

Screening current production lines of *Pinus radiata* for susceptibility to infection by *Phytophthora pluvialis*

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EXECUTIVE SUMMARY

Report Title: Screening current production lines of *Pinus radiata* for susceptibility to infection by *Phytophthora pluvialis*

Authors: Nari Williams, Natalie Graham, Mari Suontama and Martin Bader

The problem

To date, much of the screening for red needle cast has focussed on the RPBC Elite Clone series of plants; however, these are not representative of the clones in current production and mid-rotation. Information on the susceptibility of the current crop of *Pinus radiata* would be informative for disease risk assessments and management of established forests and immediate selection of the future crop.

This project

Screened *Pinus radiata* genotypes of industry relevance for susceptibility to infection by *Phytophthora pluvialis*.

Key Results

Quantitative differences in the susceptibility of *Pinus radiata* genotypes were observed.

Implications of Results for Client

The results of this study indicate a broad range in susceptibility/resistance of genotypes to red needle cast in New Zealand's current *Pinus radiata* production and breeding lines. This is promising for the potential to breed for improved resistance to RNC but suggests that a large portion of the established forest is likely to be at least moderately susceptible to red needle cast.

Further Work

This work should be further validated with observations of these genotypes in the field. Heritability, cross resistance analyses and implications for breeding and selection are being investigated further in conjunction with RPBC.

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Introduction

Phytophthora pluvialis is a pathogen of the needles of *Pinus radiata* that causes a disease known as red needle cast (RNC). It produces masses of sporangia on infected leaf tissues and causes the premature casting of *Pinus radiata* needles. A detached needle assay has been developed for screening *Pinus radiata* with *Phytophthora pluvialis* and applied to screening assays for identifying potential genetic resistance to RNC and assessing responses to chemical treatments for RNC control. To date, much of the screening for RNC has focussed on the RPBC Elite Clone series of plants; however, these are not representative of the clones in current production and mid-rotation. Information on the susceptibility of the current crop of *Pinus radiata* would be informative for disease risk assessments and management of established forests and immediate selection of the future crop.

Objective

To screen *Pinus radiata* genotypes of industry relevance for susceptibility to infection by *Phytophthora pluvialis*.

Materials and Methods

Plant material - Pinus radiata clones

Forty-four genotypes were screened from three sources. Eighteen grafted genotypes were sourced from ProSeed's Rangiora Nursery. The 'industry relevance' of the ProSeed genotypes was based on the experience and recommendation of Shaf van Ballekom from ProSeed using 2014 GF Plus values (Table). Twenty-two genotypes were sourced from the "Farm Field" cross-resistance trials and the remaining 8 from the RPBC Elite Clones.

Table 1: ProSeed genotypes screened in this trial showing the 2014 GF Plus Breeding Values.

Genotype	Gro	Str	Br	DR	WD	Cyc	PME	Relevance	Number of ramets tested
268_061	21.6	18.7	17.2	14.3	23.8	16.4	16.2	High	5
288_001	24.4	17.3	22.9	19.0	19.1		15.8	Moderate	2
288_011	18.5	17.4	21.6		25.9		14.6	Moderate	3
288_013	29.0	18.6	22.3	22.7	22.3		14.4	High	4
288_101	30.9	17.5	25.2	29.6	21.6		17.4	High	5
288_115	20.1	19.0	24.3	17.0	19.8		13.0	Moderate	5
288_304	31.7	19.5	23.0	23.2	26.7		17.9	High	5
288_402	17.8	23.3	26.2	19.1	28.5		23.0	High	5
288_406	17.0	17.5	22.1	19.1	25.2		18.1	Moderate	5
288_408	22.2	17.9	21.2	20.8	25.5		11.4	Moderate	5
850_101	22.4	19.3	24.6	22.8	23.1	0.0	19.4	High	5
850_104	19.3	19.9	23.7	18.2	20.6	16.3	17.6	Moderate	2
875_220	21.0	21.5	23.9	20.0	21.3	19.3	14.0	High	5
875_250	24.9	16.2	24.6	28.5	19.2	9.0	15.4	High	5
875_262	15.6	23.5	23.5	23.4	27.1	14.1	16.7	Moderate	5
883_010	20.4	18.8	17.2		25.6		14.9	Moderate	5
885_458	20.3	19.5	21.3		29.9		16.7	High	5
887_841	25.2	16.0	24.3	14.4	23.2		17.6	High	4

Trait breeding values of each clone Gro = growth, Str = straightness, Br = branching, DR = Donthistroma resistance, WD = wood density, Cyc = Cyclaneusma resistance, PME = predicted modulus of elasticity.

Table 1: Farm Field and RPBC Elite Clone lines used in the experiment

Clone ID	Source	Relevance
286_763	Farm Field	Cross resistance analysis
850_091		Cross resistance analysis
850_120		Cross resistance analysis
870_605		Cross resistance analysis
875_051		Cross resistance analysis
875_223		Cross resistance analysis
875_242		Cross resistance analysis
875_293		Cross resistance analysis
880_655		Cross resistance analysis
883_522		Cross resistance analysis
885_001		Cross resistance analysis
885_009		Cross resistance analysis
885_017		Cross resistance analysis
885_079		Cross resistance analysis
885_099		Cross resistance analysis
885_196		Cross resistance analysis
885_198		Cross resistance analysis
885_382		Cross resistance analysis
885_384		Cross resistance analysis
886_915		Cross resistance analysis
886_933		Cross resistance analysis
887_841FF		Cross resistance analysis
41_23	Elite Clones	Moderate
44_7		Moderate
61_7		Moderate
61_8		Moderate
03_16		Reference Clone
15_07		Reference Clone
23_18		Reference Clone
29_22		Reference Clone

Inoculum preparation

Zoospore inoculum was prepared in accordance with Scion's standard protocol. In brief, isolates of *P. pluvialis* were grown on carrot agar at 17 °C for three days. Plugs of agar and mycelium were taken from the leading edge of the colonies, flooded with clarified carrot broth in flat bottom flasks and incubated for three days at 17 °C (Erwin and Ribeiro 1996). The resulting mycelial mats were rinsed thoroughly for 8 hours with deionised water, drained and flooded with 50 ml sterile pond water. These were incubated at 17 °C in the dark for a further three days before zoospore release was induced with 45 minute intervals at 4 °C in the dark then at room temperature (21-22 °C) on a light box. Zoospore concentrations were determined using a haemocytometer and standardised to 1×10^4 zoospores per ml with sterile pond water. Zoospore suspensions were used within two hours of preparation.

Detached needle assay

Twenty fascicles were collected from each plant with five fascicles assigned at random to two independent blocks (A and B) per treatment (H₂O and *P. pluvialis*-inoculated). Each tube was inoculated with either 4.5 ml of *P. pluvialis* zoospore suspension or sterile pond water overnight (18 hours). Fascicles were placed on trays moistened with wet paper towels and incubated in a controlled environment (17 °C, 65-70 % relative humidity, 14 h photoperiod) for 10 days. The needles within each fascicle were separated and lesion length measured.

Experimental Design

The experiment was set up as an alpha design with five super blocks (ramets) applying the inoculation treatment as whole-plot factor and the genotype ID as sub-plot factor. The data set comprises 4800 observations.

Statistical analysis

Linear mixed effects model (LMM) fitted by restricted maximum likelihood were used to analyse the aggregated lesion number (averaging across fascicles turned integers into decimal numbers) and lesion length data (R version 3.1.2, R Development Core Team 2015, R-package *nlme*, Pinheiro *et al.* 2015). The model contained inoculation treatment, genotype identity, and their interaction as fixed effects. The nested random term consisted of 'tray' nested in 'ramet', reflecting the alpha design.

The significance of the fixed terms was assessed by comparing fitted models based on likelihood ratio tests (Zuur *et al.* 2009). Graphical model validation tools were used to test the underlying assumptions of variance homogeneity and normality (plots of standardised residuals vs. fitted values and against all explanatory variables to evaluate variance patterns, quantile-quantile plots to assess the normality criterion). The data showed strong heteroscedasticity. In the case of the lesion length data, this heteroscedastic variance pattern was modelled using a constant variance structure (*varIdent*, using the inoculation treatment as grouping factor allowing for stratified variance modeling in the control and *P. pluvialis*-infected groups. For the lesion number data, a combined variance structure was applied, comprising a constant variance structure (*varIdent1*, using the inoculation treatment as grouping factor) and an exponential variance structure (*varExp*, using the fitted values as variance covariate).

For both models, the significant inoculation × genotype ID interaction was followed up applying a multiple comparison procedure using Tukey contrasts (R-package *multcomp*, Hothorn *et al.* 2008). No pedigree information was overlaid in the analysis, and the lesion means were not adjusted for the genetics of the individuals.

Results

Lesion length

As anticipated, significantly larger lesions occurred in plant material inoculated with *Phytophthora pluvialis* compared to the controls (significant inoculation × genotype ID interaction, Table 2 and Table 3, Fig. 1). Quantitative differences were observed between genotypes with low experimental variation, providing confidence in the assessment of relative differences in susceptibility between genotypes (Appendix 1).

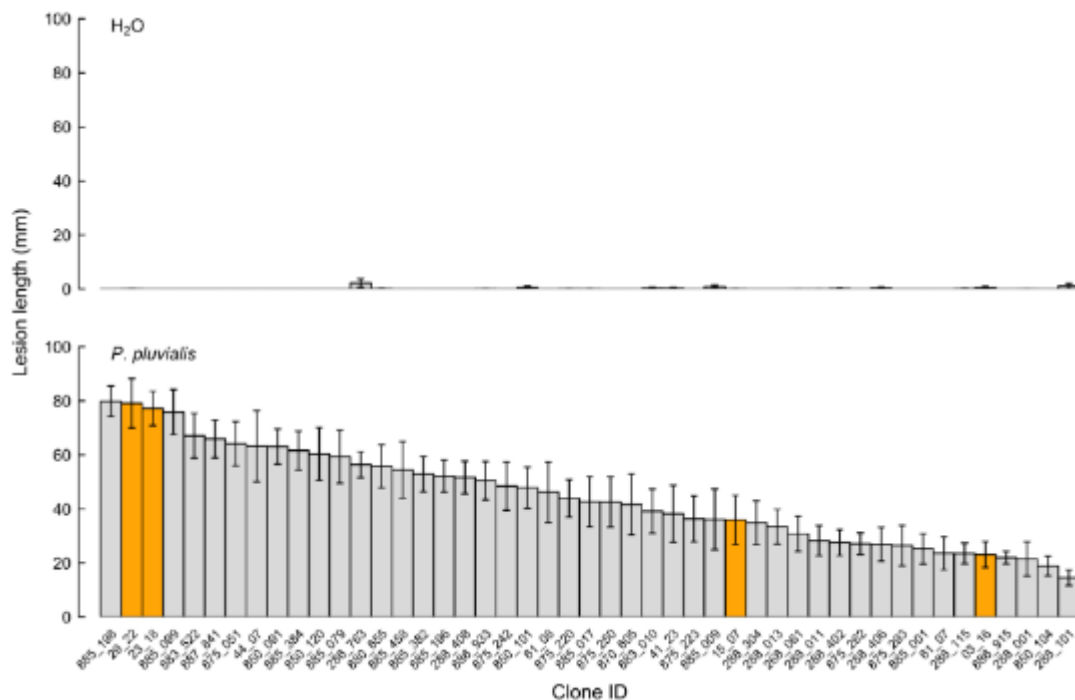


Fig. 1 Average lesion length per fascicle in *Pinus radiata* needles from 47 genotypes that were either un-inoculated (H_2O control, upper panel) or inoculated with *Phytophthora pluvialis* (lower panel). Orange filled bars indicate the four reference clones.

Table 2: Results from model comparison applied to lesion length to arrive at the most parsimonious model. Starting with highest interaction, each term is dropped in turn and the respective models are compared using the AIC and likelihood ratio tests until only significant terms remain in the model. Inoc = inoculation treatment, clone = clone ID. AIC = Akaike's Information Criterion, logLik = log Likelihood, L = Likelihood ratio, DF = Degrees of freedom of the L statistic, P = P -value.

Dropped term	AIC	logLik	L	DF	P
<i>First round</i>					
None	5876.4	-2840.2			
Inoc $\times$ genotype	5999.6	-2947.8	215.12	46	< 0.001 ***

Table 3: ANOVA table of the final lesion length model (DF_{num} = numerator degrees of freedom, DF_{den} = denominator degrees of freedom, F = F -value, P = P -value).

Parameter	DF_{num}	DF_{den}	F	P
Intercept	1	785	19.84	< 0.001 ***
Inoc	1	74	1591.81	< 0.001 ***
genotype	46	785	1.43	0.034 *
Inoc $\times$ genotype	46	785	5.32	< 0.001 ***

Lesion number

As anticipated, significantly more lesions occurred in plant material inoculated with *Phytophthora pluvialis* compared to the controls (significant inoculation × genotype ID interaction, Table 4 and 5, Fig. 2). Appendix 2 gives the results of a multiple comparison procedure contrasting genotypes.

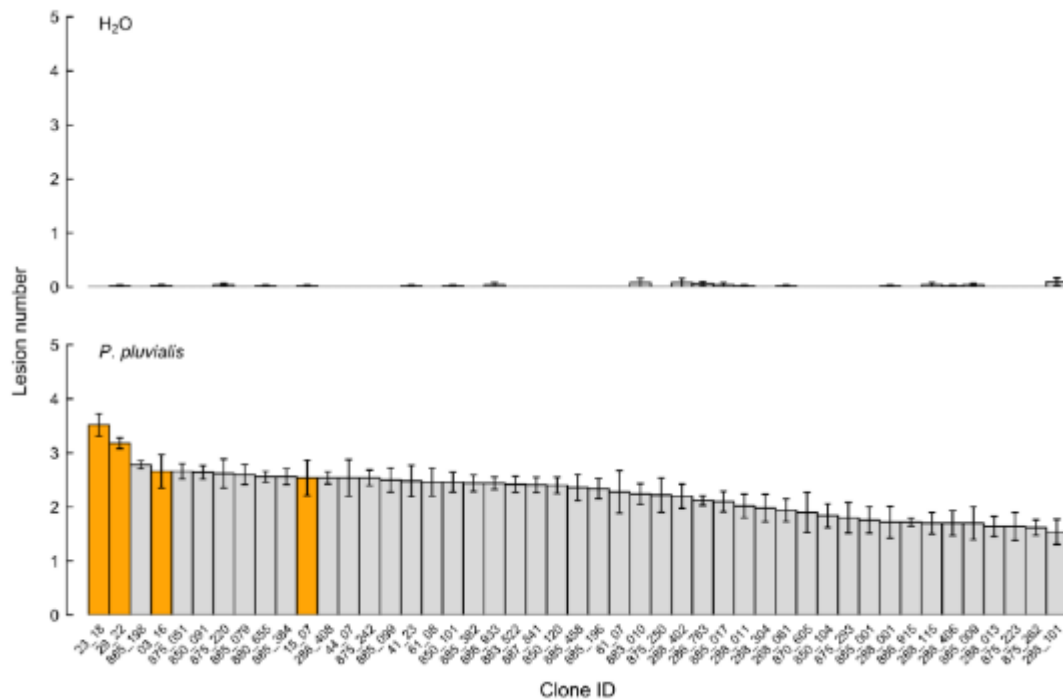


Fig. 2 Average lesion number per fascicle in *Pinus radiata* needles from 47 genotypes that were either un-inoculated (H₂O control, upper panel) or inoculated with *Phytophthora pluvialis* (lower panel). Orange filled bars indicate the four reference clones.

Table 4: Results from model comparison applied to lesion number to arrive at the most parsimonious model. Starting with highest interaction, each term is dropped in turn and the respective models are compared using the AIC and likelihood ratio tests until only significant terms remain in the model. Inoc = inoculation treatment, clone = clone ID.

AIC = Akaike's Information Criterion, logLik = log Likelihood, L = Likelihood ratio, DF = Degrees of freedom of the L statistic, P = P -value.

Dropped term	AIC	logLik	L	DF	P
<i>First round</i>					
None	45.9	76.1			
Inoc $\times$ genotype	-525.7	315.9	479.6	46	< 0.001 ***

Table 5: ANOVA table of the final lesion number model (DF_{num} = numerator degrees of freedom, DF_{den} = denominator degrees of freedom, F = F -value, P = P -value).

Parameter	DF_{num}	DF_{den}	F	P
Intercept	1	787	126.87	< 0.001 ***
Inoc	1	74	4760.60	< 0.001 ***
genotype	46	787	0.93	0.61
Inoc $\times$ genotype	46	787	3.78	< 0.001 ***

Discussion

The results of this study indicate a broad range in susceptibility/resistance of genotypes to red needle cast in New Zealand's current *Pinus radiata* production and breeding lines. This indicates a range of disease vulnerability in the current established forest which may be attributed to genetic factors. Lesion formation on the four reference clones demonstrate that the assay was successful with quantitative differences in the tested lines ranging across these reference clones. With some seasonal variation observed between assay runs, reference clone 29_22 most frequently has above average lesion lengths while the remaining reference clones have had moderate lesion formation across repeated trials (Graham N, Williams N et al. 2015). In relation to these reference clones, the majority of genotypes screened showed moderate susceptibility to *P. pluvialis* infection. Genotypes with lesion lengths below the reference clones (886-915, 288-001, 850-104 and 288-101) are likely to have low susceptibility in repeat assays. Similarly, genotypes 885-198, 885-099, 883-522 and 887-841 have shown low resistance to *P. pluvialis* infection. The later of these (887-841) having been identified in early RNC trials to be susceptible to the disease (Dick, Williams et al. 2014).

This study extends the application of screening for red needle cast to genotypes and breeding families in mid rotation and being deployed for planting by the industry. The preliminary results presented here provide a basis for back-testing resistance markers identified in the other components of the HTHF programme against clones of industry relevance later in the programme.

This work should be further validated with observations of these genotypes and progeny of these genotypes in the field. Heritability, cross-resistance analyses and implications for breeding and selection are being investigated further in conjunction with RPBC.

Acknowledgements

This work was funded by MBIE (CO4X1305), the Forest Growers Levy Trust (Administered by the Forest Owners Association) and the Radiata Pine Breeding Company. *Pinus radiata* clonal material was sourced from the Radiata Pine Breeding Company and maintained by Scion's nursery. Inoculation trials were run by the Forest Protection staff led by Catherine Banham and Shannon Hunter.

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Appendix 1: Post-hoc analysis results for the inoculation × clone interaction in the lesion length model.

Hypothesis	Estimate	SE	z	P
15_07 - 03_16 = 0	12.36	8.13	1.52	0.220
23_18 - 03_16 = 0	45.84	10.59	4.33	0.000 ***
268_061 - 03_16 = 0	5.14	7.70	0.67	0.623
286_763 - 03_16 = 0	35.75	9.91	3.61	0.002 **
288_001 - 03_16 = 0	-2.24	5.81	-0.39	0.786
288_011 - 03_16 = 0	2.63	7.45	0.35	0.803
288_013 - 03_16 = 0	5.30	6.71	0.79	0.553
288_101 - 03_16 = 0	-9.56	5.26	-1.82	0.133
288_115 - 03_16 = 0	-3.92	7.11	-0.55	0.695
288_304 - 03_16 = 0	3.03	6.87	0.44	0.750
288_402 - 03_16 = 0	3.01	6.52	0.46	0.738
288_406 - 03_16 = 0	-0.36	6.83	-0.05	0.973
288_408 - 03_16 = 0	22.86	9.10	2.51	0.032 *
29_22 - 03_16 = 0	51.17	11.01	4.65	0.000 ***
41_23 - 03_16 = 0	5.73	6.99	0.82	0.535
44_07 - 03_16 = 0	38.14	9.80	3.89	0.001 ***
61_07 - 03_16 = 0	-8.02	5.60	-1.43	0.250
61_08 - 03_16 = 0	17.29	7.68	2.25	0.058 .
850_091 - 03_16 = 0	43.08	10.18	4.23	0.000 ***
850_101 - 03_16 = 0	25.23	9.08	2.78	0.017 *
850_104 - 03_16 = 0	-1.27	6.67	-0.19	0.895
850_120 - 03_16 = 0	27.16	9.10	2.98	0.010 *
870_605 - 03_16 = 0	15.98	7.56	2.11	0.075 .
875_051 - 03_16 = 0	32.57	9.58	3.40	0.003 **
875_220 - 03_16 = 0	15.48	8.58	1.80	0.137
875_223 - 03_16 = 0	5.12	6.68	0.77	0.563
875_242 - 03_16 = 0	17.52	7.87	2.23	0.061 .
875_250 - 03_16 = 0	8.29	7.43	1.12	0.385
875_262 - 03_16 = 0	3.93	7.17	0.55	0.695
875_293 - 03_16 = 0	-3.09	6.48	-0.48	0.731
880_655 - 03_16 = 0	30.16	9.39	3.21	0.006 **
883_010 - 03_16 = 0	9.81	8.06	1.22	0.341
883_522 - 03_16 = 0	39.80	10.25	3.88	0.001 ***
885_001 - 03_16 = 0	-0.84	7.23	-0.12	0.935
885_009 - 03_16 = 0	3.28	7.04	0.47	0.736
885_017 - 03_16 = 0	15.54	8.36	1.86	0.124
885_079 - 03_16 = 0	33.07	9.67	3.42	0.003 **
885_099 - 03_16 = 0	49.83	11.08	4.50	0.000 ***
885_196 - 03_16 = 0	28.25	9.23	3.06	0.008 **
885_198 - 03_16 = 0	51.88	11.38	4.56	0.000 ***
885_382 - 03_16 = 0	26.49	9.45	2.80	0.016 *
885_384 - 03_16 = 0	35.61	9.45	3.77	0.001 **
885_458 - 03_16 = 0	27.03	8.74	3.09	0.008 **
886_915 - 03_16 = 0	1.60	7.19	0.22	0.879
886_933 - 03_16 = 0	21.91	8.52	2.57	0.029 *
887_841 - 03_16 = 0	39.51	7.77	5.09	0.000 ***
23_18 - 15_07 = 0	33.48	11.78	2.84	0.015 *
268_061 - 15_07 = 0	-7.22	7.77	-0.93	0.480
286_763 - 15_07 = 0	23.38	10.08	2.32	0.049 *
288_001 - 15_07 = 0	-14.61	7.75	-1.89	0.119
288_011 - 15_07 = 0	-9.73	7.64	-1.27	0.316

