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Interleukin-23 levels in umbilical cord blood are associated with
neurodevelopmental trajectories in infancy

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5 trajectories in infancy

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Abstract

Our previous study, which aimed to understand the early neurodevelopmental trajectories of children with and without neurodevelopmental disorders, identified five classes of early neurodevelopmental trajectories, categorized as high normal, normal, low normal, delayed, and markedly delayed. This investigation involved measurement using the Mullen Scale of Early Learning in a representative sample of Japanese infants followed up from the age of 0 to 2 years (Nishimura et al., 2016). In the present study, we investigated the potential association between cytokine concentrations in umbilical cord serum with any of the five classes of neurodevelopmental trajectories previously assigned, as follows: high normal (N = 85, 13.0%), normal (N = 322, 49.1%), low normal (N = 137, 20.9%), delayed (N = 87, 13.3%), and markedly delayed (N = 25, 3.8%) in infancy. Decreased interleukin (IL)-23 levels in the cord blood were associated with the markedly delayed class, independent of potential confounders (odds ratio, 0.44; 95% confidence interval: 0.26-0.73). Furthermore, IL-23 levels decreased as the developmental trajectory became more delayed, demonstrating that IL-23 plays an important role in development, and is useful for predicting the developmental trajectory at birth.

Introduction

Neurodevelopmental disorders (NDDs) are defined as disorders with distinctive

features that occur during a child's developmental period. It is common for these disorders to start at an early stage of development, often before starting school. The types and extents of developmental disabilities range from challenges in learning specific skills or executive function control, to those that affect a child's social skills, language, motor function, and intelligence [1]. Often, two or more symptoms categorized as NDDs can be simultaneously observed in a single child. For example, children with autism spectrum disorder (ASD) often demonstrate intellectual disability or language disorders, and many with attention-deficit/hyperactivity disorder (ADHD) develop specific learning or tic disorders [1-4]. Findings from family and twin studies have shown that genetic contributions to psychiatric disorders do not align with diagnostic categories in all cases [5]. However, genome-wide association studies have shown that specific single nucleotide polymorphisms (SNPs) are associated with a variety of psychiatric disorders, including NDDs [6].

It is scientifically and clinically important to capture the representations of the biological bases of a group of conditions, also referred to as endophenotypes, that precede the emergence of each condition, in order to move beyond the descriptive categories of NDDs. Early neurodevelopmental trajectories, defined as longitudinal developmental patterns captured by behavioral features such as motor function and language, are

examples of endophenotypes, as they have been hypothesized to be the basis of autism phenotypes [7], while neurodevelopmental delay or immaturity is thought to be one of the essential pathophysiologies underlying NDDs [8]. In our prior study, we identified five classes of early neurodevelopmental trajectories, categorized as high normal (11%), normal (49%), low normal (22%), delayed (14%), and markedly delayed (4%), as measured using the Mullen Scale of Early Learning (MSEL) [9] in a sample of Japanese infants followed up from the age of 0 to 2 years [10]. We further showed that the membership of the markedly delayed class, characterized by an overall downward departure from the trajectory of the normal class throughout the two years of follow-up, was predicted by male sex, small for gestational age, low placenta-to-birth weight ratio, and low maternal education. The characteristics of the delayed class, namely, a gradual downward deviation from the normal trajectory that specifically began around the age of 12 months, are more likely to be acquired by a child if he is a male, was born preterm, and had a father who was older. Moreover, the probability of a diagnosis of ASD in the markedly delayed class was highest (32.6%) when compared with the other classes [11]. The downward drift in trajectories can be partly explained by the genetic risk of ASD [12], although the serological basis of class membership in neurodevelopmental trajectories remains to be elucidated.

Immunological factors may be involved in the pathophysiology of NDDs [13], including alterations in the prenatal immune environment, which can contribute to the risk of developing ASD [14-17] and other NDDs [18-20]. Similarly, one study in the general population showed a relationship between cytokine levels in the umbilical cord blood and intellectual development in children [21]. Immune activation within the maternal compartment is likely to influence fetal brain development. However, whether these proteins cross the placenta and exert direct actions on the fetal brain remains unknown [19].

Because cytokines play a dual role in the in utero immune response [22, 23] and brain function [24], they are thought to mediate the complex interplay between prenatal immune processes and critical processes of fetal neurodevelopment [25-31], thereby possibly influencing neurodevelopmental trajectories.

Based on this existing knowledge, we hypothesized that abnormalities in the umbilical cord blood concentrations of circulating inflammatory cytokines may be related to neurodevelopmental trajectories in infants. To test this, we investigated the associations between cytokine concentrations in the umbilical cord serum and distinct classes of five neurodevelopmental trajectories during the first two years of life that were already reported in an investigation of a representative birth cohort in Japan.

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75 **Methods and materials**

76 **Study design**

77 This study was conducted as part of an ongoing cohort study, the Hamamatsu Birth
78 Cohort Study for Mothers and Children (HBC Study), the details of which have been
79 described elsewhere [32, 33]. This study was conducted in accordance with the
80 Strengthening the Reporting of Observational Studies in Epidemiology guidelines.

81

82 **Ethical issues**

83 The study protocol was approved by the Hamamatsu University School of Medicine
84 and University Hospital Ethics Committee (Ref No. 18-166). Written informed consent
85 was obtained from each caregiver (the mother in most families) for their and their infant's
86 participation. The "Ethical Guidelines for Life Sciences and Medical Research Involving
87 Human Subjects" issued by the Ministry of Education, Culture, Sports, Science and
88 Technology in Japan requires that the written consent of a surrogate be given priority in
89 the participation of children and adolescents under 16 years old in any research. However,
90 efforts to explain and obtain consent were required even for children and adolescents
91 outside this age range (i.e. <16 years), where written consent was not required, and we

took action accordingly.

Participants

Participant recruitment began on November 19, 2007, and ended on March 31, 2012.

A consecutive series of 1065 mothers and 1152 infants born between December 24, 2007,

and June 30, 2011, were enrolled. All pregnant women in their first or second trimester

who underwent a check-up at Hamamatsu University Hospital or Kato Maternity Clinic

were eligible to participate in this study. In Japan, pregnant women can select their

maternity clinic from a variety of choices, ranging from private clinics to large general

hospitals. The demographic characteristics of the participants enrolled in the two

institutions were similar, with the exception of the mothers' age. Mothers who came to

the Kato Maternity Clinic first were younger than those who visited the Hamamatsu

University Hospital first ($t = -2.93$, $P = 0.03$). All mothers provided consent to participate

in this study, including those who chose the Kato Maternity Clinic for their first visit, but

eventually gave birth at Hamamatsu University Hospital. The postnatal assessments were

performed in the laboratory. We included all infants in the assessments, regardless of birth

weight, week of gestation, or Apgar score. Based on reports from the Department of

Health, Labor, and Welfare, Japan, we determined that the participating mothers in the

study were representative of the demographic characteristics of typical Japanese mothers in terms of age, socioeconomic status, and parity. Similarly, their infants represented a typical population of children with regard to birth weight and gestational age at birth. Therefore, it can be argued that the participating cohort represents the general Japanese population.

Neurodevelopmental trajectory classes

This study adapted our previous neurodevelopmental classification that utilized latent class growth analyses of MSEL measurement data from participants in an HBC study [10].

The MSEL is a composite scale comprising five subscales that assess gross motor function, visual reception, fine motor function, and receptive and expressive language [9]. Measurements were taken when the infants reached 1, 4, 6, 10, 14, 18, and 24 months of age. We excluded 183 participating mothers and 198 infants who missed five or more of the total seven follow-up evaluations after birth. We further excluded two mother–infant dyads as the infants were diagnosed with Down syndrome. Thus, 952 infants (82.6%) and 880 mothers (82.6%) were included in the analyses.

Latent class growth analysis was applied to distinguish between distinct subgroups

of individuals, termed latent classes, following distinct patterns of change over time. To investigate neurodevelopmental trajectories, we applied a parallel process latent class growth analysis which allowed simultaneous processing of five-domain data and contained combinations of continuous latent growth variables including the intercept, slope, the quadratic term for each of the five sub-domains of outcome and a latent categorical variable. To examine whether there was any association between missingness and neurodevelopmental growth patterns, we examined the interaction of group (excluded vs. included) $\times$ slope using a linear mixed model. There were no differences in the MSEL scores between the excluded infants and those included in the analysis.

Five classes of neurodevelopmental trajectories were identified: high normal (N = 110, 11.5%), normal (N = 468, 49.2%), low normal (N = 202, 21.2%), delayed (N = 134, 14.1%), and markedly delayed (N = 38, 4.0%). An overall delay in the early developmental stages was characterized by a markedly delayed class. Notably, such a delay first became salient in gross and fine motor domains and later in language domains, especially receptive language. The delayed class showed trajectories with the same convex curve and downward turn with ageing in all five domains. The low normal class showed a slight delay in the early developmental stages, but had caught up by 24 months. The markedly delayed class could be predicted by male sex, small for gestational age,

low placenta-to-birthweight ratio, and low maternal education. The delayed class could be predicted by male sex, preterm birth and advanced paternal age. The results remained identical when multiple imputation was applied.

Cytokine measurements

Blood samples were obtained from the clamped umbilical vein immediately after and before delivery of the placenta. The samples were collected using a Vacutainer blood collection system and centrifuged. Supernatants were stored in polypropylene tubes at -80 °C until testing. Serum concentrations of interleukin (IL)-1 α , IL-1b, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p70, IL-13, IL-15, IL-17, IL-23, interferon (IFN)- γ , tumor necrosis factor (TNF)- α , TNF- β , eotaxin, C-C motif chemokine ligand (CCL)-2, CCL-3, growth-regulated oncogene (GRO) α , I-309, interferon-inducible protein (IP)-10, regulated on activation, normal T cell expressed and secreted (RANTES), thymus and activation-regulated chemokine (TARC), angiopoietin (Ang)-2, fibroblast growth factor (FGF), hepatocyte growth factor (HGF), platelet-derived growth factor (PDGF), tissue inhibitor of metalloproteinase (TIMP)-1, TIMP2, and vascular endothelial growth factor (VEGF) were determined using a Q-Plex Human Customs Array multiplexed ELISA (Quansys Biosciences, UT.).

Among the 952 participants in the latent class analysis, 656 samples (high normal (N = 85, 13.0%), normal (N = 322, 49.1%), low normal (N = 137, 20.9%), delayed (N = 87, 13.3%), and markedly delayed (N = 25, 3.8%) were selected for the measurements based on minimal hemolysis on visual recognition.

Statistical analysis

Among the 31 cytokines measured, six (IL-4, IL-6, IL-15, IL-17, IFN- γ , and FGF) were excluded from the statistical analysis because fewer than 50% of the samples were successfully measured, leaving 25 cytokines for the statistical analysis.

Outliers, defined as values outside the limits of 3.09 standard deviations (cumulative probability value of 99.9%) [34], were excluded from the analysis. Cytokine concentrations were ln-transformed to normalize their distribution and treated as a standardized score (z-score). Missing values were handled using multiple imputations with chained equations (MICE), assuming that they were randomly missing. The missing values were imputed to create 20 complete datasets using Rubin's rules [35], and the results were integrated to obtain a summarized estimation. All of the variables investigated in the analysis were included in the imputation model.

Multinomial logistic regression was used to estimate the association between each

cytokine level and the five neurodevelopment classes, with the normal class as the base outcome (single-cytokine analyses). Given the exploratory nature of the analyses, the significance level was set at $P < 0.05$. Next, we conducted a multi-cytokine analysis, including cytokines showing a significant association in the single cytokine analyses. Referring to our previous study [10], we further adjusted for sex, birth weight, gestational age, paternal age, and history of maternal education as covariates using a multi-cytokine analysis. In addition, we adjusted for cesarean section, considering the difference in cord blood cytokine levels after vaginal delivery [36, 37]. Multi-cytokine analysis was performed for multiple comparisons of the included cytokines. All analyses were performed using STATA ver.14.0.

Results

Participants

The descriptive statistics of the study population are displayed in Table 1.

Table 1. Characteristics of participating infants and their parents

	N = 656
	Mean (SD)
Birthweight (g)	2981.5 (415.2)
Gestational age at birth (weeks)	39.1 (1.4)
Paternal age at birth (years)	33.3 (5.7)
Maternal age at birth (years)	31.6 (5.0)

Paternal education (years)	14.1 (2.6)
Maternal education (years)	13.9 (1.9)
	N (%)
Sex	
Male	341 (52.0)
Female	315 (48.0)
Cesarean section	
Vaginal	504 (76.8)
Elective	105 (16.0)
Emergency	47 (7.2)
Trajectory class	
High normal	85 (13.0)
Normal	322 (49.1)
Low normal	137 (20.9)
Delayed	87 (13.3)
Markedly delayed	25 (3.8)

Abbreviation: SD, standard deviation

The descriptive statistics of the 656 participants included in the analyses were not significantly different from those of the nonparticipants utilized in the latent class growth analyses.

