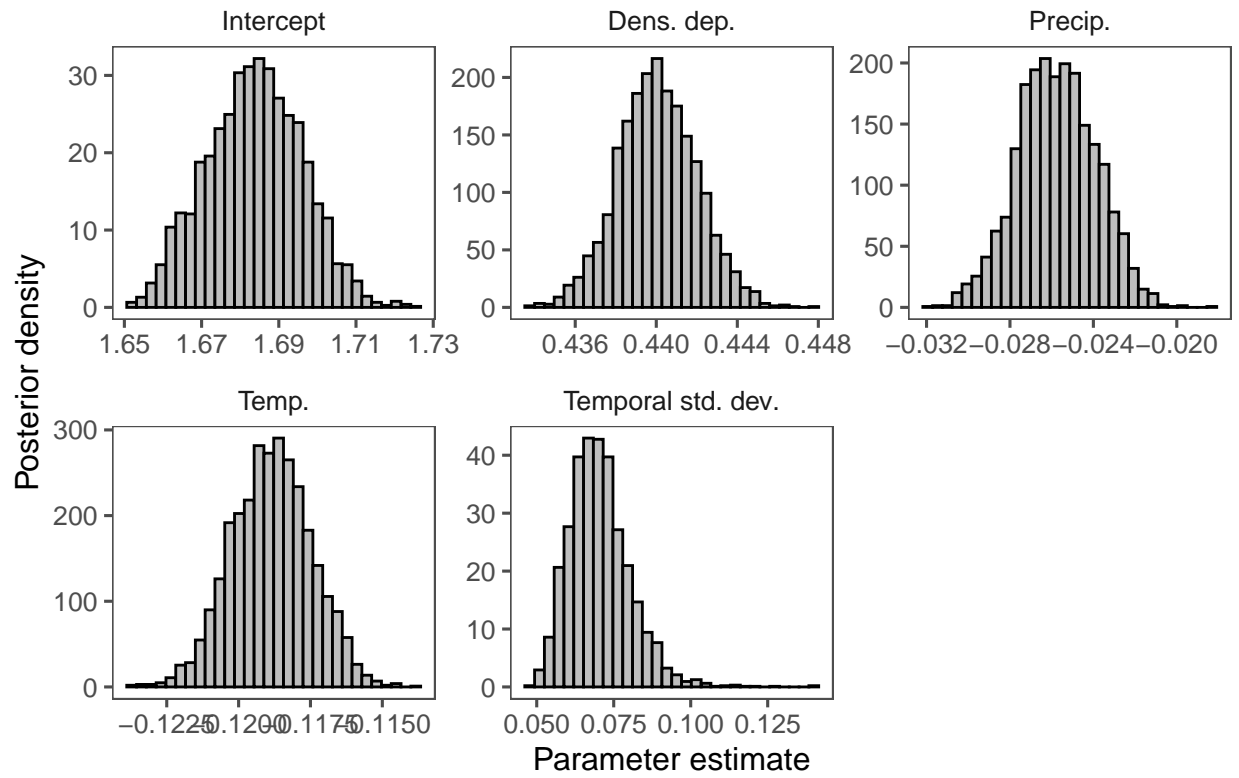
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.06	1.06	0.02	1.02	1.10
Density dependence, $\beta_2$	0.60	0.60	0.00	0.60	0.61
Precipitation effect, $\beta_3$	0.02	0.02	0.00	0.01	0.02
Temperature effect, $\beta_4$	0.13	0.13	0.00	0.12	0.13
Std. dev. of temporal random effect, $\sigma_y$	0.10	0.10	0.01	0.08	0.13

## Hyattville



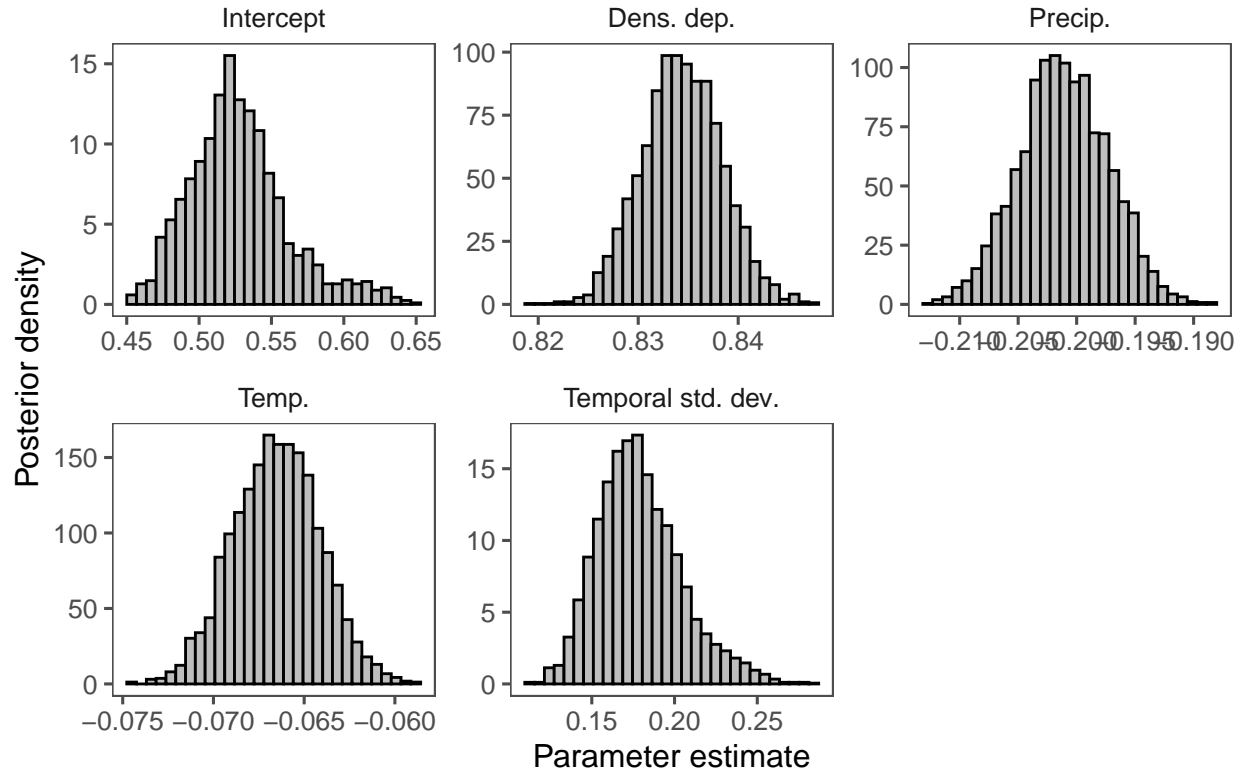
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.46	1.45	0.02	1.42	1.49
Density dependence, $\beta_2$	0.27	0.27	0.00	0.27	0.27
Precipitation effect, $\beta_3$	0.02	0.02	0.00	0.02	0.03
Temperature effect, $\beta_4$	0.08	0.08	0.00	0.08	0.09
Std. dev. of temporal random effect, $\sigma_y$	0.10	0.09	0.01	0.07	0.12

## Jackson



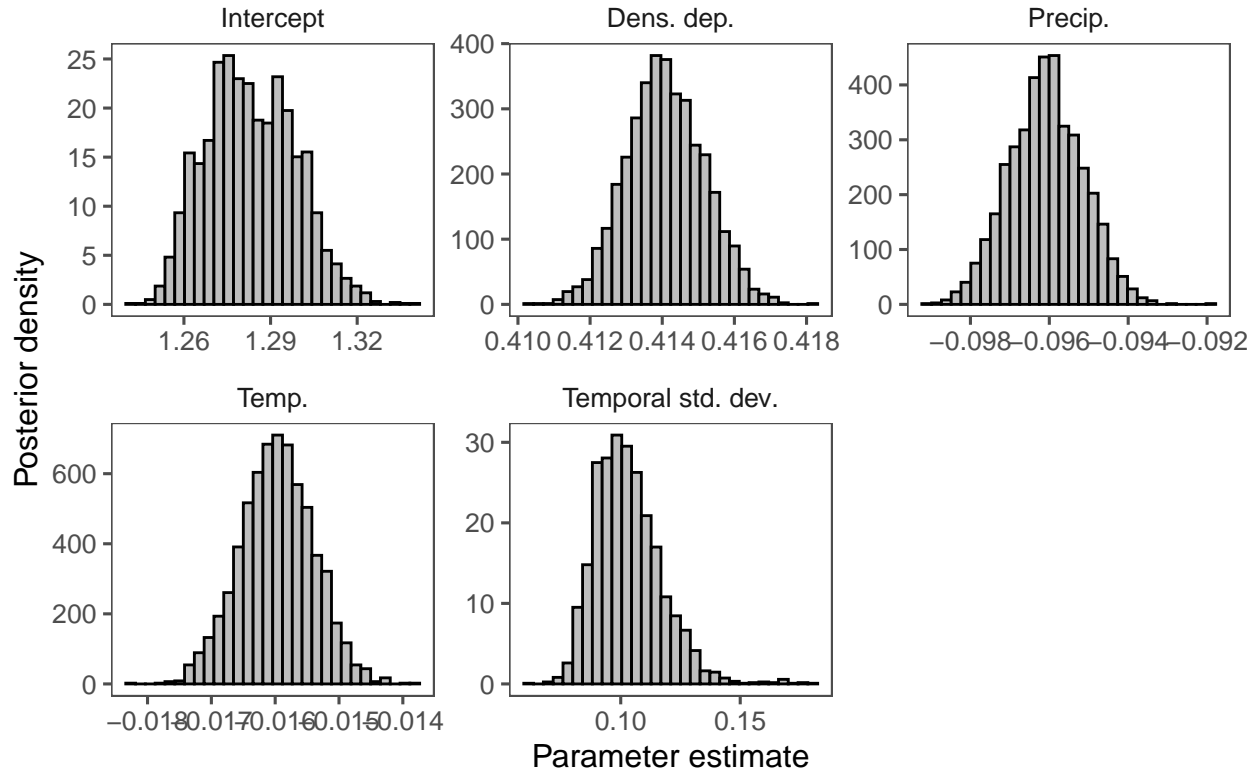
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.68	1.68	0.01	1.66	1.71
Density dependence, $\beta_2$	0.44	0.44	0.00	0.44	0.44
Precipitation effect, $\beta_3$	-0.03	-0.03	0.00	-0.03	-0.02
Temperature effect, $\beta_4$	-0.12	-0.12	0.00	-0.12	-0.12
Std. dev. of temporal random effect, $\sigma_y$	0.07	0.07	0.01	0.05	0.09