288_013 - 15_07 = 0	-7.07	8.49	-0.83	0.530	
288_101 - 15_07 = 0	-21.92	7.39	-2.97	0.011	*
288_115 - 15_07 = 0	-16.29	7.27	-2.24	0.059	.
288_304 - 15_07 = 0	-9.33	8.51	-1.10	0.394	
288_402 - 15_07 = 0	-9.35	8.31	-1.13	0.382	
288_406 - 15_07 = 0	-12.73	7.01	-1.82	0.134	
288_408 - 15_07 = 0	10.50	9.29	1.13	0.381	
29_22 - 15_07 = 0	38.81	12.11	3.21	0.006	**
41_23 - 15_07 = 0	-6.64	8.64	-0.77	0.563	
44_07 - 15_07 = 0	25.78	11.11	2.32	0.049	*
61_07 - 15_07 = 0	-20.38	7.61	-2.68	0.022	*
61_08 - 15_07 = 0	4.93	9.27	0.53	0.706	
850_091 - 15_07 = 0	30.72	10.26	2.99	0.010	*
850_101 - 15_07 = 0	12.87	9.16	1.40	0.260	
850_104 - 15_07 = 0	-13.63	6.84	-1.99	0.096	.
850_120 - 15_07 = 0	14.80	10.44	1.42	0.255	
870_605 - 15_07 = 0	3.62	9.18	0.39	0.784	
875_051 - 15_07 = 0	20.20	10.85	1.86	0.124	
875_220 - 15_07 = 0	3.11	8.78	0.35	0.803	
875_223 - 15_07 = 0	-7.25	8.45	-0.86	0.518	
875_242 - 15_07 = 0	5.16	9.39	0.55	0.695	
875_250 - 15_07 = 0	-4.07	8.96	-0.46	0.742	
875_262 - 15_07 = 0	-8.44	7.32	-1.15	0.369	
875_293 - 15_07 = 0	-15.45	8.22	-1.88	0.120	
880_655 - 15_07 = 0	17.79	9.51	1.87	0.122	
883_010 - 15_07 = 0	-2.55	8.11	-0.32	0.823	
883_522 - 15_07 = 0	27.44	10.41	2.64	0.025	*
885_001 - 15_07 = 0	-13.20	7.41	-1.78	0.141	
885_009 - 15_07 = 0	-9.08	8.67	-1.05	0.419	
885_017 - 15_07 = 0	3.18	8.51	0.37	0.792	
885_079 - 15_07 = 0	20.71	9.80	2.11	0.075	.
885_099 - 15_07 = 0	37.46	11.21	3.34	0.004	**
885_196 - 15_07 = 0	15.89	9.32	1.70	0.162	
885_198 - 15_07 = 0	39.52	11.53	3.43	0.003	**
885_382 - 15_07 = 0	14.13	9.59	1.47	0.236	
885_384 - 15_07 = 0	23.25	10.76	2.16	0.070	.
885_458 - 15_07 = 0	14.67	10.20	1.44	0.248	
886_915 - 15_07 = 0	-10.76	7.30	-1.47	0.236	
886_933 - 15_07 = 0	9.55	9.97	0.96	0.465	
887_841 - 15_07 = 0	27.14	8.61	3.15	0.007	**
268_061 - 23_18 = 0	-40.70	11.48	-3.54	0.002	**
286_763 - 23_18 = 0	-10.10	13.07	-0.77	0.560	
288_001 - 23_18 = 0	-48.09	10.39	-4.63	0.000	***
288_011 - 23_18 = 0	-43.21	11.32	-3.82	0.001	***
288_013 - 23_18 = 0	-40.55	10.92	-3.71	0.001	**
288_101 - 23_18 = 0	-55.41	10.13	-5.47	0.000	***
288_115 - 23_18 = 0	-49.77	11.10	-4.48	0.000	***
288_304 - 23_18 = 0	-42.81	10.97	-3.90	0.001	***
288_402 - 23_18 = 0	-42.83	10.78	-3.97	0.001	***
288_406 - 23_18 = 0	-46.21	10.92	-4.23	0.000	***
288_408 - 23_18 = 0	-22.99	12.47	-1.84	0.128	
29_22 - 23_18 = 0	5.33	13.94	0.38	0.787	
41_23 - 23_18 = 0	-40.12	11.04	-3.63	0.002	**
44_07 - 23_18 = 0	-7.70	13.08	-0.59	0.669	
61_07 - 23_18 = 0	-53.86	10.28	-5.24	0.000	***

61_08 - 23_18 = 0	-28.55	11.52	-2.48	0.035 *
850_091 - 23_18 = 0	-2.76	13.28	-0.21	0.887
850_101 - 23_18 = 0	-20.61	12.45	-1.66	0.176
850_104 - 23_18 = 0	-47.12	10.82	-4.35	0.000 ***
850_120 - 23_18 = 0	-18.69	12.49	-1.50	0.229
870_605 - 23_18 = 0	-29.86	11.45	-2.61	0.026 *
875_051 - 23_18 = 0	-13.28	12.76	-1.04	0.422
875_220 - 23_18 = 0	-30.37	12.10	-2.51	0.032 *
875_223 - 23_18 = 0	-40.73	10.85	-3.76	0.001 **
875_242 - 23_18 = 0	-28.32	11.60	-2.44	0.038 *
875_250 - 23_18 = 0	-37.55	11.32	-3.32	0.004 **
875_262 - 23_18 = 0	-41.92	11.13	-3.76	0.001 **
875_293 - 23_18 = 0	-48.93	10.73	-4.56	0.000 ***
880_655 - 23_18 = 0	-15.69	12.68	-1.24	0.332
883_010 - 23_18 = 0	-36.03	11.73	-3.07	0.008 **
883_522 - 23_18 = 0	-6.05	13.33	-0.45	0.742
885_001 - 23_18 = 0	-46.68	11.17	-4.18	0.000 ***
885_009 - 23_18 = 0	-42.56	11.07	-3.85	0.001 ***
885_017 - 23_18 = 0	-30.30	11.94	-2.54	0.031 *
885_079 - 23_18 = 0	-12.77	12.89	-0.99	0.449
885_099 - 23_18 = 0	3.98	13.97	0.29	0.842
885_196 - 23_18 = 0	-17.60	12.56	-1.40	0.261
885_198 - 23_18 = 0	6.04	14.22	0.43	0.763
885_382 - 23_18 = 0	-19.35	12.73	-1.52	0.220
885_384 - 23_18 = 0	-10.23	12.76	-0.80	0.544
885_458 - 23_18 = 0	-18.81	12.28	-1.53	0.218
886_915 - 23_18 = 0	-44.24	11.15	-3.97	0.001 ***
886_933 - 23_18 = 0	-23.94	12.05	-1.99	0.098 .
887_841 - 23_18 = 0	-6.34	11.56	-0.55	0.695
286_763 - 268_061 = 0	30.61	9.68	3.16	0.006 **
288_001 - 268_061 = 0	-7.39	7.29	-1.01	0.437
288_011 - 268_061 = 0	-2.51	7.25	-0.35	0.807
288_013 - 268_061 = 0	0.15	8.08	0.02	0.990
288_101 - 268_061 = 0	-14.70	6.91	-2.13	0.073 .
288_115 - 268_061 = 0	-9.07	6.69	-1.36	0.279
288_304 - 268_061 = 0	-2.11	8.10	-0.26	0.855
288_402 - 268_061 = 0	-2.13	7.88	-0.27	0.851
288_406 - 268_061 = 0	-5.51	6.62	-0.83	0.530
288_408 - 268_061 = 0	17.72	8.85	2.00	0.095 .
29_22 - 268_061 = 0	46.03	11.82	3.89	0.001 ***
41_23 - 268_061 = 0	0.58	8.23	0.07	0.962
44_07 - 268_061 = 0	33.00	10.80	3.06	0.008 **
61_07 - 268_061 = 0	-13.16	7.15	-1.84	0.129
61_08 - 268_061 = 0	12.15	8.90	1.37	0.275
850_091 - 268_061 = 0	37.94	9.96	3.81	0.001 ***
850_101 - 268_061 = 0	20.09	8.76	2.29	0.052 .
850_104 - 268_061 = 0	-6.41	6.36	-1.01	0.439
850_120 - 268_061 = 0	22.02	10.11	2.18	0.067 .
870_605 - 268_061 = 0	10.84	8.80	1.23	0.335
875_051 - 268_061 = 0	27.42	10.53	2.61	0.026 *
875_220 - 268_061 = 0	10.33	8.31	1.24	0.330
875_223 - 268_061 = 0	-0.03	8.04	0.00	0.997
875_242 - 268_061 = 0	12.38	9.02	1.37	0.273
875_250 - 268_061 = 0	3.15	8.57	0.37	0.794
875_262 - 268_061 = 0	-1.21	6.94	-0.18	0.902

875_293 - 268_061 = 0	-8.23	7.79	-1.06	0.414
880_655 - 268_061 = 0	25.01	9.18	2.72	0.020 *
883_010 - 268_061 = 0	4.67	7.77	0.60	0.661
883_522 - 268_061 = 0	34.66	10.06	3.44	0.003 **
885_001 - 268_061 = 0	-5.98	6.91	-0.87	0.513
885_009 - 268_061 = 0	-1.86	8.27	-0.23	0.878
885_017 - 268_061 = 0	10.40	8.14	1.28	0.315
885_079 - 268_061 = 0	27.93	9.44	2.96	0.011 *
885_099 - 268_061 = 0	44.69	10.94	4.09	0.000 ***
885_196 - 268_061 = 0	23.11	8.99	2.57	0.029 *
885_198 - 268_061 = 0	46.74	11.25	4.15	0.000 ***
885_382 - 268_061 = 0	21.35	9.20	2.32	0.049 *
885_384 - 268_061 = 0	30.47	10.44	2.92	0.012 *
885_458 - 268_061 = 0	21.89	9.86	2.22	0.061 .
886_915 - 268_061 = 0	-3.54	6.87	-0.52	0.712
886_933 - 268_061 = 0	16.77	9.62	1.74	0.150
887_841 - 268_061 = 0	34.36	8.19	4.20	0.000 ***
288_001 - 286_763 = 0	-37.99	9.60	-3.96	0.001 ***
288_011 - 286_763 = 0	-33.12	9.49	-3.49	0.003 **
288_013 - 286_763 = 0	-30.45	10.21	-2.98	0.010 *
288_101 - 286_763 = 0	-45.31	9.31	-4.87	0.000 ***
288_115 - 286_763 = 0	-39.67	9.26	-4.28	0.000 ***
288_304 - 286_763 = 0	-32.72	10.22	-3.20	0.006 **
288_402 - 286_763 = 0	-32.74	10.05	-3.26	0.005 **
288_406 - 286_763 = 0	-36.11	8.99	-4.02	0.001 ***
288_408 - 286_763 = 0	-12.89	10.82	-1.19	0.350
29_22 - 286_763 = 0	15.42	13.37	1.15	0.369
41_23 - 286_763 = 0	-30.02	10.33	-2.91	0.013 *
44_07 - 286_763 = 0	2.40	12.48	0.19	0.895
61_07 - 286_763 = 0	-43.77	9.49	-4.61	0.000 ***
61_08 - 286_763 = 0	-18.45	10.87	-1.70	0.163
850_091 - 286_763 = 0	7.33	11.71	0.63	0.648
850_101 - 286_763 = 0	-10.52	10.86	-0.97	0.461
850_104 - 286_763 = 0	-37.02	8.86	-4.18	0.000 ***
850_120 - 286_763 = 0	-8.59	11.88	-0.72	0.588
870_605 - 286_763 = 0	-19.77	10.79	-1.83	0.130
875_051 - 286_763 = 0	-3.18	12.24	-0.26	0.855
875_220 - 286_763 = 0	-20.27	10.39	-1.95	0.105
875_223 - 286_763 = 0	-30.63	10.17	-3.01	0.010 **
875_242 - 286_763 = 0	-18.23	10.97	-1.66	0.174
875_250 - 286_763 = 0	-27.46	10.60	-2.59	0.027 *
875_262 - 286_763 = 0	-31.82	9.26	-3.44	0.003 **
875_293 - 286_763 = 0	-38.84	9.98	-3.89	0.001 ***
880_655 - 286_763 = 0	-5.59	11.09	-0.50	0.718
883_010 - 286_763 = 0	-25.94	10.02	-2.59	0.027 *
883_522 - 286_763 = 0	4.05	11.84	0.34	0.809
885_001 - 286_763 = 0	-36.59	9.29	-3.94	0.001 ***
885_009 - 286_763 = 0	-32.47	10.36	-3.13	0.007 **
885_017 - 286_763 = 0	-20.21	10.14	-1.99	0.096 .
885_079 - 286_763 = 0	-2.67	11.31	-0.24	0.871
885_099 - 286_763 = 0	14.08	12.54	1.12	0.383
885_196 - 286_763 = 0	-7.50	10.94	-0.69	0.614
885_198 - 286_763 = 0	16.13	12.85	1.26	0.325
885_382 - 286_763 = 0	-9.26	11.11	-0.83	0.530
885_384 - 286_763 = 0	-0.14	12.16	-0.01	0.994

885_458 - 286_763 = 0	-8.72	11.67	-0.75	0.571	
886_915 - 286_763 = 0	-34.15	9.29	-3.68	0.001	**
886_933 - 286_763 = 0	-13.84	11.47	-1.21	0.345	
887_841 - 286_763 = 0	3.76	10.32	0.36	0.795	
288_011 - 288_001 = 0	4.87	7.04	0.69	0.609	
288_013 - 288_001 = 0	7.54	6.27	1.20	0.346	
288_101 - 288_001 = 0	-7.32	4.53	-1.62	0.189	
288_115 - 288_001 = 0	-1.68	6.67	-0.25	0.860	
288_304 - 288_001 = 0	5.28	6.22	0.85	0.523	
288_402 - 288_001 = 0	5.25	5.95	0.88	0.503	
288_406 - 288_001 = 0	1.88	6.37	0.30	0.835	
288_408 - 288_001 = 0	25.10	8.76	2.87	0.014	*
29_22 - 288_001 = 0	53.42	10.74	4.98	0.000	***
41_23 - 288_001 = 0	7.97	6.42	1.24	0.331	
44_07 - 288_001 = 0	40.39	9.56	4.22	0.000	***
61_07 - 288_001 = 0	-5.78	4.96	-1.16	0.363	
61_08 - 288_001 = 0	19.54	7.28	2.68	0.022	*
850_091 - 288_001 = 0	45.32	9.88	4.59	0.000	***
850_101 - 288_001 = 0	27.48	8.74	3.14	0.007	**
850_104 - 288_001 = 0	0.97	6.20	0.16	0.910	
850_120 - 288_001 = 0	29.40	8.84	3.33	0.004	**
870_605 - 288_001 = 0	18.22	7.17	2.54	0.030	*
875_051 - 288_001 = 0	34.81	9.32	3.74	0.001	**
875_220 - 288_001 = 0	17.72	8.22	2.16	0.070	.
875_223 - 288_001 = 0	7.36	6.20	1.19	0.352	
875_242 - 288_001 = 0	19.76	7.46	2.65	0.024	*
875_250 - 288_001 = 0	10.53	6.89	1.53	0.219	
875_262 - 288_001 = 0	6.17	6.73	0.92	0.484	
875_293 - 288_001 = 0	-0.85	5.92	-0.14	0.919	
880_655 - 288_001 = 0	32.40	9.06	3.58	0.002	**
883_010 - 288_001 = 0	12.06	7.68	1.57	0.204	
883_522 - 288_001 = 0	42.04	9.95	4.23	0.000	***
885_001 - 288_001 = 0	1.40	6.80	0.21	0.887	
885_009 - 288_001 = 0	5.53	6.58	0.84	0.526	
885_017 - 288_001 = 0	17.78	7.99	2.23	0.061	.
885_079 - 288_001 = 0	35.32	9.36	3.78	0.001	**
885_099 - 288_001 = 0	52.07	10.80	4.82	0.000	***
885_196 - 288_001 = 0	30.49	8.89	3.43	0.003	**
885_198 - 288_001 = 0	54.12	11.11	4.87	0.000	***
885_382 - 288_001 = 0	28.73	9.13	3.15	0.007	**
885_384 - 288_001 = 0	37.85	9.13	4.15	0.000	***
885_458 - 288_001 = 0	29.27	8.51	3.44	0.003	**
886_915 - 288_001 = 0	3.85	6.76	0.57	0.682	
886_933 - 288_001 = 0	24.15	8.24	2.93	0.012	*
887_841 - 288_001 = 0	41.75	7.34	5.69	0.000	***
288_013 - 288_011 = 0	2.66	7.85	0.34	0.810	
288_101 - 288_011 = 0	-12.19	6.64	-1.84	0.130	
288_115 - 288_011 = 0	-6.55	6.60	-0.99	0.449	
288_304 - 288_011 = 0	0.40	7.87	0.05	0.973	
288_402 - 288_011 = 0	0.38	7.65	0.05	0.973	
288_406 - 288_011 = 0	-2.99	6.23	-0.48	0.731	
288_408 - 288_011 = 0	20.23	8.72	2.32	0.049	*
29_22 - 288_011 = 0	48.54	11.67	4.16	0.000	***
41_23 - 288_011 = 0	3.10	8.01	0.39	0.786	
44_07 - 288_011 = 0	35.51	10.63	3.34	0.004	**

61_07 - 288_011 = 0	-10.65	6.89	-1.55	0.213	
61_08 - 288_011 = 0	14.66	8.69	1.69	0.166	
850_091 - 288_011 = 0	40.45	9.73	4.16	0.000	***
850_101 - 288_011 = 0	22.60	8.65	2.61	0.026	*
850_104 - 288_011 = 0	-3.90	6.14	-0.64	0.645	
850_120 - 288_011 = 0	24.53	9.93	2.47	0.036	*
870_605 - 288_011 = 0	13.35	8.59	1.55	0.211	
875_051 - 288_011 = 0	29.93	10.35	2.89	0.013	*
875_220 - 288_011 = 0	12.85	8.05	1.60	0.195	
875_223 - 288_011 = 0	2.48	7.80	0.32	0.821	
875_242 - 288_011 = 0	14.89	8.82	1.69	0.166	
875_250 - 288_011 = 0	5.66	8.35	0.68	0.617	
875_262 - 288_011 = 0	1.30	6.54	0.20	0.891	
875_293 - 288_011 = 0	-5.72	7.55	-0.76	0.566	
880_655 - 288_011 = 0	27.53	8.97	3.07	0.008	**
883_010 - 288_011 = 0	7.18	7.55	0.95	0.467	
883_522 - 288_011 = 0	37.17	9.89	3.76	0.001	**
885_001 - 288_011 = 0	-3.47	6.57	-0.53	0.706	
885_009 - 288_011 = 0	0.65	8.05	0.08	0.957	
885_017 - 288_011 = 0	12.91	7.85	1.64	0.179	
885_079 - 288_011 = 0	30.44	9.25	3.29	0.004	**
885_099 - 288_011 = 0	47.20	10.62	4.44	0.000	***
885_196 - 288_011 = 0	25.62	8.80	2.91	0.012	*
885_198 - 288_011 = 0	49.25	11.00	4.48	0.000	***
885_382 - 288_011 = 0	23.86	8.99	2.65	0.024	*
885_384 - 288_011 = 0	32.98	10.26	3.21	0.006	**
885_458 - 288_011 = 0	24.40	9.67	2.52	0.032	*
886_915 - 288_011 = 0	-1.03	6.53	-0.16	0.910	
886_933 - 288_011 = 0	19.28	9.43	2.04	0.087	.
887_841 - 288_011 = 0	36.88	7.99	4.61	0.000	***
288_101 - 288_013 = 0	-14.86	5.95	-2.50	0.034	*
288_115 - 288_013 = 0	-9.22	7.53	-1.22	0.338	
288_304 - 288_013 = 0	-2.26	7.12	-0.32	0.821	
288_402 - 288_013 = 0	-2.29	7.05	-0.32	0.819	
288_406 - 288_013 = 0	-5.66	7.27	-0.78	0.558	
288_408 - 288_013 = 0	17.56	9.43	1.86	0.124	
29_22 - 288_013 = 0	45.88	11.26	4.08	0.000	***
41_23 - 288_013 = 0	0.43	7.39	0.06	0.971	
44_07 - 288_013 = 0	32.85	10.17	3.23	0.005	**
61_07 - 288_013 = 0	-13.31	6.27	-2.12	0.074	.
61_08 - 288_013 = 0	12.00	8.06	1.49	0.232	
850_091 - 288_013 = 0	37.79	10.47	3.61	0.002	**
850_101 - 288_013 = 0	19.94	9.41	2.12	0.075	.
850_104 - 288_013 = 0	-6.57	7.11	-0.92	0.481	
850_120 - 288_013 = 0	21.86	9.38	2.33	0.049	*
870_605 - 288_013 = 0	10.69	7.96	1.34	0.285	
875_051 - 288_013 = 0	27.27	9.86	2.77	0.018	*
875_220 - 288_013 = 0	10.18	8.93	1.14	0.376	
875_223 - 288_013 = 0	-0.18	7.07	-0.03	0.985	
875_242 - 288_013 = 0	12.23	8.23	1.49	0.233	
875_250 - 288_013 = 0	3.00	7.77	0.39	0.786	
875_262 - 288_013 = 0	-1.37	7.58	-0.18	0.898	
875_293 - 288_013 = 0	-8.38	6.98	-1.20	0.346	
880_655 - 288_013 = 0	24.86	9.71	2.56	0.029	*
883_010 - 288_013 = 0	4.52	8.43	0.54	0.703	

883_522 - 288_013 = 0	34.50	10.54	3.27	0.005	**
885_001 - 288_013 = 0	-6.13	7.64	-0.80	0.544	
885_009 - 288_013 = 0	-2.01	7.52	-0.27	0.851	
885_017 - 288_013 = 0	10.25	8.72	1.18	0.358	
885_079 - 288_013 = 0	27.78	9.99	2.78	0.017	*
885_099 - 288_013 = 0	44.53	11.35	3.92	0.001	***
885_196 - 288_013 = 0	22.95	9.55	2.40	0.042	*
885_198 - 288_013 = 0	46.59	11.65	4.00	0.001	***
885_382 - 288_013 = 0	21.20	9.77	2.17	0.069	.
885_384 - 288_013 = 0	30.32	9.84	3.08	0.008	**
885_458 - 288_013 = 0	21.74	9.15	2.38	0.044	*
886_915 - 288_013 = 0	-3.69	7.60	-0.49	0.729	
886_933 - 288_013 = 0	16.61	8.92	1.86	0.124	
887_841 - 288_013 = 0	34.21	8.15	4.20	0.000	***
288_115 - 288_101 = 0	5.64	6.26	0.90	0.493	
288_304 - 288_101 = 0	12.59	5.95	2.12	0.075	.
288_402 - 288_101 = 0	12.57	5.41	2.33	0.049	*
288_406 - 288_101 = 0	9.20	5.93	1.55	0.212	
288_408 - 288_101 = 0	32.42	8.44	3.84	0.001	***
29_22 - 288_101 = 0	60.73	10.53	5.77	0.000	***
41_23 - 288_101 = 0	15.29	5.99	2.55	0.030	*
44_07 - 288_101 = 0	47.70	9.22	5.18	0.000	***
61_07 - 288_101 = 0	1.54	3.86	0.40	0.780	
61_08 - 288_101 = 0	26.85	7.03	3.82	0.001	***
850_091 - 288_101 = 0	52.64	9.60	5.48	0.000	***
850_101 - 288_101 = 0	34.79	8.43	4.13	0.000	***
850_104 - 288_101 = 0	8.29	5.75	1.44	0.246	
850_120 - 288_101 = 0	36.72	8.56	4.29	0.000	***
870_605 - 288_101 = 0	25.54	6.80	3.76	0.001	**
875_051 - 288_101 = 0	42.13	8.99	4.69	0.000	***
875_220 - 288_101 = 0	25.04	7.89	3.17	0.006	**
875_223 - 288_101 = 0	14.68	5.85	2.51	0.033	*
875_242 - 288_101 = 0	27.08	7.05	3.84	0.001	***
875_250 - 288_101 = 0	17.85	6.61	2.70	0.021	*
875_262 - 288_101 = 0	13.49	6.32	2.14	0.072	.
875_293 - 288_101 = 0	6.47	5.43	1.19	0.350	
880_655 - 288_101 = 0	39.72	8.76	4.54	0.000	***
883_010 - 288_101 = 0	19.37	7.32	2.65	0.024	*
883_522 - 288_101 = 0	49.36	9.67	5.10	0.000	***
885_001 - 288_101 = 0	8.72	6.39	1.37	0.275	
885_009 - 288_101 = 0	12.84	5.96	2.16	0.070	.
885_017 - 288_101 = 0	25.10	7.64	3.29	0.005	**
885_079 - 288_101 = 0	42.63	9.06	4.70	0.000	***
885_099 - 288_101 = 0	59.39	10.55	5.63	0.000	***
885_196 - 288_101 = 0	37.81	8.58	4.41	0.000	***
885_198 - 288_101 = 0	61.44	10.87	5.66	0.000	***
885_382 - 288_101 = 0	36.05	8.83	4.08	0.000	***
885_384 - 288_101 = 0	45.17	8.81	5.13	0.000	***
885_458 - 288_101 = 0	36.59	8.14	4.49	0.000	***
886_915 - 288_101 = 0	11.16	6.35	1.76	0.147	
886_933 - 288_101 = 0	31.47	7.89	3.99	0.001	***
887_841 - 288_101 = 0	49.07	7.01	7.00	0.000	***
288_304 - 288_115 = 0	6.95	7.54	0.92	0.481	
288_402 - 288_115 = 0	6.93	7.32	0.95	0.469	
288_406 - 288_115 = 0	3.56	5.86	0.61	0.659	