Cytokine measurements

As shown in Table 2, IL-4, IL-6, IL-15, IL-17, IFN γ -, and FGF were detected in < 50% of the samples, and were therefore excluded from subsequent analyses.

207 **Table 2. Cytokine concentrations in cord blood**

Cytokine	N	%	Mean (pg/ml)	SD (pg/ml)	Minimum (pg/ml)	Maximum (pg/ml)
IL-1 α	465	70.9	4.12	1.48	1.33	8.05
IL-1 β	517	78.8	8.6	2.42	4.45	15.84
IL-2	564	86.0	6.01	1.18	2.9	9.62
IL-4	172	26.2	2.3	0.61	2.18	5.57
IL-5	561	85.5	2.33	0.44	1.16	3.78
IL-6	101	15.4	40.22	145.53	4.85	1240.67
IL-8	654	99.7	11.82	12.33	2.02	119.5
IL-10	368	56.1	6.77	5.68	3.64	42.95
IL-12p70	388	59.1	3.34	0.65	2.41	5.57
IL-13	476	72.6	2.83	0.86	1.5	5.48
IL-15	201	30.6	5.09	1.26	3.52	10.59
IL-17	23	3.5	3.25	0.24	3	3.83
IL-23	591	90.1	24.87	4.12	10.75	36.65
IFN- γ	146	22.3	11.96	5.66	8.01	65.33
TNF- α	650	99.1	11.19	3.82	1.17	23.09
TNF- β	369	56.3	5.08	1.25	3.15	9.14
Eotaxin	650	99.1	51.24	19.62	1.91	116.25
CCL-2	651	99.2	158.6	60.86	16.03	590.26
CCL-3	652	99.4	19.12	6.51	5.07	39.79
GRO- α	653	99.5	18.26	11.78	1.79	77.27
I-309	617	94.1	19.43	7.69	4.92	47.44
IP-10	617	94.1	33.81	17.82	2.84	127.44
RANTES	652	99.4	38578.93	15641.92	93.66	86686.23
TARC	647	98.6	581.05	287.98	14.53	1517.07
Ang-2	462	70.4	63.91	54.14	11.68	422.07
FGF	73	11.1	30.55	9.49	19.59	71.61
HGF	652	99.4	1268.79	399.94	32.49	2673.04
PDGF	653	99.5	829.64	374.82	2.64	2229.68
TIMP- 1	656	100.0	150899.8	49080.64	3153.47	281003.8
TIMP-2	656	100.0	67447.65	37586.9	1638.7	167090
VEGF	649	98.9	176.06	80.83	4.43	423.24

208 Abbreviations: Ang-2, angiopoietin-2; CCL, C-C motif chemokine ligand; FGF,

fibroblast growth factor; GRO- α , growth-regulated oncogene; HGF, hepatocyte growth factor; IFN, interferon; IL, interleukin; IP, interferon-inducible protein; PDGF, platelet-derived growth factor; RANTES, regulated on activation, normal T cell expressed and secreted; SD, standard deviation; TARC, thymus and activation-regulated chemokine; TIMP, tissue inhibitor of metalloproteinase; TNF, tumor necrosis factor; VEGF, vascular endothelial growth factor

Multinomial logistic regression

The results of the single- and multi-cytokine analyses are shown in Tables 3 and 4, respectively.

Table 3. Association of cord serum cytokine levels with the five neurodevelopmental trajectories, as assessed by single-cytokine analyses.

Cytokine	Trajectory classes				
	High normal	Normal	Low normal	Delayed	Markedly delayed
	(N = 85, 13.0%)	(N = 322, 49.1%)	(N = 137, 20.9%)	(N = 87, 13.3%)	(N = 25, 3.8%)
	OR (95%CI)	Base outcome	OR (95%CI)	OR (95%CI)	OR (95%CI)
IL-1 α	1.03(0.80-1.33)		0.89(0.71-1.13)	1.00(0.75-1.33)	0.61(0.33-1.12)
IL-1 β	0.92(0.70-1.20)		0.93(0.75-1.16)	0.91(0.69-1.19)	0.70(0.44-1.10)
IL-2	0.99(0.78-1.26)		0.97(0.78-1.19)	0.87(0.67-1.12)	0.62(0.38-1.01)
IL-5	0.98(0.76-1.26)		0.89(0.72-1.09)	1.03(0.81-1.32)	0.87(0.54-1.39)
IL-8	1.18(0.94-1.47)		1.13(0.92-1.40)	1.17(0.93-1.48)	1.06(0.78-1.44)
IL-10	1.20(0.95-1.53)		0.86(0.63-1.17)	0.94(0.66-1.36)	0.96(0.55-1.67)
IL-12p70	1.08(0.81-1.43)		0.869(0.67-1.12)	0.95(0.71-1.28)	0.86(0.48-1.53)

IL-13	0.97(0.75-1.27)	0.97(0.78-1.21)	0.80(0.59-1.08)	0.70(0.39-1.28)
IL-23	1.10(0.85-1.41)	0.94(0.77-1.15)	0.85(0.66-1.09)	0.50(0.32-0.78)**
TNF- α	0.93(0.73-1.27)	1.12(0.92-1.38)	0.89(0.70-1.14)	0.77(0.56-1.06)
TNF- β	0.95(0.72-1.35)	0.93(0.74-1.17)	0.95(0.70-1.29)	0.84(0.50-1.42)
Eotaxin	1.06(0.84-1.35)	1.01(0.83-1.40)	1.11(0.87-1.40)	1.17(0.73-1.87)
GRO- α	1.06(0.82-1.37)	1.14(0.93-1.39)	1.03(0.83-1.28)	1.14(0.77-1.68)
I-309	0.99(0.78-1.26)	1.03(0.84-1.39)	0.86(0.68-1.10)	0.80(0.52-1.21)
IP-10	1.06(0.84-1.35)	1.06(0.87-1.30)	0.90(0.71-1.15)	1.08(0.81-1.44)
CCL-2	1.07(0.81-1.41)	1.24(1.03-1.48)*	0.93(0.70-1.24)	0.85(0.52-1.39)
CCL-3	1.25(0.99-1.57)	1.06(0.86-1.30)	0.94(0.73-1.21)	1.07(0.67-1.69)
RANTES	0.90(0.70-1.17)	0.90(0.73-1.11)	1.11(0.87-1.41)	0.72(0.45-1.13)
TARC	1.41(1.12-1.77)**	1.12(0.91-1.38)	0.94(0.73-1.21)	1.01(0.64-1.60)
Ang-2	1.09(0.84-1.41)	1.01(0.82-1.25)	1.11(0.87-1.40)	1.28(0.90-1.85)
HGF	1.19(0.94-1.49)	0.83(0.67-1.02)	0.77(0.59-0.99)*	0.93(0.61-1.43)
PDGF	1.03(0.80-1.33)	1.08(0.89-1.31)	1.03(0.81-1.31)	1.09(0.73-1.62)
TIMP-1	1.01(0.81-1.36)	0.96(0.78-1.18)	0.98(0.78-1.24)	1.17(0.82-1.67)
TIMP-2	0.81(0.6-41.03)	1.05(0.85-1.29)	0.97(0.76-1.24)	0.73(0.48-1.10)
VEGF	1.20(0.95-1.53)	1.04(0.86-1.27)	0.88(0.69-1.13)	1.00(0.63-1.60)

Abbreviations: Ang, angiotensin II; CCL, C-C motif chemokine ligand; CI, confidence interval; FGF, fibroblast growth factor; GRO, growth-regulated oncogene; HGF, hepatocyte growth factor; IFN, interferon; IL, interleukin; IP, interferon-inducible protein; OR, odds ratio; PDGF, platelet-derived growth factor; RANTES, regulated on activation, normal T cell expressed and secreted; TARC, thymus and activation-regulated chemokine; TIMP, tissue inhibitor of metalloproteinase; TNF, tumor necrosis

*P<0.05; **P<0.01; ***P<0.001

In the single-cytokine analyses, IL-23, CCL-2, TARC, and HGF were found to be significantly associated with specific class membership in the neurodevelopmental

trajectories. In the multi-cytokine analysis (Table 4, Fig 1, and S1 Fig), IL-23 was found to be significantly associated with the markedly delayed class (odds ratio (OR):0.44, 95%confidence interval (CI):0.26-0.73), indicating that lower levels of IL-23 in the cord serum is associated with an increased likelihood of assignment to the markedly delayed class. Further, TARC was significantly associated with the class membership of the high normal class (OR:1.37, 95%CI:1.06-1.75) and low normal class (OR:1.28, 95%CI:1.01-1.61), while CCL-2 and HGF were not associated with class membership in the multi-cytokine analyses.

Table 4. Association of cord serum cytokine levels with the five neurodevelopmental trajectories, as assessed by multi-cytokine analyses.

Cytokine	Trajectory classes				
	High normal	Normal	Low normal	Delayed	Markedly delayed
	(N = 85, 13.0%)	(N = 322, 49.1%)	(N = 137, 20.9%)	(N = 87, 13.3%)	(N = 25, 3.8%)
	OR (95%CI)	Base outcome	OR (95%CI)	OR (95%CI)	OR (95%CI)
IL-23	1.10(0.84-1.43)		0.92(0.76-1.13)	0.86(0.66-1.12)	0.44(0.26-0.73)***
CCL-2	1.08(0.81-1.43)		1.09(0.91-1.31)	0.84(0.62-1.15)	0.78(0.51-1.21)
TARC	1.37(1.06-1.75)*		1.28(1.01-1.61)*	1.05(0.79-1.38)	1.04(0.64-1.70)
HGF	1.03(0.78-1.35)		0.88(0.70-1.12)	0.84(0.65-1.09)	0.98(0.62-1.54)

Abbreviations: CCL, C-C motif chemokine ligand; CI, confidence interval; HGF, hepatocyte growth factor; IL, interleukin; OR, odds ratio; TARC, thymus and activation-regulated chemokine.

*P<0.05; **P<0.01; ***P<0.001

Fig 1. Odds ratio and 95% confidence interval of the association between Interleukin - 23 and neurodevelopmental class.

The dots indicate Odds ratio, and the bars indicate 95% confidence interval.

Sensitivity analysis

To explore the robustness of our findings, we repeated the multi-cytokine analysis without using the imputed values. Overall, the results remain unchanged. IL-23 remained associated with the markedly delayed class (OR:0.35, 95%CI:0.35-0.45, $P < 0.001$). TARC remained associated with the high normal class (OR:1.42, 95%CI:1.34-1.51, $P < 0.001$) and low normal class (OR:1.23, 95%CI:1.16-1.30, $P < 0.001$).

Discussion

This study investigated whether cytokine profiles at birth could predict early neurodevelopmental trajectories. Overall, the results showed that decreased IL-23 levels in cord blood were associated with membership assignment to the markedly delayed class, even after adjusting for potential confounders. Furthermore, IL-23 levels decreased as the

developmental trajectory was delayed, indicating that IL-23 concentration play an important role in development and could be a useful marker to predict developmental trajectory at birth.

IL-23 is a pro-inflammatory cytokine produced by activated dendritic cells and macrophages in response to microbial pathogens. IL-23 is key in Th17 cell development and IL-17 expression [38, 39]. IL-17 is further implicated in the pathogenesis of several inflammatory disorders, including neurological diseases. Consequently, the IL-17 pathway is a key drug target in many autoimmune and chronic inflammatory disorders, and therapeutic monoclonal antibodies targeting the IL-23-IL-17 pathway have been found to be highly effective in some of these diseases [40].

Several past human studies have demonstrated decreased concentrations of IL-23 in plasma and lower production of IL-23 following immune activation (phytohemagglutinin activation) of peripheral blood mononuclear cells in children with ASD at age 2-5 years, and these studies also showed that IL-17 concentration in plasma and IL-17 production following immune activation of peripheral blood mononuclear cells were not different from typically developing children [41, 42]. Furthermore, IL-23 is reportedly associated with ASD [43]. More recently, a large genetic study conducted using PGC and iPSYCH showed that genetic variants linked to the expression of IL-23 were associated with autism

[44]. Although the precise mechanism underlying the association between IL-23 and neurodevelopment has not been clarified, in line with our findings, human studies have nevertheless indicated the possible protective roles of IL-23 in neurodevelopment (for review, see Hughes et al., 2023) [45].

