

Estimation Summary Report

25 September 2019 01:13:57 pm

AIC: 390.638

Log-likelihood: -152.319

Release: -1.62708

A1: -10.3715

A2: -3.29583

A3: -3.37746

A4: -2.73161

A5: -4.88181

A6: -11.278

A7: -6.67444

A8: -4.83237

A9: -3.53534

A10: 0

A11: -8.52671

A12: -0.993178

A13: -1.33031

A14: -3.50382

B1: -1.48944

A15: -3.50423

A16: -1.41663

A17: 0

B1aux: -3.56603

A17aux: -1.53811

Release_d: -10.1872

A7_d: -18.7729

A8_d: -8.69161

A9_d: -5.90817

A10_d: -3.54898

A11_d: -7.50383

A12_d: -2.11741

A13_d: -1.63766

A14_d: -2.58979

B1_d: -1.98806

A15_d: -3.781

A16_d: -1.6941

A17_d: 0

B1aux_d: -4.44722

A17aux_d: -0.97692

Dimension of the Minimum Sufficient Statistic: 48

Number of parameters: 43

Categories and Corresponding Counts by Likelihood

"Release"

Total observed counts: 347

Category	Counts	Category	Counts	Category	Counts
RA1	343	RA2	0	RA3	0
RA4	0	RA5	0	RA6	0
RA7	0	RA8	0	RA9	0

RA10	0	RA11	0	RA12	0
RA13	0	RA14	0	RA15	0
RA16	0	RA17	0	RB1	0
Rx	4				

"A1"

Total observed counts: 343

Category	Counts	Category	Counts	Category	Counts
A1 A2	37	A1 A3	177	A1 A4	26
A1 A5	1	A1 A6	0	A1 A7	0
A1 A8	0	A1 A9	0	A1 A10	0
A1 A11	0	A1 A12	0	A1 A13	0
A1 A14	0	A1 A15	0	A1 A16	0
A1 A17	0	A1 B1	0	A1 x	102

"A2"

Total observed counts: 37

Category	Counts	Category	Counts	Category	Counts
A2 A3	28	A2 A4	5	A2 A5	0
A2 A6	0	A2 A7	0	A2 A8	0
A2 A9	0	A2 A10	0	A2 A11	0
A2 A12	0	A2 A13	0	A2 A14	0
A2 A15	0	A2 A16	0	A2 A17	0
A2 B1	0	A2 x	4		

"A3"

Total observed counts: 205

Category	Counts	Category	Counts	Category	Counts
A3 A4	176	A3 A5	0	A3 A6	0
A3 A7	0	A3 A8	0	A3 A9	0
A3 A10	0	A3 A11	0	A3 A12	0

A3 A13	0	A3 A14	0	A3 A15	0
A3 A16	0	A3 A17	0	A3 B1	0
A3 x	29				

"A4"

Total observed counts: 207

Category	Counts	Category	Counts	Category	Counts
A4 A5	158	A4 A6	0	A4 A7	0
A4 A8	0	A4 A9	0	A4 A10	0
A4 A11	0	A4 A12	0	A4 A13	0
A4 A14	0	A4 A15	0	A4 A16	0
A4 A17	0	A4 B1	0	A4 x	49

"A5"

Total observed counts: 159

Category	Counts	Category	Counts	Category	Counts
A5 A6	140	A5 A7	1	A5 A8	1
A5 A9	0	A5 A10	0	A5 A11	0
A5 A12	0	A5 A13	0	A5 A14	0
A5 A15	0	A5 A16	0	A5 A17	0
A5 B1	0	A5 x	17		

"A6"

Total observed counts: 140

Category	Counts	Category	Counts	Category	Counts
A6 A7	32	A6 A8	73	A6 A9	17
A6 A10	7	A6 A11	5	A6 A12	0
A6 A13	0	A6 A14	0	A6 A15	0
A6 A16	0	A6 A17	0	A6 B1	0
A6 x	6				

"A7"