## LittleMountain



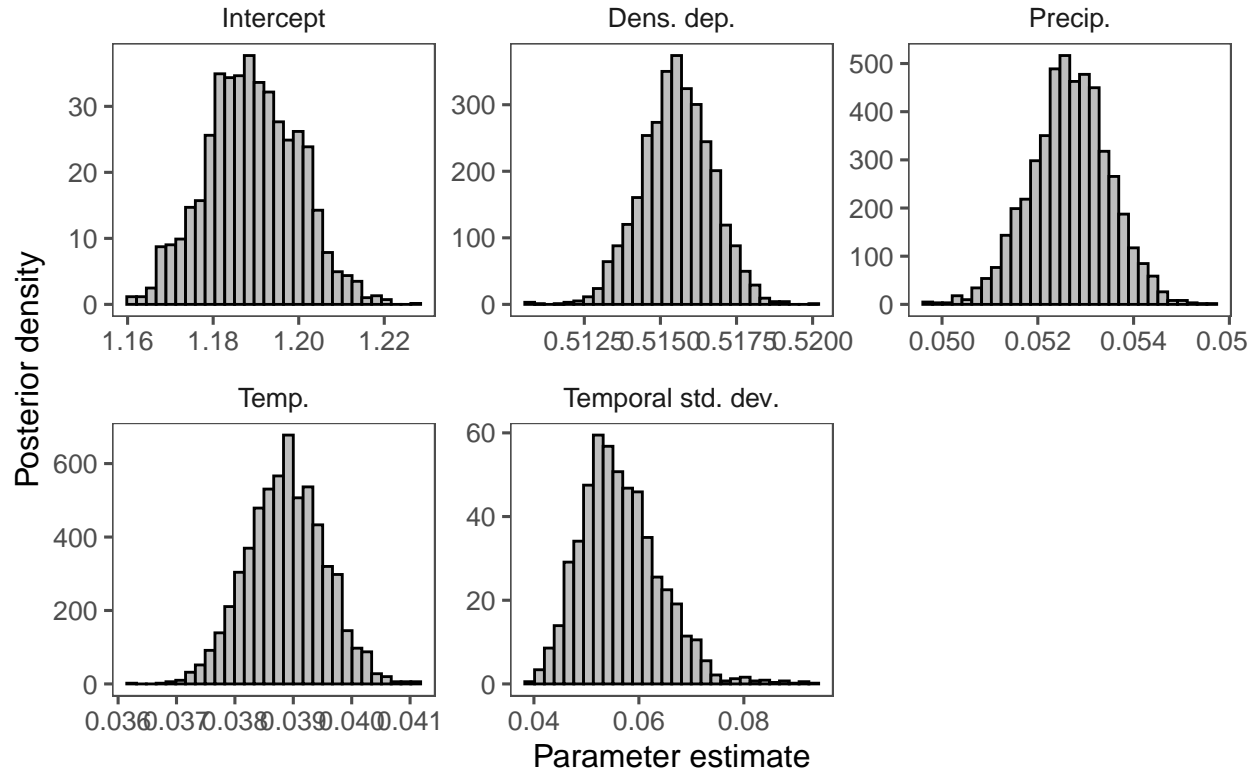
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.53	0.52	0.03	0.47	0.61
Density dependence, $\beta_2$	0.83	0.83	0.00	0.83	0.84
Precipitation effect, $\beta_3$	-0.20	-0.20	0.00	-0.21	-0.19
Temperature effect, $\beta_4$	-0.07	-0.07	0.00	-0.07	-0.06
Std. dev. of temporal random effect, $\sigma_y$	0.18	0.18	0.03	0.14	0.24

## Natrona1



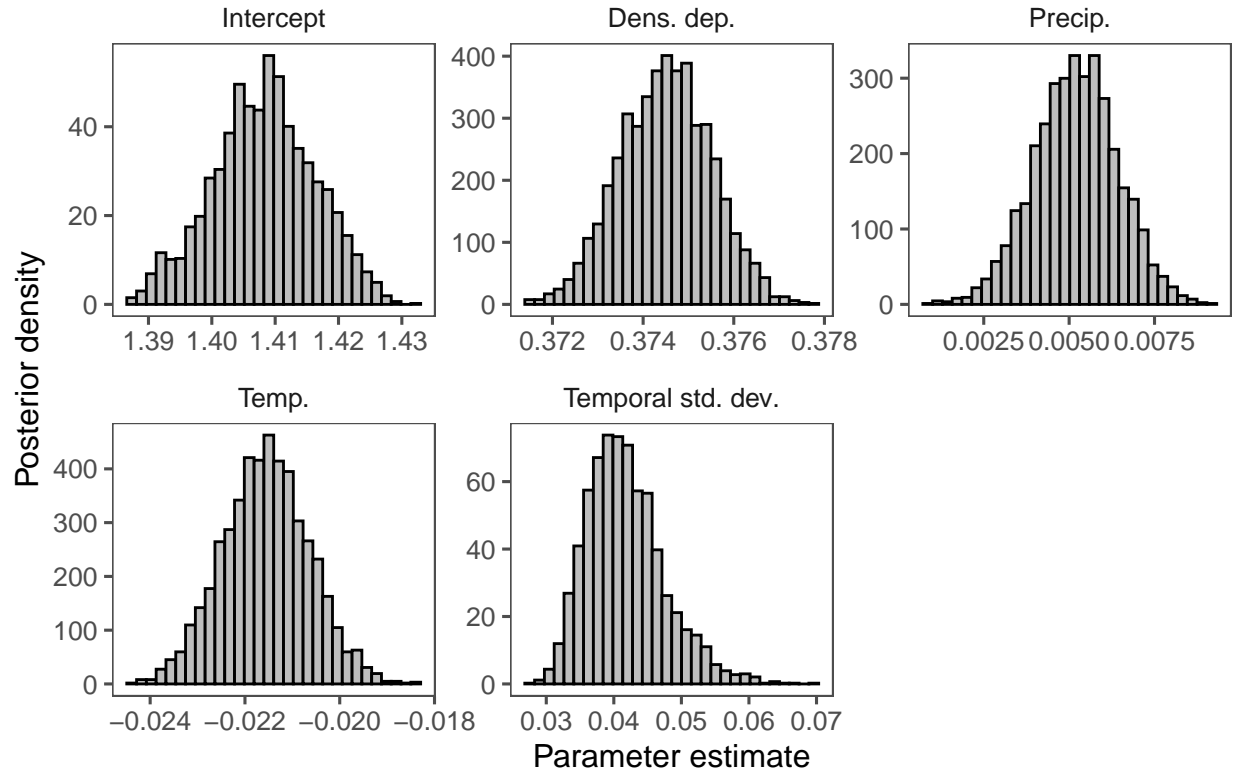
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.28	1.28	0.02	1.26	1.31
Density dependence, $\beta_2$	0.41	0.41	0.00	0.41	0.42
Precipitation effect, $\beta_3$	-0.10	-0.10	0.00	-0.10	-0.09
Temperature effect, $\beta_4$	-0.02	-0.02	0.00	-0.02	-0.01
Std. dev. of temporal random effect, $\sigma_y$	0.10	0.10	0.01	0.08	0.13

## Natrona2



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.19	1.19	0.01	1.17	1.21
Density dependence, $\beta_2$	0.52	0.52	0.00	0.51	0.52
Precipitation effect, $\beta_3$	0.05	0.05	0.00	0.05	0.05
Temperature effect, $\beta_4$	0.04	0.04	0.00	0.04	0.04
Std. dev. of temporal random effect, $\sigma_y$	0.06	0.06	0.01	0.04	0.07