The innate immune system comprises three components, involving sensor, effector, and regulatory functions. When sensors are activated in the innate immune system, downstream effectors and the regulatory function are initiated [46, 47]. Pattern recognition receptors are a type of innate sensors that include Toll-like receptors (TLRs), which have attracted significant attention from researchers in recent years [48]. Recently, TLR expression in the syncytiotrophoblast, which covers the placental villi and comes into direct contact with pathogens in the maternal blood, was shown to play a key role in placental host defense [49]. The pattern of changes in cytokine production throughout development from premature infants to adults after TLR stimulation has been thoroughly described in a previous review [48]. When cytokines are released by TLR stimulation, they can exert significant regulatory effects on innate and adaptive immune cells. For example, after TLR stimulation of whole blood, anti-inflammatory innate cytokines (IL-10) are produced in the largest amount in preterm infants, while the innate immune system of term infants predominantly produces Th17 cell-promoting cytokines, such as IL-6 and

IL-23 [50-52]. The vast majority of cord blood samples used in this study were extracted from term infants, and the statistical analyses were adjusted for gestational age. Therefore, low concentrations of IL-23 in the cord blood serum of the markedly delayed class may reflect the abnormal innate TLR stimulation mechanisms, consequently determining neurodevelopmental trajectories. Phytohemagglutinin is a human TLR agonist [53]. Therefore, the lower production of IL-23 following phytohemagglutinin activation in children with ASD [42] suggests the existence of an abnormal TLR stimulation mechanism.

Increased TARC levels in cord blood was associated with high and low-normal classes. TARC is a CC chemokine commonly associated with type 2 immune responses, and several studies have shown that TARC levels may increase in the serum, tissues, or both, under varying eosinophilic conditions [54]. The results concerning TARC were difficult to interpret, as the associations showed opposite directions compared with IL-23, and the levels of TARC did not affect the delayed classes.

A previous study reported that reduced IFN- γ and IL-12p70 levels in the umbilical cord serum were associated with low-performance IQ (<70), indicating a possible protective role of IFN- γ and IL-12p70 during neurological development [21]. However, IL-23 and TARC levels were not measured in this prior study, and our current study

excluded IFN- γ from the analyses because of the shortage of measured samples. Furthermore, according to the primary purpose of investigating small-for-gestational-age children, the study population consisted mainly of low-income children. A recent study showed a role for maternal immune activity in fetal neurodevelopment, which is partly exacerbated by socioeconomic disadvantages [55]. Therefore, the difference between the findings of our and previous studies [21] (i.e., the absence of an association between cord blood IL-12p70 levels and neurodevelopment) could be explained by differences in socioeconomic status.

Infection during pregnancy activates the maternal immune system to enhance the production of proinflammatory cytokines, such as IL-6, IL-17, and TNF- α . These cytokines can cross the placenta and enter the fetal circulation, causing abnormalities in brain development and behavior [56]. Because we did not measure IL-6 and IL-17 levels, a general discussion of the effects of maternal immune activation via these two cytokines are difficult. As for TNF- α , one study found that cord blood TNF- α levels were associated with a specific neurodevelopmental domain (prosocial behavior), but was not associated with other domains (hyperactivity / inattention) [57]. These results imply that not all domains of brain function were damaged by deviations in cord blood TNF- α levels, which partly explains the difference from our current results (i.e., absence of association

between cord blood TNF- α levels and neurodevelopment).

This study has several limitations which should be mentioned. Firstly, several cytokines, including IL-6, IL-17, and IFN- γ , were not analyzed, mainly due to technical difficulties in measurement. The lack of data on IL-23-related cytokines limits the interpretation of the association between IL-23 levels and neurodevelopment. Therefore, further studies that improve the measurement technique are needed to demonstrate the precise nature of the effects of IL-23 and related cytokines on neurodevelopment. Second, we could not measure the actual central nervous system concentrations of cytokines in the CNS. However, evidence suggests that cytokines pass through and exert activity beyond the blood-brain barrier in utero [29].

The primary strength of this study is that we examined the association between prenatal cytokinesis and neurodevelopment using detailed repeated assessments of infant developmental trajectories in a sample reflecting standard Japanese population characteristics. Consequently, we identified a critical role of IL-23 in neurodevelopment during infancy. Confounding is unlikely to explain the results reported in this study, as the final models controlled for all important confounders in this sample. Moreover, we can rule out observer and reporting bias, as the cytokine analysis was conducted with the investigators blinded to the neurodevelopmental outcome classes.

In conclusion, we found that low cord blood IL-23 levels predict delayed early neurodevelopment. Further epidemiological research closely integrating in utero molecular markers is required to advance our understanding of the complex mechanisms underlying early human neurological development. Nevertheless, the results of this study may help to identify predictive markers of potentially susceptible subgroups at birth and ultimately move beyond descriptive syndromes in NDDs, towards a nosology informed by biological bases.

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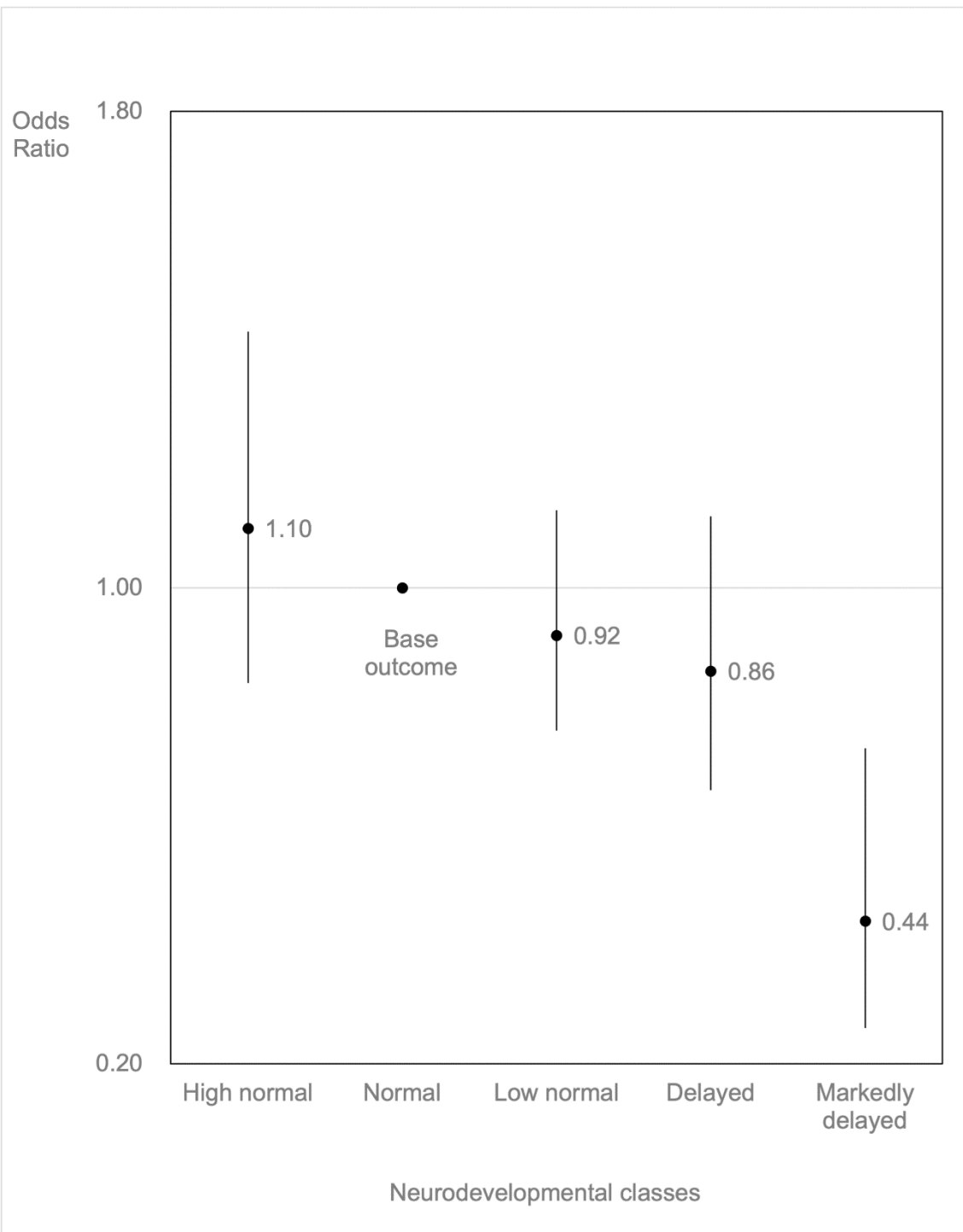
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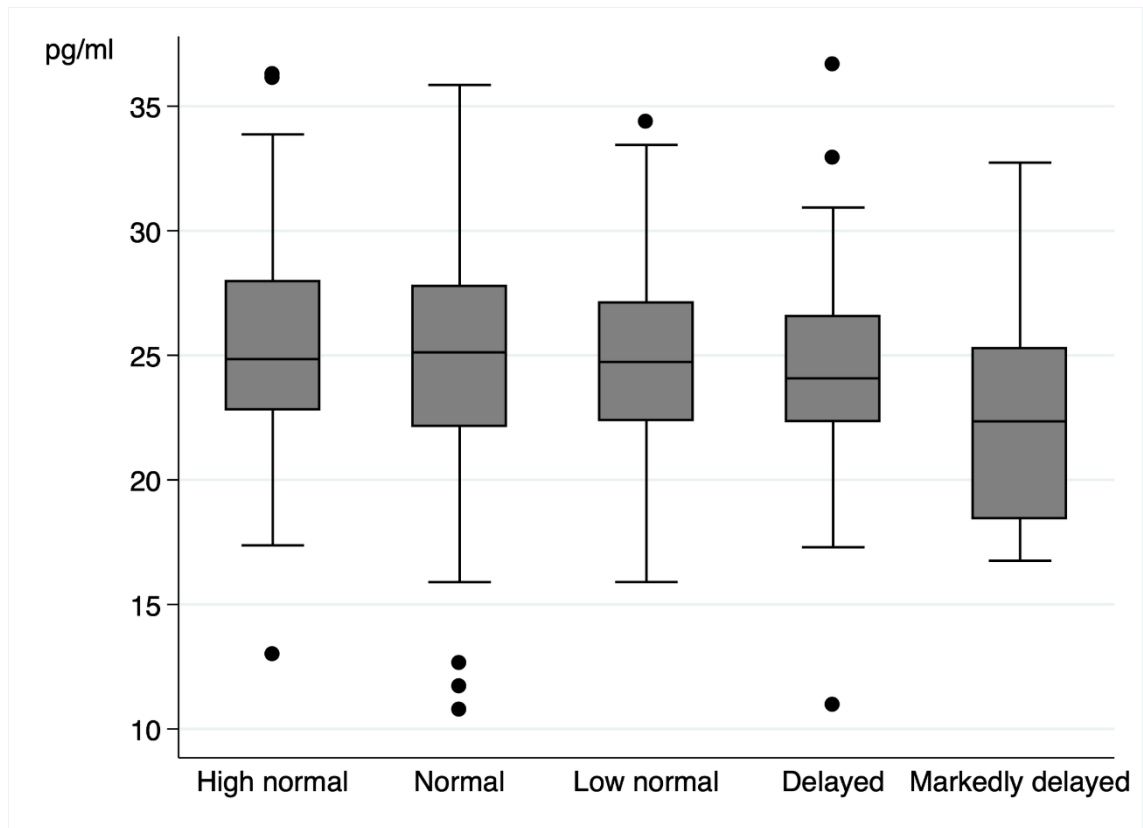
Supporting information

S1 Fig. Cord blood concentrations of Interleukin-23 in participants stratified by neurodevelopmental classification.

Interleukin-23 concentrations are shown as box-and-whisker plots; midlines indicate medians, boxes indicate interquartile values, whiskers indicate upper and lower adjacent values (the values in the data that are farthest away from the median on either side of the box but are still within a distance of 1.5 times the interquartile range from the nearest end of the box), and dots indicate outside values.

S1 File. Minimal underlying data set.