288_408 - 288_115 = 0	26.78	8.34	3.21	0.006	**
29_22 - 288_115 = 0	55.09	11.45	4.81	0.000	***
41_23 - 288_115 = 0	9.65	7.69	1.25	0.325	
44_07 - 288_115 = 0	42.07	10.40	4.05	0.000	***
61_07 - 288_115 = 0	-4.10	6.52	-0.63	0.648	
61_08 - 288_115 = 0	21.22	8.40	2.53	0.031	*
850_091 - 288_115 = 0	47.00	9.53	4.93	0.000	***
850_101 - 288_115 = 0	29.16	8.28	3.52	0.002	**
850_104 - 288_115 = 0	2.65	5.61	0.47	0.734	
850_120 - 288_115 = 0	31.08	9.67	3.21	0.006	**
870_605 - 288_115 = 0	19.90	8.30	2.40	0.042	*
875_051 - 288_115 = 0	36.49	10.11	3.61	0.002	**
875_220 - 288_115 = 0	19.40	7.72	2.51	0.032	*
875_223 - 288_115 = 0	9.04	7.48	1.21	0.345	
875_242 - 288_115 = 0	21.44	8.53	2.51	0.032	*
875_250 - 288_115 = 0	12.21	8.05	1.52	0.221	
875_262 - 288_115 = 0	7.85	6.20	1.27	0.320	
875_293 - 288_115 = 0	0.83	7.22	0.12	0.935	
880_655 - 288_115 = 0	34.08	8.66	3.93	0.001	***
883_010 - 288_115 = 0	13.74	7.27	1.89	0.118	
883_522 - 288_115 = 0	43.72	9.60	4.56	0.000	***
885_001 - 288_115 = 0	3.08	6.37	0.48	0.729	
885_009 - 288_115 = 0	7.21	7.73	0.93	0.478	
885_017 - 288_115 = 0	19.46	7.64	2.55	0.030	*
885_079 - 288_115 = 0	37.00	8.99	4.11	0.000	***
885_099 - 288_115 = 0	53.75	10.52	5.11	0.000	***
885_196 - 288_115 = 0	32.17	8.58	3.75	0.001	**
885_198 - 288_115 = 0	55.80	10.86	5.14	0.000	***
885_382 - 288_115 = 0	30.41	8.76	3.47	0.003	**
885_384 - 288_115 = 0	39.53	10.02	3.95	0.001	***
885_458 - 288_115 = 0	30.95	9.41	3.29	0.004	**
886_915 - 288_115 = 0	5.53	6.20	0.89	0.498	
886_933 - 288_115 = 0	25.83	9.16	2.82	0.015	*
887_841 - 288_115 = 0	43.43	7.65	5.68	0.000	***
288_402 - 288_304 = 0	-0.02	7.01	0.00	0.997	
288_406 - 288_304 = 0	-3.40	7.28	-0.47	0.736	
288_408 - 288_304 = 0	19.83	9.44	2.10	0.077	.
29_22 - 288_304 = 0	48.14	11.25	4.28	0.000	***
41_23 - 288_304 = 0	2.69	7.38	0.37	0.795	
44_07 - 288_304 = 0	35.11	10.22	3.44	0.003	**
61_07 - 288_304 = 0	-11.05	6.27	-1.76	0.146	
61_08 - 288_304 = 0	14.26	8.12	1.76	0.147	
850_091 - 288_304 = 0	40.05	10.48	3.82	0.001	***
850_101 - 288_304 = 0	22.20	9.42	2.36	0.046	*
850_104 - 288_304 = 0	-4.30	7.13	-0.60	0.661	
850_120 - 288_304 = 0	24.13	9.46	2.55	0.030	*
870_605 - 288_304 = 0	12.95	8.02	1.61	0.189	
875_051 - 288_304 = 0	29.53	9.91	2.98	0.010	*
875_220 - 288_304 = 0	12.44	8.94	1.39	0.265	
875_223 - 288_304 = 0	2.08	7.18	0.29	0.839	
875_242 - 288_304 = 0	14.49	8.29	1.75	0.149	
875_250 - 288_304 = 0	5.26	7.72	0.68	0.616	
875_262 - 288_304 = 0	0.90	7.59	0.12	0.935	
875_293 - 288_304 = 0	-6.12	6.97	-0.88	0.506	
880_655 - 288_304 = 0	27.12	9.72	2.79	0.017	*

883_010 - 288_304 = 0	6.78	8.45	0.80	0.544	
883_522 - 288_304 = 0	36.77	10.55	3.49	0.003	**
885_001 - 288_304 = 0	-3.87	7.65	-0.51	0.718	
885_009 - 288_304 = 0	0.25	7.48	0.03	0.981	
885_017 - 288_304 = 0	12.51	8.73	1.43	0.249	
885_079 - 288_304 = 0	30.04	9.99	3.01	0.010	**
885_099 - 288_304 = 0	46.80	11.36	4.12	0.000	***
885_196 - 288_304 = 0	25.22	9.56	2.64	0.025	*
885_198 - 288_304 = 0	48.85	11.65	4.19	0.000	***
885_382 - 288_304 = 0	23.46	9.78	2.40	0.042	*
885_384 - 288_304 = 0	32.58	9.81	3.32	0.004	**
885_458 - 288_304 = 0	24.00	9.20	2.61	0.026	*
886_915 - 288_304 = 0	-1.43	7.62	-0.19	0.895	
886_933 - 288_304 = 0	18.88	9.01	2.10	0.078	.
887_841 - 288_304 = 0	36.47	8.15	4.48	0.000	***
288_406 - 288_402 = 0	-3.37	7.04	-0.48	0.731	
288_408 - 288_402 = 0	19.85	9.26	2.14	0.071	.
29_22 - 288_402 = 0	48.16	11.17	4.31	0.000	***
41_23 - 288_402 = 0	2.72	7.18	0.38	0.789	
44_07 - 288_402 = 0	35.13	10.02	3.51	0.002	**
61_07 - 288_402 = 0	-11.03	5.74	-1.92	0.112	
61_08 - 288_402 = 0	14.28	7.90	1.81	0.136	
850_091 - 288_402 = 0	40.07	10.32	3.88	0.001	***
850_101 - 288_402 = 0	22.22	9.24	2.40	0.042	*
850_104 - 288_402 = 0	-4.28	6.89	-0.62	0.649	
850_120 - 288_402 = 0	24.15	9.41	2.57	0.029	*
870_605 - 288_402 = 0	12.97	7.84	1.66	0.176	
875_051 - 288_402 = 0	29.56	9.75	3.03	0.009	**
875_220 - 288_402 = 0	12.47	8.75	1.42	0.253	
875_223 - 288_402 = 0	2.11	6.94	0.30	0.830	
875_242 - 288_402 = 0	14.51	8.07	1.80	0.137	
875_250 - 288_402 = 0	5.28	7.56	0.70	0.605	
875_262 - 288_402 = 0	0.92	7.37	0.13	0.931	
875_293 - 288_402 = 0	-6.10	6.61	-0.92	0.481	
880_655 - 288_402 = 0	27.15	9.54	2.85	0.015	*
883_010 - 288_402 = 0	6.80	8.24	0.83	0.532	
883_522 - 288_402 = 0	36.79	10.39	3.54	0.002	**
885_001 - 288_402 = 0	-3.85	7.43	-0.52	0.711	
885_009 - 288_402 = 0	0.27	7.17	0.04	0.979	
885_017 - 288_402 = 0	12.53	8.53	1.47	0.237	
885_079 - 288_402 = 0	30.06	9.82	3.06	0.008	**
885_099 - 288_402 = 0	46.82	11.21	4.18	0.000	***
885_196 - 288_402 = 0	25.24	9.38	2.69	0.022	*
885_198 - 288_402 = 0	48.87	11.51	4.25	0.000	***
885_382 - 288_402 = 0	23.48	9.61	2.44	0.038	*
885_384 - 288_402 = 0	32.60	9.56	3.41	0.003	**
885_458 - 288_402 = 0	24.02	9.02	2.66	0.023	*
886_915 - 288_402 = 0	-1.41	7.39	-0.19	0.895	
886_933 - 288_402 = 0	18.90	8.76	2.16	0.070	.
887_841 - 288_402 = 0	36.50	7.96	4.59	0.000	***
288_408 - 288_406 = 0	23.22	8.04	2.89	0.013	*
29_22 - 288_406 = 0	51.54	11.28	4.57	0.000	***
41_23 - 288_406 = 0	6.09	7.43	0.82	0.535	
44_07 - 288_406 = 0	38.51	10.21	3.77	0.001	**
61_07 - 288_406 = 0	-7.65	6.21	-1.23	0.335	

61_08 - 288_406 = 0	17.66	8.16	2.16	0.069	.
850_091 - 288_406 = 0	43.45	9.25	4.70	0.000	***
850_101 - 288_406 = 0	25.60	8.14	3.14	0.007	**
850_104 - 288_406 = 0	-0.91	4.73	-0.19	0.895	
850_120 - 288_406 = 0	27.52	9.47	2.91	0.013	*
870_605 - 288_406 = 0	16.34	8.06	2.03	0.090	.
875_051 - 288_406 = 0	32.93	9.91	3.32	0.004	**
875_220 - 288_406 = 0	15.84	7.66	2.07	0.083	.
875_223 - 288_406 = 0	5.48	7.21	0.76	0.566	
875_242 - 288_406 = 0	17.88	8.30	2.16	0.070	.
875_250 - 288_406 = 0	8.65	7.80	1.11	0.389	
875_262 - 288_406 = 0	4.29	5.56	0.77	0.560	
875_293 - 288_406 = 0	-2.73	6.94	-0.39	0.785	
880_655 - 288_406 = 0	30.52	8.35	3.65	0.002	**
883_010 - 288_406 = 0	10.18	6.90	1.48	0.235	
883_522 - 288_406 = 0	40.16	9.37	4.29	0.000	***
885_001 - 288_406 = 0	-0.47	6.06	-0.08	0.958	
885_009 - 288_406 = 0	3.65	7.47	0.49	0.729	
885_017 - 288_406 = 0	15.91	7.16	2.22	0.061	.
885_079 - 288_406 = 0	33.44	8.68	3.85	0.001	***
885_099 - 288_406 = 0	50.19	10.31	4.87	0.000	***
885_196 - 288_406 = 0	28.61	8.18	3.50	0.002	**
885_198 - 288_406 = 0	52.25	10.66	4.90	0.000	***
885_382 - 288_406 = 0	26.85	8.57	3.13	0.007	**
885_384 - 288_406 = 0	35.98	9.82	3.66	0.001	**
885_458 - 288_406 = 0	27.39	9.20	2.98	0.010	*
886_915 - 288_406 = 0	1.97	5.92	0.33	0.813	
886_933 - 288_406 = 0	22.27	8.95	2.49	0.034	*
887_841 - 288_406 = 0	39.87	7.38	5.40	0.000	***
29_22 - 288_408 = 0	28.31	12.78	2.22	0.062	.
41_23 - 288_408 = 0	-17.13	9.56	-1.79	0.138	
44_07 - 288_408 = 0	15.28	11.84	1.29	0.308	
61_07 - 288_408 = 0	-30.88	8.64	-3.57	0.002	**
61_08 - 288_408 = 0	-5.57	10.13	-0.55	0.695	
850_091 - 288_408 = 0	20.22	11.12	1.82	0.133	
850_101 - 288_408 = 0	2.37	10.09	0.24	0.871	
850_104 - 288_408 = 0	-24.13	7.93	-3.04	0.009	**
850_120 - 288_408 = 0	4.30	11.21	0.38	0.787	
870_605 - 288_408 = 0	-6.88	10.05	-0.68	0.614	
875_051 - 288_408 = 0	9.71	11.59	0.84	0.528	
875_220 - 288_408 = 0	-7.38	9.69	-0.76	0.565	
875_223 - 288_408 = 0	-17.74	9.39	-1.89	0.118	
875_242 - 288_408 = 0	-5.34	10.24	-0.52	0.709	
875_250 - 288_408 = 0	-14.57	9.85	-1.48	0.234	
875_262 - 288_408 = 0	-18.93	8.40	-2.25	0.058	.
875_293 - 288_408 = 0	-25.95	9.18	-2.83	0.015	*
880_655 - 288_408 = 0	7.30	10.34	0.71	0.600	
883_010 - 288_408 = 0	-13.05	9.18	-1.42	0.254	
883_522 - 288_408 = 0	16.94	11.13	1.52	0.220	
885_001 - 288_408 = 0	-23.70	8.49	-2.79	0.017	*
885_009 - 288_408 = 0	-19.58	9.59	-2.04	0.088	.
885_017 - 288_408 = 0	-7.32	9.46	-0.77	0.560	
885_079 - 288_408 = 0	10.21	10.55	0.97	0.461	
885_099 - 288_408 = 0	26.97	11.96	2.25	0.057	.
885_196 - 288_408 = 0	5.39	10.21	0.53	0.706	

885_198 - 288_408 = 0	29.02	12.21	2.38	0.044	*
885_382 - 288_408 = 0	3.63	10.46	0.35	0.807	
885_384 - 288_408 = 0	12.75	11.51	1.11	0.389	
885_458 - 288_408 = 0	4.17	10.99	0.38	0.789	
886_915 - 288_408 = 0	-21.26	8.52	-2.50	0.034	*
886_933 - 288_408 = 0	-0.95	10.78	-0.09	0.954	
887_841 - 288_408 = 0	16.65	9.52	1.75	0.149	
41_23 - 29_22 = 0	-45.45	11.39	-3.99	0.001	***
44_07 - 29_22 = 0	-13.03	13.37	-0.98	0.458	
61_07 - 29_22 = 0	-59.19	10.67	-5.55	0.000	***
61_08 - 29_22 = 0	-33.88	11.87	-2.85	0.014	*
850_091 - 29_22 = 0	-8.09	13.57	-0.60	0.664	
850_101 - 29_22 = 0	-25.94	12.77	-2.03	0.089	.
850_104 - 29_22 = 0	-52.44	11.18	-4.69	0.000	***
850_120 - 29_22 = 0	-24.01	12.77	-1.88	0.120	
870_605 - 29_22 = 0	-35.19	11.83	-2.97	0.010	*
875_051 - 29_22 = 0	-18.61	13.16	-1.41	0.256	
875_220 - 29_22 = 0	-35.70	12.42	-2.88	0.014	*
875_223 - 29_22 = 0	-46.06	11.27	-4.09	0.000	***
875_242 - 29_22 = 0	-33.65	11.98	-2.81	0.016	*
875_250 - 29_22 = 0	-42.88	11.56	-3.71	0.001	**
875_262 - 29_22 = 0	-47.24	11.48	-4.11	0.000	***
875_293 - 29_22 = 0	-54.26	11.12	-4.88	0.000	***
880_655 - 29_22 = 0	-21.02	12.99	-1.62	0.188	
883_010 - 29_22 = 0	-41.36	12.06	-3.43	0.003	**
883_522 - 29_22 = 0	-11.37	13.62	-0.84	0.529	
885_001 - 29_22 = 0	-52.01	11.52	-4.51	0.000	***
885_009 - 29_22 = 0	-47.89	11.42	-4.20	0.000	***
885_017 - 29_22 = 0	-35.63	12.26	-2.91	0.013	*
885_079 - 29_22 = 0	-18.10	13.19	-1.37	0.273	
885_099 - 29_22 = 0	-1.34	14.25	-0.09	0.949	
885_196 - 29_22 = 0	-22.92	12.87	-1.78	0.141	
885_198 - 29_22 = 0	0.71	14.49	0.05	0.973	
885_382 - 29_22 = 0	-24.68	13.03	-1.89	0.118	
885_384 - 29_22 = 0	-15.56	13.06	-1.19	0.350	
885_458 - 29_22 = 0	-24.14	12.61	-1.92	0.113	
886_915 - 29_22 = 0	-49.57	11.50	-4.31	0.000	***
886_933 - 29_22 = 0	-29.26	12.48	-2.35	0.047	*
887_841 - 29_22 = 0	-11.67	11.86	-0.98	0.453	
44_07 - 41_23 = 0	32.42	10.34	3.14	0.007	**
61_07 - 41_23 = 0	-13.74	6.30	-2.18	0.067	.
61_08 - 41_23 = 0	11.57	8.32	1.39	0.265	
850_091 - 41_23 = 0	37.36	10.59	3.53	0.002	**
850_101 - 41_23 = 0	19.51	9.54	2.04	0.087	.
850_104 - 41_23 = 0	-7.00	7.28	-0.96	0.463	
850_120 - 41_23 = 0	21.43	9.58	2.24	0.059	.
870_605 - 41_23 = 0	10.25	8.13	1.26	0.323	
875_051 - 41_23 = 0	26.84	10.07	2.66	0.023	*
875_220 - 41_23 = 0	9.75	9.07	1.08	0.404	
875_223 - 41_23 = 0	-0.61	7.32	-0.08	0.956	
875_242 - 41_23 = 0	11.79	8.40	1.40	0.260	
875_250 - 41_23 = 0	2.56	7.96	0.32	0.820	
875_262 - 41_23 = 0	-1.80	7.74	-0.23	0.873	
875_293 - 41_23 = 0	-8.82	7.09	-1.24	0.330	
880_655 - 41_23 = 0	24.43	9.83	2.48	0.035	*

883_010 - 41_23 = 0	4.09	8.58	0.48	0.731
883_522 - 41_23 = 0	34.07	10.66	3.20	0.006 **
885_001 - 41_23 = 0	-6.56	7.80	-0.84	0.526
885_009 - 41_23 = 0	-2.44	7.63	-0.32	0.821
885_017 - 41_23 = 0	9.81	8.86	1.11	0.389
885_079 - 41_23 = 0	27.35	10.11	2.71	0.021 *
885_099 - 41_23 = 0	44.10	11.46	3.85	0.001 ***
885_196 - 41_23 = 0	22.52	9.68	2.33	0.049 *
885_198 - 41_23 = 0	46.15	11.75	3.93	0.001 ***
885_382 - 41_23 = 0	20.76	9.90	2.10	0.078 .
885_384 - 41_23 = 0	29.89	9.94	3.01	0.010 **
885_458 - 41_23 = 0	21.30	9.35	2.28	0.054 .
886_915 - 41_23 = 0	-4.12	7.77	-0.53	0.706
886_933 - 41_23 = 0	16.18	9.06	1.79	0.140
887_841 - 41_23 = 0	33.78	8.29	4.08	0.000 ***
61_07 - 44_07 = 0	-46.16	9.41	-4.91	0.000 ***
61_08 - 44_07 = 0	-20.85	10.84	-1.92	0.112
850_091 - 44_07 = 0	4.94	12.69	0.39	0.786
850_101 - 44_07 = 0	-12.91	11.83	-1.09	0.396
850_104 - 44_07 = 0	-39.42	10.10	-3.90	0.001 ***
850_120 - 44_07 = 0	-10.98	11.85	-0.93	0.481
870_605 - 44_07 = 0	-22.16	10.76	-2.06	0.084 .
875_051 - 44_07 = 0	-5.58	12.24	-0.46	0.742
875_220 - 44_07 = 0	-22.67	11.45	-1.98	0.099 .
875_223 - 44_07 = 0	-33.03	10.17	-3.25	0.005 **
875_242 - 44_07 = 0	-20.62	10.93	-1.89	0.118
875_250 - 44_07 = 0	-29.85	10.57	-2.82	0.015 *
875_262 - 44_07 = 0	-34.22	10.43	-3.28	0.005 **
875_293 - 44_07 = 0	-41.23	9.96	-4.14	0.000 ***
880_655 - 44_07 = 0	-7.99	12.07	-0.66	0.627
883_010 - 44_07 = 0	-28.33	11.07	-2.56	0.029 *
883_522 - 44_07 = 0	1.65	12.75	0.13	0.928
885_001 - 44_07 = 0	-38.98	10.48	-3.72	0.001 **
885_009 - 44_07 = 0	-34.86	10.34	-3.37	0.004 **
885_017 - 44_07 = 0	-22.60	11.29	-2.00	0.095 .
885_079 - 44_07 = 0	-5.07	12.29	-0.41	0.771
885_099 - 44_07 = 0	11.68	13.42	0.87	0.511
885_196 - 44_07 = 0	-9.90	11.94	-0.83	0.531
885_198 - 44_07 = 0	13.74	13.67	1.01	0.441
885_382 - 44_07 = 0	-11.65	12.12	-0.96	0.463
885_384 - 44_07 = 0	-2.53	12.15	-0.21	0.887
885_458 - 44_07 = 0	-11.11	11.57	-0.96	0.463
886_915 - 44_07 = 0	-36.54	10.45	-3.50	0.002 **
886_933 - 44_07 = 0	-16.23	11.43	-1.42	0.254
887_841 - 44_07 = 0	1.36	10.85	0.13	0.931
61_08 - 61_07 = 0	25.31	7.28	3.48	0.003 **
850_091 - 61_07 = 0	51.10	9.77	5.23	0.000 ***
850_101 - 61_07 = 0	33.25	8.63	3.86	0.001 ***
850_104 - 61_07 = 0	6.75	6.03	1.12	0.385
850_120 - 61_07 = 0	35.18	8.75	4.02	0.001 ***
870_605 - 61_07 = 0	24.00	7.10	3.38	0.003 **
875_051 - 61_07 = 0	40.58	9.17	4.43	0.000 ***
875_220 - 61_07 = 0	23.49	8.10	2.90	0.013 *
875_223 - 61_07 = 0	13.13	6.14	2.14	0.072 .
875_242 - 61_07 = 0	25.54	7.28	3.51	0.002 **