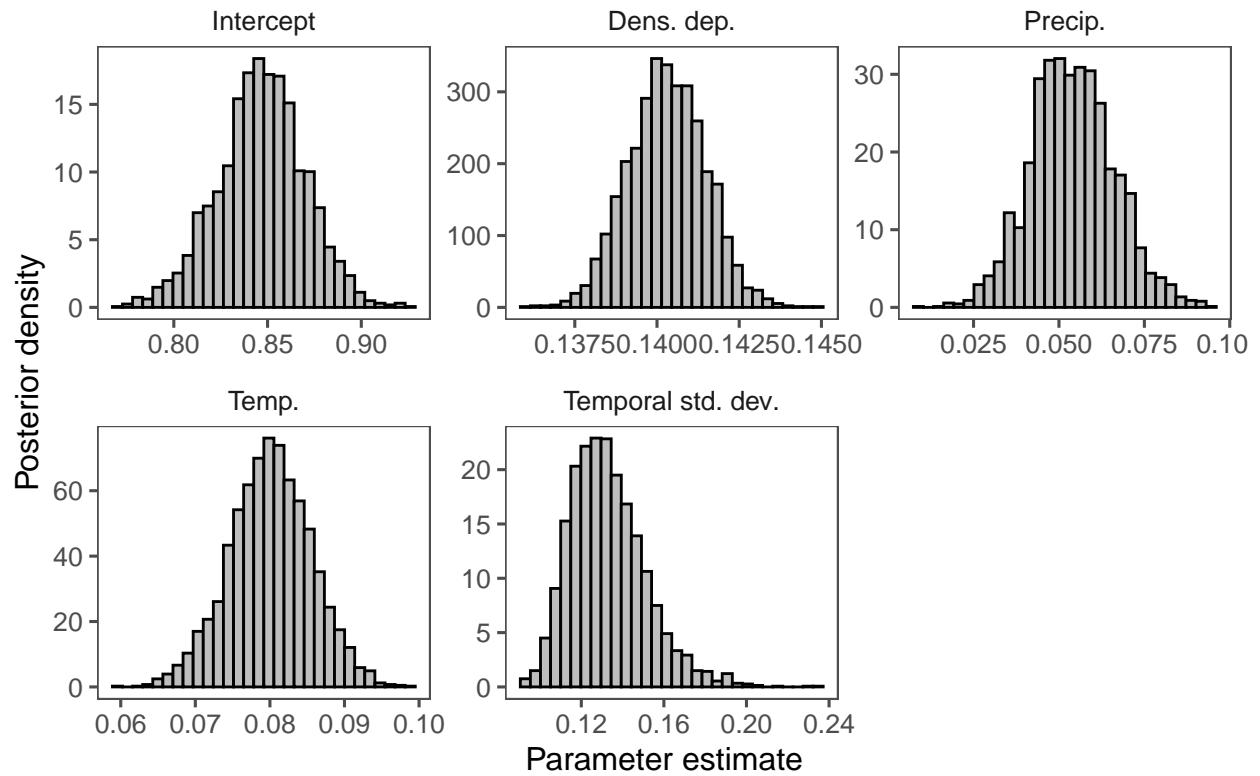
## Natrona3



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.41	1.41	0.01	1.39	1.42
Density dependence, $\beta_2$	0.37	0.37	0.00	0.37	0.38
Precipitation effect, $\beta_3$	0.01	0.01	0.00	0.00	0.01
Temperature effect, $\beta_4$	-0.02	-0.02	0.00	-0.02	-0.02
Std. dev. of temporal random effect, $\sigma_y$	0.04	0.04	0.01	0.03	0.05

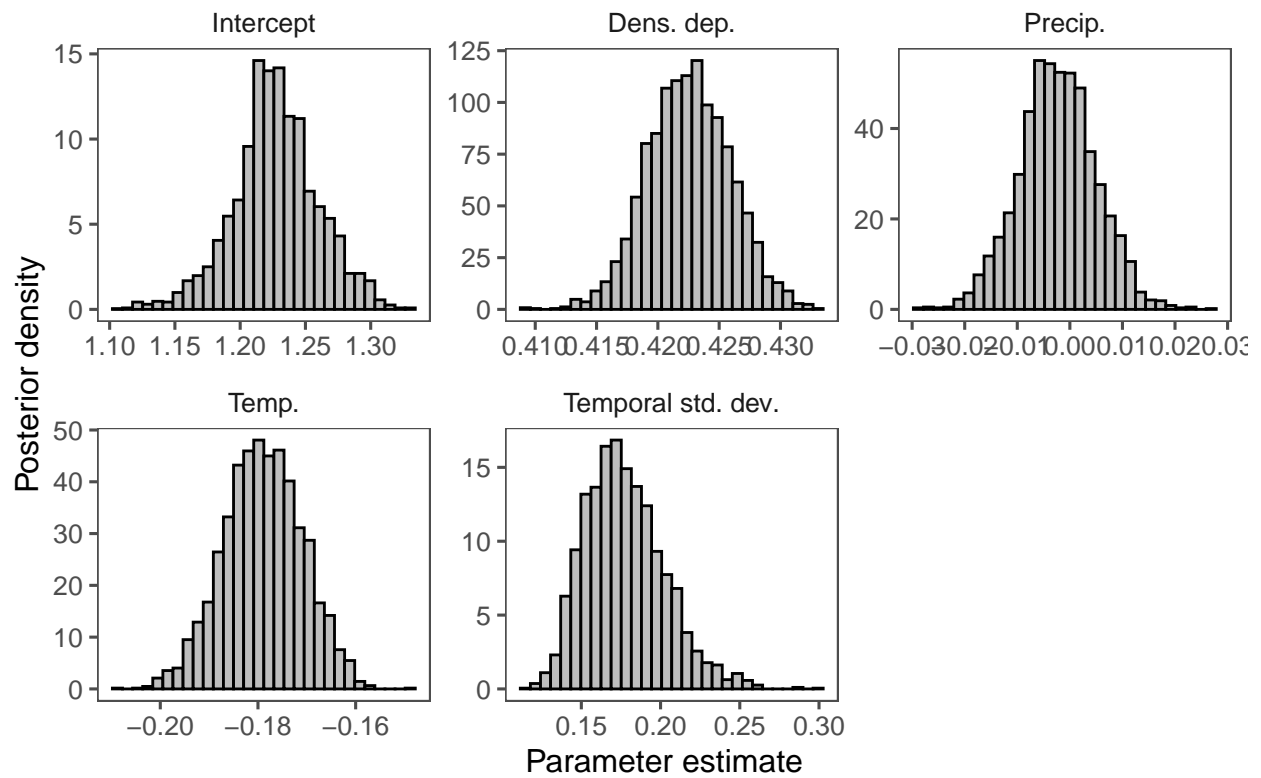


## Newcastle



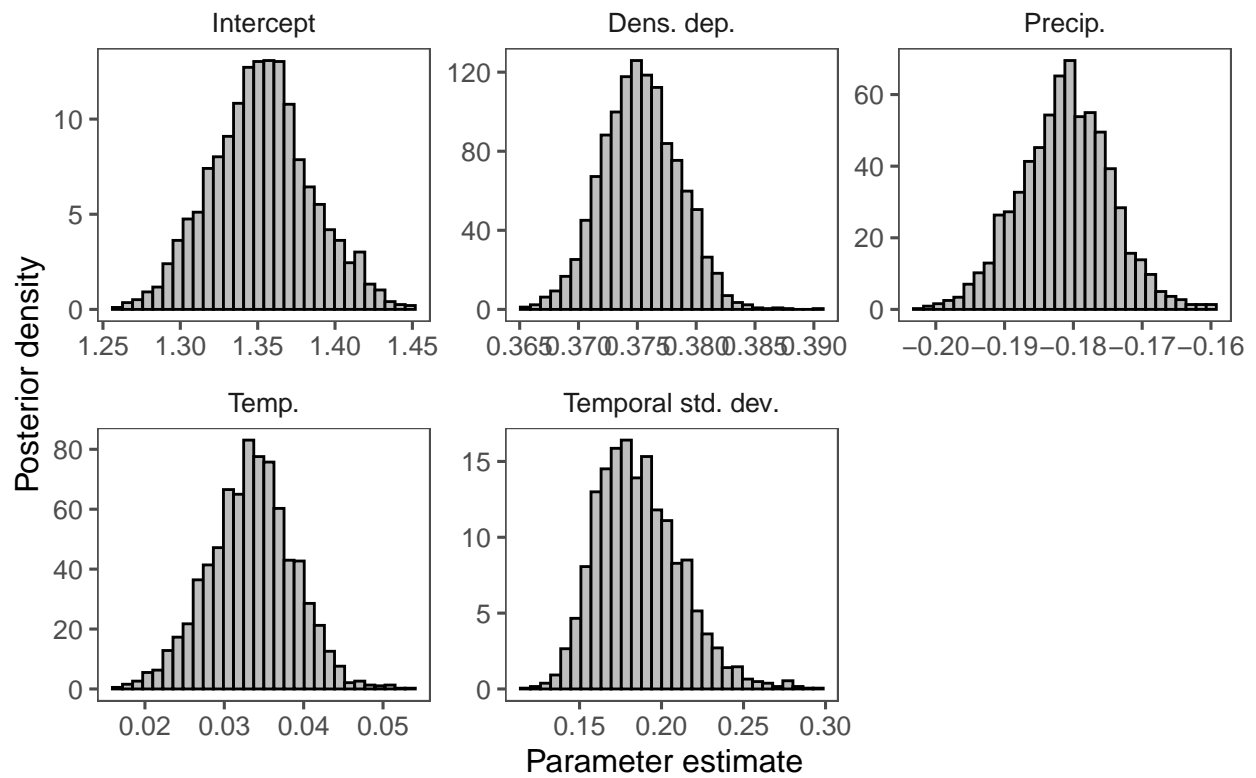
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.85	0.85	0.02	0.80	0.89
Density dependence, $\beta_2$	0.14	0.14	0.00	0.14	0.14
Precipitation effect, $\beta_3$	0.05	0.05	0.01	0.03	0.08
Temperature effect, $\beta_4$	0.08	0.08	0.01	0.07	0.09
Std. dev. of temporal random effect, $\sigma_y$	0.13	0.13	0.02	0.10	0.17