ID	Birth weight	Gestational age	Paternal age	Maternal age	Paternal education	Maternal education	Sex	Cesarean
1814	3510	40	30.59822	30.45038	16	16	Female	Vaginal
1816	3272	40	28.91718	30.07803	12	12	Female	Vaginal
1820	3228	38.14	36.54483	36.38604	16	16	Female	Electiv
1821	3262	40.85	30.57084	31.79466	14	12	Male	Vaginal
1822	3120	39.57	37.99863	36.90349	14	12	Male	Vaginal
1823	3920	38.57	34.22861	33.74127	16	14	Male	Vaginal
1824	2672	39.57	29.18823	28.56947	16	14	Male	Vaginal
1825	2606	39.57	30.02327	31.37303	12	12	Female	Vaginal
1827	2900	40	21.99863	22.60096	12	15	Male	Vaginal
1829	2842	37.85	50.62834	31.72348	16	16	Female	Vaginal
1831	2770	39.14	34.78166	42.06982	18	14	Male	Electiv
1832	3408	38.42	27.02259	27.49897	14	16	Male	Vaginal
1837	2648	39.14	39.91787	33.98494	14	14	Female	Vaginal
1838	3416	39.85	36.5065	35.32375	15	14	Male	Vaginal
1841	3610	40.85	40.0794	37.53593	18	12	Female	Vaginal
1844	3136	40	34.89664	35.28816	16	12	Male	Electiv
1845	2680	38	30.2998	30.07529	16	16	Female	Vaginal
1846	3176	41.71	38.4668	29.44285	16	16	Male	Vaginal
1849	2694	37.85	33.72485	32.846	14	12	Male	Electiv
1850	3110	38.28	34.7269	33.0924	10	12	Male	Electiv
1852	3538	39.42	21.4319	20.44901	14	14	Male	Vaginal
1854	3002	38.57	35.01163	35.154	16	14	Male	Emergcy
1855	2874	38	28.16153	27.35661	12	14	Male	Electiv
1858	3738	40.28	19.85763	18.93498	12	12	Male	Vaginal
1860	3124	38.57	35.72622	35.78097	14	14	Female	Vaginal
1861	3806	39.85	37.1499	33.97125	16	14	Female	Vaginal
1864	3464	40.85	27.37029	28.52019	14	14	Male	Vaginal
1865	2284	37.42	35.31006	33.9822	12	14	Female	Electiv
1866	3072	39.71	27.9425	28.00821	9	10	Female	Vaginal
1873	3042	40.71	33.14716	33.71937	16	14	Male	Vaginal
1875	2944	41.42	36.57495	36.90623	12	12	Female	Vaginal
1876	3100	38.42	34.05339	34.11088	18	16	Male	Electiv
1877	2500	38.28	30.47228	26.38741	9	12	Female	Electiv
1879	3028	39	30.49966	25.8809	12	12	Male	Vaginal
1884	3654	40.14	28.52293	26.80903	16	12	Male	Vaginal
1886	2460	39.85	43.718	34.08076	12	16	Female	Vaginal
1887	3230	38.28	30.26364	27.94798	12	9	Female	Electiv
1888	2956	38.71	25.67283	27.4935	12	16	Male	Vaginal
1889	2944	39.85	31.54278	33.19096	14	12	Female	Vaginal
1891	3010	38.28	32.64066	32.82683	16	14	Male	Vaginal
1894	2698	40	30.20123	41.25667	16	12	Male	Vaginal
1895	3736	41	33.38535	33.19096	16	16	Female	Vaginal
1896	3060	39.14	29.48118	30.55715	12	14	Female	Vaginal
1897	2940	41	34.27515	27.90691	12	12	Female	Vaginal
1898	2594	37.57	36.92813	35.44969	14	16	Female	Vaginal
1903	2896	40	21.94935	25.09788	10	12	Male	Emergcy
1906	2918	37.71	23.66598	26.05339	16	16	Male	Electiv
1908	2970	40.71	25.92197	25.11431	16	13	Male	Vaginal
1913	2898	39.28	29.58522	29.32786	15	14	Male	Vaginal
1915	3482	40.28	28.41342	26.93224	14	12	Female	Vaginal
1919	3052	38.28	31.47981	33.12799	14	16	Male	Vaginal
1921	3072	40.42	28.40794	28.40794	16	14	Male	Emergcy
1924	3036	39.85	28.35318	25.20192	16	12	Male	Electiv
1926	2626	38.28	30.04517	24.26283	12	12	Male	Electiv
1931	2652	40.57	35.08556	32.16427	16	14	Male	Vaginal

1932	3098	39.42	33.6564	35.0089	13	12 Male	Vaginal
1933	2056	37.28	34.55168	36.19165	16	14 Female	Electiv
1934	2810	39.14	43.32923	36.30938	16	12 Female	Emergcy
1936	3356	40.28	29.21013	28.76934	16	14 Female	Vaginal
1938	3058	40.85	34.70773	34.25599	14	14 Male	Vaginal
1939	3404	39.28	39.44969	33.02943	12	14 Male	Vaginal
1943	2640	37.57	39.65229	39.9781	16	16 Female	Electiv
1944	3578	39.42	29.1937	29.76044	12	14 Male	Vaginal
1947	2712	38.28	34.9514	33.49487	12	13 Female	Electiv
1948	2606	38.14	35.0308	35.58932	16	14 Male	Electiv
1950	2726	39.85	24.53114	25.91376	12	12 Male	Vaginal
1951	2934	40.85	23.82204	24.57769	12	15 Male	Vaginal
1953	3496	41	33.35524	29.7577	12	14 Female	Vaginal
1954	2864	40.28	40.90623	42.86927	16	15 Female	Vaginal
1955	3014	39.57	26.987	24.282	18	16 Male	Vaginal
1956	3278	41.14	32.61054	34.64202	14	14 Female	Vaginal
1960	3090	39.14	33.67009	30.67488	26	16 Male	Vaginal
1962	2982	38.42	33.9165	35.94524	12	14 Male	Electiv
1964	2502	40.42	31.04723	30.27515	14	12 Male	Vaginal
1966	3238	39.14	29.14168	28.75838	12	15 Male	Vaginal
1968	3392	41.28	37.74127	31.20329	16	12 Female	Vaginal
1969	2438	37.28	34.17112	33.36071	19	16 Male	Vaginal
1970	1670	35.42	29.44011	24.13142	12	12 Female	Emergcy
1971	2604	37.14	25.19097	26.13552	13	14 Female	Vaginal
1973	2656	39	21.96304	20.04107	13	10 Male	Vaginal
1974	2794	39.71	43.40041	34.14374	16	14 Male	Vaginal
1975	3020	38.14	33.95483	33.71663	14	12 Male	Vaginal
1976	3122	40.28	30.04791	34.52156	16	16 Female	Emergcy
1978	3462	38.85	40.08761	38.28337	12	14 Male	Electiv
1979	3480	40.14	36.63244	32.05476	18	16 Female	Vaginal
1980	3050	37.85	28.07118	25.7358	12	13 Male	Vaginal
1981	3550	40.14	33.34428	36.71458	12	12 Male	Vaginal
1982	3504	38.71	41.30595	31.06913	12	17 Male	Vaginal
1984	3080	40.14	23.54825	24.16427	14	14 Male	Vaginal
1985	2388	38.57	36.62971	38.39288	16	14 Female	Electiv
1986	2802	38.57	30.66119	25.83436	12	12 Male	Emergcy
1995	3480	38	38.43395	36.06845	18	14 Male	Electiv
1998	2714	40.57	23.78645	23.19507	12	12 Male	Vaginal
1999	3220	40	38.52977	35.78097	12	14 Male	Vaginal
2001	2948	39.14	33.86174	34.14648	16	16 Female	Vaginal
2003	3670	39.28	34.49966	34.35181	12	12 Male	Electiv
2005	3584	40	33.46475	33.22929	16	14 Male	Vaginal
2007	2364	37.85	34.8857	34.8063	16	16 Male	Vaginal
2008	3354	41.14	24.86516	27.69884	12	12 Male	Vaginal
2009	2644	38.14	27.06639	26.82546	14	11 Female	Electiv
2010	3812	38.14	41.44011	31.96715	16	14 Male	Electiv
2012	2944	39.71	29.79603	32.9692	12	12 Male	Electiv
2015	3172	39.42	30.10814	28.05476	15	12 Female	Vaginal
2016	3038	38.14	27.86858	34.99521	16	14 Male	Vaginal
2017	2564	37.71	30.78987	28.3614	10	16 Male	Electiv
2025	2660	37.71	25.00205	24.24093	13	11 Female	Electiv
2028	2990	39.42	33.64271	30.6256	21	15 Male	Vaginal
2030	3258	39	37.35524	37.84805	12	14 Male	Vaginal
2031	2602	37.28	36.62149	30.61739	16	16 Male	Electiv
2037	3196	40.14	35.77002	36.22998	15	16 Male	Vaginal
2038	2866	38.57	43.74812	35.81109	12	14 Male	Electiv

2041	3622	38.28	31.77823	31.94798	12	16 Female	Vaginal
2042	2636	38.28	35.99453	38.49966	16	14 Male	Electiv
2044	3258	38.85	25.70294	26.84189	16	12 Male	Vaginal
2045	3134	41.14	36.92813	37.64271	12	12 Male	Vaginal
2046	2636	36.28	31.20055	31.0089	16	16 Male	Vaginal
2048	3004	40	33.07871	30.04791	16	12 Female	Vaginal
2049	2964	39.57	31.7974	25.40999	16	12 Female	Vaginal
2050	3370	40.71	39.95346	37.19096	16	16 Female	Vaginal
2058	2372	37.28	25.28679	24.24914	9	14 Female	Emergcy
2060	3500	39.42	43.64134	39.41684	16	18 Male	Vaginal
2061	2950	37.14	36.95004	36.07666	12	12 Female	Electiv
2062	3356	39	32.3614	27.41136	14	15 Male	Vaginal
2065	2540	38.71	40.25736	37.36345	12	13 Male	Electiv
2066	3142	40.28	33.82615	27.86037	16	12 Female	Vaginal
2068	2488	38.85	28.91171	28.12868	12	12 Male	Vaginal
2069	2800	37.57	29.4319	35.34839	12	16 Male	Electiv
2070	3160	37.85	30.67214	25.14168	16	12 Male	Electiv
2073	3588	41.42	35.34291	36.21082	16	16 Male	Vaginal
2074	3210	37.71	34.141	29.7796	12	14 Female	Emergcy
2076	2988	39.42	32.21629	31.86037	12	16 Female	Vaginal
2078	3430	38.42	37.295	37.14442	18	14 Male	Vaginal
2083	2896	39.28	31.09103	31.09925	14	14 Female	Vaginal
2084	3500	40	36.65161	36.94456	12	12 Male	Vaginal
2087	3390	38.42	33.11157	33.46475	16	16 Male	Vaginal
2089	2356	38.28	28.55578	26.03148	12	14 Male	Vaginal
2092	3080	40.85	40.17796	40.06297	17	14 Female	Vaginal
2093	3238	40	49.80972	39.54826	12	12 Female	Vaginal
2095	2706	39.28	32.10678	31.84668	12	14 Female	Vaginal
2096	3900	40.42	35.83573	29.86448	12	14 Male	Vaginal
2097	3164	38.57	29.68652	30.5024	12	12 Male	Vaginal
2098	3288	39.85	20.51472	20.99658	12	12 Male	Vaginal
2103	2814	37.57	34.85284	34.59274	14	14 Male	Vaginal
2105	2738	38.28	31.13484	29.23477	12	12 Female	Vaginal
2112	3478	40.14	27.67693	27.1896	12	14 Male	Vaginal
2113	3740	40.42	32.13416	30.32991	16	16 Female	Vaginal
2115	3204	38.28	42.60917	36.19439	19	19 Female	Vaginal
2117	3060	39.57	29.65914	30.0835	12	12 Female	Vaginal
2120	2928	39.85	40.99932	34.26694	18	16 Female	Vaginal
2122	2682	37.85	46.48049	35.43053	12	14 Female	Vaginal
2123	3170	40.57	41.50034	39.76728	16	12 Female	Vaginal
2124	3610	41.14	25.35524	23.86858	12	14 Female	Vaginal
2125	2590	38.85	25.8371	25.87269	16	15 Male	Vaginal
2127	2846	36.85	39.99726	32.10951	12	12 Male	Vaginal
2129	2836	39.28	34.48597	41.90828	17	14 Female	Emergcy
2131	3450	40.28	32.97194	29.9603	14	15 Male	Vaginal
2133	3176	38	44.93087	32.01917	12	12 Male	Vaginal
2135	2840	40.71	35.54552	34.51609	9	10 Female	Vaginal
2137	2790	37.57	32.30938	31.50992	14	14 Male	Vaginal
2138	2864	39.57	37.50308	33.77413	16	17 Female	Vaginal
2140	3356	40	35.85763	31.60849	12	14 Female	Vaginal
2143	3456	40.71	25.6564	26.18754	14	14 Female	Vaginal
2144	2986	40.28	33.03765	33.16085	14	15 Female	Vaginal
2145	3898	39.71	33.57974	28.35318	16	14 Male	Vaginal
2146	2946	40.14	36.3614	33.16632	16	12 Female	Vaginal
2148	3074	40	32.85147	41.61259	16	14 Female	Vaginal
2149	2570	38.14	40.47365	34.81451	12	12 Female	Vaginal