Total observed counts: 33

Category	Counts	Category	Counts	Category	Counts
A7 A8	26	A7 A9	4	A7 A10	0
A7 A11	2	A7 A12	0	A7 A13	0
A7 A14	0	A7 A15	0	A7 A16	0
A7 A17	0	A7 B1	0	A7 x	1

"A8"

Total observed counts: 100

Category	Counts	Category	Counts	Category	Counts
A8 A9	73	A8 A10	14	A8 A11	13
A8 A12	0	A8 A13	0	A8 A14	0
A8 A15	0	A8 A16	0	A8 A17	0
A8 B1	0	A8 x	0		

"A9"

Total observed counts: 94

Category	Counts	Category	Counts	Category	Counts
A9 A10	46	A9 A11	47	A9 A12	0
A9 A13	0	A9 A14	0	A9 A15	0
A9 A16	0	A9 A17	0	A9 B1	0
A9 x	1				

"A10"

Total observed counts: 67

Category	Counts	Category	Counts	Category	Counts
A10 A11	67	A10 A12	0	A10 A13	0
A10 A14	0	A10 A15	0	A10 A16	0
A10 A17	0	A10 B1	0	A10 x	0

"A11"

Total observed counts: 134

Category	Counts	Category	Counts	Category	Counts

A11 A12	73	A11 A13	6	A11 A14	0
A11 A15	0	A11 A16	0	A11 A17	1
A11 B1	47	A11 x	7		

"A12"

Total observed counts: 73

Category	Counts	Category	Counts	Category	Counts
A12 A13	72	A12 A14	0	A12 A15	0
A12 A16	0	A12 A17	0	A12 x	1

"A13"

Total observed counts: 78

Category	Counts	Category	Counts	Category	Counts
A13 A14	76	A13 A15	0	A13 A16	0
A13 A17	0	A13 x	2		

"A14"

Total observed counts: 76

Category	Counts	Category	Counts	Category	Counts
A14 A15	43	A14 A16	1	A14 A17	0
A14 x	32				

"B1"

Total observed counts: 47

Category	Counts	Category	Counts	Category	Counts
B1 A17	3	B1 x	44		

"A15"

Total observed counts: 43

Category	Counts	Category	Counts	Category	Counts
A15 A16	19	A15 A17	2	A15 x	22

"A16"

Total observed counts: 20

Category	Counts	Category	Counts	Category	Counts
A16A17	17	A16 x	3		

"A17"

Total observed counts: 23

Category	Counts	Category	Counts	Category	Counts
A17 x	23				

"B1aux"

Total observed counts: 47

Category	Counts	Category	Counts	Category	Counts
B1ab	18	B1a0	2	B10b	27

"A17aux"

Total observed counts: 23

Category	Counts	Category	Counts	Category	Counts
A17ab	19	A17a0	4	A170b	0

"Release_d"

Total observed counts: 354

Category	Counts	Category	Counts	Category	Counts
RA7_d	190	RA8_d	136	RA9_d	14
RA10_d	3	RA11_d	2	RA12_d	0
RA13_d	0	RA14_d	0	RA15_d	0
RA16_d	0	RA17_d	0	RB1_d	0
Rx_d	9				

"A7_d"

Total observed counts: 190

Category	Counts	Category	Counts	Category	Counts
A7A8_d	147	A7A9_d	12	A7A10_d	4
A7A11_d	3	A7A12_d	0	A7A13_d	0
A7A14_d	0	A7A15_d	0	A7A16_d	0

A7 A17_d	1	A7 B1_d	0	A7 x_d	23
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"A8_d"

Total observed counts: 283

Category	Counts	Category	Counts	Category	Counts
A8 A9_d	178	A8 A10_d	38	A8 A11_d	32
A8 A12_d	0	A8 A13_d	0	A8 A14_d	0
A8 A15_d	0	A8 A16_d	0	A8 A17_d	0
A8 B1_d	0	A8 x_d	35		

"A9_d"