## NorthGillette



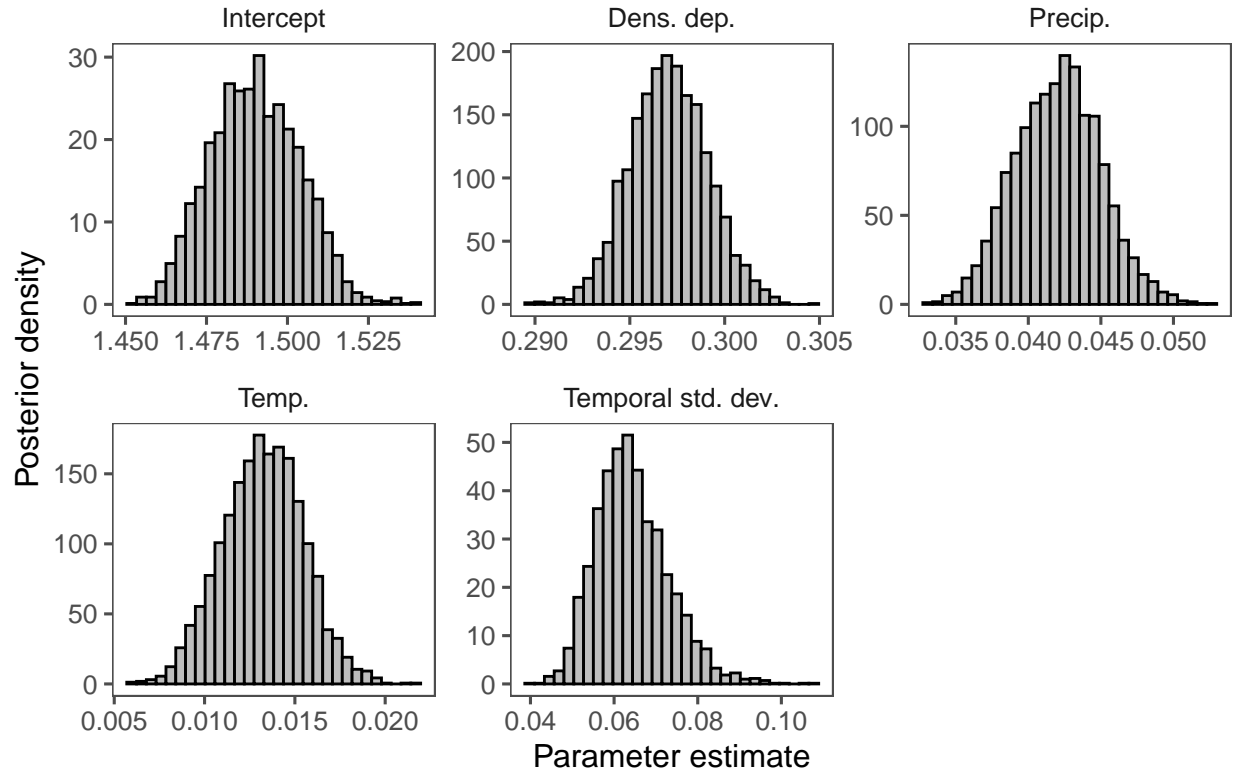
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.23	1.23	0.03	1.16	1.29
Density dependence, $\beta_2$	0.42	0.42	0.00	0.42	0.43
Precipitation effect, $\beta_3$	0.00	0.00	0.01	-0.02	0.01
Temperature effect, $\beta_4$	-0.18	-0.18	0.01	-0.20	-0.16
Std. dev. of temporal random effect, $\sigma_y$	0.18	0.17	0.02	0.14	0.23

## NorthGlenrock



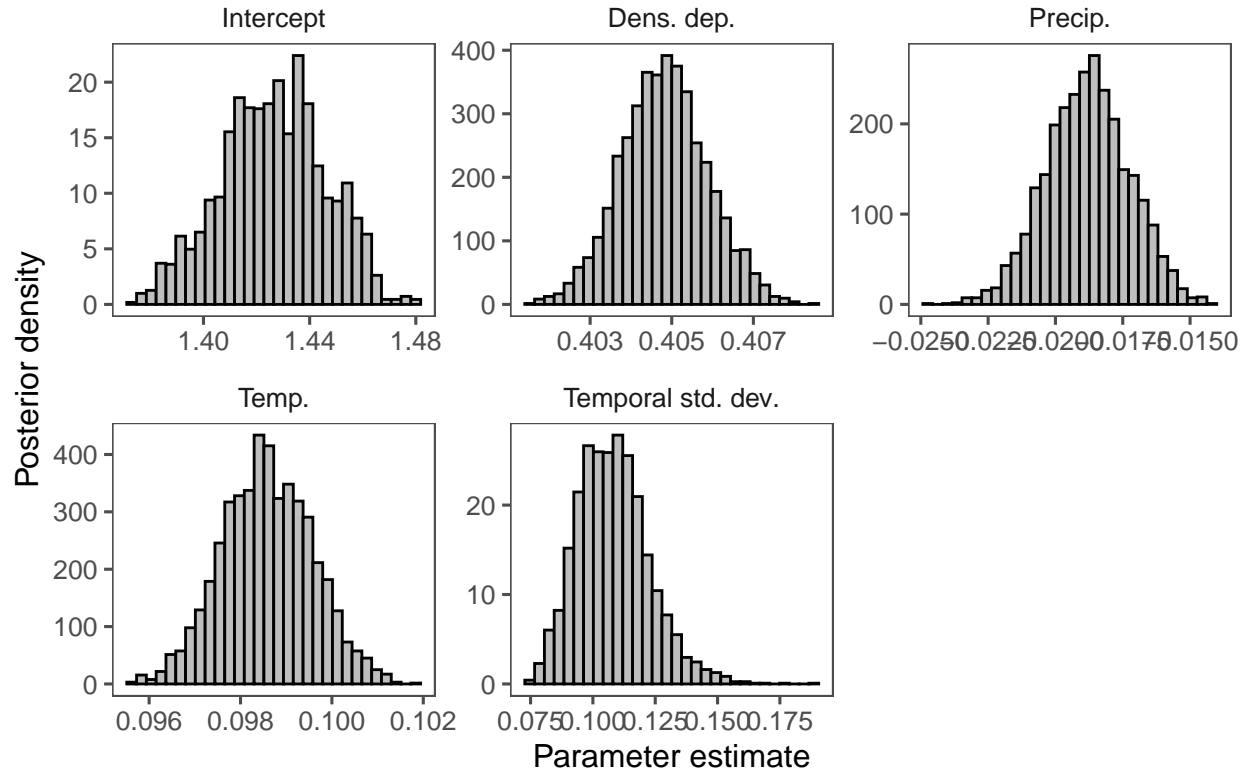
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.35	1.35	0.03	1.29	1.42
Density dependence, $\beta_2$	0.38	0.38	0.00	0.37	0.38
Precipitation effect, $\beta_3$	-0.18	-0.18	0.01	-0.19	-0.17
Temperature effect, $\beta_4$	0.03	0.03	0.01	0.02	0.04
Std. dev. of temporal random effect, $\sigma_y$	0.19	0.18	0.03	0.14	0.24