2150	2202	36.85	44.94182	39.19233	12	12 Female	Vaginal
2151	2944	38.57	40.53662	34.40657	12	14 Male	Vaginal
2152	3028	39.28	32.29843	23.6742	13	15 Female	Vaginal
2154	3006	38.85	28.67625	25.16632	15	12 Female	Vaginal
2155	3342	38.85	28.34771	29.27036	15	15 Female	Vaginal
2156	2996	40.71	35.96714	33.07597	18	15 Male	Vaginal
2157	3020	40.57	36.81862	31.68241	15	14 Male	Vaginal
2159	3404	39.71	24.40794	23.34018	9	11 Male	Vaginal
2163	2808	39.57	25.14442	22.91034	12	12 Male	Vaginal
2164	2412	37.57	34.0835	29.71937	14	14 Female	Vaginal
2169	3200	39.71	35.48802	35.26352	12	12 Female	Vaginal
2170	2852	38.71	31.46612	27.01164	16	16 Female	Vaginal
2186	2568	37.71	32.87885	33.5551	14	15 Female	Vaginal
2188	3640	40.42	31.96441	26.81451	16	14 Male	Vaginal
2190	3212	39	39.55921	32.63518	18	16 Female	Vaginal
2200	2690	40.71	38.6694	37.36619	16	12 Female	Vaginal
2204	2570	38.28	25.63997	21.61807	13	12 Female	Vaginal
2206	2898	39	19.93703	19.03628	9	12 Male	Vaginal
2210	3120	40.71	34.27789	34.25325	9	15 Female	Vaginal
2218	2572	40	21.29774	19.03354	12	10 Female	Vaginal
2222	3384	40.85	29.32512	27.73169	12	12 Female	Vaginal
2224	2888	39.57	33.42094	37.0486	12	12 Female	Vaginal
2226	2138	35.57	35.20329	33.80151	21	15 Female	Vaginal
2227	2068	35.57	35.20329	33.80151	21	15 Female	Vaginal
2234	3324	38.71	29.86448	32.36414	14	14 Male	Vaginal
2236	2160	37.71	28.8679	27.81109	12	12 Female	Vaginal
2238	3284	40.14	30.86379	30.7707	11	11 Male	Vaginal
2240	2718	39.85	27.60575	28.87885	16	14 Female	Vaginal
2248	2616	37	32.50924	38.15195	14	14 Male	Vaginal
2254	2620	39	35.86584	36.564	16	16 Female	Emergcy
2256	3054	38.28	38.37919	35.70979	18	15 Female	Vaginal
2260	3040	38.14	26.03148	25.11157	16	14 Male	Vaginal
2262	2920	39.28	35.04996	35.15127	12	12 Female	Vaginal
2264	1930	38.28	27.76728	28.94182	12	13 Male	Vaginal
2266	2638	39	41.34702	32.22724	12	16 Female	Vaginal
2268	2900	39.14	31.50719	23.03901	12	14 Male	Vaginal
2270	2934	39.57	33.39631	31.67146	12	16 Female	Vaginal
2282	2782	39.14	29.10335	27.26078	12	15 Male	Vaginal
2290	2574	39.28	36.32033	28.77755	16	15 Female	Vaginal
2292	3212	39.42	26.55441	26.68309	12	12 Male	Vaginal
2294	2686	39.57	34.53799	34.80082	16	16 Female	Vaginal
2302	2992	40.57	31.09651	26.12183	16	16 Female	Vaginal
2304	2796	40.71	30.30801	30.30527	16	16 Male	Vaginal
2306	3512	40.14	34.95962	32.81588	14	12 Male	Vaginal
2308	2608	39	31.09103	29.50582	21	18 Male	Vaginal
2310	1448	36	40.03833	40.35866	16	13 Female	Emergcy
2602	2578	37.28	33.81793	33.99863	18	16 Male	Vaginal
2604	2740	38.14	29.02669	30.6037	12	14 Male	Vaginal
2608	2358	34.71	40.70636	37.58248	12	14 Female	Vaginal
2614	3254	39.71	34.72416	34.41205	14	12 Female	Vaginal
4149	2974	39.28	33.57974	29.08419	18	16 Male	Vaginal
4155	2928	38	28.44901	26.70774	10	12 Female	Vaginal
4163	3704	41.42	33.75222	32.23545	18	18 Female	Emergcy
4165	3562	39.85	28.42163	29.28131	12	16 Male	Vaginal
4173	2940	40.57	31.28816	31.26626	23	18 Male	Vaginal
4177	3036	39.14	30.78166	29.28131	13	14 Female	Vaginal

4181	2770	38.71	37.82341	33.35524	16	15 Male	Vaginal
4183	3352	40.14	32.8679	31.61396	16	14 Female	Vaginal
4185	3780	40.42	37.02396	21.94661	16	12 Female	Emergcy
4187	2264	36.57	34.11088	34.5243	16	16 Female	Emergcy
4193	3276	40.85	32.31759	29.42368	16	16 Female	Vaginal
4201	3022	37.57	28.62697	28.41889	13	11 Male	Vaginal
4205	3156	39.42	38.84737	36.77481	16	16 Female	Vaginal
4207	2392	36.14	32.21629	32.50103	16	14 Male	Vaginal
4209	2116	36.42	30.93771	33.94661	18	16 Female	Vaginal
4213	2526	36.28	38.84737	26.28884	16	12 Male	Vaginal
4219	3248	40.14	22.15469	22.64476	12	12 Male	Vaginal
4225	2614	39.85	28.33676	26.44764	9	12 Male	Vaginal
4231	3060	38.42	26.68583	26.30801	12	12 Female	Vaginal
4235	2898	40.71	29.05955	27.02533	16	16 Female	Vaginal
4237	2822	39.42	45.97947	40.25736	15	16 Male	Electiv
4239	3232	40	27.08282	27.07187	18	16 Male	Vaginal
4243	2888	38	27.14031	26.87748	14	15 Male	Vaginal
4251	2722	37.14	30.93771	28.99932	16	16 Female	Vaginal
4255	3274	40	31.63587	25.71116	10	9 Male	Vaginal
4257	2938	40.42	27.64682	26.6475	15	14 Male	Vaginal
4267	2932	38.14	34.21766	33.81519	16	16 Male	Vaginal
4269	2940	39.85	25.71937	26.86105	12	16 Female	Vaginal
4271	3662	40.14	36.73101	20.79398	14	9 Male	Vaginal
4279	2980	38.42	27.89596	25.57153	14	12 Male	Vaginal
4283	3036	40.57	33.69747	26.68036	12	14 Male	Vaginal
4285	3102	38.71	29.59343	23.8768	9	12 Female	Vaginal
4287	2580	37.85	41.3744	42.23682	12	16 Female	Vaginal
4291	2664	37.85	31.52635	31.91513	17	16 Male	Vaginal
4293	3106	41.85	35.99179	29.5551	12	9 Male	Vaginal
4313	3810	41.14	35.44969	27.18686	14	14 Female	Vaginal
4315	3314	38.14	47.46612	44.55578	9	12 Female	Electiv
4323	2588	41	33.10336	31.15401	12	12 Female	Vaginal
4325	2842	40.71	34.39014	32.93634	18	16 Female	Vaginal
4331	2818	38.14	33.14716	32.99384	18	11 Male	Vaginal
4333	2908	38.71	42.43395	31.5948	16	14 Female	Vaginal
4335	2768	38	25.0924	24.77481	16	14 Female	Vaginal
4339	3288	39.42	27.11567	36.65982	12	12 Male	Vaginal
4343	3190	39.42	33.5989	34.05886	12	12 Female	Vaginal
4345	2700	37.42	35.80561	41.09514	16	16 Female	Emergcy
4349	3870	38	37.01574	35.5154	12	12 Male	Electiv
4355	3200	38.85	38.47228	39.46612	16	12 Female	Vaginal
4360	2636	37.28	37.84258	30.65024	16	16 Male	Vaginal
4362	3320	38	34.98152	32.74469	12	14 Female	Electiv
4366	2512	37.28	27.20602	27.22245	12	12 Male	Vaginal
4370	3350	38.28	35.29911	32.21355	12	12 Female	Vaginal
4379	3614	40.28	37.88364	37.42642	16	16 Male	Vaginal
4381	2314	36.85	29.92745	24.57769	14	12 Female	Emergcy
4383	2418	35.71	30.05613	30.35729	14	14 Male	Vaginal
4391	3344	39.28	26.29706	25.67009	15	16 Male	Vaginal
4393	3082	38.85	37.70294	37.83162	15	16 Male	Vaginal
4399	3204	41.28	29.83436	24.84052	12	15 Female	Vaginal
4401	3030	40.85	30.47502	30.22861	14	14 Female	Emergcy
4403	2684	38.14	42.68036	35.43053	16	12 Male	Vaginal
4407	3400	40.28	31.50445	29.92471	12	12 Male	Vaginal
4409	3746	39	33.97125	39.00068	16	14 Male	Vaginal
4417	2950	39.28	32.65982	34.26968	21	18 Female	Vaginal

4419	2804	39.42	41.3306	39.69336	12	14 Female	Vaginal
4421	4040	38.42	38.83641	36.38056	16	16 Male	Vaginal
4425	3106	39.85	30.38193	27.84942	18	14 Male	Vaginal
4447	3854	39	36.0219	35.76181	14	14 Male	Electiv
4449	2690	38.57	23.87953	24.48186	12	15 Female	Vaginal
4451	3140	38.42	33.71115	27.96167	12	16 Male	Electiv
4458	2854	38.85	34.97604	30.63107	12	9 Female	Vaginal
4487	2266	37	22.6037	20.99932	9	9 Female	Emergcy
4488	2468	37	22.6037	20.99932	9	9 Male	Emergcy
4490	1808	38.14	37.97125	36.52567	12	12 Female	Emergcy
4492	3156	39.28	27.88775	28.13689	13	14 Female	Electiv
4509	2236	33.42	34.99795	32.80493	16	12 Male	Vaginal
4511	3240	38.71	30.42026	34.89938	16	12 Male	Vaginal
4517	2832	37.85	26.5681	27.45517	14	9 Female	Electiv
4521	2882	38.85	32.26557	32.11499	16	16 Male	Vaginal
4523	3052	39.28	34.64476	35.22519	14	14 Male	Vaginal
4529	3232	40.42	28.16975	24.3258	12	13 Male	Vaginal
4531	2412	40.42	34.89938	32.26557	16	14 Female	Vaginal
4533	2454	38.85	27.98083	26.08077	11	14 Female	Electiv
4541	2380	38.42	27.18686	28.2601	16	12 Female	Vaginal
4547	3068	40.42	26.66119	22.9295	12	12 Male	Vaginal
4549	3286	39.42	20.71732	21.52498	9	12 Female	Vaginal
4551	2950	40	31.09377	29.71116	14	14 Female	Vaginal
4555	2918	39.14	35.47433	35.11567	18	16 Female	Vaginal
4557	2844	37.28	28.79398	30.3655	14	13 Male	Vaginal
4559	3550	40.57	29.0486	26.21492	12	12 Female	Vaginal
4563	3228	40	40.51472	37.6783	12	12 Female	Vaginal
4565	2804	39.28	30.16838	30.39288	16	16 Female	Vaginal
4567	3228	38.57	22.86379	23.29911	12	12 Male	Vaginal
4569	3458	41.14	33.49213	28.29843	15	15 Male	Vaginal
4573	3474	39.85	29.12526	28.18344	12	12 Male	Vaginal
4577	3150	37.71	35.85489	34.27789	14	14 Female	Electiv
4581	2920	39.28	26.94593	22.71869	14	12 Female	Vaginal
4583	2924	40.14	35.46612	35.27995	16	12 Female	Vaginal
4589	2248	36.28	27.45243	27.40589	12	12 Male	Emergcy
4593	2846	39.14	25.59069	26.38193	12	14 Female	Vaginal
4596	2588	37.57	45.13347	40.24093	16	15 Female	Electiv
4598	2918	38	34.49692	34.92676	16	16 Male	Electiv
4604	2510	36	32.51198	38.74333	16	12 Female	Vaginal
4611	3370	40.28	32.29569	30.79535	12	12 Male	Vaginal
4613	2768	38.71	31.2553	30.92402	14	16 Male	Vaginal
4615	2612	39.28	29.11157	28.20534	12	12 Female	Vaginal
4617	3176	39.57	35.74538	33.23477	16	14 Male	Vaginal
4626	2790	37.14	32.81041	32.99932	12	15 Female	Electiv
4628	3646	40.71	38.95962	27.93429	18	14 Female	Vaginal
4632	3226	40.28	38.52977	38.43669	18	12 Female	Emergcy
4634	2854	39.57	34.19576	31.80288	14	12 Female	Vaginal
4642	3250	39.71	50.59548	31.33196	15	10 Female	Vaginal
4644	3174	41.28	33.89185	32.59138	16	14 Female	Vaginal
4646	2892	39.85	36.13689	28.37509	12	12 Female	Vaginal
4648	3164	39.28	33.90281	37.2512	16	18 Female	Electiv
4650	3228	39.57	28.62149	22.30801	12	12 Female	Vaginal
4652	3222	40.28	45.74675	35.41957	12	14 Male	Vaginal
4654	2978	41.42	27.86311	28.03012	12	14 Female	Vaginal
4656	2950	40.71	31.92882	32.57769	18	14 Male	Vaginal
4658	2738	37.42	35.0308	34.61739	14	14 Female	Electiv