875_250 - 61_07 = 0	16.31	6.83	2.39	0.043	*
875_262 - 61_07 = 0	11.95	6.58	1.82	0.134	
875_293 - 61_07 = 0	4.93	5.77	0.86	0.520	
880_655 - 61_07 = 0	38.17	8.95	4.27	0.000	***
883_010 - 61_07 = 0	17.83	7.55	2.36	0.045	*
883_522 - 61_07 = 0	47.82	9.84	4.86	0.000	***
885_001 - 61_07 = 0	7.18	6.65	1.08	0.401	
885_009 - 61_07 = 0	11.30	6.27	1.80	0.137	
885_017 - 61_07 = 0	23.56	7.86	3.00	0.010	**
885_079 - 61_07 = 0	41.09	9.25	4.44	0.000	***
885_099 - 61_07 = 0	57.85	10.70	5.40	0.000	***
885_196 - 61_07 = 0	36.27	8.78	4.13	0.000	***
885_198 - 61_07 = 0	59.90	11.02	5.44	0.000	***
885_382 - 61_07 = 0	34.51	9.02	3.83	0.001	***
885_384 - 61_07 = 0	43.63	9.02	4.84	0.000	***
885_458 - 61_07 = 0	35.05	8.36	4.19	0.000	***
886_915 - 61_07 = 0	9.62	6.61	1.46	0.242	
886_933 - 61_07 = 0	29.93	8.09	3.70	0.001	**
887_841 - 61_07 = 0	47.52	7.25	6.56	0.000	***
850_091 - 61_08 = 0	25.79	11.11	2.32	0.049	*
850_101 - 61_08 = 0	7.94	10.12	0.78	0.555	
850_104 - 61_08 = 0	-18.56	8.03	-2.31	0.050	.
850_120 - 61_08 = 0	9.87	10.16	0.97	0.460	
870_605 - 61_08 = 0	-1.31	8.79	-0.15	0.914	
875_051 - 61_08 = 0	15.27	10.57	1.45	0.246	
875_220 - 61_08 = 0	-1.82	9.68	-0.19	0.895	
875_223 - 61_08 = 0	-12.18	7.98	-1.53	0.219	
875_242 - 61_08 = 0	0.23	9.04	0.03	0.985	
875_250 - 61_08 = 0	-9.00	8.57	-1.05	0.417	
875_262 - 61_08 = 0	-13.37	8.44	-1.58	0.200	
875_293 - 61_08 = 0	-20.38	7.84	-2.60	0.027	*
880_655 - 61_08 = 0	12.86	10.40	1.24	0.332	
883_010 - 61_08 = 0	-7.48	9.22	-0.81	0.540	
883_522 - 61_08 = 0	22.51	11.18	2.01	0.093	.
885_001 - 61_08 = 0	-18.13	8.50	-2.13	0.072	.
885_009 - 61_08 = 0	-14.01	8.36	-1.68	0.170	
885_017 - 61_08 = 0	-1.75	9.48	-0.19	0.896	
885_079 - 61_08 = 0	15.78	10.66	1.48	0.234	
885_099 - 61_08 = 0	32.53	11.94	2.72	0.020	*
885_196 - 61_08 = 0	10.96	10.25	1.07	0.408	
885_198 - 61_08 = 0	34.59	12.23	2.83	0.015	*
885_382 - 61_08 = 0	9.20	10.46	0.88	0.505	
885_384 - 61_08 = 0	18.32	10.46	1.75	0.149	
885_458 - 61_08 = 0	9.74	9.91	0.98	0.453	
886_915 - 61_08 = 0	-15.69	8.47	-1.85	0.126	
886_933 - 61_08 = 0	4.62	9.67	0.48	0.731	
887_841 - 61_08 = 0	22.21	8.95	2.48	0.035	*
850_101 - 850_091 = 0	-17.85	11.08	-1.61	0.190	
850_104 - 850_091 = 0	-44.35	9.12	-4.86	0.000	***
850_120 - 850_091 = 0	-15.92	12.11	-1.32	0.297	
870_605 - 850_091 = 0	-27.10	11.04	-2.46	0.037	*
875_051 - 850_091 = 0	-10.52	12.46	-0.84	0.525	
875_220 - 850_091 = 0	-27.61	10.66	-2.59	0.027	*
875_223 - 850_091 = 0	-37.97	10.44	-3.64	0.002	**
875_242 - 850_091 = 0	-25.56	11.22	-2.28	0.054	.

875_250 - 850_091 = 0	-34.79	10.85	-3.21	0.006	**
875_262 - 850_091 = 0	-39.15	9.47	-4.13	0.000	***
875_293 - 850_091 = 0	-46.17	10.25	-4.50	0.000	***
880_655 - 850_091 = 0	-12.93	11.31	-1.14	0.374	
883_010 - 850_091 = 0	-33.27	10.25	-3.25	0.005	**
883_522 - 850_091 = 0	-3.28	12.07	-0.27	0.851	
885_001 - 850_091 = 0	-43.92	9.59	-4.58	0.000	***
885_009 - 850_091 = 0	-39.80	10.62	-3.75	0.001	**
885_017 - 850_091 = 0	-27.54	10.42	-2.64	0.024	*
885_079 - 850_091 = 0	-10.01	11.56	-0.87	0.513	
885_099 - 850_091 = 0	6.75	12.77	0.53	0.706	
885_196 - 850_091 = 0	-14.83	11.19	-1.33	0.293	
885_198 - 850_091 = 0	8.80	13.08	0.67	0.620	
885_382 - 850_091 = 0	-16.59	11.37	-1.46	0.241	
885_384 - 850_091 = 0	-7.47	12.38	-0.60	0.661	
885_458 - 850_091 = 0	-16.05	11.90	-1.35	0.282	
886_915 - 850_091 = 0	-41.48	9.52	-4.36	0.000	***
886_933 - 850_091 = 0	-21.17	11.70	-1.81	0.135	
887_841 - 850_091 = 0	-3.58	10.57	-0.34	0.810	
850_104 - 850_101 = 0	-26.50	7.97	-3.32	0.004	**
850_120 - 850_101 = 0	1.93	11.20	0.17	0.903	
870_605 - 850_101 = 0	-9.25	10.04	-0.92	0.481	
875_051 - 850_101 = 0	7.33	11.58	0.63	0.645	
875_220 - 850_101 = 0	-9.76	9.62	-1.01	0.437	
875_223 - 850_101 = 0	-20.12	9.37	-2.15	0.071	.
875_242 - 850_101 = 0	-7.71	10.23	-0.75	0.568	
875_250 - 850_101 = 0	-16.94	9.83	-1.72	0.156	
875_262 - 850_101 = 0	-21.30	8.41	-2.53	0.031	*
875_293 - 850_101 = 0	-28.32	9.17	-3.09	0.008	**
880_655 - 850_101 = 0	4.92	10.34	0.48	0.731	
883_010 - 850_101 = 0	-15.42	9.11	-1.69	0.165	
883_522 - 850_101 = 0	14.57	11.13	1.31	0.300	
885_001 - 850_101 = 0	-26.07	8.41	-3.10	0.008	**
885_009 - 850_101 = 0	-21.95	9.57	-2.29	0.052	.
885_017 - 850_101 = 0	-9.69	9.51	-1.02	0.434	
885_079 - 850_101 = 0	7.84	10.61	0.74	0.577	
885_099 - 850_101 = 0	24.59	11.92	2.06	0.084	.
885_196 - 850_101 = 0	3.02	10.17	0.30	0.835	
885_198 - 850_101 = 0	26.65	12.21	2.18	0.067	.
885_382 - 850_101 = 0	1.26	10.41	0.12	0.933	
885_384 - 850_101 = 0	10.38	11.50	0.90	0.493	
885_458 - 850_101 = 0	1.80	10.98	0.16	0.907	
886_915 - 850_101 = 0	-23.63	8.33	-2.84	0.015	*
886_933 - 850_101 = 0	-3.32	10.76	-0.31	0.827	
887_841 - 850_101 = 0	14.27	9.51	1.50	0.227	
850_120 - 850_104 = 0	28.43	9.35	3.04	0.009	**
870_605 - 850_104 = 0	17.25	7.92	2.18	0.067	.
875_051 - 850_104 = 0	33.84	9.80	3.45	0.003	**
875_220 - 850_104 = 0	16.75	7.46	2.24	0.059	.
875_223 - 850_104 = 0	6.39	7.06	0.91	0.492	
875_242 - 850_104 = 0	18.79	8.17	2.30	0.052	.
875_250 - 850_104 = 0	9.56	7.66	1.25	0.328	
875_262 - 850_104 = 0	5.20	5.38	0.97	0.462	
875_293 - 850_104 = 0	-1.82	6.78	-0.27	0.851	
880_655 - 850_104 = 0	31.43	8.25	3.81	0.001	***

883_010 - 850_104 = 0	11.08	6.79	1.63	0.184	
883_522 - 850_104 = 0	41.07	9.22	4.46	0.000	***
885_001 - 850_104 = 0	0.43	5.82	0.07	0.960	
885_009 - 850_104 = 0	4.55	7.33	0.62	0.649	
885_017 - 850_104 = 0	16.81	6.99	2.41	0.042	*
885_079 - 850_104 = 0	34.34	8.62	3.99	0.001	***
885_099 - 850_104 = 0	51.10	10.25	4.99	0.000	***
885_196 - 850_104 = 0	29.52	8.05	3.67	0.001	**
885_198 - 850_104 = 0	53.15	10.57	5.03	0.000	***
885_382 - 850_104 = 0	27.76	8.41	3.30	0.004	**
885_384 - 850_104 = 0	36.88	9.71	3.80	0.001	***
885_458 - 850_104 = 0	28.30	9.08	3.12	0.007	**
886_915 - 850_104 = 0	2.87	5.69	0.51	0.718	
886_933 - 850_104 = 0	23.18	8.82	2.63	0.025	*
887_841 - 850_104 = 0	40.78	7.21	5.66	0.000	***
870_605 - 850_120 = 0	-11.18	10.04	-1.11	0.387	
875_051 - 850_120 = 0	5.41	11.61	0.47	0.736	
875_220 - 850_120 = 0	-11.68	10.80	-1.08	0.401	
875_223 - 850_120 = 0	-22.04	9.39	-2.35	0.047	*
875_242 - 850_120 = 0	-9.64	10.25	-0.94	0.473	
875_250 - 850_120 = 0	-18.87	9.89	-1.91	0.114	
875_262 - 850_120 = 0	-23.23	9.71	-2.39	0.043	*
875_293 - 850_120 = 0	-30.25	9.26	-3.27	0.005	**
880_655 - 850_120 = 0	3.00	11.45	0.26	0.855	
883_010 - 850_120 = 0	-17.35	10.39	-1.67	0.172	
883_522 - 850_120 = 0	12.64	12.16	1.04	0.423	
885_001 - 850_120 = 0	-28.00	9.76	-2.87	0.014	*
885_009 - 850_120 = 0	-23.88	9.67	-2.47	0.036	*
885_017 - 850_120 = 0	-11.62	10.62	-1.09	0.395	
885_079 - 850_120 = 0	5.91	11.69	0.51	0.718	
885_099 - 850_120 = 0	22.67	12.87	1.76	0.146	
885_196 - 850_120 = 0	1.09	11.32	0.10	0.949	
885_198 - 850_120 = 0	24.72	13.13	1.88	0.119	
885_382 - 850_120 = 0	-0.67	11.50	-0.06	0.971	
885_384 - 850_120 = 0	8.45	11.60	0.73	0.584	
885_458 - 850_120 = 0	-0.13	10.98	-0.01	0.994	
886_915 - 850_120 = 0	-25.56	9.73	-2.63	0.025	*
886_933 - 850_120 = 0	-5.25	10.78	-0.49	0.729	
887_841 - 850_120 = 0	12.35	10.16	1.22	0.341	
875_051 - 870_605 = 0	16.58	10.48	1.58	0.200	
875_220 - 870_605 = 0	-0.51	9.59	-0.05	0.973	
875_223 - 870_605 = 0	-10.87	7.91	-1.37	0.272	
875_242 - 870_605 = 0	1.54	8.95	0.17	0.903	
875_250 - 870_605 = 0	-7.69	8.56	-0.90	0.494	
875_262 - 870_605 = 0	-12.05	8.34	-1.45	0.246	
875_293 - 870_605 = 0	-19.07	7.73	-2.47	0.036	*
880_655 - 870_605 = 0	14.18	10.31	1.37	0.272	
883_010 - 870_605 = 0	-6.17	9.13	-0.68	0.618	
883_522 - 870_605 = 0	23.82	11.10	2.15	0.071	.
885_001 - 870_605 = 0	-16.82	8.40	-2.00	0.095	.
885_009 - 870_605 = 0	-12.70	8.21	-1.55	0.212	
885_017 - 870_605 = 0	-0.44	9.39	-0.05	0.973	
885_079 - 870_605 = 0	17.09	10.58	1.62	0.189	
885_099 - 870_605 = 0	33.85	11.87	2.85	0.014	*
885_196 - 870_605 = 0	12.27	10.17	1.21	0.345	

885_198 - 870_605 = 0	35.90	12.16	2.95	0.011 *
885_382 - 870_605 = 0	10.51	10.37	1.01	0.437
885_384 - 870_605 = 0	19.63	10.39	1.89	0.118
885_458 - 870_605 = 0	11.05	9.79	1.13	0.381
886_915 - 870_605 = 0	-14.38	8.37	-1.72	0.157
886_933 - 870_605 = 0	5.93	9.58	0.62	0.650
887_841 - 870_605 = 0	23.53	8.87	2.65	0.024 *
875_220 - 875_051 = 0	-17.09	11.19	-1.53	0.219
875_223 - 875_051 = 0	-27.45	9.82	-2.79	0.016 *
875_242 - 875_051 = 0	-15.05	10.64	-1.41	0.256
875_250 - 875_051 = 0	-24.27	10.34	-2.35	0.047 *
875_262 - 875_051 = 0	-28.64	10.15	-2.82	0.015 *
875_293 - 875_051 = 0	-35.65	9.70	-3.68	0.001 **
880_655 - 875_051 = 0	-2.41	11.82	-0.20	0.888
883_010 - 875_051 = 0	-22.75	10.80	-2.11	0.076 .
883_522 - 875_051 = 0	7.23	12.51	0.58	0.676
885_001 - 875_051 = 0	-33.40	10.19	-3.28	0.005 **
885_009 - 875_051 = 0	-29.28	10.01	-2.93	0.012 *
885_017 - 875_051 = 0	-17.02	11.02	-1.55	0.213
885_079 - 875_051 = 0	0.51	12.05	0.04	0.976
885_099 - 875_051 = 0	17.26	13.20	1.31	0.300
885_196 - 875_051 = 0	-4.32	11.69	-0.37	0.793
885_198 - 875_051 = 0	19.32	13.46	1.44	0.249
885_382 - 875_051 = 0	-6.07	11.87	-0.51	0.715
885_384 - 875_051 = 0	3.05	11.90	0.26	0.857
885_458 - 875_051 = 0	-5.53	11.38	-0.49	0.729
886_915 - 875_051 = 0	-30.96	10.16	-3.05	0.009 **
886_933 - 875_051 = 0	-10.66	11.18	-0.95	0.467
887_841 - 875_051 = 0	6.94	10.63	0.65	0.633
875_223 - 875_220 = 0	-10.36	8.89	-1.17	0.363
875_242 - 875_220 = 0	2.04	9.79	0.21	0.887
875_250 - 875_220 = 0	-7.19	9.38	-0.77	0.563
875_262 - 875_220 = 0	-11.55	7.86	-1.47	0.237
875_293 - 875_220 = 0	-18.57	8.67	-2.14	0.072 .
880_655 - 875_220 = 0	14.68	9.93	1.48	0.235
883_010 - 875_220 = 0	-5.66	8.79	-0.64	0.640
883_522 - 875_220 = 0	24.32	10.71	2.27	0.055 .
885_001 - 875_220 = 0	-16.31	7.88	-2.07	0.083 .
885_009 - 875_220 = 0	-12.19	9.10	-1.34	0.286
885_017 - 875_220 = 0	0.07	8.98	0.01	0.996
885_079 - 875_220 = 0	17.60	10.23	1.72	0.157
885_099 - 875_220 = 0	34.35	11.48	2.99	0.010 *
885_196 - 875_220 = 0	12.77	9.82	1.30	0.304
885_198 - 875_220 = 0	36.41	11.83	3.08	0.008 **
885_382 - 875_220 = 0	11.01	9.97	1.11	0.390
885_384 - 875_220 = 0	20.14	11.11	1.81	0.134
885_458 - 875_220 = 0	11.55	10.57	1.09	0.395
886_915 - 875_220 = 0	-13.87	7.81	-1.78	0.142
886_933 - 875_220 = 0	6.43	10.35	0.62	0.649
887_841 - 875_220 = 0	24.03	9.04	2.66	0.023 *
875_242 - 875_223 = 0	12.40	8.14	1.52	0.220
875_250 - 875_223 = 0	3.18	7.74	0.41	0.772
875_262 - 875_223 = 0	-1.19	7.53	-0.16	0.910
875_293 - 875_223 = 0	-8.20	6.83	-1.20	0.346
880_655 - 875_223 = 0	25.04	9.67	2.59	0.027 *

883_010 - 875_223 = 0	4.70	8.39	0.56	0.689	
883_522 - 875_223 = 0	34.68	10.50	3.30	0.004	**
885_001 - 875_223 = 0	-5.95	7.59	-0.78	0.555	
885_009 - 875_223 = 0	-1.83	7.46	-0.25	0.864	
885_017 - 875_223 = 0	10.43	8.67	1.20	0.346	
885_079 - 875_223 = 0	27.96	9.95	2.81	0.016	*
885_099 - 875_223 = 0	44.71	11.31	3.95	0.001	***
885_196 - 875_223 = 0	23.13	9.51	2.43	0.039	*
885_198 - 875_223 = 0	46.77	11.61	4.03	0.000	***
885_382 - 875_223 = 0	21.38	9.73	2.20	0.065	.
885_384 - 875_223 = 0	30.50	9.80	3.11	0.007	**
885_458 - 875_223 = 0	21.91	9.19	2.39	0.043	*
886_915 - 875_223 = 0	-3.51	7.55	-0.47	0.736	
886_933 - 875_223 = 0	16.79	8.82	1.90	0.115	
887_841 - 875_223 = 0	34.39	8.10	4.24	0.000	***
875_250 - 875_242 = 0	-9.23	8.73	-1.06	0.414	
875_262 - 875_242 = 0	-13.59	8.58	-1.59	0.200	
875_293 - 875_242 = 0	-20.61	8.06	-2.56	0.030	*
880_655 - 875_242 = 0	12.64	10.50	1.20	0.346	
883_010 - 875_242 = 0	-7.71	9.34	-0.83	0.532	
883_522 - 875_242 = 0	22.28	11.28	1.98	0.100	.
885_001 - 875_242 = 0	-18.36	8.63	-2.13	0.073	.
885_009 - 875_242 = 0	-14.24	8.46	-1.68	0.167	
885_017 - 875_242 = 0	-1.98	9.59	-0.21	0.887	
885_079 - 875_242 = 0	15.55	10.76	1.45	0.246	
885_099 - 875_242 = 0	32.31	12.04	2.68	0.022	*
885_196 - 875_242 = 0	10.73	10.36	1.04	0.424	
885_198 - 875_242 = 0	34.36	12.32	2.79	0.017	*
885_382 - 875_242 = 0	8.97	10.56	0.85	0.522	
885_384 - 875_242 = 0	18.09	10.63	1.70	0.162	
885_458 - 875_242 = 0	9.51	10.01	0.95	0.468	
886_915 - 875_242 = 0	-15.92	8.60	-1.85	0.126	
886_933 - 875_242 = 0	4.39	9.77	0.45	0.744	
887_841 - 875_242 = 0	21.99	9.11	2.42	0.041	*
875_262 - 875_250 = 0	-4.36	8.10	-0.54	0.702	
875_293 - 875_250 = 0	-11.38	7.53	-1.51	0.223	
880_655 - 875_250 = 0	21.87	10.12	2.16	0.070	.
883_010 - 875_250 = 0	1.52	8.90	0.17	0.903	
883_522 - 875_250 = 0	31.51	10.92	2.89	0.013	*
885_001 - 875_250 = 0	-9.13	8.15	-1.12	0.384	
885_009 - 875_250 = 0	-5.01	8.00	-0.63	0.648	
885_017 - 875_250 = 0	7.25	9.17	0.79	0.552	
885_079 - 875_250 = 0	24.78	10.38	2.39	0.043	*
885_099 - 875_250 = 0	41.54	11.70	3.55	0.002	**
885_196 - 875_250 = 0	19.96	9.97	2.00	0.095	.
885_198 - 875_250 = 0	43.59	11.99	3.64	0.002	**
885_382 - 875_250 = 0	18.20	10.18	1.79	0.140	
885_384 - 875_250 = 0	27.32	10.21	2.68	0.022	*
885_458 - 875_250 = 0	18.74	9.63	1.95	0.106	
886_915 - 875_250 = 0	-6.69	8.12	-0.82	0.533	
886_933 - 875_250 = 0	13.62	9.45	1.44	0.247	
887_841 - 875_250 = 0	31.22	8.61	3.63	0.002	**
875_293 - 875_262 = 0	-7.02	7.27	-0.97	0.462	
880_655 - 875_262 = 0	26.23	8.60	3.05	0.009	**
883_010 - 875_262 = 0	5.88	7.27	0.81	0.541	

883_522 - 875_262 = 0	35.87	9.59	3.74	0.001	**
885_001 - 875_262 = 0	-4.77	6.38	-0.75	0.571	
885_009 - 875_262 = 0	-0.65	7.78	-0.08	0.956	
885_017 - 875_262 = 0	11.61	7.51	1.55	0.212	
885_079 - 875_262 = 0	29.15	9.01	3.23	0.005	**
885_099 - 875_262 = 0	45.90	10.51	4.37	0.000	***
885_196 - 875_262 = 0	24.32	8.53	2.85	0.014	*
885_198 - 875_262 = 0	47.95	10.85	4.42	0.000	***
885_382 - 875_262 = 0	22.56	8.87	2.54	0.030	*
885_384 - 875_262 = 0	31.68	10.05	3.15	0.007	**
885_458 - 875_262 = 0	23.10	9.45	2.44	0.038	*
886_915 - 875_262 = 0	-2.33	6.19	-0.38	0.790	
886_933 - 875_262 = 0	17.98	9.20	1.95	0.105	
887_841 - 875_262 = 0	35.58	7.71	4.62	0.000	***
880_655 - 875_293 = 0	33.25	9.47	3.51	0.002	**
883_010 - 875_293 = 0	12.90	8.16	1.58	0.200	
883_522 - 875_293 = 0	42.89	10.32	4.16	0.000	***
885_001 - 875_293 = 0	2.25	7.33	0.31	0.828	
885_009 - 875_293 = 0	6.37	7.12	0.90	0.496	
885_017 - 875_293 = 0	18.63	8.45	2.21	0.064	.
885_079 - 875_293 = 0	36.16	9.75	3.71	0.001	**
885_099 - 875_293 = 0	52.92	11.14	4.75	0.000	***
885_196 - 875_293 = 0	31.34	9.31	3.37	0.004	**
885_198 - 875_293 = 0	54.97	11.45	4.80	0.000	***
885_382 - 875_293 = 0	29.58	9.53	3.10	0.007	**
885_384 - 875_293 = 0	38.70	9.54	4.06	0.000	***
885_458 - 875_293 = 0	30.12	8.98	3.35	0.004	**
886_915 - 875_293 = 0	4.69	7.30	0.64	0.640	
886_933 - 875_293 = 0	25.00	8.62	2.90	0.013	*
887_841 - 875_293 = 0	42.60	7.84	5.43	0.000	***
883_010 - 880_655 = 0	-20.34	9.46	-2.15	0.071	.
883_522 - 880_655 = 0	9.64	11.32	0.85	0.521	
885_001 - 880_655 = 0	-30.99	8.80	-3.52	0.002	**
885_009 - 880_655 = 0	-26.87	9.86	-2.72	0.020	*
885_017 - 880_655 = 0	-14.62	9.72	-1.50	0.226	
885_079 - 880_655 = 0	2.92	10.85	0.27	0.851	
885_099 - 880_655 = 0	19.67	12.13	1.62	0.187	
885_196 - 880_655 = 0	-1.91	10.46	-0.18	0.898	
885_198 - 880_655 = 0	21.72	12.42	1.75	0.149	
885_382 - 880_655 = 0	-3.67	10.79	-0.34	0.810	
885_384 - 880_655 = 0	5.45	11.74	0.47	0.736	
885_458 - 880_655 = 0	-3.13	11.23	-0.28	0.846	
886_915 - 880_655 = 0	-28.55	8.68	-3.29	0.004	**
886_933 - 880_655 = 0	-8.25	11.02	-0.75	0.571	
887_841 - 880_655 = 0	9.35	9.82	0.95	0.467	
883_522 - 883_010 = 0	29.99	10.37	2.89	0.013	*
885_001 - 883_010 = 0	-10.65	7.28	-1.46	0.240	
885_009 - 883_010 = 0	-6.53	8.61	-0.76	0.566	
885_017 - 883_010 = 0	5.73	8.44	0.68	0.617	
885_079 - 883_010 = 0	23.26	9.74	2.39	0.043	*
885_099 - 883_010 = 0	40.02	11.16	3.59	0.002	**
885_196 - 883_010 = 0	18.44	9.25	1.99	0.096	.
885_198 - 883_010 = 0	42.07	11.44	3.68	0.001	**
885_382 - 883_010 = 0	16.68	9.52	1.75	0.149	
885_384 - 883_010 = 0	25.80	10.71	2.41	0.041	*