## NorthLaramie



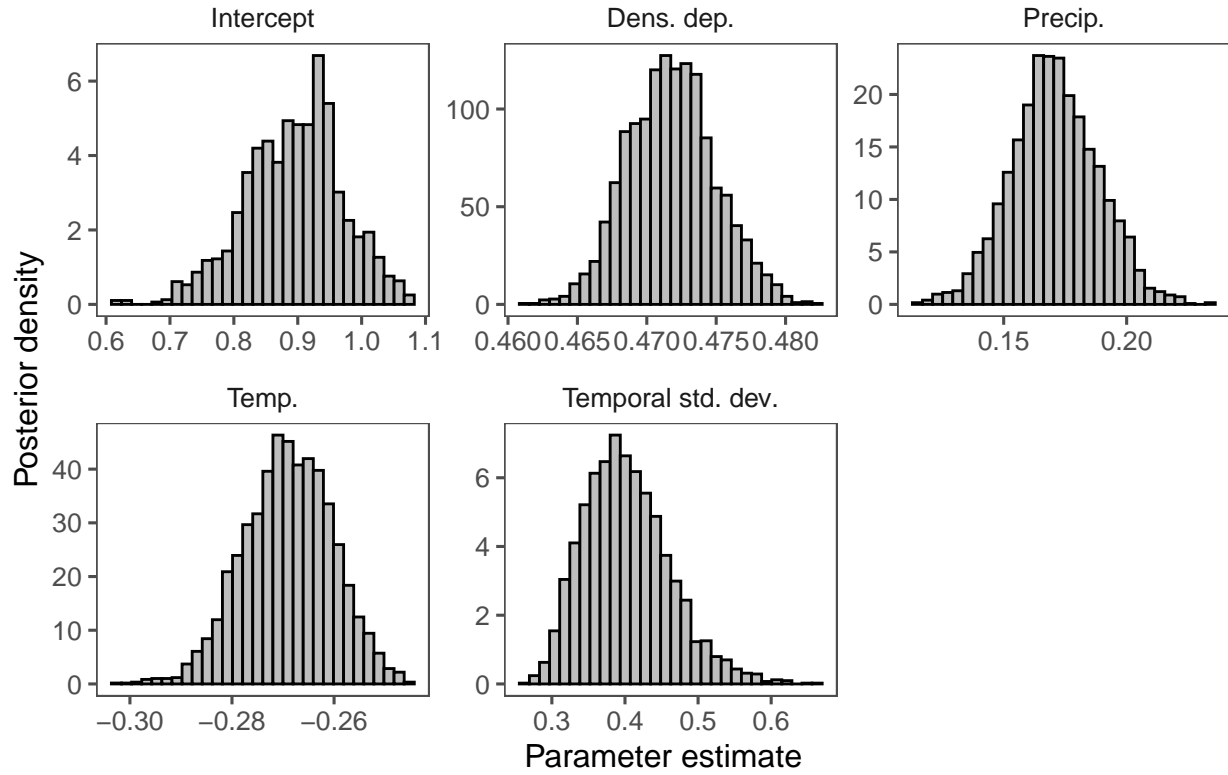
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.49	1.49	0.01	1.46	1.52
Density dependence, $\beta_2$	0.30	0.30	0.00	0.29	0.30
Precipitation effect, $\beta_3$	0.04	0.04	0.00	0.04	0.05
Temperature effect, $\beta_4$	0.01	0.01	0.00	0.01	0.02
Std. dev. of temporal random effect, $\sigma_y$	0.06	0.06	0.01	0.05	0.08

## OregonBasin



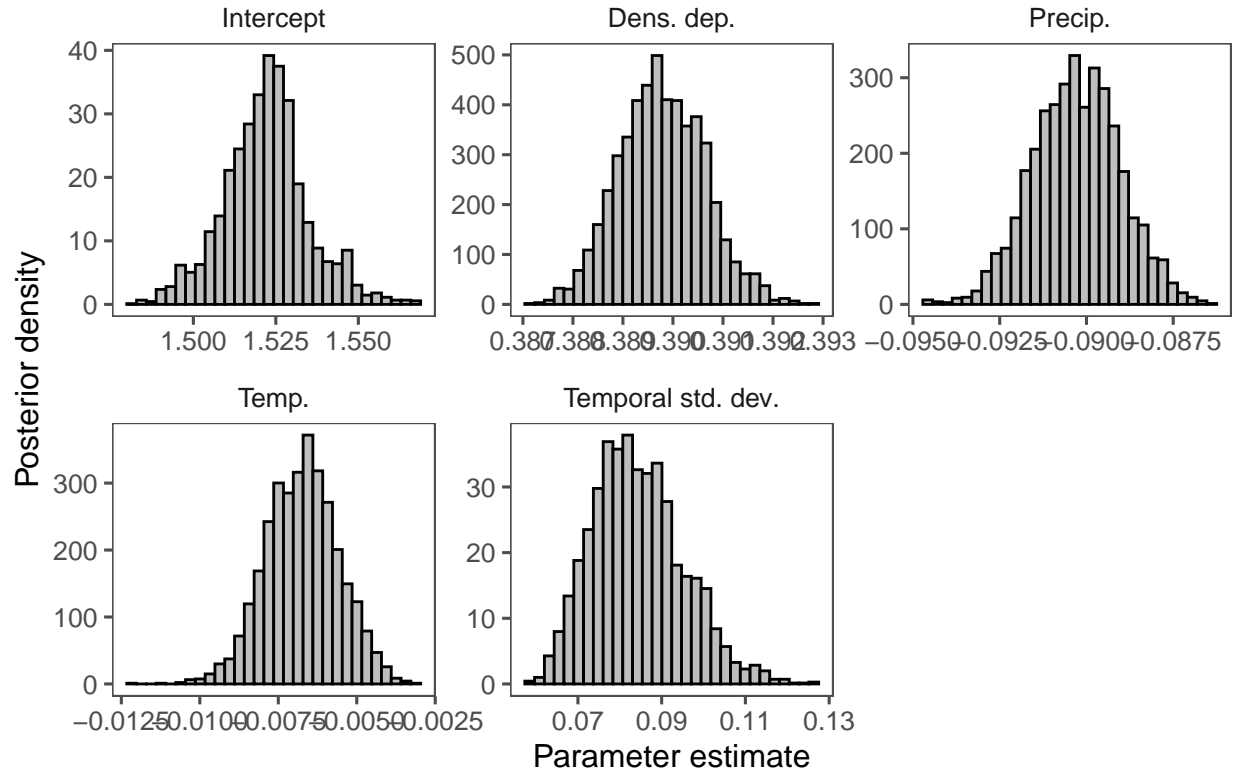
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.43	1.43	0.02	1.39	1.46
Density dependence, $\beta_2$	0.40	0.40	0.00	0.40	0.41
Precipitation effect, $\beta_3$	-0.02	-0.02	0.00	-0.02	-0.02
Temperature effect, $\beta_4$	0.10	0.10	0.00	0.10	0.10
Std. dev. of temporal random effect, $\sigma_y$	0.11	0.11	0.01	0.08	0.14

## Powder



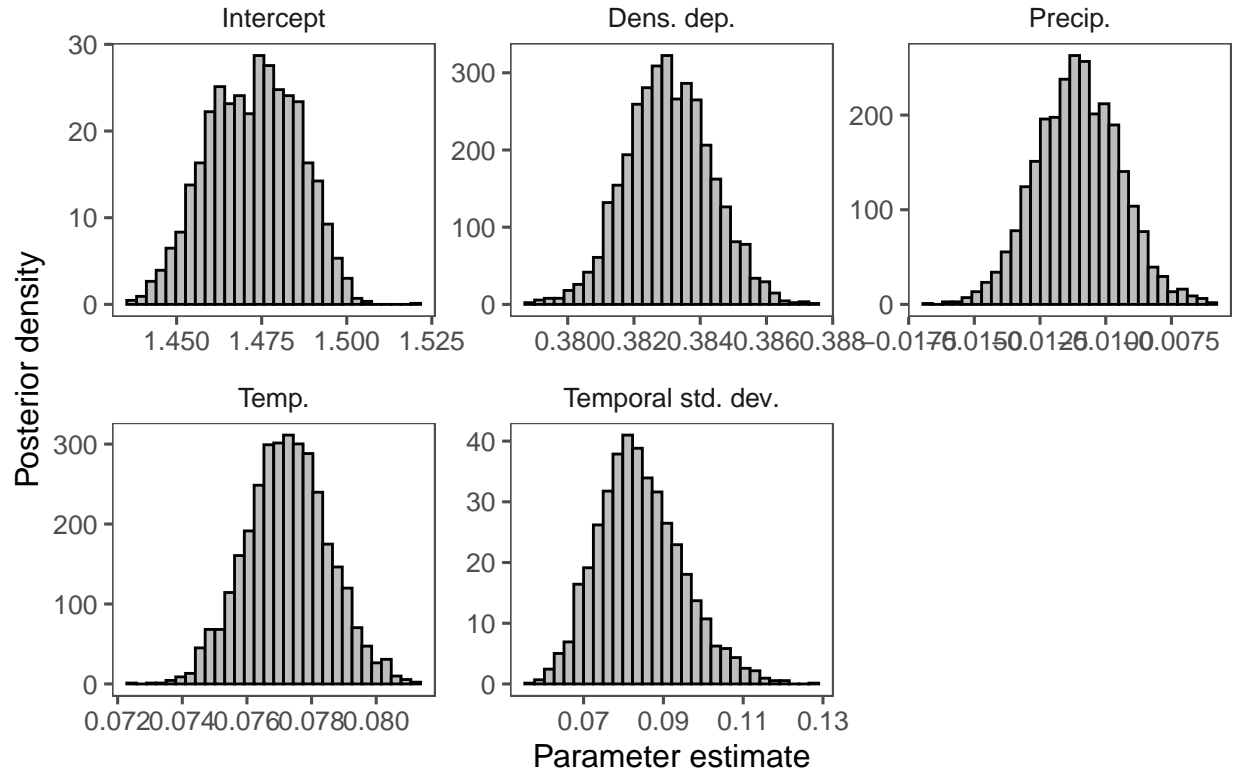
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.89	0.90	0.08	0.74	1.04
Density dependence, $\beta_2$	0.47	0.47	0.00	0.47	0.48
Precipitation effect, $\beta_3$	0.17	0.17	0.02	0.14	0.21
Temperature effect, $\beta_4$	-0.27	-0.27	0.01	-0.29	-0.25
Std. dev. of temporal random effect, $\sigma_y$	0.40	0.40	0.06	0.31	0.54

## Sage



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.52	1.52	0.01	1.50	1.55
Density dependence, $\beta_2$	0.39	0.39	0.00	0.39	0.39
Precipitation effect, $\beta_3$	-0.09	-0.09	0.00	-0.09	-0.09
Temperature effect, $\beta_4$	-0.01	-0.01	0.00	-0.01	0.00
Std. dev. of temporal random effect, $\sigma_y$	0.08	0.08	0.01	0.07	0.11

