Estimation Summary Report

25 September 2019 10::17::05 am

AIC: 406.934

Log-likelihood: -149.467

Release: -1.62708

A1: -10.3715

A2: -3.29583

A3: -3.37746

A4: -2.73161

A5: -4.88477

A6: -11.2841

A7: -5.68062

A8: -4.81333

A0. -4.01000

A9: -3.53094

A10: 0

A11: -7.72147

A12: -0.993119

A13: -1.29389

A14: -3.4658

B1: -1.52384

A15: -3.37151

A16: -1.4154

A17: 0

B1aux: -3.50857

A17aux: -1.53811

Release_d: -10.1879

A7_d: -19.0579

A8_d: -8.69332

A9_d: -5.90816

A10_d: -3.54678

A11_d: -7.24185

A12_d: -2.11708

A13_d: -1.61551

A14_d: -2.58979

B1_d: -1.77062 A15_d: -3.63355

A16_d: -1.69064

A17_d: 0

B1aux_d: -4.00794

A17aux_d: -0.97692

Dimension of the Mnimum Sufficient Statistic: 56

Number of parameters: 54

Categories and Corresponding Counts by Likelihood

"Release"

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	A2A5	0
A2 A6	0	A2 A7	0	A2A8	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	A2A17	0
A2 B1	0	A2 x	4		

"A3"

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
A3A16	0	A3 A17	0	A3 B1	0
АЗх	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
A5A6	140	A5 A7	1	A5A8	1
A5 A9	0	A5 A10	0	A5A11	0
A5A12	0	A5 A13	0	A5A14	0
A5A15	0	A5 A16	0	A5A17	0
A5 B1	0	A5 x	17		

"A6"

Total observed counts: 140

Category	Counts	Category	Counts	Category	Counts
A6 A7	32	A6 A8	73	A6A9	17
A6 A10	7	A6 A11	5	A6A12	0
A6 A13	0	A6 A14	0	A6A15	0
A6 A16	0	A6 A17	0	A6 B1	0
A6 x	6				

"A7"

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	A9A17	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"

	Category	Counts	Category	Counts	Category	Counts
1						

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
A12A13	72	A12 A14	0	A12A15	0
A12A16	0	A12 A17	0	A12 x	1

"A13"

Total observed counts: 78

Category	Counts	Category	Counts	Category	Counts
A13A14	76	A13 A15	0	A13 A16	0
A13A17	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
A15A16	19	A15 A17	2	A15 x	22

"A16"

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"

Category	Counts	Category	Counts	Category	Counts
A7 A8_d	147	A7 A9_d	12	A7 A10_d	4
A7 A11_d	3	A7 A12_d	0	A7 A13_d	0
A7 A14_d	0	A7 A15_d	0	A7 A16_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	A9A12_d	0
A9 A13_d	0	A9 A14_d	0	A9A15_d	0
A9 A16_d	0	A9A17_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"

Category	Counts	Category	Counts	Category	Counts
A12A13_d	111	A12 A14_d	0	A12A15_d	0
A12A16_d	0	A12 A17_d	0	A12 x_d	12

"A13_d"

Total observed counts: 117

Category	Counts	Category	Counts	Category	Counts
A13 A14_d	113	A13 A15_d	0	A13A16_d	0
A13A17_d	0	A13 x_d	4		

"A14_d"

Total observed counts: 113

Category	Counts	Category	Counts	Category	Counts
A14 A15_d	53	A14 A16_d	0	A14 A17_d	0
A14 x_d	60				

"B1_d"

Total observed counts: 121

Category	Counts	Category	Counts	Category	Counts
B1 A17_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	0.0469175
sA3	0.911735	0.0524371
sA4	0.859817	0.0244108
sA5	0.763285	0.0295441
sA6	0.893645	0.0245258
sA7	0.979796	0.0289385
sA8	0.970313	0.0298659
sA10	0.991962	0.00800385
sA12	0.977767	0.0273214
sA13	0.986301	0.0136045
sA14	0.974359	0.017897
sA15	0.592732	0.0597108
sA16	0.496207	0.0777865
sA17	0.85	0.0798433