885_458 - 883_010 = 0	17.22	10.15	1.70	0.164	
886_915 - 883_010 = 0	-8.21	7.26	-1.13	0.380	
886_933 - 883_010 = 0	12.10	9.92	1.22	0.340	
887_841 - 883_010 = 0	29.69	8.58	3.46	0.003	**
885_001 - 883_522 = 0	-40.64	9.68	-4.20	0.000	***
885_009 - 883_522 = 0	-36.52	10.68	-3.42	0.003	**
885_017 - 883_522 = 0	-24.26	10.57	-2.30	0.052	.
885_079 - 883_522 = 0	-6.73	11.64	-0.58	0.676	
885_099 - 883_522 = 0	10.03	12.81	0.78	0.556	
885_196 - 883_522 = 0	-11.55	11.25	-1.03	0.430	
885_198 - 883_522 = 0	12.08	13.04	0.93	0.481	
885_382 - 883_522 = 0	-13.31	11.51	-1.16	0.368	
885_384 - 883_522 = 0	-4.19	12.44	-0.34	0.811	
885_458 - 883_522 = 0	-12.77	11.96	-1.07	0.408	
886_915 - 883_522 = 0	-38.20	9.62	-3.97	0.001	***
886_933 - 883_522 = 0	-17.89	11.76	-1.52	0.220	
887_841 - 883_522 = 0	-0.29	10.62	-0.03	0.985	
885_009 - 885_001 = 0	4.12	7.84	0.53	0.706	
885_017 - 885_001 = 0	16.38	7.61	2.15	0.070	.
885_079 - 885_001 = 0	33.91	9.13	3.71	0.001	**
885_099 - 885_001 = 0	50.67	10.56	4.80	0.000	***
885_196 - 885_001 = 0	29.09	8.61	3.38	0.003	**
885_198 - 885_001 = 0	52.72	10.81	4.88	0.000	***
885_382 - 885_001 = 0	27.33	8.78	3.11	0.007	**
885_384 - 885_001 = 0	36.45	10.10	3.61	0.002	**
885_458 - 885_001 = 0	27.87	9.50	2.93	0.012	*
886_915 - 885_001 = 0	2.44	6.28	0.39	0.786	
886_933 - 885_001 = 0	22.75	9.25	2.46	0.037	*
887_841 - 885_001 = 0	40.34	7.78	5.18	0.000	***
885_017 - 885_009 = 0	12.26	8.89	1.38	0.271	
885_079 - 885_009 = 0	29.79	10.14	2.94	0.012	*
885_099 - 885_009 = 0	46.54	11.48	4.05	0.000	***
885_196 - 885_009 = 0	24.97	9.71	2.57	0.029	*
885_198 - 885_009 = 0	48.60	11.78	4.13	0.000	***
885_382 - 885_009 = 0	23.21	9.93	2.34	0.048	*
885_384 - 885_009 = 0	32.33	9.88	3.27	0.005	**
885_458 - 885_009 = 0	23.75	9.33	2.55	0.030	*
886_915 - 885_009 = 0	-1.68	7.80	-0.22	0.884	
886_933 - 885_009 = 0	18.63	9.17	2.03	0.089	.
887_841 - 885_009 = 0	36.22	8.38	4.32	0.000	***
885_079 - 885_017 = 0	17.53	10.01	1.75	0.149	
885_099 - 885_017 = 0	34.29	11.36	3.02	0.009	**
885_196 - 885_017 = 0	12.71	9.54	1.33	0.290	
885_198 - 885_017 = 0	36.34	11.66	3.12	0.007	**
885_382 - 885_017 = 0	10.95	9.77	1.12	0.384	
885_384 - 885_017 = 0	20.07	10.94	1.84	0.130	
885_458 - 885_017 = 0	11.49	10.38	1.11	0.389	
886_915 - 885_017 = 0	-13.94	7.61	-1.83	0.130	
886_933 - 885_017 = 0	6.37	10.16	0.63	0.648	
887_841 - 885_017 = 0	23.97	8.84	2.71	0.021	*
885_099 - 885_079 = 0	16.75	12.36	1.36	0.279	
885_196 - 885_079 = 0	-4.82	10.68	-0.45	0.743	
885_198 - 885_079 = 0	18.81	12.68	1.48	0.233	
885_382 - 885_079 = 0	-6.58	10.96	-0.60	0.661	
885_384 - 885_079 = 0	2.54	11.97	0.21	0.886	

885_458 - 885_079 = 0	-6.04	11.47	-0.53	0.706	
886_915 - 885_079 = 0	-31.47	9.10	-3.46	0.003	**
886_933 - 885_079 = 0	-11.16	11.27	-0.99	0.449	
887_841 - 885_079 = 0	6.43	10.07	0.64	0.642	
885_196 - 885_099 = 0	-21.58	11.99	-1.80	0.137	
885_198 - 885_099 = 0	2.05	13.72	0.15	0.914	
885_382 - 885_099 = 0	-23.34	12.19	-1.91	0.113	
885_384 - 885_099 = 0	-14.22	13.13	-1.08	0.401	
885_458 - 885_099 = 0	-22.80	12.67	-1.80	0.137	
886_915 - 885_099 = 0	-48.23	10.48	-4.60	0.000	***
886_933 - 885_099 = 0	-27.92	12.49	-2.24	0.060	.
887_841 - 885_099 = 0	-10.32	11.46	-0.90	0.493	
885_198 - 885_196 = 0	23.63	12.32	1.92	0.112	
885_382 - 885_196 = 0	-1.76	10.53	-0.17	0.905	
885_384 - 885_196 = 0	7.36	11.61	0.63	0.645	
885_458 - 885_196 = 0	-1.22	11.10	-0.11	0.939	
886_915 - 885_196 = 0	-26.65	8.55	-3.12	0.007	**
886_933 - 885_196 = 0	-6.34	10.89	-0.58	0.674	
887_841 - 885_196 = 0	11.26	9.65	1.17	0.363	
885_382 - 885_198 = 0	-25.39	12.48	-2.04	0.089	.
885_384 - 885_198 = 0	-16.27	13.39	-1.22	0.341	
885_458 - 885_198 = 0	-24.85	12.94	-1.92	0.112	
886_915 - 885_198 = 0	-50.28	10.86	-4.63	0.000	***
886_933 - 885_198 = 0	-29.97	12.76	-2.35	0.047	*
887_841 - 885_198 = 0	-12.37	11.74	-1.05	0.415	
885_384 - 885_382 = 0	9.12	11.79	0.77	0.560	
885_458 - 885_382 = 0	0.54	11.28	0.05	0.973	
886_915 - 885_382 = 0	-24.89	8.83	-2.82	0.016	*
886_933 - 885_382 = 0	-4.58	11.08	-0.41	0.771	
887_841 - 885_382 = 0	13.02	9.86	1.32	0.295	
885_458 - 885_384 = 0	-8.58	11.29	-0.76	0.566	
886_915 - 885_384 = 0	-34.01	10.07	-3.38	0.003	**
886_933 - 885_384 = 0	-13.70	11.16	-1.23	0.336	
887_841 - 885_384 = 0	3.90	10.50	0.37	0.793	
886_915 - 885_458 = 0	-25.43	9.47	-2.69	0.022	*
886_933 - 885_458 = 0	-5.12	10.57	-0.48	0.729	
887_841 - 885_458 = 0	12.48	9.93	1.26	0.325	
886_933 - 886_915 = 0	20.31	9.22	2.20	0.064	.
887_841 - 886_915 = 0	37.90	7.77	4.88	0.000	***
887_841 - 886_933 = 0	17.60	9.68	1.82	0.133	

Appendix 2: Post-hoc analysis results for the inoculation × clone interaction in the lesion number model.

Hypothesis	Estimate	SE	z	P	
15_07 - 03_16 = 0	-0.01	0.27	-0.03	0.99	
23_18 - 03_16 = 0	0.80	0.23	3.42	0.01	*
268_061 - 03_16 = 0	-0.71	0.30	-2.37	0.07	.
286_763 - 03_16 = 0	-0.52	0.29	-1.78	0.19	
288_001 - 03_16 = 0	-0.81	0.30	-2.65	0.04	*
288_011 - 03_16 = 0	-0.54	0.30	-1.82	0.18	
288_013 - 03_16 = 0	-1.00	0.31	-3.26	0.01	*
288_101 - 03_16 = 0	-1.07	0.31	-3.44	0.01	**
288_115 - 03_16 = 0	-1.01	0.31	-3.22	0.02	*
288_304 - 03_16 = 0	-0.65	0.29	-2.24	0.09	.
288_402 - 03_16 = 0	-0.40	0.28	-1.44	0.32	
288_406 - 03_16 = 0	-0.88	0.31	-2.84	0.03	*
288_408 - 03_16 = 0	-0.11	0.28	-0.41	0.83	
29_22 - 03_16 = 0	0.42	0.24	1.71	0.21	
41_23 - 03_16 = 0	-0.18	0.27	-0.67	0.71	
44_07 - 03_16 = 0	-0.07	0.26	-0.27	0.88	
61_07 - 03_16 = 0	-0.37	0.27	-1.34	0.36	
61_08 - 03_16 = 0	-0.06	0.27	-0.23	0.91	
850_091 - 03_16 = 0	0.08	0.27	0.31	0.87	
850_101 - 03_16 = 0	-0.14	0.28	-0.51	0.79	
850_104 - 03_16 = 0	-0.77	0.31	-2.51	0.06	.
850_120 - 03_16 = 0	-0.32	0.27	-1.18	0.44	
870_605 - 03_16 = 0	-0.68	0.29	-2.32	0.08	.
875_051 - 03_16 = 0	-0.04	0.26	-0.17	0.93	
875_220 - 03_16 = 0	0.01	0.27	0.03	0.99	
875_223 - 03_16 = 0	-0.91	0.31	-2.98	0.02	*
875_242 - 03_16 = 0	-0.10	0.27	-0.36	0.85	
875_250 - 03_16 = 0	-0.40	0.28	-1.44	0.32	
875_262 - 03_16 = 0	-0.95	0.32	-2.99	0.02	*
875_293 - 03_16 = 0	-0.87	0.30	-2.89	0.03	*
880_655 - 03_16 = 0	0.00	0.28	0.00	1.00	
883_010 - 03_16 = 0	-0.35	0.29	-1.20	0.43	
883_522 - 03_16 = 0	-0.17	0.28	-0.62	0.73	
885_001 - 03_16 = 0	-0.81	0.31	-2.63	0.05	*
885_009 - 03_16 = 0	-1.03	0.30	-3.39	0.01	*
885_017 - 03_16 = 0	-0.52	0.29	-1.75	0.20	
885_079 - 03_16 = 0	-0.01	0.27	-0.04	0.99	
885_099 - 03_16 = 0	-0.08	0.28	-0.30	0.88	
885_196 - 03_16 = 0	-0.24	0.28	-0.83	0.62	
885_198 - 03_16 = 0	0.17	0.27	0.62	0.73	
885_382 - 03_16 = 0	-0.22	0.28	-0.77	0.65	
885_384 - 03_16 = 0	-0.13	0.26	-0.49	0.79	
885_458 - 03_16 = 0	-0.32	0.27	-1.19	0.43	
886_915 - 03_16 = 0	-0.87	0.31	-2.78	0.03	*
886_933 - 03_16 = 0	-0.23	0.27	-0.86	0.60	

887_841 - 03_16 = 0	-0.23	0.23	-0.98	0.54	
23_18 - 15_07 = 0	0.81	0.25	3.22	0.02	*
268_061 - 15_07 = 0	-0.70	0.29	-2.40	0.07	.
286_763 - 15_07 = 0	-0.52	0.29	-1.78	0.19	
288_001 - 15_07 = 0	-0.80	0.31	-2.54	0.05	.
288_011 - 15_07 = 0	-0.53	0.29	-1.82	0.18	
288_013 - 15_07 = 0	-0.99	0.32	-3.12	0.02	*
288_101 - 15_07 = 0	-1.07	0.32	-3.30	0.01	*
288_115 - 15_07 = 0	-1.00	0.31	-3.24	0.01	*
288_304 - 15_07 = 0	-0.64	0.30	-2.13	0.11	
288_402 - 15_07 = 0	-0.39	0.29	-1.34	0.36	
288_406 - 15_07 = 0	-0.88	0.31	-2.86	0.03	*
288_408 - 15_07 = 0	-0.10	0.27	-0.38	0.84	
29_22 - 15_07 = 0	0.42	0.26	1.64	0.24	
41_23 - 15_07 = 0	-0.17	0.28	-0.61	0.74	
44_07 - 15_07 = 0	-0.06	0.28	-0.23	0.91	
61_07 - 15_07 = 0	-0.36	0.29	-1.25	0.40	
61_08 - 15_07 = 0	-0.05	0.28	-0.19	0.92	
850_091 - 15_07 = 0	0.09	0.27	0.34	0.86	
850_101 - 15_07 = 0	-0.13	0.27	-0.49	0.79	
850_104 - 15_07 = 0	-0.76	0.30	-2.54	0.05	.
850_120 - 15_07 = 0	-0.31	0.29	-1.09	0.48	
870_605 - 15_07 = 0	-0.67	0.31	-2.20	0.10	.
875_051 - 15_07 = 0	-0.04	0.28	-0.13	0.95	
875_220 - 15_07 = 0	0.01	0.27	0.06	0.98	
875_223 - 15_07 = 0	-0.90	0.32	-2.85	0.03	*
875_242 - 15_07 = 0	-0.09	0.28	-0.31	0.87	
875_250 - 15_07 = 0	-0.39	0.29	-1.34	0.36	
875_262 - 15_07 = 0	-0.94	0.31	-3.02	0.02	*
875_293 - 15_07 = 0	-0.86	0.31	-2.75	0.04	*
880_655 - 15_07 = 0	0.01	0.27	0.03	0.99	
883_010 - 15_07 = 0	-0.34	0.28	-1.21	0.42	
883_522 - 15_07 = 0	-0.17	0.28	-0.60	0.74	
885_001 - 15_07 = 0	-0.80	0.30	-2.64	0.04	*
885_009 - 15_07 = 0	-1.02	0.32	-3.23	0.02	*
885_017 - 15_07 = 0	-0.51	0.29	-1.76	0.20	
885_079 - 15_07 = 0	0.00	0.27	-0.01	0.99	
885_099 - 15_07 = 0	-0.07	0.27	-0.27	0.88	
885_196 - 15_07 = 0	-0.23	0.28	-0.83	0.62	
885_198 - 15_07 = 0	0.17	0.26	0.67	0.71	
885_382 - 15_07 = 0	-0.21	0.27	-0.76	0.66	
885_384 - 15_07 = 0	-0.12	0.28	-0.44	0.82	
885_458 - 15_07 = 0	-0.31	0.29	-1.10	0.48	
886_915 - 15_07 = 0	-0.86	0.31	-2.80	0.03	*
886_933 - 15_07 = 0	-0.23	0.28	-0.79	0.64	
887_841 - 15_07 = 0	-0.22	0.24	-0.93	0.56	
268_061 - 23_18 = 0	-1.51	0.28	-5.41	0.00	***
286_763 - 23_18 = 0	-1.33	0.27	-4.86	0.00	***
288_001 - 23_18 = 0	-1.61	0.28	-5.70	0.00	***
288_011 - 23_18 = 0	-1.34	0.28	-4.87	0.00	***

288_013 - 23_18 = 0	-1.80	0.29	-6.29	0.00	***
288_101 - 23_18 = 0	-1.88	0.29	-6.44	0.00	***
288_115 - 23_18 = 0	-1.81	0.29	-6.16	0.00	***
288_304 - 23_18 = 0	-1.45	0.27	-5.45	0.00	***
288_402 - 23_18 = 0	-1.20	0.26	-4.70	0.00	***
288_406 - 23_18 = 0	-1.69	0.29	-5.78	0.00	***
288_408 - 23_18 = 0	-0.91	0.25	-3.61	0.01	**
29_22 - 23_18 = 0	-0.39	0.22	-1.76	0.20	
41_23 - 23_18 = 0	-0.98	0.24	-4.05	0.00	**
44_07 - 23_18 = 0	-0.87	0.24	-3.61	0.01	**
61_07 - 23_18 = 0	-1.17	0.25	-4.69	0.00	***
61_08 - 23_18 = 0	-0.86	0.24	-3.55	0.01	**
850_091 - 23_18 = 0	-0.72	0.25	-2.88	0.03	*
850_101 - 23_18 = 0	-0.94	0.26	-3.68	0.00	**
850_104 - 23_18 = 0	-1.57	0.29	-5.51	0.00	***
850_120 - 23_18 = 0	-1.12	0.25	-4.53	0.00	***
870_605 - 23_18 = 0	-1.48	0.27	-5.47	0.00	***
875_051 - 23_18 = 0	-0.85	0.23	-3.63	0.01	**
875_220 - 23_18 = 0	-0.80	0.25	-3.19	0.02	*
875_223 - 23_18 = 0	-1.71	0.28	-6.05	0.00	***
875_242 - 23_18 = 0	-0.90	0.24	-3.74	0.00	**
875_250 - 23_18 = 0	-1.20	0.25	-4.74	0.00	***
875_262 - 23_18 = 0	-1.75	0.30	-5.88	0.00	***
875_293 - 23_18 = 0	-1.67	0.28	-5.98	0.00	***
880_655 - 23_18 = 0	-0.80	0.25	-3.18	0.02	*
883_010 - 23_18 = 0	-1.15	0.27	-4.33	0.00	***
883_522 - 23_18 = 0	-0.98	0.26	-3.78	0.00	**
885_001 - 23_18 = 0	-1.61	0.29	-5.59	0.00	***
885_009 - 23_18 = 0	-1.83	0.28	-6.46	0.00	***
885_017 - 23_18 = 0	-1.32	0.27	-4.82	0.00	***
885_079 - 23_18 = 0	-0.81	0.25	-3.24	0.01	*
885_099 - 23_18 = 0	-0.88	0.25	-3.48	0.01	**
885_196 - 23_18 = 0	-1.04	0.26	-3.97	0.00	**
885_198 - 23_18 = 0	-0.64	0.24	-2.60	0.05	*
885_382 - 23_18 = 0	-1.02	0.26	-3.95	0.00	**
885_384 - 23_18 = 0	-0.93	0.24	-3.86	0.00	**
885_458 - 23_18 = 0	-1.12	0.25	-4.52	0.00	***
886_915 - 23_18 = 0	-1.67	0.29	-5.71	0.00	***
886_933 - 23_18 = 0	-1.04	0.24	-4.24	0.00	***
887_841 - 23_18 = 0	-1.03	0.21	-4.96	0.00	***
286_763 - 268_061 = 0	0.19	0.31	0.60	0.74	
288_001 - 268_061 = 0	-0.09	0.34	-0.27	0.88	
288_011 - 268_061 = 0	0.17	0.32	0.55	0.76	
288_013 - 268_061 = 0	-0.29	0.34	-0.85	0.61	
288_101 - 268_061 = 0	-0.36	0.35	-1.05	0.50	
288_115 - 268_061 = 0	-0.30	0.33	-0.90	0.58	
288_304 - 268_061 = 0	0.06	0.33	0.20	0.92	
288_402 - 268_061 = 0	0.31	0.32	0.98	0.54	
288_406 - 268_061 = 0	-0.17	0.33	-0.52	0.78	
288_408 - 268_061 = 0	0.60	0.30	2.03	0.13	

29_22 - 268_061 = 0	1.13	0.29	3.92	0.00	**
41_23 - 268_061 = 0	0.53	0.31	1.74	0.20	
44_07 - 268_061 = 0	0.64	0.30	2.10	0.11	
61_07 - 268_061 = 0	0.35	0.31	1.11	0.47	
61_08 - 268_061 = 0	0.65	0.31	2.12	0.11	
850_091 - 268_061 = 0	0.80	0.29	2.71	0.04	*
850_101 - 268_061 = 0	0.57	0.30	1.91	0.15	
850_104 - 268_061 = 0	-0.06	0.33	-0.17	0.93	
850_120 - 268_061 = 0	0.39	0.31	1.26	0.39	
870_605 - 268_061 = 0	0.03	0.33	0.10	0.96	
875_051 - 268_061 = 0	0.67	0.30	2.21	0.10	.
875_220 - 268_061 = 0	0.72	0.29	2.46	0.06	.
875_223 - 268_061 = 0	-0.20	0.34	-0.59	0.75	
875_242 - 268_061 = 0	0.62	0.31	2.02	0.13	
875_250 - 268_061 = 0	0.32	0.31	1.00	0.53	
875_262 - 268_061 = 0	-0.24	0.34	-0.70	0.69	
875_293 - 268_061 = 0	-0.15	0.34	-0.46	0.81	
880_655 - 268_061 = 0	0.71	0.30	2.40	0.07	.
883_010 - 268_061 = 0	0.37	0.31	1.19	0.43	
883_522 - 268_061 = 0	0.54	0.30	1.78	0.19	
885_001 - 268_061 = 0	-0.10	0.33	-0.30	0.87	
885_009 - 268_061 = 0	-0.32	0.34	-0.94	0.56	
885_017 - 268_061 = 0	0.20	0.31	0.62	0.73	
885_079 - 268_061 = 0	0.70	0.29	2.39	0.07	.
885_099 - 268_061 = 0	0.63	0.30	2.11	0.11	
885_196 - 268_061 = 0	0.48	0.30	1.57	0.26	
885_198 - 268_061 = 0	0.88	0.29	3.02	0.02	*
885_382 - 268_061 = 0	0.50	0.30	1.66	0.23	
885_384 - 268_061 = 0	0.58	0.31	1.90	0.16	
885_458 - 268_061 = 0	0.39	0.31	1.25	0.40	
886_915 - 268_061 = 0	-0.16	0.33	-0.48	0.80	
886_933 - 268_061 = 0	0.48	0.31	1.55	0.27	
887_841 - 268_061 = 0	0.48	0.27	1.80	0.19	
288_001 - 286_763 = 0	-0.28	0.33	-0.85	0.61	
288_011 - 286_763 = 0	-0.01	0.31	-0.05	0.98	
288_013 - 286_763 = 0	-0.48	0.34	-1.42	0.32	
288_101 - 286_763 = 0	-0.55	0.34	-1.62	0.25	
288_115 - 286_763 = 0	-0.49	0.33	-1.49	0.29	
288_304 - 286_763 = 0	-0.12	0.32	-0.39	0.84	
288_402 - 286_763 = 0	0.12	0.31	0.39	0.84	
288_406 - 286_763 = 0	-0.36	0.32	-1.11	0.47	
288_408 - 286_763 = 0	0.41	0.29	1.43	0.32	
29_22 - 286_763 = 0	0.94	0.28	3.35	0.01	*
41_23 - 286_763 = 0	0.35	0.30	1.15	0.45	
44_07 - 286_763 = 0	0.45	0.30	1.52	0.28	
61_07 - 286_763 = 0	0.16	0.31	0.52	0.78	
61_08 - 286_763 = 0	0.46	0.30	1.54	0.27	
850_091 - 286_763 = 0	0.61	0.29	2.13	0.11	
850_101 - 286_763 = 0	0.38	0.29	1.30	0.38	
850_104 - 286_763 = 0	-0.24	0.32	-0.77	0.65	