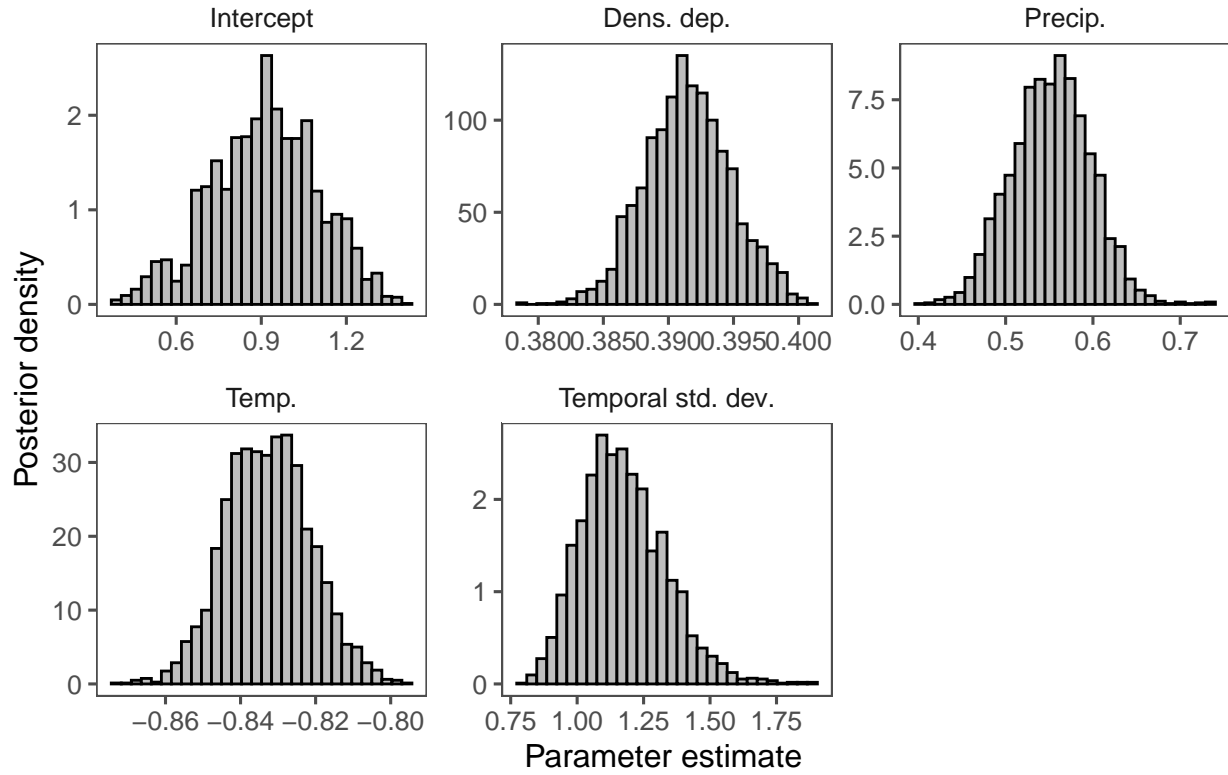
## SaltWells



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.47	1.47	0.01	1.45	1.50
Density dependence, $\beta_2$	0.38	0.38	0.00	0.38	0.39
Precipitation effect, $\beta_3$	-0.01	-0.01	0.00	-0.01	-0.01
Temperature effect, $\beta_4$	0.08	0.08	0.00	0.07	0.08
Std. dev. of temporal random effect, $\sigma_y$	0.08	0.08	0.01	0.07	0.11

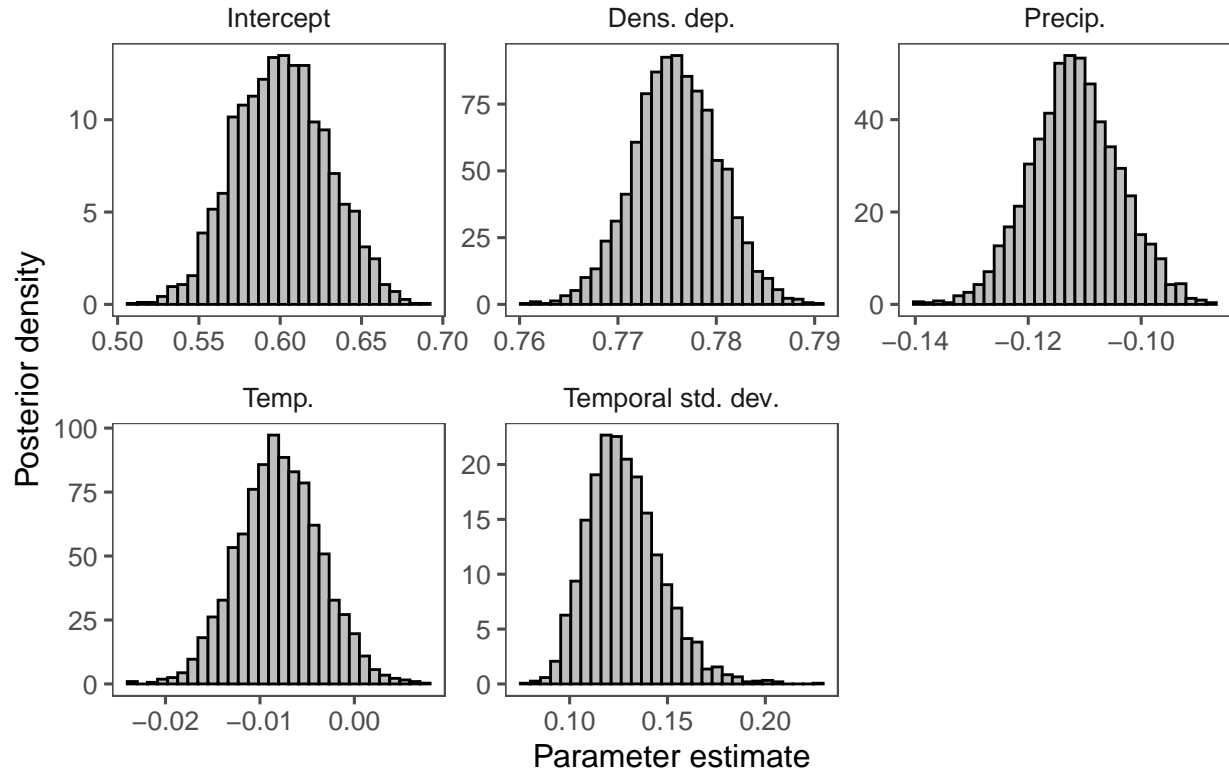


## Seedskadee



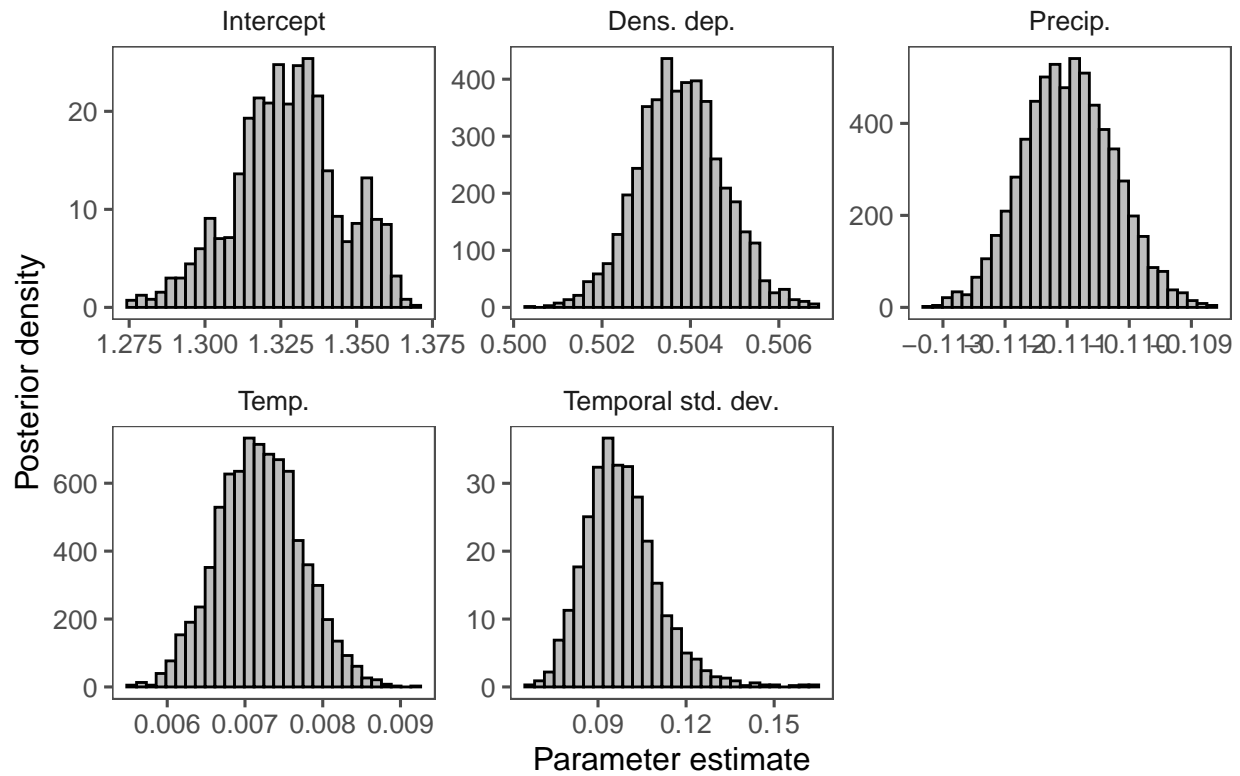
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.91	0.92	0.19	0.52	1.27
Density dependence, $\beta_2$	0.39	0.39	0.00	0.39	0.40
Precipitation effect, $\beta_3$	0.55	0.55	0.04	0.47	0.64
Temperature effect, $\beta_4$	-0.83	-0.83	0.01	-0.85	-0.81
Std. dev. of temporal random effect, $\sigma_y$	1.17	1.16	0.16	0.91	1.52

