Estimation Summary Report

25 September 2019 09::45::58 am

AIC: 192.077

Log-likelihood: -73.0387

Release_d: -10.1894

A7_d: -19.0572

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: 24

Number of parameters: 23

Categories and Corresponding Counts by Likelihood

"Release d"

Total observed counts: 355

| Category | Counts | Category | Counts | Category | Counts |
|----------|--------|----------|--------|----------|--------|
| RA7_d | 190 | RA8_d | 137 | 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 |
|----------|--------|----------|--------|----------|--------|
| A7 A8_d | 147 | A7 A9_d | 12 | A7 A10_d | 4 |
| A7 A11_d | 3 | A7 A12_d | 0 | A7 A13_d | 0 |
| A7A14_d | 0 | A7 A15_d | 0 | A7 A16_d | 0 |
| A7 A17_d | 1 | A7 B1_d | 0 | A7 x_d | 23 |

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 |
|----------|--------|-----------|--------|-----------|--------|
| A10A11_d | 157 | A10 A12_d | 0 | A10 A13_d | 0 |
| A10A14_d | 0 | A10 A15_d | 0 | A10 A16_d | 0 |
| A10A17_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 | A12 A14_d | 0 | A12A15_d | 0 |

2

| A12A16_d 0 | A12A17_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 | A15 A17_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 | | | | |

"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. | | |
|-----------|----------|------------|--|--|
| sA7_d | 1.03517 | 0.0165105 | | |
| sA8_d | 0.893925 | 0.0243231 | | |
| sA9_d | 0.897894 | 0.0209185 | | |
| sA10_d | 0.935386 | 0.0199782 | | |
| sA11_d | 0.963823 | 0.0146696 | | |
| sA12_d | 0.96666 | 0.0176466 | | |
| sA13_d | 0.902439 | 0.0267544 | | |
| sA14_d | 0.965812 | 0.0167993 | | |
| sA15_d | 0.469027 | 0.0469456 | | |
| sA16_d | 0.464441 | 0.0760396 | | |
| sA17_d | 0.65 | 0.106653 | | |
| sB1_d | 0.047384 | 0.0189274 | | |
| psiA1_d | 0.505899 | 0.0320438 | | |
| pA7_d | 0.517028 | 0.0278046 | | |
| pA8_d | 0.864525 | 0.020171 | | |
| pA9_d | 0.693727 | 0.0280004 | | |
| pA10_d | 0.596226 | 0.0301406 | | |
| pA11_d | 0.992032 | 0.00561182 | | |

| pA12_d | 0.948718 | 0.0203919 | |
|---------|----------|-----------|--|
| pA16_d | 0.8125 | 0.0975778 | |
| pA17a_d | 0.954545 | 0.0444095 | |
| pB1a_d | 0.363278 | 0.0439246 | |
| pB1b_d | 0.939784 | 0.0336744 | |

Convenience Functions

| | 1 | |
|---------|------------|------------|
| Name | Estimate | s.e. |
| psiB_d | 0.494101 | 0.0320438 |
| qA7_d | 0.482972 | 0.0278046 |
| qA8_d | 0.135475 | 0.020171 |
| qA9_d | 0.306273 | 0.0280004 |
| qA10_d | 0.403774 | 0.0301406 |
| 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 | 0.0975778 |
| qA17a_d | 0.0454545 | 0.0444095 |
| qA17b_d | 0 | 0 |
| qA17_d | 0 | 0 |
| pA17_d | 1 | 0 |
| qB1a_d | 0.636722 | 0.0439246 |
| qB1b_d | 0.0602164 | 0.0336744 |
| qB1_d | 0.0383411 | 0.02207 |
| pB1_d | 0.961659 | 0.02207 |

| xA17_d | 1 | 0 |
|----------------|-------------|------------|
| xA16_d | 0.35 | 0.106653 |
| xA15_d | 0.566038 | 0.0680786 |
| xA14_d | 0.530973 | 0.0469456 |
| xA13_d | 0.034188 | 0.0167993 |
| xA12_d | 0.097561 | 0.0267544 |
| 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 | 0.0253521 | 0.00834289 |
| gamma_A11A17_d | 0.000867732 | 0.00061004 |
| pA17b_d | 1 | 0 |
| pA13_d | 1 | 0 |
| pA14_d | 1 | 0 |
| pA15_d | 1 | 0 |