850_120 - 286_763 = 0	0.21	0.30	0.67	0.71	
870_605 - 286_763 = 0	-0.16	0.32	-0.48	0.79	
875_051 - 286_763 = 0	0.48	0.30	1.62	0.24	
875_220 - 286_763 = 0	0.53	0.29	1.86	0.17	
875_223 - 286_763 = 0	-0.39	0.33	-1.16	0.45	
875_242 - 286_763 = 0	0.43	0.30	1.43	0.32	
875_250 - 286_763 = 0	0.13	0.31	0.41	0.83	
875_262 - 286_763 = 0	-0.43	0.33	-1.29	0.38	
875_293 - 286_763 = 0	-0.34	0.33	-1.04	0.50	
880_655 - 286_763 = 0	0.52	0.29	1.80	0.18	
883_010 - 286_763 = 0	0.18	0.30	0.59	0.74	
883_522 - 286_763 = 0	0.35	0.30	1.19	0.43	
885_001 - 286_763 = 0	-0.29	0.32	-0.90	0.58	
885_009 - 286_763 = 0	-0.51	0.33	-1.52	0.28	
885_017 - 286_763 = 0	0.01	0.31	0.03	0.99	
885_079 - 286_763 = 0	0.51	0.29	1.79	0.19	
885_099 - 286_763 = 0	0.44	0.29	1.52	0.28	
885_196 - 286_763 = 0	0.29	0.30	0.97	0.54	
885_198 - 286_763 = 0	0.69	0.28	2.43	0.06	.
885_382 - 286_763 = 0	0.31	0.29	1.06	0.49	
885_384 - 286_763 = 0	0.39	0.30	1.32	0.37	
885_458 - 286_763 = 0	0.20	0.31	0.66	0.71	
886_915 - 286_763 = 0	-0.35	0.33	-1.06	0.49	
886_933 - 286_763 = 0	0.29	0.30	0.96	0.55	
887_841 - 286_763 = 0	0.30	0.26	1.13	0.46	
288_011 - 288_001 = 0	0.27	0.33	0.80	0.64	
288_013 - 288_001 = 0	-0.20	0.34	-0.58	0.75	
288_101 - 288_001 = 0	-0.27	0.35	-0.78	0.65	
288_115 - 288_001 = 0	-0.21	0.35	-0.59	0.74	
288_304 - 288_001 = 0	0.16	0.32	0.49	0.79	
288_402 - 288_001 = 0	0.40	0.32	1.28	0.39	
288_406 - 288_001 = 0	-0.08	0.35	-0.23	0.91	
288_408 - 288_001 = 0	0.69	0.32	2.20	0.10	.
29_22 - 288_001 = 0	1.22	0.29	4.21	0.00	***
41_23 - 288_001 = 0	0.63	0.31	2.04	0.12	
44_07 - 288_001 = 0	0.73	0.31	2.39	0.07	.
61_07 - 288_001 = 0	0.44	0.31	1.40	0.33	
61_08 - 288_001 = 0	0.74	0.31	2.42	0.07	.
850_091 - 288_001 = 0	0.89	0.31	2.84	0.03	*
850_101 - 288_001 = 0	0.66	0.32	2.08	0.12	
850_104 - 288_001 = 0	0.04	0.34	0.11	0.95	
850_120 - 288_001 = 0	0.49	0.31	1.55	0.27	
870_605 - 288_001 = 0	0.12	0.33	0.38	0.85	
875_051 - 288_001 = 0	0.76	0.30	2.50	0.06	.
875_220 - 288_001 = 0	0.81	0.31	2.60	0.05	*
875_223 - 288_001 = 0	-0.11	0.34	-0.31	0.87	
875_242 - 288_001 = 0	0.71	0.31	2.31	0.08	.
875_250 - 288_001 = 0	0.41	0.32	1.29	0.38	
875_262 - 288_001 = 0	-0.15	0.35	-0.41	0.83	
875_293 - 288_001 = 0	-0.06	0.34	-0.18	0.92	

880_655 - 288_001 = 0	0.80	0.32	2.55	0.05	.
883_010 - 288_001 = 0	0.46	0.33	1.41	0.32	
883_522 - 288_001 = 0	0.63	0.32	1.97	0.14	
885_001 - 288_001 = 0	-0.01	0.34	-0.02	0.99	
885_009 - 288_001 = 0	-0.23	0.34	-0.67	0.71	
885_017 - 288_001 = 0	0.29	0.33	0.87	0.60	
885_079 - 288_001 = 0	0.79	0.31	2.53	0.05	.
885_099 - 288_001 = 0	0.72	0.32	2.28	0.08	.
885_196 - 288_001 = 0	0.57	0.32	1.77	0.19	
885_198 - 288_001 = 0	0.97	0.31	3.15	0.02	*
885_382 - 288_001 = 0	0.59	0.32	1.85	0.17	
885_384 - 288_001 = 0	0.67	0.31	2.21	0.10	.
885_458 - 288_001 = 0	0.48	0.31	1.54	0.27	
886_915 - 288_001 = 0	-0.07	0.35	-0.19	0.92	
886_933 - 288_001 = 0	0.57	0.31	1.84	0.17	
887_841 - 288_001 = 0	0.58	0.28	2.06	0.12	
288_013 - 288_011 = 0	-0.46	0.34	-1.37	0.34	
288_101 - 288_011 = 0	-0.54	0.34	-1.57	0.26	
288_115 - 288_011 = 0	-0.47	0.33	-1.44	0.32	
288_304 - 288_011 = 0	-0.11	0.32	-0.34	0.86	
288_402 - 288_011 = 0	0.14	0.31	0.44	0.82	
288_406 - 288_011 = 0	-0.35	0.33	-1.06	0.49	
288_408 - 288_011 = 0	0.43	0.29	1.45	0.31	
29_22 - 288_011 = 0	0.96	0.28	3.37	0.01	*
41_23 - 288_011 = 0	0.36	0.30	1.19	0.43	
44_07 - 288_011 = 0	0.47	0.30	1.55	0.27	
61_07 - 288_011 = 0	0.17	0.31	0.56	0.76	
61_08 - 288_011 = 0	0.48	0.30	1.58	0.26	
850_091 - 288_011 = 0	0.62	0.29	2.16	0.10	
850_101 - 288_011 = 0	0.40	0.30	1.34	0.36	
850_104 - 288_011 = 0	-0.23	0.32	-0.72	0.68	
850_120 - 288_011 = 0	0.22	0.31	0.72	0.68	
870_605 - 288_011 = 0	-0.14	0.33	-0.44	0.82	
875_051 - 288_011 = 0	0.49	0.30	1.66	0.23	
875_220 - 288_011 = 0	0.55	0.29	1.90	0.16	
875_223 - 288_011 = 0	-0.37	0.34	-1.11	0.47	
875_242 - 288_011 = 0	0.44	0.30	1.47	0.30	
875_250 - 288_011 = 0	0.14	0.31	0.46	0.81	
875_262 - 288_011 = 0	-0.41	0.33	-1.24	0.40	
875_293 - 288_011 = 0	-0.33	0.33	-0.99	0.53	
880_655 - 288_011 = 0	0.54	0.29	1.83	0.18	
883_010 - 288_011 = 0	0.19	0.30	0.64	0.73	
883_522 - 288_011 = 0	0.36	0.30	1.22	0.42	
885_001 - 288_011 = 0	-0.27	0.32	-0.85	0.61	
885_009 - 288_011 = 0	-0.49	0.34	-1.47	0.30	
885_017 - 288_011 = 0	0.02	0.31	0.07	0.97	
885_079 - 288_011 = 0	0.53	0.29	1.82	0.18	
885_099 - 288_011 = 0	0.46	0.29	1.57	0.26	
885_196 - 288_011 = 0	0.30	0.30	1.01	0.52	
885_198 - 288_011 = 0	0.71	0.28	2.48	0.06	.

885_382 - 288_011 = 0	0.32	0.29	1.10	0.48	
885_384 - 288_011 = 0	0.41	0.30	1.35	0.35	
885_458 - 288_011 = 0	0.22	0.31	0.70	0.69	
886_915 - 288_011 = 0	-0.33	0.33	-1.01	0.52	
886_933 - 288_011 = 0	0.31	0.31	1.00	0.53	
887_841 - 288_011 = 0	0.31	0.26	1.17	0.44	
288_101 - 288_013 = 0	-0.07	0.35	-0.20	0.92	
288_115 - 288_013 = 0	-0.01	0.35	-0.03	0.99	
288_304 - 288_013 = 0	0.35	0.33	1.08	0.48	
288_402 - 288_013 = 0	0.60	0.32	1.85	0.17	
288_406 - 288_013 = 0	0.12	0.35	0.34	0.86	
288_408 - 288_013 = 0	0.89	0.32	2.78	0.03	*
29_22 - 288_013 = 0	1.42	0.29	4.85	0.00	***
41_23 - 288_013 = 0	0.82	0.31	2.64	0.04	*
44_07 - 288_013 = 0	0.93	0.31	3.00	0.02	*
61_07 - 288_013 = 0	0.64	0.32	2.00	0.13	
61_08 - 288_013 = 0	0.94	0.31	3.01	0.02	*
850_091 - 288_013 = 0	1.09	0.32	3.42	0.01	*
850_101 - 288_013 = 0	0.86	0.32	2.66	0.04	*
850_104 - 288_013 = 0	0.23	0.35	0.68	0.71	
850_120 - 288_013 = 0	0.68	0.32	2.17	0.10	
870_605 - 288_013 = 0	0.32	0.34	0.96	0.55	
875_051 - 288_013 = 0	0.96	0.31	3.12	0.02	*
875_220 - 288_013 = 0	1.01	0.32	3.18	0.02	*
875_223 - 288_013 = 0	0.09	0.35	0.26	0.89	
875_242 - 288_013 = 0	0.91	0.31	2.90	0.03	*
875_250 - 288_013 = 0	0.61	0.32	1.89	0.16	
875_262 - 288_013 = 0	0.05	0.36	0.15	0.94	
875_293 - 288_013 = 0	0.14	0.34	0.40	0.84	
880_655 - 288_013 = 0	1.00	0.32	3.13	0.02	*
883_010 - 288_013 = 0	0.66	0.33	1.99	0.14	
883_522 - 288_013 = 0	0.83	0.32	2.55	0.05	.
885_001 - 288_013 = 0	0.19	0.35	0.55	0.77	
885_009 - 288_013 = 0	-0.03	0.35	-0.09	0.97	
885_017 - 288_013 = 0	0.49	0.34	1.44	0.31	
885_079 - 288_013 = 0	0.99	0.32	3.11	0.02	*
885_099 - 288_013 = 0	0.92	0.32	2.86	0.03	*
885_196 - 288_013 = 0	0.77	0.33	2.34	0.07	.
885_198 - 288_013 = 0	1.17	0.31	3.73	0.00	**
885_382 - 288_013 = 0	0.79	0.32	2.43	0.06	.
885_384 - 288_013 = 0	0.87	0.31	2.78	0.03	*
885_458 - 288_013 = 0	0.68	0.32	2.14	0.10	
886_915 - 288_013 = 0	0.13	0.35	0.37	0.85	
886_933 - 288_013 = 0	0.77	0.32	2.44	0.06	.
887_841 - 288_013 = 0	0.77	0.29	2.71	0.04	*
288_115 - 288_101 = 0	0.06	0.36	0.18	0.93	
288_304 - 288_101 = 0	0.43	0.33	1.28	0.39	
288_402 - 288_101 = 0	0.67	0.33	2.06	0.12	
288_406 - 288_101 = 0	0.19	0.36	0.54	0.77	
288_408 - 288_101 = 0	0.96	0.32	2.97	0.02	*

29_22 - 288_101 = 0	1.49	0.30	4.99	0.00	***
41_23 - 288_101 = 0	0.90	0.32	2.84	0.03	*
44_07 - 288_101 = 0	1.00	0.31	3.20	0.02	*
61_07 - 288_101 = 0	0.71	0.32	2.22	0.09	.
61_08 - 288_101 = 0	1.01	0.32	3.18	0.02	*
850_091 - 288_101 = 0	1.16	0.32	3.60	0.01	**
850_101 - 288_101 = 0	0.93	0.33	2.85	0.03	*
850_104 - 288_101 = 0	0.31	0.35	0.87	0.59	
850_120 - 288_101 = 0	0.75	0.32	2.36	0.07	.
870_605 - 288_101 = 0	0.39	0.34	1.16	0.45	
875_051 - 288_101 = 0	1.03	0.31	3.31	0.01	*
875_220 - 288_101 = 0	1.08	0.32	3.36	0.01	*
875_223 - 288_101 = 0	0.16	0.35	0.47	0.81	
875_242 - 288_101 = 0	0.98	0.32	3.10	0.02	*
875_250 - 288_101 = 0	0.68	0.33	2.08	0.12	
875_262 - 288_101 = 0	0.12	0.36	0.34	0.86	
875_293 - 288_101 = 0	0.21	0.34	0.61	0.74	
880_655 - 288_101 = 0	1.07	0.32	3.31	0.01	*
883_010 - 288_101 = 0	0.73	0.33	2.18	0.10	.
883_522 - 288_101 = 0	0.90	0.33	2.74	0.04	*
885_001 - 288_101 = 0	0.26	0.35	0.74	0.67	
885_009 - 288_101 = 0	0.04	0.35	0.12	0.95	
885_017 - 288_101 = 0	0.56	0.34	1.64	0.24	
885_079 - 288_101 = 0	1.06	0.32	3.30	0.01	*
885_099 - 288_101 = 0	0.99	0.33	3.05	0.02	*
885_196 - 288_101 = 0	0.84	0.33	2.54	0.05	.
885_198 - 288_101 = 0	1.24	0.32	3.91	0.00	**
885_382 - 288_101 = 0	0.86	0.33	2.62	0.05	*
885_384 - 288_101 = 0	0.94	0.32	2.98	0.02	*
885_458 - 288_101 = 0	0.75	0.32	2.34	0.08	.
886_915 - 288_101 = 0	0.20	0.36	0.57	0.75	
886_933 - 288_101 = 0	0.84	0.32	2.64	0.04	*
887_841 - 288_101 = 0	0.85	0.29	2.91	0.03	*
288_304 - 288_115 = 0	0.36	0.34	1.08	0.48	
288_402 - 288_115 = 0	0.61	0.33	1.84	0.17	
288_406 - 288_115 = 0	0.13	0.34	0.37	0.85	
288_408 - 288_115 = 0	0.90	0.31	2.91	0.03	*
29_22 - 288_115 = 0	1.43	0.30	4.73	0.00	***
41_23 - 288_115 = 0	0.83	0.32	2.60	0.05	*
44_07 - 288_115 = 0	0.94	0.32	2.95	0.03	*
61_07 - 288_115 = 0	0.65	0.33	1.98	0.14	
61_08 - 288_115 = 0	0.95	0.32	2.97	0.02	*
850_091 - 288_115 = 0	1.09	0.31	3.55	0.01	**
850_101 - 288_115 = 0	0.87	0.31	2.79	0.03	*
850_104 - 288_115 = 0	0.24	0.34	0.72	0.68	
850_120 - 288_115 = 0	0.69	0.32	2.14	0.11	
870_605 - 288_115 = 0	0.33	0.34	0.97	0.54	
875_051 - 288_115 = 0	0.97	0.32	3.06	0.02	*
875_220 - 288_115 = 0	1.02	0.31	3.33	0.01	*
875_223 - 288_115 = 0	0.10	0.35	0.28	0.88	

875_242 - 288_115 = 0	0.92	0.32	2.87	0.03	*
875_250 - 288_115 = 0	0.61	0.33	1.88	0.16	
875_262 - 288_115 = 0	0.06	0.35	0.18	0.93	
875_293 - 288_115 = 0	0.14	0.35	0.42	0.83	
880_655 - 288_115 = 0	1.01	0.31	3.27	0.01	*
883_010 - 288_115 = 0	0.67	0.32	2.08	0.12	
883_522 - 288_115 = 0	0.84	0.31	2.66	0.04	*
885_001 - 288_115 = 0	0.20	0.34	0.59	0.75	
885_009 - 288_115 = 0	-0.02	0.35	-0.06	0.98	
885_017 - 288_115 = 0	0.50	0.33	1.51	0.29	
885_079 - 288_115 = 0	1.00	0.31	3.25	0.01	*
885_099 - 288_115 = 0	0.93	0.31	2.98	0.02	*
885_196 - 288_115 = 0	0.78	0.32	2.43	0.06	.
885_198 - 288_115 = 0	1.18	0.30	3.88	0.00	**
885_382 - 288_115 = 0	0.80	0.31	2.54	0.05	.
885_384 - 288_115 = 0	0.88	0.32	2.76	0.04	*
885_458 - 288_115 = 0	0.69	0.33	2.12	0.11	
886_915 - 288_115 = 0	0.14	0.34	0.41	0.83	
886_933 - 288_115 = 0	0.78	0.32	2.41	0.07	.
887_841 - 288_115 = 0	0.78	0.28	2.75	0.04	*
288_402 - 288_304 = 0	0.25	0.30	0.81	0.63	
288_406 - 288_304 = 0	-0.24	0.34	-0.70	0.69	
288_408 - 288_304 = 0	0.54	0.30	1.77	0.19	
29_22 - 288_304 = 0	1.06	0.27	3.90	0.00	**
41_23 - 288_304 = 0	0.47	0.29	1.60	0.25	
44_07 - 288_304 = 0	0.58	0.29	1.96	0.14	
61_07 - 288_304 = 0	0.28	0.30	0.94	0.56	
61_08 - 288_304 = 0	0.59	0.29	2.00	0.13	
850_091 - 288_304 = 0	0.73	0.30	2.44	0.06	.
850_101 - 288_304 = 0	0.51	0.31	1.66	0.23	
850_104 - 288_304 = 0	-0.12	0.33	-0.37	0.85	
850_120 - 288_304 = 0	0.33	0.30	1.10	0.48	
870_605 - 288_304 = 0	-0.03	0.32	-0.10	0.96	
875_051 - 288_304 = 0	0.60	0.29	2.10	0.11	
875_220 - 288_304 = 0	0.65	0.30	2.19	0.10	.
875_223 - 288_304 = 0	-0.26	0.33	-0.80	0.63	
875_242 - 288_304 = 0	0.55	0.29	1.88	0.16	
875_250 - 288_304 = 0	0.25	0.30	0.83	0.62	
875_262 - 288_304 = 0	-0.30	0.34	-0.89	0.59	
875_293 - 288_304 = 0	-0.22	0.32	-0.68	0.71	
880_655 - 288_304 = 0	0.65	0.30	2.14	0.10	
883_010 - 288_304 = 0	0.30	0.31	0.97	0.54	
883_522 - 288_304 = 0	0.47	0.31	1.54	0.27	
885_001 - 288_304 = 0	-0.16	0.33	-0.49	0.79	
885_009 - 288_304 = 0	-0.38	0.33	-1.17	0.44	
885_017 - 288_304 = 0	0.13	0.32	0.41	0.83	
885_079 - 288_304 = 0	0.64	0.30	2.12	0.11	
885_099 - 288_304 = 0	0.57	0.30	1.86	0.17	
885_196 - 288_304 = 0	0.41	0.31	1.33	0.36	
885_198 - 288_304 = 0	0.81	0.30	2.76	0.04	*

885_382 - 288_304 = 0	0.43	0.31	1.41	0.32	
885_384 - 288_304 = 0	0.52	0.29	1.77	0.19	
885_458 - 288_304 = 0	0.33	0.30	1.09	0.48	
886_915 - 288_304 = 0	-0.22	0.34	-0.66	0.71	
886_933 - 288_304 = 0	0.41	0.30	1.39	0.33	
887_841 - 288_304 = 0	0.42	0.27	1.58	0.26	
288_406 - 288_402 = 0	-0.48	0.33	-1.47	0.30	
288_408 - 288_402 = 0	0.29	0.29	0.98	0.54	
29_22 - 288_402 = 0	0.82	0.27	3.07	0.02	*
41_23 - 288_402 = 0	0.22	0.29	0.78	0.65	
44_07 - 288_402 = 0	0.33	0.28	1.16	0.45	
61_07 - 288_402 = 0	0.04	0.29	0.12	0.95	
61_08 - 288_402 = 0	0.34	0.29	1.20	0.43	
850_091 - 288_402 = 0	0.49	0.29	1.66	0.23	
850_101 - 288_402 = 0	0.26	0.30	0.88	0.59	
850_104 - 288_402 = 0	-0.37	0.32	-1.14	0.46	
850_120 - 288_402 = 0	0.08	0.29	0.28	0.88	
870_605 - 288_402 = 0	-0.28	0.31	-0.90	0.58	
875_051 - 288_402 = 0	0.36	0.28	1.28	0.39	
875_220 - 288_402 = 0	0.41	0.29	1.40	0.33	
875_223 - 288_402 = 0	-0.51	0.32	-1.59	0.26	
875_242 - 288_402 = 0	0.31	0.28	1.08	0.48	
875_250 - 288_402 = 0	0.00	0.29	0.02	0.99	
875_262 - 288_402 = 0	-0.55	0.33	-1.64	0.24	
875_293 - 288_402 = 0	-0.46	0.32	-1.47	0.30	
880_655 - 288_402 = 0	0.40	0.29	1.36	0.35	
883_010 - 288_402 = 0	0.06	0.31	0.18	0.92	
883_522 - 288_402 = 0	0.23	0.30	0.76	0.65	
885_001 - 288_402 = 0	-0.41	0.33	-1.26	0.39	
885_009 - 288_402 = 0	-0.63	0.32	-1.96	0.14	
885_017 - 288_402 = 0	-0.11	0.31	-0.37	0.85	
885_079 - 288_402 = 0	0.39	0.29	1.34	0.36	
885_099 - 288_402 = 0	0.32	0.30	1.08	0.48	
885_196 - 288_402 = 0	0.17	0.30	0.55	0.76	
885_198 - 288_402 = 0	0.57	0.29	1.98	0.14	
885_382 - 288_402 = 0	0.19	0.30	0.63	0.73	
885_384 - 288_402 = 0	0.27	0.28	0.96	0.55	
885_458 - 288_402 = 0	0.08	0.29	0.27	0.88	
886_915 - 288_402 = 0	-0.47	0.33	-1.42	0.32	
886_933 - 288_402 = 0	0.17	0.29	0.58	0.75	
887_841 - 288_402 = 0	0.17	0.26	0.67	0.71	
288_408 - 288_406 = 0	0.77	0.31	2.52	0.06	.
29_22 - 288_406 = 0	1.30	0.30	4.35	0.00	***
41_23 - 288_406 = 0	0.71	0.32	2.23	0.09	.
44_07 - 288_406 = 0	0.81	0.32	2.57	0.05	.
61_07 - 288_406 = 0	0.52	0.32	1.60	0.25	
61_08 - 288_406 = 0	0.82	0.32	2.59	0.05	*
850_091 - 288_406 = 0	0.97	0.30	3.17	0.02	*
850_101 - 288_406 = 0	0.74	0.31	2.38	0.07	.
850_104 - 288_406 = 0	0.12	0.33	0.35	0.86	