## Shell



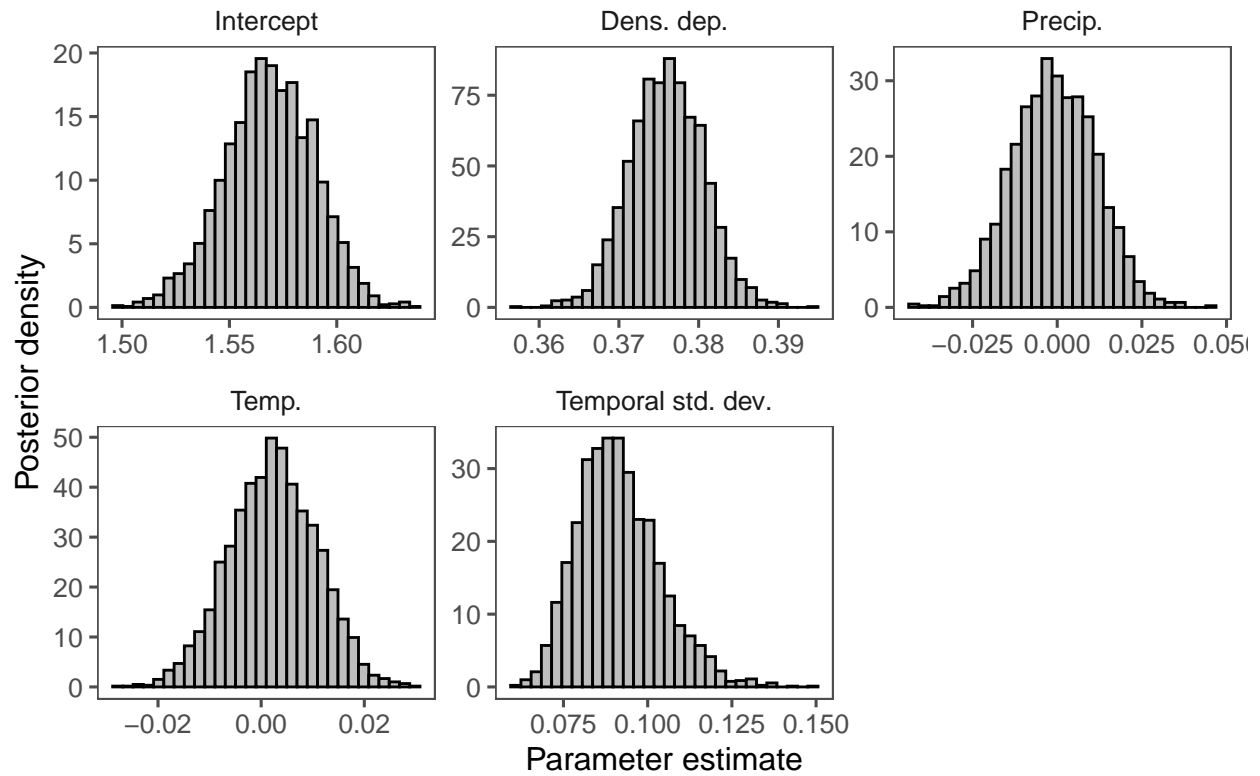
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	0.60	0.60	0.03	0.55	0.66
Density dependence, $\beta_2$	0.78	0.78	0.00	0.77	0.78
Precipitation effect, $\beta_3$	-0.11	-0.11	0.01	-0.13	-0.10
Temperature effect, $\beta_4$	-0.01	-0.01	0.00	-0.02	0.00
Std. dev. of temporal random effect, $\sigma_y$	0.13	0.13	0.02	0.10	0.17

## SouthRawlins



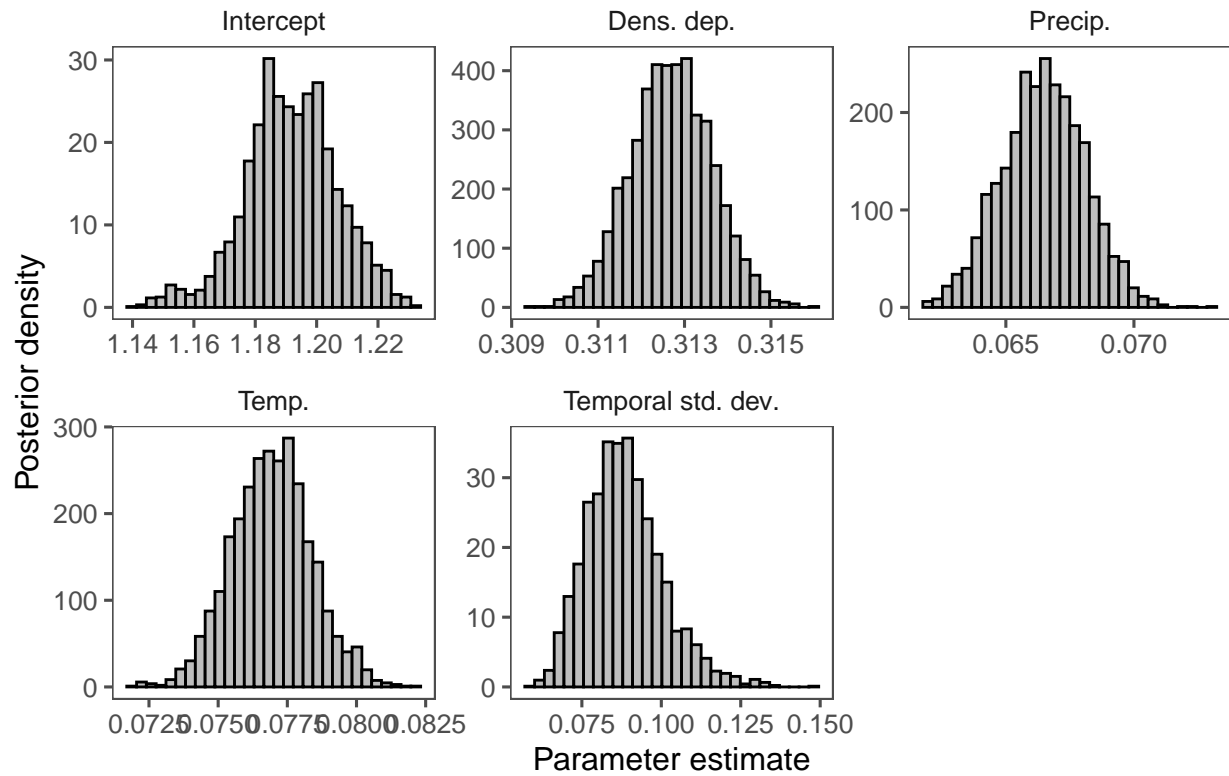
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.33	1.33	0.02	1.29	1.36
Density dependence, $\beta_2$	0.50	0.50	0.00	0.50	0.51
Precipitation effect, $\beta_3$	-0.11	-0.11	0.00	-0.11	-0.11
Temperature effect, $\beta_4$	0.01	0.01	0.00	0.01	0.01
Std. dev. of temporal random effect, $\sigma_y$	0.10	0.10	0.01	0.08	0.13