4662	2532	39.28	30.94867	30.71047	12	12 Male	Vaginal
4664	2878	38.42	32.36414	31.59206	15	14 Male	Emergcy
4667	2918	39.14	40.18344	31.15948	16	16 Male	Vaginal
4669	3050	39.85	40.57221	40.31211	12	16 Male	Vaginal
4671	2392	38.28	33.0486	29.51403	12	12 Female	Electiv
4675	2822	39.14	40.79398	40.93634	12	15 Male	Vaginal
4677	2674	38.42	37.47844	29.82888	11	12 Female	Vaginal
4679	3096	38.42	40.40794	36.47091	12	15 Male	Electiv
4681	3124	38.28	30.35455	30.80356	16	14 Male	Vaginal
4683	3412	41.14	35.98357	36.31485	21	14 Female	Vaginal
4685	2468	38.14	35.83573	34.57358	16	16 Male	Vaginal
4689	2590	39.42	29.65366	27.31828	12	14 Male	Vaginal
4691	2522	38.14	31.20876	27.17591	14	14 Female	Vaginal
4695	2948	39.42	29.47023	29.54689	12	16 Female	Vaginal
4701	3344	40.28	32.17796	30.10541	12	16 Female	Vaginal
4703	3244	38	42.68857	37.96304	16	12 Male	Electiv
4705	2284	38.28	35.30185	36.846	18	16 Male	Vaginal
4713	2772	36.42	62.58179	36.32307	12	10 Male	Electiv
4717	2628	37.42	29.52225	26.17385	12	12 Male	Vaginal
4719	2962	37.57	41.37714	38.49418	16	12 Female	Vaginal
4721	2878	37.57	37.14716	36.30664	16	14 Female	Emergcy
4725	3246	40.42	34.55442	35.54004	14	14 Male	Vaginal
4727	3080	40.71	32.41341	30.76797	16	16 Female	Emergcy
4729	2654	40.28	35.60027	34.87201	26	14 Male	Vaginal
4734	2824	38	31.9206	26.13826	13	12 Female	Emergcy
4738	2852	38.85	43.87954	41.41547	16	15 Male	Vaginal
4740	3540	38.71	34.53251	36.20808	14	16 Female	Emergcy
4744	2708	38.42	50.23682	37.81793	14	15 Male	Electiv
4746	3080	39.85	28	25.58522	12	14 Male	Vaginal
4748	2770	37.85	23.09651	22.48049	14	15 Female	Electiv
4749	3270	39.42	29.69473	26.56537	16	15 Female	Vaginal
4754	3146	38.71	33.4319	34.59001	17	19 Male	Electiv
4756	2666	37.85	31.35113	31.43053	12	15 Male	Electiv
4760	3650	39.71	36.24641	35.92608	18	16 Male	Vaginal
4761	3058	40	29.07598	28.58864	12	14 Female	Vaginal
4763	3090	39.57	36.97194	34.08076	16	14 Female	Vaginal
4765	2880	38.28	38.81451	38.51061	12	16 Female	Vaginal
4767	2862	39.14	43.43327	40.37508	18	15 Female	Vaginal
4776	2564	38.42	37.51951	37.17454	18	18 Female	Vaginal
4778	3308	39.85	34.93224	37.09514	12	12 Female	Vaginal
4780	4286	41.14	37.43464	37.63176	12	15 Female	Vaginal
4782	3254	39.42	27.85216	25.57426	12	16 Male	Vaginal
4784	2686	39	32.50277	31.47159	18	18 Female	Vaginal
4788	2932	38.42	32.24093	33.59069	12	12 Male	Vaginal
4790	4170	40.71	43.72895	36.62149	16	16 Male	Vaginal
4792	3250	40.57	29.12526	28.99658	12	15 Male	Vaginal
4794	3264	40.14	38.83094	36.44079	12	15 Male	Vaginal
4796	2580	37	28.91171	24.89802	12	12 Male	Vaginal
4798	3114	38.14	44.93908	33.16085	12	14 Male	Vaginal
4800	2950	39	28.9473	29.3306	12	14 Male	Vaginal
4804	2816	40.28	33.26215	33.36619	14	14 Female	Vaginal
4806	3066	40.42	38.63107	37.30048	9	12 Male	Vaginal
4810	3312	40.85	37.42368	36.00821	12	14 Male	Vaginal
4812	3420	37.57	45.6345	43.38124	16	14 Female	Emergcy
4854	2882	37.85	29.41821	28.00274	12	14 Female	Electiv
4857	3412	39.28	45.71115	37.78234	12	15 Female	Vaginal

4858	3346	38.71	22.68857	23.14031	12	14 Male	Vaginal
4862	2516	37.85	34.74333	32.65709	12	12 Male	Electiv
4866	3722	38.42	38.57906	37.57153	16	15 Female	Electiv
4868	2584	37.85	36.88159	34.9076	12	12 Female	Vaginal
4870	3170	38	33.10883	38.23956	12	12 Female	Electiv
4874	3092	39.14	27.88501	26.00958	9	12 Male	Vaginal
4876	3700	37.85	40.52293	35.00068	16	14 Male	Electiv
4882	3596	38.42	39.54004	41.53593	19	12 Male	Vaginal
4884	3100	40.14	37.56605	33.82888	12	14 Female	Vaginal
4888	3056	38.85	34.29158	38.64476	12	14 Female	Vaginal
4898	3300	40.71	39.12115	35.30458	12	12 Female	Vaginal
4900	2706	40.14	28.34497	29.71389	16	16 Female	Vaginal
4902	3420	40.57	34.10541	29.61259	12	12 Male	Vaginal
4904	2790	41.71	27.05818	24.98836	16	12 Female	Vaginal
4909	3134	40.71	25.84531	28.15058	12	14 Female	Vaginal
4918	2082	38.42	41.87817	35.38946	17	16 Female	Vaginal
4922	3302	41	33.62628	33.27036	12	14 Male	Vaginal
4924	2394	37	38.06434	35.03354	16	14 Female	Vaginal
4926	2592	40.85	31.34565	29.97673	14	16 Female	Vaginal
4932	2918	37.85	29.10609	29.54141	13	13 Male	Electiv
4934	2972	39.14	35.09377	33.13621	16	16 Male	Vaginal
4942	3164	39.85	34.60369	33.43737	15	14 Male	Vaginal
4947	2840	40.14	25.64545	25.72485	16	16 Female	Vaginal
4949	2806	37.85	33.41547	32.56673	16	16 Female	Electiv
4953	2896	39.42	25.4976	24.70089	9	12 Male	Vaginal
4961	2852	40.42	24.98015	25.7358	12	15 Male	Vaginal
4969	3258	41	34.52156	32.17522	16	16 Female	Vaginal
4971	2666	39.57	28.82409	26.25873	18	16 Female	Vaginal
4979	3940	41.57	38.3436	38.83915	14	12 Male	Vaginal
4981	3358	37.85	36.91171	34.22313	12	13 Female	Electiv
4983	2956	38.57	32.55305	34.17385	14	12 Female	Emergcy
4985	3542	41	29.30595	27.37851	14	15 Female	Vaginal
4989	2672	38.71	36.51472	37.29774	9	12 Male	Vaginal
4993	3076	37.71	38.09172	36.68446	16	13 Female	Electiv
4997	3384	40.85	32.89254	28.87064	12	18 Male	Vaginal
5005	3526	41	21.71116	19.62765	12	12 Male	Vaginal
5007	3052	38.71	33.71115	35.35934	14	16 Female	Vaginal
5009	2538	38.14	25.69747	24.39151	15	10 Female	Vaginal
5013	3284	39.71	38.10815	36.18891	18	18 Male	Vaginal
5023	3200	39.71	27.06913	29.02943	12	12 Female	Vaginal
5027	3342	38.85	22.19576	23.4579	9	13 Male	Vaginal
5029	2700	38.71	32.06297	31.35934	16	15 Female	Electiv
5031	2858	41.28	38.30527	32.55305	12	12 Female	Vaginal
5033	3178	40	26.16851	21.90828	9	12 Male	Vaginal
5037	3316	39.71	33.48391	31.78645	12	14 Male	Vaginal
5039	2868	41.14	26.75702	26.1629	18	14 Female	Vaginal
5043	3670	40.28	28.45448	28.96099	12	12 Male	Vaginal
5045	3062	38.85	36.84052	33.99316	16	18 Female	Vaginal
5047	2446	37.42	36.40247	37.52224	15	15 Male	Vaginal
5053	2422	40.71	34.45585	37.83984	12	15 Female	Vaginal
5055	2868	39.42	39.81383	30.00685	14	16 Male	Vaginal
5057	2290	38.28	38.02601	33.05681	12	13 Male	Electiv
5061	3774	38.14	26.91307	26.68309	12	16 Male	Vaginal
5063	3490	41.14	30.81401	35.64682	16	15 Male	Vaginal
5065	3214	40	32.84873	30.04517	14	14 Female	Vaginal
5077	2976	40.71	30.09446	26.72142	14	14 Female	Vaginal

5079	3130	38.71	21.78926	19.01437	9	9 Male	Vaginal
5081	3474	40.28	34.08076	27.82204	12	16 Male	Vaginal
5083	2686	38.42	41.59617	39.02806	16	14 Female	Vaginal
5091	3164	39	24.47912	24.92266	12	15 Female	Vaginal
5094	2570	37.28	31.61396	32.77481	12	12 Female	Vaginal
5097	2516	36.57	42.9295	36.42163	12	16 Male	Emergcy
5098	2256	36.57	42.9295	36.42163	12	16 Male	Emergcy
5099	2754	37.42	34.27242	34.97604	12	14 Male	Electiv
5100	1950	37.42	34.27242	34.97604	12	14 Male	Electiv
5167	2850	40.57	28.09035	29.58795	14	14 Female	Vaginal
5171	3036	38.42	33.13073	33.21013	16	15 Male	Electiv
5173	2376	41	29.91102	27.43327	18	16 Female	Vaginal
5177	2898	41.85	31.38398	38.38741	16	14 Male	Vaginal
5184	3006	40.42	22.38677	19.78097	11	12 Female	Vaginal
5187	2640	39.85	38.03696	37.58522	12	9 Male	Vaginal
5190	3002	39.42	32.02738	33.10336	12	16 Female	Vaginal
5194	3410	38.42	39.35934	32.54757	14	13 Female	Electiv
5196	2836	38.28	25.02943	34.4887	16	14 Female	Electiv
5202	3672	38.57	34.70773	36.19986	9	14 Male	Electiv
5212	2814	37.42	32.08761	30.71595	12	16 Female	Emergcy
5217	2338	37.85	32.59685	31.42505	18	16 Female	Vaginal
5219	3250	38	36.75017	37.13895	15	12 Male	Vaginal
5221	3076	39.71	30.6037	31.30185	18	16 Male	Vaginal
5223	3196	38.28	44.97467	40.09583	16	12 Male	Vaginal
5230	2828	38.94498	45.10883	40.34223	14	12 Female	Vaginal
5236	2962	37.42	35.33744	30.74607	15	16 Male	Electiv
5240	3966	40.71	30.50513	29.87269	16	16 Male	Vaginal
5242	3352	37.85	34.67488	29.61807	12	12 Male	Electiv
5246	2732	39.71	31.37029	29.16085	16	16 Female	Vaginal
5252	2390	38.14	33.4538	34.90212	12	12 Male	Vaginal
5254	3502	40.57	36.68446	37.62628	16	14 Male	Vaginal
5258	3280	39.85	28.69268	28.1013	16	14 Female	Vaginal
5260	2652	37.28	31.76181	31.60849	16	14 Male	Vaginal
5261	2360	36.42	25.24572	24.95004	12	14 Male	Vaginal
5263	2982	39.14	42.51335	39.80288	14	16 Male	Vaginal
5271	2296	37.14	36.73375	32.16975	18	16 Female	Vaginal
5273	3046	40.28	32.02464	31.06366	16	12 Female	Vaginal
5279	3414	39	40.62971	40.36961	12	14 Female	Emergcy
5285	3378	40.42	38.38467	37.74675	16	17 Male	Emergcy
5292	3088	40.71	39.46338	37.30869	15	18 Female	Vaginal
5296	3452	41	28.19165	29.72211	12	12 Male	Vaginal
5298	2923	38.28	36.5421	35.20602	12	12 Female	Electiv
5304	1810	36.71	32.03559	38.13005	12	14 Male	Emergcy
5306	2258	37.14	25.51129	25.52225	12	14 Female	Electiv
5307	2354	37.14	25.51129	25.52225	12	14 Male	Electiv
5309	3438	39.85	33.39904	33.91102	14	15 Male	Vaginal
5312	3752	40	40.91444	32.58864	16	15 Male	Vaginal
5315	2940	39.42	21.60986	22.2642	12	12 Male	Vaginal
5318	3422	38.28	38.02875	36.564	16	14 Male	Vaginal
5322	2646	39.42	32.54483	29.86448	18	16 Male	Vaginal
5326	3248	41.14	29.78782	28.24641	18	16 Female	Vaginal
5328	3040	39.07779	32.66256	28.29843	17	17 Male	Vaginal
5331	3474	39.28	29.94935	37.07597	16	14 Male	Vaginal
5335	3118	39.14	35.40589	32.28474	16	16 Female	Vaginal
5341	3322	39.42	29.43463	25.46201	12	14 Male	Vaginal
5353	2390	38	38.29979	29.64819	16	16 Female	Vaginal