Total observed counts: 204

Category	Counts	Category	Counts	Category	Counts
A9 A10_d	119	A9 A11_d	69	A9 A12_d	0
A9 A13_d	0	A9 A14_d	0	A9 A15_d	0
A9 A16_d	0	A9 A17_d	0	A9 B1_d	0
A9 x_d	16				

"A10_d"

Total observed counts: 164

Category	Counts	Category	Counts	Category	Counts
A10 A11_d	157	A10 A12_d	0	A10 A13_d	0
A10 A14_d	0	A10 A15_d	0	A10 A16_d	0
A10 A17_d	0	A10 B1_d	1	A10 x_d	6

"A11_d"

Total observed counts: 263

Category	Counts	Category	Counts	Category	Counts
A11 A12_d	123	A11 A13_d	6	A11 A14_d	0
A11 A15_d	0	A11 A16_d	0	A11 A17_d	0
A11 B1_d	120	A11 x_d	14		

"A12_d"

Total observed counts: 123

Category	Counts	Category	Counts	Category	Counts
A12A13_d	111	A12A14_d	0	A12A15_d	0
A12A16_d	0	A12A17_d	0	A12 x_d	12

"A13_d"

Total observed counts: 117

Category	Counts	Category	Counts	Category	Counts
A13A14_d	113	A13A15_d	0	A13A16_d	0
A13A17_d	0	A13 x_d	4		

"A14_d"

Total observed counts: 113

Category	Counts	Category	Counts	Category	Counts
A14A15_d	53	A14A16_d	0	A14A17_d	0
A14 x_d	60				

"B1_d"

Total observed counts: 121

Category	Counts	Category	Counts	Category	Counts
B1A17_d	5	B1 x_d	116		

"A15_d"

Total observed counts: 53

Category	Counts	Category	Counts	Category	Counts
A15A16_d	20	A15A17_d	3	A15 x_d	30

"A16_d"

Total observed counts: 20

Category	Counts	Category	Counts	Category	Counts
A16A17_d	13	A16 x_d	7		

"A17_d"

Total observed counts: 22

Category	Counts	Category	Counts	Category	Counts

A17 x_d	22				
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"B1aux_d"

Total observed counts: 121

Category	Counts	Category	Counts	Category	Counts
B1ab_d	44	B1a0_d	2	B10b_d	75

"A17aux_d"

Total observed counts: 22

Category	Counts	Category	Counts	Category	Counts
A17ab_d	21	A17a0_d	0	A170b_d	1

Parameter Estimates

Parameter	Estimate	s.e.
sA1	0.988473	0.00573037
sA2	0.774715	0.0469177
sA3	0.911735	0.0524373
sA4	0.859817	0.0244108
sA5	0.763285	0.0295441
sA6	0.89368	0.0245264
sA7	1.02783	0.0145675
sA8	0.908443	0.020073
sA10	0.992101	0.00786452
sA12	0.970894	0.0147982
sA13	0.986448	0.0134533
sA14	0.969231	0.0123667
sA15	0.594045	0.0600804
sA16	0.476258	0.0537448
sA17	0.846011	0.0812761

sB1	0.0559655	0.0172599
psiA1	0.609326	0.0437779
pA2	0.139241	0.0224878
pA3	0.846154	0.0250171
pA4	0.993711	0.0062695
pA6	0.985255	0.0103467
pA7	0.226293	0.0346057
pA8	0.740374	0.0377529
pA9	0.694467	0.0228635
pA10	0.5	0.0431934
pA12	0.938609	0.0171601
pA16	0.855734	0.0596099
pA17b	0.826087	0.0790343
pB1a	0.369372	0.0374266
pB1b	0.917834	0.0319628
pA15	0.952436	0.0461044
sA10_d	0.935465	0.0198884
sA11_d	0.963843	0.0146701
psiA1_d	0.503422	0.0318942
pA10_d	0.596226	0.0301406
pA11_d	0.992012	0.00562549
pA17a_d	0.954545	0.0444095
sA17_d	0.658839	0.102932
sA15_d	0.469027	0.0469456
sA13_d	0.901747	0.026883
sA9_d	0.896052	0.0209926
pA8_d	0.862411	0.0203656

pA7_d	0.521874	0.0275706
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Convenience Functions