sB1	0.0770158	0.0373005
psiA1	0.603594	0.0452518
pA2	0.139241	0.022488
pA3	0.846154	0.0250171
pA4	0.993711	0.0062695
pA6	0.985294	0.0103219
pA7	0.237037	0.0366009
pA8	0.74027	0.0377641
pA9	0.695854	0.0396131
pA10	0.5	0.0431934
pA12	0.923077	0.0301717
pA16	0.894737	0.0704058
pA17b	0.826087	0.0790341
рВ1а	0.385079	0.0716294
pB1b	0.866427	0.0715697
pA15	0.954545	0.0444095
sA7_d	1.03488	0.0164841
sA8_d	0.893971	0.0243259
sA9_d	0.897894	0.0209185
sA10_d	0.935386	0.0199782
sA11_d	0.963823	0.0146696
sA12_d	0.96666	0.0176465
sA13_d	0.902439	0.0267543
sA14_d	0.965812	0.0167993
sA15_d	0.469027	0.0469458
sA16_d	0.464441	0.0760402
sA17_d	0.65	0.106654

sB1_d	0.047384	0.0189274
psiA1_d	0.505899	0.0320437
pA7_d	0.518634	0.0278445
pA8_d	0.864111	0.0202272
pA9_d	0.693727	0.0280004
pA10_d	0.596226	0.0301405
pA11_d	0.992032	0.00561182
pA12_d	0.948718	0.0203919
pA16_d	0.8125	0.0975787
pA17a_d	0.954545	0.0444095
pB1a_d	0.363278	0.0439245
pB1b_d	0.939784	0.0336743

Convenience Functions

Name	Estimate	s.e.
psiB	0.396406	0.0452518
qA1	0	0
qA2	0.860759	0.022488
qA3	0.153846	0.0250171
qA4	0.00628931	0.0062695
qA5	0	0
qA6	0.0147059	0.0103219
qA7	0.762963	0.0366009
qA8	0.25973	0.0377641
qA9	0.304146	0.0396131
qA10	0.5	0.0431934
qA11	0	0

qA12	0.0769231	0.0301717
qA13	0	0
qA14	0	0
qA15	0.0454545	0.0444095
qA16	0.105263	0.0704058
qA17a	0	0
qA17b	0.173913	0.0790341
qA17	0	0
pA17	1	0
qB1a	0.614921	0.0716294
qB1b	0.133573	0.0715697
qB1	0.0821367	0.0473253
рВ1	0.917863	0.0473253
xA17	1	0
xA16	0.15	0.0798433
xA15	0.511628	0.0762287
xA14	0.421053	0.0566344
xA13	0.025641	0.017897
xA12	0.0136986	0.0136045
xB1	0.922984	0.0373005
xA11	0.0522388	0.0192218
xA10	0	0
xA9	0.00803764	0.00800385
xA8	0.00244462	0.00245859
xA7	0.030303	0.0298404
xA6	0.0428571	0.0171173
xA5	0.106918	0.024506

xA4	0.236715	0.0295441
хА3	0.141463	0.0243402
xA2	0.108108	0.0510485
xA1	0.297376	0.0246813
х0	0.0115274	0.00573037
gamma_A11A17	0.00245184	0.00185838
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	0.494101	0.0320437
qA7_d	0.481366	0.0278445
qA8_d	0.135889	0.0202272
qA9_d	0.306273	0.0280004
qA10_d	0.403774	0.0301405
qA11_d	0.00796813	0.00561182
qA12_d	0.0512821	0.0203919
qA13_d	0	0
qA14_d	0	0
qA15_d	0	0
qA16_d	0.1875	0.0975787
qA17a_d	0.0454545	0.0444095
qA17b_d	0	0

qA17_d	0	0
pA17_d	1	0
qB1a_d	0.636722	0.0439245
qB1b_d	0.0602164	0.0336743
qB1_d	0.0383411	0.02207
pB1_d	0.961659	0.02207
xA17_d	1	0
xA16_d	0.35	0.106654
xA15_d	0.566038	0.0680791
xA14_d	0.530973	0.0469458
xA13_d	0.034188	0.0167993
xA12_d	0.097561	0.0267543
xB1_d	0.952616	0.0189274
xA11_d	0.0532319	0.013843
xA10_d	0.0365854	0.0146601
xA9_d	0.0784314	0.0188232
xA8_d	0.123675	0.0195695
xA7_d	0.121053	0.0236642
x0_d	0.0254237	0.00836615
gamma_A11A17_d	0.000867732	0.00061004
pA17b_d	1	0
pA15_d	1	0
pA13_d	1	0
pA14_d	1	0