5357	2966	38.14	34.39288	32.97194	16	16 Male	Electiv
5371	3040	41	38.96783	37.11978	16	14 Male	Vaginal
5374	1246	29.57	32.36414	30.97604	16	15 Male	Emergcy
5380	3034	39.14	35.84394	28.04381	16	12 Male	Vaginal
5381	2704	38.28	27.81109	24.0794	12	12 Male	Vaginal
5390	3334	37.85	31.64956	31.37303	16	13 Male	Vaginal
5392	2226	38.28	34.6475	32.83778	14	16 Female	Vaginal
5394	3454	40.71	34.33539	33.87543	16	12 Male	Emergcy
5398	3180	39.71	37.02122	27.70705	12	12 Female	Vaginal
5400	3000	38.14	33.82888	33.87817	16	16 Male	Vaginal
5402	2470	38.42	32.72005	31.7755	16	16 Male	Vaginal
5405	3250	40	30.84736	29.36619	14	12 Female	Vaginal
5407	2984	39	35.20329	30.59548	12	12 Female	Vaginal
5409	3658	39	21.97947	21.60986	14	14 Male	Vaginal
5414	3638	39.85	33.38535	39.4141	16	14 Male	Vaginal
5417	2156	37.28	31.34839	30.65298	9	14 Male	Electiv
5419	2718	37	30.89665	30.00958	12	14 Female	Vaginal
5421	2550	38	28.10404	29.24298	14	14 Male	Vaginal
5427	3036	40.85	38.14374	30.40657	12	12 Male	Vaginal
5431	2826	41	25.82067	28.53662	12	14 Female	Vaginal
5435	2736	40.28	36.27378	35.95893	12	14 Female	Vaginal
5437	3120	40	41.80698	39.28268	14	14 Male	Vaginal
5439	2582	39.57	31.86584	32.0219	12	12 Female	Vaginal
5441	2968	37.57	31.46886	31.24983	12	12 Male	Emergcy
5448	3294	38.14	28.45996	30.28063	12	16 Male	Vaginal
5450	2578	40.71	25.12799	28.29569	9	12 Female	Vaginal
5451	3504	40.71	34.32444	33.96851	12	16 Male	Vaginal
5455	2060	38.14	41.14442	41.18823	16	16 Female	Vaginal
5457	3408	39.85	26.26968	25.34428	12	13 Male	Vaginal
5459	3200	40.28	37.5989	38.15469	16	14 Female	Vaginal
5462	3018	38.57	27.80288	27.75086	16	16 Male	Vaginal
5468	3278	39.42	30.91307	32.34497	12	12 Male	Vaginal
5470	2746	37.71	34.21492	31.61396	12	12 Male	Electiv
5471	3100	38.14	39.93977	38.53799	12	14 Female	Electiv
5477	3448	39	26.55715	25.44285	13	12 Male	Vaginal
5478	3486	40.42	27.11567	24.88159	12	12 Male	Vaginal
5480	3284	40.14	27.76455	28.29569	14	14 Male	Vaginal
5482	3440	39.85	29.31691	25.83162	14	14 Female	Vaginal
5484	2988	39.85	34.12457	31.86858	11	14 Female	Vaginal
5486	3100	40.14	33.17454	30.7488	14	12 Female	Vaginal
5488	2850	40.42	38.88296	36.24641	10	14 Female	Vaginal
5489	3118	39.85	44.21629	36.61876	16	16 Male	Vaginal
5490	3266	39.57	39.02533	38.74059	12	12 Female	Vaginal
5494	2346	38.14	33.58522	32.1232	9	14 Male	Electiv
5496	2582	38.52082	29.69199	30.54346	14	13 Female	Vaginal
5500	2810	40.57	29.1499	33.35798	12	14 Male	Vaginal
5504	2228	37.61349	45.69473	43.50445	12	16 Female	Electiv
5506	2782	38.71	33.80972	28.20808	18	12 Male	Vaginal
5507	2584	38.3685	42.55442	36.42437	12	14 Female	Vaginal
5511	2856	38.28	47.44969	35.8193	14	13 Male	Electiv
5513	3354	38.85	22.45585	21.42916	12	12 Female	Vaginal
5521	3010	37.85	27.74538	30.63929	12	16 Male	Vaginal
5523	2866	38.42	39.37851	37.27858	14	12 Female	Vaginal
5527	2722	38.71	31.59206	31.02806	16	14 Female	Vaginal
5529	2682	40.14	29.34702	29.61807	12	14 Male	Vaginal
5537	1632	36	42.48597	42.54073	16	13 Male	Electiv

5538	2244	36	42.48597	42.54073	16	13 Male	Electiv
5539	3030	38.71	27.14853	31.80835	12	12 Female	Vaginal
5541	2926	40.42	28.78029	29.88364	13	14 Female	Vaginal
5543	3254	41.14	29.83436	25.03765	16	12 Female	Vaginal
5549	4152	40.42	37.18823	37.63997	16	16 Male	Electiv
5553	2750	38.42	46.80082	37.16359	12	16 Male	Vaginal
5557	2700	38.28	36.3039	32.25188	16	16 Male	Vaginal
5559	3018	39.42	28.60233	27.29911	12	14 Female	Vaginal
5565	2804	38.57	35.67967	32.64887	16	12 Male	Vaginal
5567	2416	37.71	37.6564	31.21424	16	16 Female	Electiv
5568	2510	37.71	37.6564	31.21424	16	16 Female	Electiv
5570	2664	38	33.42094	38.51609	16	12 Female	Vaginal
5572	2592	41	44.37235	40.89528	16	19 Male	Vaginal
5574	3122	38.42	26.78713	27.56194	14	14 Male	Vaginal
5576	2672	37.28	36.25462	35.27173	18	16 Female	Electiv
5579	2912	38.57	34.91034	34.05886	16	16 Female	Vaginal
5583	2720	40.14	31.20329	22.3655	14	15 Female	Vaginal
5585	2652	39.57	26.76249	30.85284	12	16 Female	Vaginal
5587	2318	39	34.05613	34.63107	16	12 Female	Vaginal
5607	3244	38	37.70021	36.9911	16	12 Male	Vaginal
5613	3012	39.30036	29.79603	29.4976	14	16 Male	Vaginal
5615	2798	39.14	27.06913	26.59822	16	16 Female	Vaginal
5617	3020	38.14	35.66598	35.02259	12	14 Male	Electiv
5619	2230	38	32.34223	29.72485	14	14 Male	Vaginal
5621	2634	39.42	29.31417	27.90144	12	12 Male	Vaginal
5623	2246	36.57	41.31964	30.32991	16	14 Female	Emergcy
5625	2870	37.57	40.85421	28.63792	14	11 Female	Electiv
5627	2564	38.42	31.78918	25.74675	12	12 Male	Vaginal
5629	3538	41	41.05133	40.36961	16	16 Male	Vaginal
5639	2682	40	27.91239	27.93429	14	14 Male	Vaginal
5641	2838	38	44.37508	39.718	12	16 Male	Vaginal
5642	2634	38.14	28.75838	28.38056	12	12 Male	Vaginal
5648	3168	40.85	20.84326	19.75633	9	12 Male	Vaginal
5650	2638	38.85	34.32717	31.47159	18	16 Female	Emergcy
5652	3370	39.57	31.65503	37.60986	16	16 Female	Vaginal
5654	3088	37.85	35.3128	35.13484	12	14 Female	Electiv
5673	3026	37.14	35.09651	35.66051	22	18 Female	Electiv
5683	3198	40.85	43.00068	26.48049	12	13 Female	Vaginal
5685	3566	39.71	31.2909	32.56947	16	16 Female	Vaginal
5688	3150	37.57	40.58864	31.66872	12	18 Female	Electiv
5691	3338	40	35.80561	35.99179	16	14 Male	Vaginal
5693	3098	40.71	31.9781	29.92745	16	16 Female	Vaginal
5695	3118	38.85	43.42779	37.21013	16	16 Male	Vaginal
5698	3350	39.28	32.33949	29.08145	12	14 Male	Vaginal
5700	3152	40.42	47.75085	42.29158	14	14 Male	Vaginal
5702	2940	38.14	33.49213	28.63244	12	16 Female	Electiv
5704	3096	39.71	32.07392	34.65572	18	18 Female	Vaginal
5710	3504	40	35.19781	35.04449	17	12 Male	Emergcy
5717	3262	40.85	29.69473	28.88159	16	16 Female	Vaginal
5721	2922	39.29773	40.94182	38.2204	12	14 Female	Vaginal
5724	3116	39.71	42.35455	37.5113	16	14 Male	Vaginal
5725	1126	32	32.30116	26.99247	12	12 Female	Emergcy
5731	2700	38.28	32.68994	35.41957	16	12 Male	Electiv
5734	2892	40.57	32.57495	32.55305	23	16 Male	Vaginal
5736	2782	39.57	33.08966	32.15606	16	16 Female	Vaginal
5737	3044	40.14	31.52635	31.08556	16	15 Male	Vaginal

5738	2956	37.57	31.46886	31.24983	12	12 Male	Emergcy
5740	2718	40.14	51.02533	22.13005	12	15 Female	Vaginal
5742	2760	37	44.27105	43.03628	16	16 Female	Emergcy
5744	3680	40.76043	30.22964	30.73237	14	12 Male	Vaginal
5748	3098	39.28	35.60849	40.03286	14	12 Male	Vaginal
5750	3406	41.14	42.04791	33.72485	19	14 Male	Vaginal
5752	2994	39.28	29.67009	29.80151	14	16 Female	Vaginal
5754	2416	39	23.45243	21.19918	12	10 Female	Vaginal
5756	2646	39.28	31.96988	30.71869	16	16 Male	Vaginal
5758	3260	42.14	23.89818	22.75975	14	12 Male	Emergcy
5760	2968	40.57	30.7707	25.04312	12	12 Female	Vaginal
5763	3152	40	37.87543	34.95414	16	14 Male	Vaginal
5764	3896	40.28	28.33402	27.2115	12	16 Male	Vaginal
5765	3494	38.85	29.18001	29.4757	16	16 Male	Vaginal
5766	2785	37	34.52156	31.86858	9	12 Female	Electiv
5776	3026	41.71	37.28405	35.18138	9	13 Female	Vaginal
5778	3066	37.14	32.62149	30.94593	16	14 Male	Vaginal
5779	3000	37.14	30.23135	30.66667	13	13 Female	Electiv
5791	2976	39.14	33.52498	33.68378	18	14 Female	Vaginal
5798	2830	37	38.2642	38.65572	16	12 Male	Electiv
5815	2540	38.85	18.8501	20.12047	12	12 Female	Vaginal
5817	3014	38.85	36.31759	35.57563	16	16 Male	Vaginal
5823	2810	41.28	35.73443	37.67009	21	12 Female	Vaginal
5829	3312	39.57	33.85626	41.32238	12	12 Female	Vaginal
5837	2770	39.14	28.45722	29.90007	16	16 Male	Vaginal
5850	2674	39.85	25.91102	25.3963	16	16 Female	Vaginal
5862	2738	38.28	29.35524	29.32512	12	12 Male	Vaginal
5870	3510	37.42	36.53936	27.38398	18	10 Male	Electiv
5873	3106	39.06727	28.71184	38.25599	12	12 Male	Vaginal
5884	3760	38.28	32.4271	27.8987	12	14 Female	Electiv
5887	2936	38.71	29.11704	29.13347	12	12 Female	Vaginal
5891	2884	39.57	30.66667	29.34702	16	14 Female	Vaginal
5893	3364	40.42	32.27926	29.14442	16	15 Male	Vaginal
5895	2348	37.85	44.15606	38.93771	12	13 Female	Emergcy
5899	3022	38	30.82272	27.51266	12	14 Male	Vaginal
5905	3284	40	29.65092	37.44285	18	18 Female	Vaginal
5911	2900	39.42	29.71937	26.71047	12	12 Female	Vaginal
5919	3154	38.57	31.37851	33.99316	16	12 Male	Vaginal
5923	3700	38.28	35.52088	35.62492	16	14 Male	Electiv
5929	2774	38.57	30.0178	32.42437	12	14 Female	Vaginal
5936	2798	36.85	29.29226	29.3525	14	14 Female	Vaginal