## Thermopolis



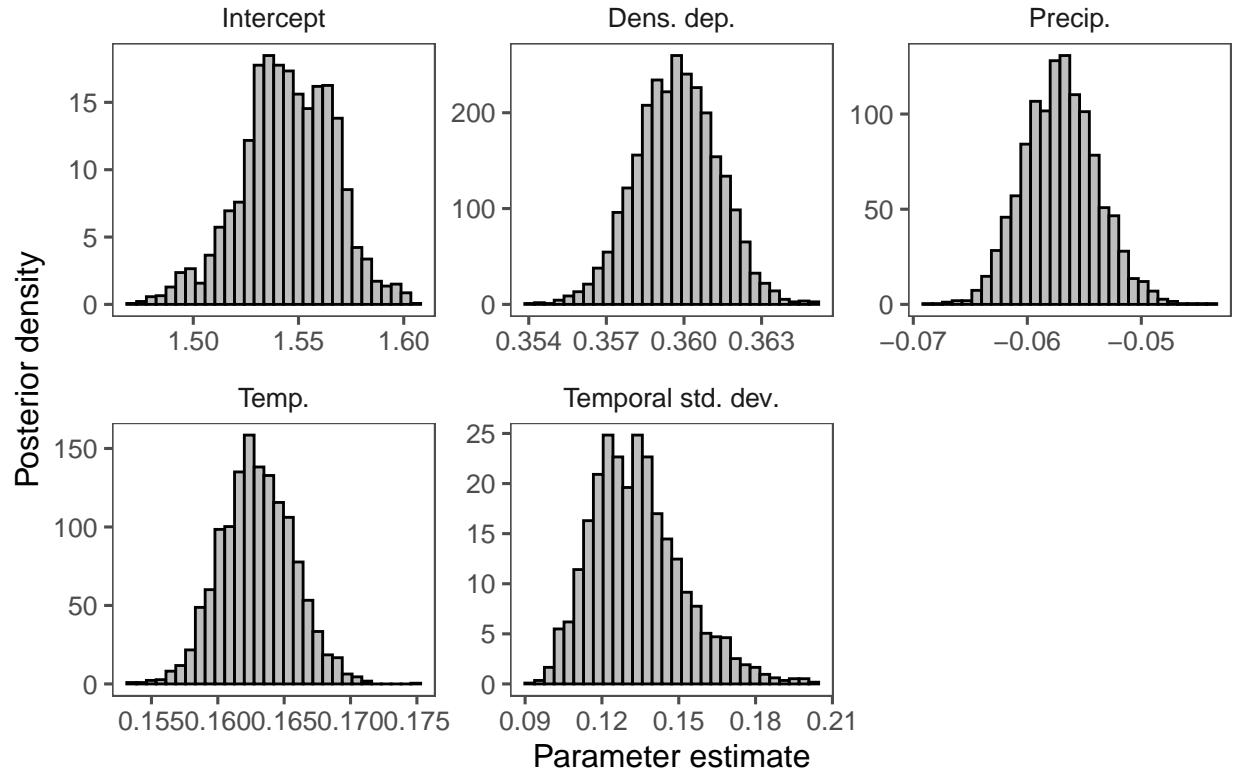
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.57	1.57	0.02	1.53	1.61
Density dependence, $\beta_2$	0.38	0.38	0.00	0.37	0.39
Precipitation effect, $\beta_3$	0.00	0.00	0.01	-0.03	0.02
Temperature effect, $\beta_4$	0.00	0.00	0.01	-0.01	0.02
Std. dev. of temporal random effect, $\sigma_y$	0.09	0.09	0.01	0.07	0.12

## ThunderBasin



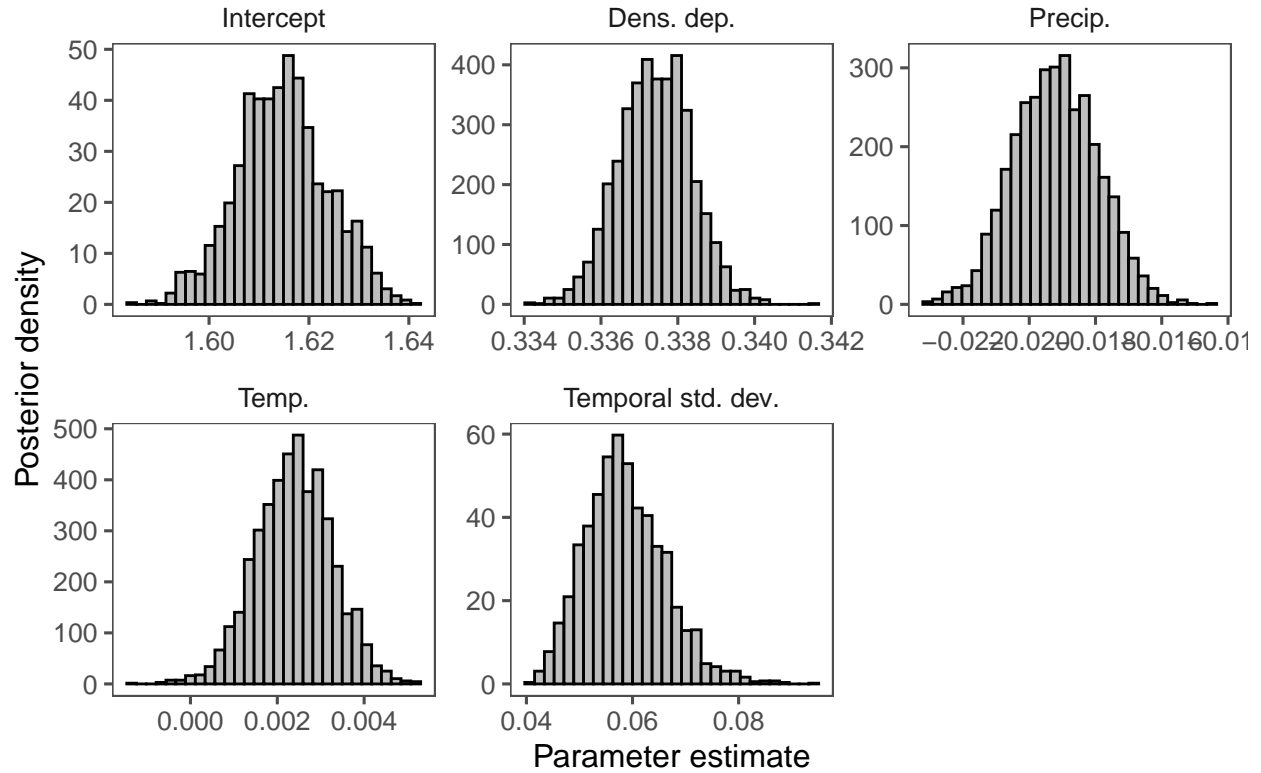
	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.19	1.19	0.02	1.16	1.22
Density dependence, $\beta_2$	0.31	0.31	0.00	0.31	0.31
Precipitation effect, $\beta_3$	0.07	0.07	0.00	0.06	0.07
Temperature effect, $\beta_4$	0.08	0.08	0.00	0.07	0.08
Std. dev. of temporal random effect, $\sigma_y$	0.09	0.09	0.01	0.07	0.12

## Uinta



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.54	1.54	0.02	1.50	1.59
Density dependence, $\beta_2$	0.36	0.36	0.00	0.36	0.36
Precipitation effect, $\beta_3$	-0.06	-0.06	0.00	-0.06	-0.05
Temperature effect, $\beta_4$	0.16	0.16	0.00	0.16	0.17
Std. dev. of temporal random effect, $\sigma_y$	0.13	0.13	0.02	0.10	0.17

## Washakie



	Mean	Median	SD	2.5%	97.5%
Intercept, $\beta_1$	1.61	1.61	0.01	1.60	1.63
Density dependence, $\beta_2$	0.34	0.34	0.00	0.34	0.34
Precipitation effect, $\beta_3$	-0.02	-0.02	0.00	-0.02	-0.02
Temperature effect, $\beta_4$	0.00	0.00	0.00	0.00	0.00
Std. dev. of temporal random effect, $\sigma_y$	0.06	0.06	0.01	0.05	0.08

## Nesting and summer cover thresholds

Name	Abbreviation	Region	NestingTarget	SummerTarget
Bear River	BrRv	Southwest Region	15.43	16.71
Blacks Fork	BlcF	Southwest Region	15.43	16.71
Buffalo	Bffl	Northeast Region	9.04	10.36
Continental Divide	CntD	Southwest Region	15.43	16.71
Crowheart	Crwh	Central Region	13.32	12.29
Daniel	Danl	Southwest Region	15.43	16.71
Douglas	Dgls	Northeast Region	9.04	10.36
Elk Basin East	ElBE	Central Region	13.32	12.29
Elk Basin West	ElBW	Central Region	13.32	12.29
Fontenelle	Fntn	Southwest Region	15.43	16.71
Grass Creek	GrsC	Central Region	13.32	12.29
Greater South Pass 1	GSP1	Southwest Region	15.43	16.71
Greater South Pass 2	GSP2	Southwest Region	15.43	16.71
Greater South Pass 3	GSP3	Central Region	13.32	12.29

Name	Abbreviation	Region	NestingTarget	SummerTarget
Greater South Pass 4	GSP4	Central Region	13.32	12.29
Greater South Pass 5	GSP5	Southwest Region	15.43	16.71
Hanna	Hann	Central Region	13.32	12.29
Heart Mountain	HrtM	Central Region	13.32	12.29
Hyattville	Hytt	Central Region	13.32	12.29
Jackson	Jcks	Southwest Region	15.43	16.71
Little Mountain	LttM	Central Region	13.32	12.29
Natrona 1	Ntr1	Central Region	13.32	12.29
Natrona 2	Ntr2	Central Region	13.32	12.29
Natrona 3	Ntr3	Northeast Region	9.04	10.36
Newcastle	Nwcs	Northeast Region	9.04	10.36
North Gillette	NrthGll	Northeast Region	9.04	10.36
North Glenrock	NrthGln	Northeast Region	9.04	10.36
North Laramie	NrtL	Central Region	13.32	12.29
Oregon Basin	OrgB	Central Region	13.32	12.29
Powder	Pwdr	Southwest Region	15.43	16.71
Sage	Sage	Southwest Region	15.43	16.71
Salt Wells	SltW	Southwest Region	15.43	16.71
Seedskaadee	Sdsk	Southwest Region	15.43	16.71
Shell	Shll	Central Region	13.32	12.29
South Rawlins	SthR	Central Region	13.32	12.29
Thermopolis	Thrm	Central Region	13.32	12.29
Thunder Basin	ThnB	Northeast Region	9.04	10.36
Uinta	Uint	Southwest Region	15.43	16.71
Washakie	Wshk	Central Region	13.32	12.29