850_120 - 288_406 = 0	0.56	0.32	1.76	0.20	
870_605 - 288_406 = 0	0.20	0.34	0.60	0.74	
875_051 - 288_406 = 0	0.84	0.31	2.68	0.04	*
875_220 - 288_406 = 0	0.89	0.31	2.90	0.03	*
875_223 - 288_406 = 0	-0.03	0.35	-0.08	0.97	
875_242 - 288_406 = 0	0.79	0.32	2.49	0.06	.
875_250 - 288_406 = 0	0.49	0.33	1.50	0.29	
875_262 - 288_406 = 0	-0.07	0.34	-0.19	0.92	
875_293 - 288_406 = 0	0.02	0.35	0.05	0.98	
880_655 - 288_406 = 0	0.88	0.31	2.89	0.03	*
883_010 - 288_406 = 0	0.54	0.32	1.71	0.21	
883_522 - 288_406 = 0	0.71	0.31	2.27	0.09	.
885_001 - 288_406 = 0	0.07	0.34	0.21	0.91	
885_009 - 288_406 = 0	-0.15	0.35	-0.42	0.83	
885_017 - 288_406 = 0	0.37	0.32	1.14	0.46	
885_079 - 288_406 = 0	0.87	0.30	2.87	0.03	*
885_099 - 288_406 = 0	0.80	0.31	2.60	0.05	*
885_196 - 288_406 = 0	0.65	0.31	2.06	0.12	
885_198 - 288_406 = 0	1.05	0.30	3.50	0.01	**
885_382 - 288_406 = 0	0.67	0.31	2.14	0.10	
885_384 - 288_406 = 0	0.75	0.32	2.38	0.07	.
885_458 - 288_406 = 0	0.56	0.32	1.74	0.20	
886_915 - 288_406 = 0	0.01	0.34	0.04	0.99	
886_933 - 288_406 = 0	0.65	0.32	2.03	0.13	
887_841 - 288_406 = 0	0.65	0.28	2.33	0.08	.
29_22 - 288_408 = 0	0.53	0.26	2.02	0.13	
41_23 - 288_408 = 0	-0.07	0.28	-0.23	0.91	
44_07 - 288_408 = 0	0.04	0.28	0.14	0.94	
61_07 - 288_408 = 0	-0.25	0.29	-0.88	0.59	
61_08 - 288_408 = 0	0.05	0.28	0.18	0.93	
850_091 - 288_408 = 0	0.20	0.27	0.72	0.68	
850_101 - 288_408 = 0	-0.03	0.27	-0.11	0.95	
850_104 - 288_408 = 0	-0.66	0.30	-2.17	0.10	
850_120 - 288_408 = 0	-0.21	0.29	-0.72	0.68	
870_605 - 288_408 = 0	-0.57	0.31	-1.85	0.17	
875_051 - 288_408 = 0	0.07	0.28	0.24	0.90	
875_220 - 288_408 = 0	0.12	0.27	0.44	0.82	
875_223 - 288_408 = 0	-0.80	0.32	-2.51	0.06	.
875_242 - 288_408 = 0	0.02	0.28	0.06	0.98	
875_250 - 288_408 = 0	-0.28	0.29	-0.98	0.54	
875_262 - 288_408 = 0	-0.84	0.31	-2.67	0.04	*
875_293 - 288_408 = 0	-0.75	0.31	-2.41	0.07	.
880_655 - 288_408 = 0	0.11	0.27	0.41	0.83	
883_010 - 288_408 = 0	-0.23	0.28	-0.83	0.62	
883_522 - 288_408 = 0	-0.06	0.28	-0.22	0.91	
885_001 - 288_408 = 0	-0.70	0.30	-2.30	0.08	.
885_009 - 288_408 = 0	-0.92	0.32	-2.88	0.03	*
885_017 - 288_408 = 0	-0.40	0.29	-1.39	0.33	
885_079 - 288_408 = 0	0.10	0.27	0.38	0.84	
885_099 - 288_408 = 0	0.03	0.27	0.11	0.95	

885_196 - 288_408 = 0	-0.12	0.28	-0.44	0.82	
885_198 - 288_408 = 0	0.28	0.26	1.06	0.49	
885_382 - 288_408 = 0	-0.10	0.28	-0.37	0.85	
885_384 - 288_408 = 0	-0.02	0.28	-0.07	0.98	
885_458 - 288_408 = 0	-0.21	0.29	-0.73	0.68	
886_915 - 288_408 = 0	-0.76	0.31	-2.44	0.06	.
886_933 - 288_408 = 0	-0.12	0.29	-0.42	0.83	
887_841 - 288_408 = 0	-0.12	0.24	-0.49	0.79	
41_23 - 29_22 = 0	-0.60	0.25	-2.37	0.07	.
44_07 - 29_22 = 0	-0.49	0.25	-1.97	0.14	
61_07 - 29_22 = 0	-0.78	0.26	-3.04	0.02	*
61_08 - 29_22 = 0	-0.48	0.25	-1.89	0.16	
850_091 - 29_22 = 0	-0.33	0.26	-1.29	0.38	
850_101 - 29_22 = 0	-0.56	0.27	-2.11	0.11	
850_104 - 29_22 = 0	-1.19	0.29	-4.05	0.00	**
850_120 - 29_22 = 0	-0.74	0.25	-2.89	0.03	*
870_605 - 29_22 = 0	-1.10	0.28	-3.90	0.00	**
875_051 - 29_22 = 0	-0.46	0.25	-1.87	0.17	
875_220 - 29_22 = 0	-0.41	0.26	-1.59	0.26	
875_223 - 29_22 = 0	-1.33	0.29	-4.54	0.00	***
875_242 - 29_22 = 0	-0.51	0.25	-2.04	0.12	
875_250 - 29_22 = 0	-0.81	0.26	-3.15	0.02	*
875_262 - 29_22 = 0	-1.37	0.31	-4.48	0.00	***
875_293 - 29_22 = 0	-1.28	0.29	-4.48	0.00	***
880_655 - 29_22 = 0	-0.42	0.26	-1.60	0.25	
883_010 - 29_22 = 0	-0.76	0.27	-2.79	0.03	*
883_522 - 29_22 = 0	-0.59	0.27	-2.21	0.09	.
885_001 - 29_22 = 0	-1.23	0.30	-4.15	0.00	***
885_009 - 29_22 = 0	-1.45	0.29	-4.97	0.00	***
885_017 - 29_22 = 0	-0.93	0.28	-3.32	0.01	*
885_079 - 29_22 = 0	-0.43	0.26	-1.65	0.23	
885_099 - 29_22 = 0	-0.50	0.26	-1.90	0.16	
885_196 - 29_22 = 0	-0.65	0.27	-2.42	0.07	.
885_198 - 29_22 = 0	-0.25	0.25	-0.99	0.54	
885_382 - 29_22 = 0	-0.63	0.27	-2.38	0.07	.
885_384 - 29_22 = 0	-0.55	0.25	-2.18	0.10	.
885_458 - 29_22 = 0	-0.74	0.26	-2.87	0.03	*
886_915 - 29_22 = 0	-1.29	0.30	-4.28	0.00	***
886_933 - 29_22 = 0	-0.65	0.26	-2.53	0.05	.
887_841 - 29_22 = 0	-0.65	0.22	-2.99	0.02	*
44_07 - 41_23 = 0	0.11	0.27	0.39	0.84	
61_07 - 41_23 = 0	-0.19	0.28	-0.68	0.71	
61_08 - 41_23 = 0	0.12	0.28	0.43	0.83	
850_091 - 41_23 = 0	0.26	0.28	0.94	0.56	
850_101 - 41_23 = 0	0.04	0.29	0.13	0.95	
850_104 - 41_23 = 0	-0.59	0.31	-1.90	0.16	
850_120 - 41_23 = 0	-0.14	0.28	-0.51	0.79	
870_605 - 41_23 = 0	-0.50	0.30	-1.68	0.22	
875_051 - 41_23 = 0	0.13	0.27	0.50	0.79	
875_220 - 41_23 = 0	0.19	0.28	0.66	0.71	

875_223 - 41_23 = 0	-0.73	0.31	-2.37	0.07	.
875_242 - 41_23 = 0	0.08	0.27	0.31	0.87	
875_250 - 41_23 = 0	-0.22	0.28	-0.77	0.65	
875_262 - 41_23 = 0	-0.77	0.32	-2.39	0.07	.
875_293 - 41_23 = 0	-0.69	0.30	-2.26	0.09	.
880_655 - 41_23 = 0	0.18	0.28	0.63	0.73	
883_010 - 41_23 = 0	-0.17	0.29	-0.57	0.75	
883_522 - 41_23 = 0	0.00	0.29	0.02	0.99	
885_001 - 41_23 = 0	-0.63	0.31	-2.02	0.13	
885_009 - 41_23 = 0	-0.85	0.31	-2.75	0.04	*
885_017 - 41_23 = 0	-0.34	0.30	-1.13	0.46	
885_079 - 41_23 = 0	0.17	0.28	0.60	0.74	
885_099 - 41_23 = 0	0.10	0.28	0.34	0.86	
885_196 - 41_23 = 0	-0.06	0.29	-0.20	0.92	
885_198 - 41_23 = 0	0.35	0.27	1.26	0.40	
885_382 - 41_23 = 0	-0.04	0.29	-0.13	0.95	
885_384 - 41_23 = 0	0.05	0.27	0.18	0.93	
885_458 - 41_23 = 0	-0.14	0.28	-0.52	0.78	
886_915 - 41_23 = 0	-0.69	0.32	-2.17	0.10	
886_933 - 41_23 = 0	-0.05	0.27	-0.20	0.92	
887_841 - 41_23 = 0	-0.05	0.24	-0.21	0.91	
61_07 - 44_07 = 0	-0.29	0.28	-1.07	0.49	
61_08 - 44_07 = 0	0.01	0.27	0.04	0.99	
850_091 - 44_07 = 0	0.16	0.28	0.56	0.76	
850_101 - 44_07 = 0	-0.07	0.28	-0.25	0.90	
850_104 - 44_07 = 0	-0.70	0.31	-2.25	0.09	.
850_120 - 44_07 = 0	-0.25	0.27	-0.90	0.58	
870_605 - 44_07 = 0	-0.61	0.30	-2.04	0.12	
875_051 - 44_07 = 0	0.03	0.27	0.10	0.96	
875_220 - 44_07 = 0	0.08	0.28	0.29	0.88	
875_223 - 44_07 = 0	-0.84	0.31	-2.71	0.04	*
875_242 - 44_07 = 0	-0.02	0.27	-0.09	0.97	
875_250 - 44_07 = 0	-0.33	0.28	-1.16	0.45	
875_262 - 44_07 = 0	-0.88	0.32	-2.73	0.04	*
875_293 - 44_07 = 0	-0.79	0.30	-2.62	0.05	*
880_655 - 44_07 = 0	0.07	0.28	0.26	0.89	
883_010 - 44_07 = 0	-0.27	0.29	-0.94	0.56	
883_522 - 44_07 = 0	-0.10	0.29	-0.36	0.85	
885_001 - 44_07 = 0	-0.74	0.31	-2.37	0.07	.
885_009 - 44_07 = 0	-0.96	0.31	-3.10	0.02	*
885_017 - 44_07 = 0	-0.44	0.30	-1.49	0.29	
885_079 - 44_07 = 0	0.06	0.28	0.22	0.91	
885_099 - 44_07 = 0	-0.01	0.28	-0.04	0.99	
885_196 - 44_07 = 0	-0.16	0.29	-0.57	0.75	
885_198 - 44_07 = 0	0.24	0.27	0.88	0.59	
885_382 - 44_07 = 0	-0.14	0.28	-0.50	0.79	
885_384 - 44_07 = 0	-0.06	0.27	-0.22	0.91	
885_458 - 44_07 = 0	-0.25	0.27	-0.91	0.57	
886_915 - 44_07 = 0	-0.80	0.32	-2.52	0.05	.
886_933 - 44_07 = 0	-0.16	0.27	-0.59	0.74	

887_841 - 44_07 = 0	-0.16	0.24	-0.66	0.71	
61_08 - 61_07 = 0	0.31	0.28	1.08	0.48	
850_091 - 61_07 = 0	0.45	0.29	1.58	0.26	
850_101 - 61_07 = 0	0.22	0.29	0.77	0.65	
850_104 - 61_07 = 0	-0.40	0.32	-1.27	0.39	
850_120 - 61_07 = 0	0.05	0.28	0.17	0.93	
870_605 - 61_07 = 0	-0.31	0.31	-1.02	0.51	
875_051 - 61_07 = 0	0.32	0.27	1.18	0.44	
875_220 - 61_07 = 0	0.37	0.29	1.31	0.37	
875_223 - 61_07 = 0	-0.55	0.32	-1.73	0.20	
875_242 - 61_07 = 0	0.27	0.28	0.98	0.54	
875_250 - 61_07 = 0	-0.03	0.29	-0.11	0.95	
875_262 - 61_07 = 0	-0.58	0.33	-1.78	0.19	
875_293 - 61_07 = 0	-0.50	0.31	-1.61	0.25	
880_655 - 61_07 = 0	0.37	0.29	1.27	0.39	
883_010 - 61_07 = 0	0.02	0.30	0.07	0.97	
883_522 - 61_07 = 0	0.19	0.29	0.66	0.71	
885_001 - 61_07 = 0	-0.45	0.32	-1.39	0.33	
885_009 - 61_07 = 0	-0.67	0.32	-2.11	0.11	
885_017 - 61_07 = 0	-0.15	0.31	-0.49	0.79	
885_079 - 61_07 = 0	0.36	0.29	1.24	0.40	
885_099 - 61_07 = 0	0.28	0.29	0.98	0.54	
885_196 - 61_07 = 0	0.13	0.30	0.44	0.82	
885_198 - 61_07 = 0	0.53	0.28	1.90	0.16	
885_382 - 61_07 = 0	0.15	0.29	0.52	0.78	
885_384 - 61_07 = 0	0.24	0.28	0.84	0.61	
885_458 - 61_07 = 0	0.04	0.29	0.16	0.93	
886_915 - 61_07 = 0	-0.50	0.32	-1.56	0.27	
886_933 - 61_07 = 0	0.13	0.28	0.47	0.80	
887_841 - 61_07 = 0	0.14	0.25	0.55	0.76	
850_091 - 61_08 = 0	0.14	0.28	0.51	0.78	
850_101 - 61_08 = 0	-0.08	0.29	-0.28	0.88	
850_104 - 61_08 = 0	-0.71	0.31	-2.27	0.09	.
850_120 - 61_08 = 0	-0.26	0.28	-0.93	0.56	
870_605 - 61_08 = 0	-0.62	0.30	-2.07	0.12	
875_051 - 61_08 = 0	0.02	0.27	0.06	0.98	
875_220 - 61_08 = 0	0.07	0.28	0.24	0.90	
875_223 - 61_08 = 0	-0.85	0.31	-2.75	0.04	*
875_242 - 61_08 = 0	-0.03	0.27	-0.13	0.95	
875_250 - 61_08 = 0	-0.34	0.28	-1.20	0.43	
875_262 - 61_08 = 0	-0.89	0.32	-2.75	0.04	*
875_293 - 61_08 = 0	-0.81	0.31	-2.64	0.05	*
880_655 - 61_08 = 0	0.06	0.28	0.21	0.91	
883_010 - 61_08 = 0	-0.29	0.29	-0.97	0.54	
883_522 - 61_08 = 0	-0.11	0.29	-0.39	0.84	
885_001 - 61_08 = 0	-0.75	0.32	-2.38	0.07	.
885_009 - 61_08 = 0	-0.97	0.31	-3.12	0.02	*
885_017 - 61_08 = 0	-0.46	0.30	-1.51	0.28	
885_079 - 61_08 = 0	0.05	0.28	0.18	0.93	
885_099 - 61_08 = 0	-0.02	0.28	-0.08	0.97	

885_196 - 61_08 = 0	-0.18	0.29	-0.60	0.74	
885_198 - 61_08 = 0	0.23	0.28	0.83	0.62	
885_382 - 61_08 = 0	-0.15	0.29	-0.54	0.77	
885_384 - 61_08 = 0	-0.07	0.27	-0.26	0.89	
885_458 - 61_08 = 0	-0.26	0.28	-0.93	0.56	
886_915 - 61_08 = 0	-0.81	0.32	-2.54	0.05	.
886_933 - 61_08 = 0	-0.17	0.28	-0.62	0.73	
887_841 - 61_08 = 0	-0.17	0.24	-0.70	0.70	
850_101 - 850_091 = 0	-0.22	0.27	-0.82	0.62	
850_104 - 850_091 = 0	-0.85	0.30	-2.85	0.03	*
850_120 - 850_091 = 0	-0.40	0.28	-1.42	0.32	
870_605 - 850_091 = 0	-0.76	0.30	-2.51	0.06	.
875_051 - 850_091 = 0	-0.13	0.27	-0.47	0.81	
875_220 - 850_091 = 0	-0.08	0.26	-0.29	0.88	
875_223 - 850_091 = 0	-1.00	0.32	-3.15	0.02	*
875_242 - 850_091 = 0	-0.18	0.28	-0.64	0.73	
875_250 - 850_091 = 0	-0.48	0.29	-1.67	0.23	
875_262 - 850_091 = 0	-1.03	0.31	-3.34	0.01	*
875_293 - 850_091 = 0	-0.95	0.31	-3.06	0.02	*
880_655 - 850_091 = 0	-0.08	0.27	-0.31	0.87	
883_010 - 850_091 = 0	-0.43	0.28	-1.53	0.28	
883_522 - 850_091 = 0	-0.26	0.28	-0.93	0.56	
885_001 - 850_091 = 0	-0.90	0.30	-2.95	0.03	*
885_009 - 850_091 = 0	-1.12	0.32	-3.53	0.01	**
885_017 - 850_091 = 0	-0.60	0.29	-2.10	0.11	
885_079 - 850_091 = 0	-0.09	0.27	-0.35	0.85	
885_099 - 850_091 = 0	-0.17	0.27	-0.61	0.74	
885_196 - 850_091 = 0	-0.32	0.28	-1.15	0.45	
885_198 - 850_091 = 0	0.08	0.26	0.32	0.87	
885_382 - 850_091 = 0	-0.30	0.27	-1.10	0.48	
885_384 - 850_091 = 0	-0.21	0.28	-0.77	0.65	
885_458 - 850_091 = 0	-0.41	0.29	-1.42	0.32	
886_915 - 850_091 = 0	-0.95	0.31	-3.11	0.02	*
886_933 - 850_091 = 0	-0.32	0.28	-1.12	0.47	
887_841 - 850_091 = 0	-0.31	0.24	-1.32	0.37	
850_104 - 850_101 = 0	-0.63	0.30	-2.06	0.12	
850_120 - 850_101 = 0	-0.18	0.29	-0.61	0.74	
870_605 - 850_101 = 0	-0.54	0.31	-1.74	0.20	
875_051 - 850_101 = 0	0.10	0.28	0.35	0.86	
875_220 - 850_101 = 0	0.15	0.27	0.55	0.76	
875_223 - 850_101 = 0	-0.77	0.32	-2.40	0.07	.
875_242 - 850_101 = 0	0.05	0.28	0.16	0.93	
875_250 - 850_101 = 0	-0.26	0.29	-0.87	0.60	
875_262 - 850_101 = 0	-0.81	0.32	-2.54	0.05	.
875_293 - 850_101 = 0	-0.73	0.32	-2.29	0.08	.
880_655 - 850_101 = 0	0.14	0.27	0.51	0.78	
883_010 - 850_101 = 0	-0.20	0.28	-0.72	0.68	
883_522 - 850_101 = 0	-0.03	0.28	-0.12	0.95	
885_001 - 850_101 = 0	-0.67	0.31	-2.19	0.10	.
885_009 - 850_101 = 0	-0.89	0.32	-2.77	0.04	*

885_017 - 850_101 = 0	-0.37	0.30	-1.26	0.39	
885_079 - 850_101 = 0	0.13	0.27	0.48	0.79	
885_099 - 850_101 = 0	0.06	0.28	0.21	0.91	
885_196 - 850_101 = 0	-0.09	0.28	-0.34	0.86	
885_198 - 850_101 = 0	0.31	0.27	1.15	0.45	
885_382 - 850_101 = 0	-0.07	0.28	-0.27	0.89	
885_384 - 850_101 = 0	0.01	0.28	0.04	0.99	
885_458 - 850_101 = 0	-0.18	0.29	-0.62	0.73	
886_915 - 850_101 = 0	-0.73	0.31	-2.35	0.07	.
886_933 - 850_101 = 0	-0.09	0.29	-0.32	0.87	
887_841 - 850_101 = 0	-0.09	0.24	-0.36	0.85	
850_120 - 850_104 = 0	0.45	0.32	1.43	0.32	
870_605 - 850_104 = 0	0.09	0.33	0.26	0.89	
875_051 - 850_104 = 0	0.72	0.31	2.36	0.07	.
875_220 - 850_104 = 0	0.78	0.30	2.59	0.05	*
875_223 - 850_104 = 0	-0.14	0.34	-0.42	0.83	
875_242 - 850_104 = 0	0.67	0.31	2.17	0.10	
875_250 - 850_104 = 0	0.37	0.32	1.16	0.44	
875_262 - 850_104 = 0	-0.18	0.34	-0.54	0.77	
875_293 - 850_104 = 0	-0.10	0.34	-0.29	0.88	
880_655 - 850_104 = 0	0.77	0.30	2.55	0.05	.
883_010 - 850_104 = 0	0.42	0.31	1.36	0.35	
883_522 - 850_104 = 0	0.59	0.31	1.95	0.14	
885_001 - 850_104 = 0	-0.04	0.33	-0.13	0.95	
885_009 - 850_104 = 0	-0.26	0.34	-0.76	0.65	
885_017 - 850_104 = 0	0.25	0.32	0.79	0.64	
885_079 - 850_104 = 0	0.76	0.30	2.51	0.06	.
885_099 - 850_104 = 0	0.69	0.30	2.26	0.09	.
885_196 - 850_104 = 0	0.53	0.31	1.73	0.20	
885_198 - 850_104 = 0	0.94	0.29	3.18	0.02	*
885_382 - 850_104 = 0	0.55	0.30	1.82	0.18	
885_384 - 850_104 = 0	0.64	0.31	2.05	0.12	
885_458 - 850_104 = 0	0.45	0.32	1.41	0.32	
886_915 - 850_104 = 0	-0.10	0.33	-0.30	0.87	
886_933 - 850_104 = 0	0.54	0.31	1.71	0.21	
887_841 - 850_104 = 0	0.54	0.27	1.97	0.14	
870_605 - 850_120 = 0	-0.36	0.30	-1.19	0.43	
875_051 - 850_120 = 0	0.27	0.27	1.01	0.52	
875_220 - 850_120 = 0	0.33	0.28	1.15	0.45	
875_223 - 850_120 = 0	-0.59	0.31	-1.88	0.16	
875_242 - 850_120 = 0	0.22	0.28	0.81	0.63	
875_250 - 850_120 = 0	-0.08	0.29	-0.27	0.88	
875_262 - 850_120 = 0	-0.63	0.33	-1.93	0.15	
875_293 - 850_120 = 0	-0.55	0.31	-1.77	0.19	
880_655 - 850_120 = 0	0.32	0.29	1.11	0.47	
883_010 - 850_120 = 0	-0.03	0.30	-0.09	0.97	
883_522 - 850_120 = 0	0.15	0.29	0.50	0.79	
885_001 - 850_120 = 0	-0.49	0.32	-1.55	0.27	
885_009 - 850_120 = 0	-0.71	0.32	-2.26	0.09	.
885_017 - 850_120 = 0	-0.20	0.30	-0.65	0.72	