Name	Estimate	s.e.
psiB	0.390674	0.0437779
qA1	0	0
qA2	0.860759	0.0224878
qA3	0.153846	0.0250171
qA4	0.00628931	0.0062695
qA5	0	0
qA6	0.014745	0.0103467
qA7	0.773707	0.0346057
qA8	0.259626	0.0377529
qA9	0.305533	0.0228635
qA10	0.5	0.0431934
qA11	0	0
qA12	0.0613909	0.0171601
qA13	0	0
qA14	0	0
qA15	0.0475644	0.0461044
qA16	0.144266	0.0596099
qA17a	0	0
qA17b	0.173913	0.0790343
qA17	0	0
pA17	1	0
qB1a	0.630628	0.0374266
qB1b	0.0821656	0.0319628

qB1	0.0518159	0.0209941
pB1	0.948184	0.0209941
xA17	1	0
xA16	0.153989	0.0812761
xA15	0.534322	0.052022
xA14	0.421053	0.0566345
xA13	0.0307692	0.0123667
xA12	0.0135516	0.0134533
xB1	0.944034	0.0172599
xA11	0.0481522	0.01144
xA10	0	0
xA9	0.00789912	0.00786452
xA8	0.00241344	0.00241054
xA7	0.0921261	0.0200636
xA6	0.045432	0.00975952
xA5	0.106918	0.024506
xA4	0.236715	0.0295441
xA3	0.141463	0.0243402
xA2	0.108108	0.0510487
xA1	0.297376	0.0246813
x0	0.0115274	0.00573037
gamma_A11A17	0.00109994	0.000575542
pA11	1	0
pA1	1	0
pA5	1	0
pA13	1	0
sA11	1	0

sA9	1	0
pA14	1	0
pA17a	1	0
psiB_d	0.496578	0.0318942
qA7_d	0.478126	0.0275706
qA8_d	0.137589	0.0203656
qA9_d	0.305533	0.0228635
qA10_d	0.403774	0.0301406
qA11_d	0.00798826	0.00562549
qA12_d	0.0613909	0.0171601
qA13_d	0	0
qA14_d	0	0
qA15_d	0	0
qA16_d	0.144266	0.0596099
qA17a_d	0.0454545	0.0444095
qA17b_d	0	0
qA17_d	0	0
pA17_d	1	0
qB1a_d	0.630628	0.0374266
qB1b_d	0.0821656	0.0319628
qB1_d	0.0518159	0.0209941
pB1_d	0.948184	0.0209941
xA17_d	1	0
xA16_d	0.341161	0.102932
xA15_d	0.547182	0.0504541
xA14_d	0.530973	0.0469456
xA13_d	0.0307692	0.0123667

xA12_d	0.0982526	0.026883
xB1_d	0.944034	0.0172599
xA11_d	0.0556378	0.0112532
xA10_d	0.0365854	0.0146601
xA9_d	0.0783544	0.0187305
xA8_d	0.125399	0.0197204
xA7_d	0.107231	0.0195898
x0_d	0.0248664	0.00759585
gamma_A11A17_d	0.00139811	0.000714861
pA17b_d	1	0
pA15_d	1	0
pA13_d	1	0
pA14_d	1	0
pA16_d	0.855734	0.0596099
sA16_d	0.476258	0.0537448
sA14_d	0.969231	0.0123667
pA12_d	0.938609	0.0171601
sA12_d	0.970894	0.0147982
pB1a_d	0.369372	0.0374266
pB1b_d	0.917834	0.0319628
sB1_d	0.0559655	0.0172599
pA9_d	0.694467	0.0228635
sA7_d	1.02783	0.0145675
sA8_d	0.908443	0.020073