885_079 - 850_120 = 0	0.31	0.28	1.09	0.48	
885_099 - 850_120 = 0	0.24	0.29	0.82	0.62	
885_196 - 850_120 = 0	0.08	0.29	0.28	0.88	
885_198 - 850_120 = 0	0.49	0.28	1.74	0.20	
885_382 - 850_120 = 0	0.10	0.29	0.36	0.85	
885_384 - 850_120 = 0	0.19	0.28	0.68	0.71	
885_458 - 850_120 = 0	0.00	0.28	-0.01	0.99	
886_915 - 850_120 = 0	-0.55	0.32	-1.71	0.21	
886_933 - 850_120 = 0	0.09	0.28	0.31	0.87	
887_841 - 850_120 = 0	0.09	0.25	0.37	0.85	
875_051 - 870_605 = 0	0.64	0.29	2.16	0.10	
875_220 - 870_605 = 0	0.69	0.30	2.26	0.09	.
875_223 - 870_605 = 0	-0.23	0.33	-0.69	0.70	
875_242 - 870_605 = 0	0.59	0.30	1.96	0.14	
875_250 - 870_605 = 0	0.28	0.31	0.92	0.57	
875_262 - 870_605 = 0	-0.27	0.35	-0.78	0.65	
875_293 - 870_605 = 0	-0.19	0.33	-0.57	0.76	
880_655 - 870_605 = 0	0.68	0.31	2.21	0.09	.
883_010 - 870_605 = 0	0.33	0.32	1.05	0.49	
883_522 - 870_605 = 0	0.51	0.31	1.62	0.24	
885_001 - 870_605 = 0	-0.13	0.34	-0.39	0.84	
885_009 - 870_605 = 0	-0.35	0.33	-1.06	0.49	
885_017 - 870_605 = 0	0.16	0.32	0.51	0.79	
885_079 - 870_605 = 0	0.67	0.31	2.19	0.10	.
885_099 - 870_605 = 0	0.60	0.31	1.94	0.15	
885_196 - 870_605 = 0	0.44	0.31	1.42	0.32	
885_198 - 870_605 = 0	0.85	0.30	2.82	0.03	*
885_382 - 870_605 = 0	0.47	0.31	1.49	0.29	
885_384 - 870_605 = 0	0.55	0.30	1.85	0.17	
885_458 - 870_605 = 0	0.36	0.30	1.18	0.44	
886_915 - 870_605 = 0	-0.19	0.34	-0.56	0.76	
886_933 - 870_605 = 0	0.45	0.30	1.48	0.30	
887_841 - 870_605 = 0	0.45	0.27	1.66	0.23	
875_220 - 875_051 = 0	0.05	0.27	0.19	0.92	
875_223 - 875_051 = 0	-0.87	0.31	-2.84	0.03	*
875_242 - 875_051 = 0	-0.05	0.27	-0.19	0.92	
875_250 - 875_051 = 0	-0.35	0.28	-1.27	0.39	
875_262 - 875_051 = 0	-0.91	0.32	-2.84	0.03	*
875_293 - 875_051 = 0	-0.82	0.30	-2.73	0.04	*
880_655 - 875_051 = 0	0.04	0.28	0.16	0.93	
883_010 - 875_051 = 0	-0.30	0.29	-1.04	0.50	
883_522 - 875_051 = 0	-0.13	0.28	-0.46	0.81	
885_001 - 875_051 = 0	-0.77	0.31	-2.47	0.06	.
885_009 - 875_051 = 0	-0.99	0.30	-3.25	0.01	*
885_017 - 875_051 = 0	-0.47	0.30	-1.59	0.25	
885_079 - 875_051 = 0	0.03	0.28	0.12	0.95	
885_099 - 875_051 = 0	-0.04	0.28	-0.14	0.95	
885_196 - 875_051 = 0	-0.19	0.29	-0.67	0.71	
885_198 - 875_051 = 0	0.21	0.27	0.78	0.65	
885_382 - 875_051 = 0	-0.17	0.28	-0.61	0.74	

885_384 - 875_051 = 0	-0.09	0.27	-0.32	0.87	
885_458 - 875_051 = 0	-0.28	0.27	-1.02	0.52	
886_915 - 875_051 = 0	-0.83	0.31	-2.63	0.05	*
886_933 - 875_051 = 0	-0.19	0.27	-0.70	0.70	
887_841 - 875_051 = 0	-0.18	0.24	-0.78	0.65	
875_223 - 875_220 = 0	-0.92	0.32	-2.91	0.03	*
875_242 - 875_220 = 0	-0.10	0.28	-0.37	0.85	
875_250 - 875_220 = 0	-0.40	0.29	-1.40	0.33	
875_262 - 875_220 = 0	-0.96	0.31	-3.07	0.02	*
875_293 - 875_220 = 0	-0.87	0.31	-2.81	0.03	*
880_655 - 875_220 = 0	-0.01	0.27	-0.03	0.99	
883_010 - 875_220 = 0	-0.35	0.28	-1.25	0.40	
883_522 - 875_220 = 0	-0.18	0.27	-0.67	0.71	
885_001 - 875_220 = 0	-0.82	0.30	-2.71	0.04	*
885_009 - 875_220 = 0	-1.04	0.32	-3.29	0.01	*
885_017 - 875_220 = 0	-0.52	0.29	-1.82	0.18	
885_079 - 875_220 = 0	-0.02	0.27	-0.06	0.98	
885_099 - 875_220 = 0	-0.09	0.27	-0.34	0.86	
885_196 - 875_220 = 0	-0.24	0.28	-0.88	0.59	
885_198 - 875_220 = 0	0.16	0.26	0.62	0.74	
885_382 - 875_220 = 0	-0.22	0.27	-0.82	0.62	
885_384 - 875_220 = 0	-0.14	0.28	-0.49	0.79	
885_458 - 875_220 = 0	-0.33	0.28	-1.16	0.45	
886_915 - 875_220 = 0	-0.88	0.31	-2.88	0.03	*
886_933 - 875_220 = 0	-0.24	0.28	-0.85	0.61	
887_841 - 875_220 = 0	-0.24	0.24	-1.00	0.53	
875_242 - 875_223 = 0	0.82	0.31	2.64	0.04	*
875_250 - 875_223 = 0	0.51	0.32	1.61	0.25	
875_262 - 875_223 = 0	-0.04	0.36	-0.11	0.95	
875_293 - 875_223 = 0	0.05	0.34	0.13	0.95	
880_655 - 875_223 = 0	0.91	0.32	2.86	0.03	*
883_010 - 875_223 = 0	0.57	0.33	1.72	0.21	
883_522 - 875_223 = 0	0.74	0.32	2.29	0.08	.
885_001 - 875_223 = 0	0.10	0.35	0.29	0.88	
885_009 - 875_223 = 0	-0.12	0.35	-0.35	0.86	
885_017 - 875_223 = 0	0.40	0.34	1.18	0.44	
885_079 - 875_223 = 0	0.90	0.32	2.85	0.03	*
885_099 - 875_223 = 0	0.83	0.32	2.59	0.05	*
885_196 - 875_223 = 0	0.68	0.33	2.08	0.12	
885_198 - 875_223 = 0	1.08	0.31	3.46	0.01	**
885_382 - 875_223 = 0	0.70	0.32	2.16	0.10	
885_384 - 875_223 = 0	0.78	0.31	2.51	0.06	.
885_458 - 875_223 = 0	0.59	0.32	1.85	0.17	
886_915 - 875_223 = 0	0.04	0.35	0.12	0.95	
886_933 - 875_223 = 0	0.68	0.31	2.18	0.10	.
887_841 - 875_223 = 0	0.68	0.28	2.41	0.07	.
875_250 - 875_242 = 0	-0.30	0.28	-1.08	0.48	
875_262 - 875_242 = 0	-0.86	0.32	-2.65	0.04	*
875_293 - 875_242 = 0	-0.77	0.31	-2.52	0.06	.
880_655 - 875_242 = 0	0.09	0.28	0.34	0.86	

883_010 - 875_242 = 0	-0.25	0.29	-0.86	0.61	
883_522 - 875_242 = 0	-0.08	0.29	-0.28	0.88	
885_001 - 875_242 = 0	-0.72	0.31	-2.28	0.08	.
885_009 - 875_242 = 0	-0.94	0.31	-3.03	0.02	*
885_017 - 875_242 = 0	-0.42	0.30	-1.40	0.33	
885_079 - 875_242 = 0	0.09	0.28	0.30	0.87	
885_099 - 875_242 = 0	0.01	0.28	0.05	0.98	
885_196 - 875_242 = 0	-0.14	0.29	-0.49	0.79	
885_198 - 875_242 = 0	0.26	0.27	0.96	0.55	
885_382 - 875_242 = 0	-0.12	0.29	-0.42	0.83	
885_384 - 875_242 = 0	-0.04	0.27	-0.13	0.95	
885_458 - 875_242 = 0	-0.23	0.28	-0.82	0.62	
886_915 - 875_242 = 0	-0.78	0.32	-2.44	0.06	.
886_933 - 875_242 = 0	-0.14	0.28	-0.50	0.79	
887_841 - 875_242 = 0	-0.13	0.24	-0.55	0.76	
875_262 - 875_250 = 0	-0.55	0.33	-1.67	0.23	
875_293 - 875_250 = 0	-0.47	0.31	-1.50	0.29	
880_655 - 875_250 = 0	0.40	0.29	1.36	0.35	
883_010 - 875_250 = 0	0.05	0.30	0.17	0.93	
883_522 - 875_250 = 0	0.22	0.30	0.76	0.66	
885_001 - 875_250 = 0	-0.42	0.32	-1.29	0.38	
885_009 - 875_250 = 0	-0.64	0.32	-2.00	0.13	
885_017 - 875_250 = 0	-0.12	0.31	-0.39	0.84	
885_079 - 875_250 = 0	0.39	0.29	1.34	0.36	
885_099 - 875_250 = 0	0.31	0.29	1.08	0.48	
885_196 - 875_250 = 0	0.16	0.30	0.54	0.77	
885_198 - 875_250 = 0	0.56	0.28	1.99	0.14	
885_382 - 875_250 = 0	0.18	0.29	0.62	0.74	
885_384 - 875_250 = 0	0.27	0.28	0.95	0.55	
885_458 - 875_250 = 0	0.08	0.29	0.26	0.89	
886_915 - 875_250 = 0	-0.47	0.33	-1.45	0.31	
886_933 - 875_250 = 0	0.16	0.29	0.57	0.75	
887_841 - 875_250 = 0	0.17	0.25	0.67	0.71	
875_293 - 875_262 = 0	0.08	0.35	0.24	0.90	
880_655 - 875_262 = 0	0.95	0.31	3.05	0.02	*
883_010 - 875_262 = 0	0.60	0.32	1.87	0.17	
883_522 - 875_262 = 0	0.78	0.32	2.45	0.06	.
885_001 - 875_262 = 0	0.14	0.34	0.40	0.84	
885_009 - 875_262 = 0	-0.08	0.36	-0.23	0.91	
885_017 - 875_262 = 0	0.43	0.33	1.32	0.37	
885_079 - 875_262 = 0	0.94	0.31	3.01	0.02	*
885_099 - 875_262 = 0	0.87	0.31	2.76	0.04	*
885_196 - 875_262 = 0	0.71	0.32	2.22	0.09	.
885_198 - 875_262 = 0	1.12	0.31	3.64	0.01	**
885_382 - 875_262 = 0	0.74	0.32	2.30	0.08	.
885_384 - 875_262 = 0	0.82	0.32	2.54	0.05	.
885_458 - 875_262 = 0	0.63	0.33	1.91	0.15	
886_915 - 875_262 = 0	0.08	0.35	0.23	0.91	
886_933 - 875_262 = 0	0.72	0.33	2.20	0.10	.
887_841 - 875_262 = 0	0.72	0.29	2.50	0.06	.

880_655 - 875_293 = 0	0.87	0.31	2.77	0.04	*
883_010 - 875_293 = 0	0.52	0.32	1.61	0.25	
883_522 - 875_293 = 0	0.69	0.32	2.18	0.10	.
885_001 - 875_293 = 0	0.05	0.34	0.16	0.93	
885_009 - 875_293 = 0	-0.17	0.34	-0.49	0.79	
885_017 - 875_293 = 0	0.35	0.33	1.06	0.49	
885_079 - 875_293 = 0	0.86	0.31	2.75	0.04	*
885_099 - 875_293 = 0	0.78	0.31	2.49	0.06	.
885_196 - 875_293 = 0	0.63	0.32	1.97	0.14	
885_198 - 875_293 = 0	1.03	0.31	3.37	0.01	*
885_382 - 875_293 = 0	0.65	0.32	2.06	0.12	
885_384 - 875_293 = 0	0.74	0.30	2.42	0.07	.
885_458 - 875_293 = 0	0.54	0.31	1.75	0.20	
886_915 - 875_293 = 0	0.00	0.35	-0.01	0.99	
886_933 - 875_293 = 0	0.63	0.31	2.07	0.12	
887_841 - 875_293 = 0	0.64	0.28	2.31	0.08	.
883_010 - 880_655 = 0	-0.35	0.28	-1.22	0.41	
883_522 - 880_655 = 0	-0.17	0.27	-0.63	0.73	
885_001 - 880_655 = 0	-0.81	0.31	-2.65	0.04	*
885_009 - 880_655 = 0	-1.03	0.32	-3.24	0.01	*
885_017 - 880_655 = 0	-0.52	0.29	-1.77	0.19	
885_079 - 880_655 = 0	-0.01	0.27	-0.04	0.99	
885_099 - 880_655 = 0	-0.08	0.27	-0.30	0.87	
885_196 - 880_655 = 0	-0.24	0.28	-0.84	0.61	
885_198 - 880_655 = 0	0.17	0.26	0.64	0.73	
885_382 - 880_655 = 0	-0.21	0.28	-0.77	0.65	
885_384 - 880_655 = 0	-0.13	0.28	-0.46	0.81	
885_458 - 880_655 = 0	-0.32	0.29	-1.12	0.47	
886_915 - 880_655 = 0	-0.87	0.31	-2.83	0.03	*
886_933 - 880_655 = 0	-0.23	0.29	-0.82	0.62	
887_841 - 880_655 = 0	-0.23	0.24	-0.95	0.55	
883_522 - 883_010 = 0	0.17	0.29	0.59	0.74	
885_001 - 883_010 = 0	-0.47	0.31	-1.49	0.29	
885_009 - 883_010 = 0	-0.69	0.33	-2.09	0.11	
885_017 - 883_010 = 0	-0.17	0.30	-0.57	0.76	
885_079 - 883_010 = 0	0.34	0.28	1.20	0.43	
885_099 - 883_010 = 0	0.26	0.28	0.93	0.56	
885_196 - 883_010 = 0	0.11	0.29	0.38	0.84	
885_198 - 883_010 = 0	0.51	0.27	1.87	0.17	
885_382 - 883_010 = 0	0.13	0.29	0.46	0.81	
885_384 - 883_010 = 0	0.22	0.29	0.74	0.67	
885_458 - 883_010 = 0	0.02	0.30	0.08	0.97	
886_915 - 883_010 = 0	-0.52	0.32	-1.65	0.23	
886_933 - 883_010 = 0	0.11	0.30	0.38	0.84	
887_841 - 883_010 = 0	0.12	0.25	0.46	0.81	
885_001 - 883_522 = 0	-0.64	0.31	-2.06	0.12	
885_009 - 883_522 = 0	-0.86	0.32	-2.66	0.04	*
885_017 - 883_522 = 0	-0.34	0.30	-1.16	0.45	
885_079 - 883_522 = 0	0.16	0.28	0.60	0.74	
885_099 - 883_522 = 0	0.09	0.28	0.33	0.86	

885_196 - 883_522 = 0	-0.06	0.28	-0.22	0.91	
885_198 - 883_522 = 0	0.34	0.27	1.28	0.39	
885_382 - 883_522 = 0	-0.04	0.28	-0.15	0.94	
885_384 - 883_522 = 0	0.04	0.29	0.15	0.94	
885_458 - 883_522 = 0	-0.15	0.29	-0.51	0.79	
886_915 - 883_522 = 0	-0.70	0.31	-2.23	0.09	.
886_933 - 883_522 = 0	-0.06	0.29	-0.20	0.92	
887_841 - 883_522 = 0	-0.06	0.25	-0.22	0.91	
885_009 - 885_001 = 0	-0.22	0.35	-0.63	0.73	
885_017 - 885_001 = 0	0.30	0.32	0.92	0.57	
885_079 - 885_001 = 0	0.80	0.30	2.63	0.05	*
885_099 - 885_001 = 0	0.73	0.31	2.38	0.07	.
885_196 - 885_001 = 0	0.58	0.31	1.84	0.17	
885_198 - 885_001 = 0	0.98	0.30	3.32	0.01	*
885_382 - 885_001 = 0	0.60	0.31	1.94	0.15	
885_384 - 885_001 = 0	0.68	0.31	2.17	0.10	
885_458 - 885_001 = 0	0.49	0.32	1.53	0.28	
886_915 - 885_001 = 0	-0.06	0.34	-0.17	0.93	
886_933 - 885_001 = 0	0.58	0.32	1.82	0.18	
887_841 - 885_001 = 0	0.58	0.28	2.10	0.11	
885_017 - 885_009 = 0	0.52	0.34	1.54	0.27	
885_079 - 885_009 = 0	1.02	0.32	3.22	0.02	*
885_099 - 885_009 = 0	0.95	0.32	2.97	0.02	*
885_196 - 885_009 = 0	0.80	0.33	2.45	0.06	.
885_198 - 885_009 = 0	1.20	0.31	3.84	0.00	**
885_382 - 885_009 = 0	0.82	0.32	2.53	0.05	.
885_384 - 885_009 = 0	0.90	0.31	2.93	0.03	*
885_458 - 885_009 = 0	0.71	0.31	2.26	0.09	.
886_915 - 885_009 = 0	0.16	0.35	0.46	0.81	
886_933 - 885_009 = 0	0.80	0.32	2.53	0.05	.
887_841 - 885_009 = 0	0.80	0.28	2.82	0.03	*
885_079 - 885_017 = 0	0.51	0.29	1.75	0.20	
885_099 - 885_017 = 0	0.43	0.29	1.49	0.29	
885_196 - 885_017 = 0	0.28	0.30	0.94	0.56	
885_198 - 885_017 = 0	0.68	0.28	2.42	0.07	.
885_382 - 885_017 = 0	0.30	0.29	1.03	0.51	
885_384 - 885_017 = 0	0.39	0.30	1.29	0.38	
885_458 - 885_017 = 0	0.19	0.31	0.64	0.73	
886_915 - 885_017 = 0	-0.35	0.33	-1.09	0.48	
886_933 - 885_017 = 0	0.28	0.30	0.93	0.56	
887_841 - 885_017 = 0	0.29	0.26	1.09	0.48	
885_099 - 885_079 = 0	-0.07	0.27	-0.27	0.89	
885_196 - 885_079 = 0	-0.23	0.27	-0.82	0.62	
885_198 - 885_079 = 0	0.18	0.26	0.67	0.71	
885_382 - 885_079 = 0	-0.21	0.27	-0.75	0.66	
885_384 - 885_079 = 0	-0.12	0.28	-0.43	0.82	
885_458 - 885_079 = 0	-0.31	0.29	-1.09	0.48	
886_915 - 885_079 = 0	-0.86	0.31	-2.78	0.03	*
886_933 - 885_079 = 0	-0.22	0.28	-0.79	0.64	
887_841 - 885_079 = 0	-0.22	0.24	-0.92	0.57	

885_196 - 885_099 = 0	-0.15	0.28	-0.55	0.76	
885_198 - 885_099 = 0	0.25	0.26	0.95	0.55	
885_382 - 885_099 = 0	-0.13	0.28	-0.48	0.79	
885_384 - 885_099 = 0	-0.05	0.28	-0.17	0.93	
885_458 - 885_099 = 0	-0.24	0.29	-0.83	0.62	
886_915 - 885_099 = 0	-0.79	0.31	-2.56	0.05	.
886_933 - 885_099 = 0	-0.15	0.29	-0.53	0.78	
887_841 - 885_099 = 0	-0.15	0.24	-0.60	0.74	
885_198 - 885_196 = 0	0.40	0.27	1.48	0.30	
885_382 - 885_196 = 0	0.02	0.28	0.07	0.97	
885_384 - 885_196 = 0	0.11	0.29	0.37	0.85	
885_458 - 885_196 = 0	-0.09	0.30	-0.29	0.88	
886_915 - 885_196 = 0	-0.63	0.32	-2.01	0.13	
886_933 - 885_196 = 0	0.00	0.29	0.01	0.99	
887_841 - 885_196 = 0	0.01	0.25	0.03	0.99	
885_382 - 885_198 = 0	-0.38	0.27	-1.43	0.32	
885_384 - 885_198 = 0	-0.30	0.27	-1.08	0.48	
885_458 - 885_198 = 0	-0.49	0.28	-1.74	0.20	
886_915 - 885_198 = 0	-1.04	0.30	-3.44	0.01	**
886_933 - 885_198 = 0	-0.40	0.28	-1.44	0.32	
887_841 - 885_198 = 0	-0.40	0.23	-1.71	0.21	
885_384 - 885_382 = 0	0.09	0.29	0.30	0.88	
885_458 - 885_382 = 0	-0.11	0.29	-0.37	0.85	
886_915 - 885_382 = 0	-0.66	0.31	-2.09	0.11	
886_933 - 885_382 = 0	-0.02	0.29	-0.06	0.98	
887_841 - 885_382 = 0	-0.01	0.25	-0.06	0.98	
885_458 - 885_384 = 0	-0.19	0.28	-0.69	0.70	
886_915 - 885_384 = 0	-0.74	0.32	-2.33	0.08	.
886_933 - 885_384 = 0	-0.10	0.28	-0.37	0.85	
887_841 - 885_384 = 0	-0.10	0.24	-0.41	0.83	
886_915 - 885_458 = 0	-0.55	0.32	-1.69	0.22	
886_933 - 885_458 = 0	0.09	0.28	0.31	0.87	
887_841 - 885_458 = 0	0.09	0.25	0.37	0.85	
886_933 - 886_915 = 0	0.64	0.32	1.98	0.14	
887_841 - 886_915 = 0	0.64	0.28	2.26	0.09	.
887_841 - 886_933 = 0	0.00	0.25	0.02	0.99	