Trajectory	Probability	IL-1 α	IL-1 β	IL-2	IL-4	IL-5	IL-6	IL-8
Lo_normal	0.87	0.7	6.453	5.783	1.1	2.203	2.4	4.26
Normal	0.751	0.7	6.833	5.84	1.1	2.313	2.4	9.075
Lo_normal	0.997	0.7	7.17	5.787	1.1	2.177	2.4	4.455
Delayed	0.973	0.7	8.817	5.89	1.1	2.473	2.4	17.26
Delayed	0.544	0.7	7.32	5.993	1.1	2.553	2.4	18.183
Hi_normal	0.961	0.7	7.547	5.713	1.1	2.507	2.4	2.865
Normal	0.977	1.56	7.507	5.84	1.1	2.577	2.4	18.94
Normal	0.998	0.7	9.117	6.587	1.1	2.617	2.4	28.87
Normal	0.99	3.07	10.113	6.413	1.1	2.797	7.355	4.075
Delayed	0.568	0.7	7.283	5.433	1.1	2.21	2.4	50.483
Delayed	0.997	1.675	9.08	7.053	1.1	2.84	4.85	6.135
Normal	0.775	3.35	9.04	6.8	1.1	2.76	6.44	19.123
Lo_normal	0.999	4.19	9.67	7.27	1.1	3.123	6.833	8.363
Hi_normal	0.898	0.7	7.62	5.737	1.1	2.327	2.4	15.6
Lo_normal	0.843	0.7	7.393	5.737	1.1	2.19	2.4	8.983
Delayed	0.989	0.7	6.603	5.587	1.1	2.36	2.4	12.523
Lo_normal	0.992	0.7	8.037	5.303	1.1	2.2	2.4	4.075
Normal	0.891	0.7	8.073	5.94	1.1	2.313	5.805	15.623
Delayed	0.954	0.7	8.933	5.855	1.1	2.45	2.4	10.31
Lo_normal	0.843	0.7	7.433	6.44	1.1	2.463	2.4	10.223
Delayed	1	2.47	7.74	5.94	1.1	2.503	2.4	5.877
Hi_normal	0.98	2.535	9.41	6.243	1.1	2.69	5.01	4.3
Delayed	0.593	0.7	8.855	6.17	1.1	2.583	2.4	3.397
Normal	0.507	3.31	7.51	6.243	1.1	2.517	2.4	7.807
Normal	0.968	0.7	9.703	1.4	1.1	0.4	2.4	6.873
Normal	0.996	0.7	13.305	1.4	1.1	0.4	2.4	5.347
Hi_normal	0.994	0.7	14.777	1.4	1.1	0.4	2.4	20.845
Normal	0.948	0.7	12.993	1.4	1.1	0.4	2.4	6.673
Lo_normal	0.936	0.7	11.98	1.4	1.1	0.4	2.4	6.003
Hi_normal	1	0.7	11.487	1.4	1.1	0.4	2.4	7.11
Normal	0.994	0.7	12.197	1.4	1.1	0.4	2.4	5.697
Delayed	0.845	0.7	11.487	1.4	1.1	0.4	2.4	2.127
Normal	0.982	0.7	12.717	1.4	1.1	0.4	2.4	3.1
Normal	0.82	0.7	12.15	1.4	1.1	0.4	2.4	2.92
Delayed	1	0.7	10.963	1.4	1.1	0.4	2.4	40.203
Normal	0.999	0.7	11.52	1.4	1.1	0.4	2.4	14.763
Normal	0.997	0.7	13.397	1.4	1.1	0.4	2.4	8.11
Normal	0.982	0.7	11.887	1.4	1.1	0.4	2.4	13.335
Normal	0.997	0.7	9.89	1.4	1.1	0.4	2.4	8.313
Lo_normal	0.898	0.7	10.87	1.4	1.1	0.4	2.4	5.65
Normal	0.977	0.7	12.933	1.4	1.1	0.4	2.4	11.057
Delayed	0.586	2.855	14.623	1.4	1.1	0.4	2.4	6.177
Normal	0.997	0.7	13.55	1.4	1.1	0.4	2.4	4.215
Delayed	0.985	0.7	15.84	1.4	1.1	0.4	2.4	3.7
Delayed	0.928	0.7	12.81	1.4	1.1	0.4	2.4	4.5
Normal	0.972	0.7	10.503	1.4	1.1	0.4	2.4	12.34
Delayed	1	0.7	11.793	1.4	1.1	0.4	2.4	6.455
Delayed	0.47	3.835	4.54	5.457	1.1	2.377	2.4	7.647
Normal	0.994	4.703	5.825	6.46	1.1	2.28	2.4	4.02
Normal	0.999	4.313	7.24	5.74	1.1	2.717	12.21	6.903
Normal	0.994	4.347	5.903	5.873	1.1	2.617	2.4	12.235
Normal	1	4.467	5.27	5.827	1.1	2.547	2.4	3.577
Lo_normal	0.549	4.27	5.77	5.38	1.1	2.26	2.4	10.025
Lo_normal	0.831	4.533	4.995	5.593	1.1	2.25	2.4	12.557
Normal	0.997	4.2	5.12	5.847	1.1	2.303	2.4	10.353

Normal	0.775	4.887	5.61	6.113	1.1	2.257	2.4	5.76
Delayed	0.991	4.947	6.127	5.97	1.1	2.497	2.4	9.5
Lo_normal	0.998	5.247	4.54	5.943	1.1	2.363	2.4	37.733
Hi_normal	1	4.813	5.647	5.723	1.1	2.353	2.4	11.493
Normal	0.993	4.457	4.54	5.167	1.1	2.237	2.4	17.97
Normal	0.993	4.083	5.105	5.62	1.1	2.363	2.4	4.72
Lo_normal	0.991	4.453	5.383	5.237	1.1	2.353	2.4	9.607
Delayed	0.952	4.05	5.42	5.417	1.1	2.297	2.4	15.737
Hi_normal	0.955	4.163	4.973	5.2	1.1	2.297	2.4	4.017
Normal	0.754	4.087	5.123	5.31	1.1	2.43	2.4	4.555
Normal	0.942	4.273	4.673	5.42	1.1	2.24	2.4	5.515
Normal	0.942	4.313	9.865	5.453	1.1	2.34	420.253	106.807
Hi_normal	0.576	4.123	6.203	5.563	1.1	2.217	2.4	34.883
Hi_normal	0.864	4.277	5.46	5.56	1.1	2.503	2.4	4.555
Normal	0.856	2.075	7.135	5.403	2.985	2.513	2.4	3.67
Normal	0.992	2.14	6.57	5.32	2.86	2.467	2.4	3.425
Normal	0.971	2.56	9.34	5.727	2.405	2.8	2.4	5.745
Lo_normal	0.999	2.04	7.703	6.323	2.637	2.7	2.4	6.743
Hi_normal	0.997	2.04	8.205	6.863	2.463	2.777	2.4	32.74
Normal	0.99	3	8.5	5.5	2.88	2.763	2.4	3.99
Normal	0.956	4.213	9.34	6.033	3.523	3.53	2.4	4.07
Normal	0.612	3.927	8.775	6.233	3.35	3.203	2.4	10.37
Normal	0.997	5.99	9.91	7.027	3.503	3.507	2.4	13.86
Lo_normal	0.989	5.307	14.353	7.533	4.15	3.083	2.4	8.76
Delayed	0.984	5.343	9.34	7.007	3.383	3.397	7.64	11.367
Ma_delaye	1	6.985	13.107	8.24	4.07	3.25	9.775	4.697
Lo_normal	0.693	2.465	7.573	5.55	2.305	2.44	2.4	11.933
Delayed	1	0.7	6.737	5.753	1.1	2.353	2.4	5.243
Normal	0.885	2.16	7.03	5.97	2.335	2.737	2.4	10.503
Hi_normal	0.556	0.7	8.793	5.377	2.717	2.43	2.4	15.85
Ma_delaye	0.991	3.85	7.323	5.763	3.127	2.7	2.4	3.18
Normal	0.973	3.055	7.197	5.007	2.45	2.563	2.4	12.36
Delayed	0.701	3.557	9.047	6.18	2.943	2.777	2.4	3.51
Hi_normal	0.767	3.357	7.957	6.343	3.055	3.04	2.4	6.203
Lo_normal	0.507	3.19	10.72	6.527	2.853	2.9	2.4	4.807
Lo_normal	0.978	4.54	10.597	6.35	3.15	3.223	6.675	8.347
Normal	0.688	5.297	10.43	6.7	3.957	3.397	8.15	6.527
Normal	0.983	4.633	8.583	6.553	3.397	2.893	2.4	6.05
Normal	0.998	0.7	2.1	1.4	1.1	0.4	2.4	10.787
Delayed	0.689	0.7	8.385	1.4	1.1	0.4	2.4	5.625
Normal	0.995	0.7	6.23	1.4	1.1	0.4	2.4	8.365
Normal	0.959	0.7	2.1	2.91	1.1	0.4	2.4	3.89
Normal	0.972	0.7	2.1	1.4	1.1	0.4	2.4	3.883
Normal	0.871	0.7	5.295	1.4	1.1	0.4	2.4	10.21
Normal	0.995	0.7	6.035	1.4	1.1	0.4	2.4	15.55
Lo_normal	0.97	0.7	5.495	3.185	1.1	0.4	2.4	2.06
Hi_normal	0.753	0.7	5.59	1.4	1.1	0.4	2.4	7.693
Normal	0.998	0.7	6.883	3.365	1.1	0.4	2.4	5.563
Normal	0.998	0.7	7.47	1.4	1.1	0.4	2.4	27.46
Normal	0.997	0.7	2.1	1.4	1.1	0.4	2.4	8.537
Lo_normal	1	0.7	2.1	3.98	1.1	0.4	2.4	6.153
Ma_delaye	1	0.7	2.1	1.4	1.1	0.4	2.4	13.98
Normal	0.58	0.7	6.163	2.98	1.1	0.4	2.4	9.917
Ma_delaye	0.504	0.7	6.67	2.91	1.1	0.4	2.4	4.933
Hi_normal	0.845	0.7	6.425	1.4	1.1	0.4	2.4	6.32
Delayed	0.998	0.7	4.85	3.515	1.1	0.4	2.4	3.8

Normal	0.978	0.7	7.8	4.265	1.1	0.4	2.4	5.24
Ma_delaye	1	0.7	7.405	3.18	1.1	0.4	2.4	13.96
Lo_normal	0.888	0.7	6.817	1.4	1.1	0.4	2.4	43.527
Lo_normal	0.579	0.7	8.127	1.4	1.1	0.4	2.4	31.89
Delayed	1	0.7	7.247	3.65	1.1	0.4	2.4	8.08
Lo_normal	0.998	0.7	5.147	1.4	1.1	0.4	2.4	4.533
Ma_delaye	0.983	2.88	7.577	4.843	1.1	1.927	2.4	9.043
Normal	0.647	0.7	6.58	4.947	1.1	1.78	2.4	7.06
Normal	0.998	2.95	8.093	5.467	1.1	1.887	2.4	16.355
Normal	0.937	3.325	7.857	5.393	1.1	2.003	2.4	12.32
Normal	0.979	1.825	7.835	6.633	1.1	2.08	2.4	9.15
Normal	0.969	3.323	6.293	6.147	1.1	1.847	2.4	32.45
Normal	0.997	5.535	7.78	5.49	1.1	2.47	2.4	20.347
Hi_normal	1	5.01	8.127	5.787	1.1	2.283	2.4	7.587
Lo_normal	0.759	8.035	10.507	6.3	1.1	2.607	2.4	8.727
Normal	0.994	6.03	10.667	8.197	3.495	2.897	6.56	14.707
Delayed	0.998	5.777	9.27	8.217	2.915	2.23	2.4	7.937
Delayed	0.662	7.247	10.943	9.47	2.945	3.087	12.633	47.667
Lo_normal	0.998	0.7	7.493	4.92	1.1	1.86	2.4	5.12
Normal	0.989	0.7	6.533	5.613	1.1	1.767	2.4	22.337
Lo_normal	0.957	0.7	6.857	5.27	1.1	1.793	2.4	17.58
Normal	0.985	0.7	6.515	5.647	1.1	1.953	2.4	9.203
Normal	0.997	3.22	7.057	5.36	1.1	1.967	2.4	6.067
Normal	0.926	3.97	8.097	5.16	1.1	2.103	2.4	8.2
Ma_delaye	0.998	2.62	6.98	4.953	1.1	2.077	2.4	5.74
Lo_normal	0.959	2.255	8.69	6.427	1.1	2.49	12.425	25.767
Hi_normal	0.751	3.23	8.017	5.463	1.1	2.223	2.4	5.3
Lo_normal	0.992	6.857	10.83	7.79	1.1	2.373	7.365	3.693
Normal	0.576	3.457	9.803	6.13	1.1	2.183	2.4	4.98
Normal	0.987	4.663	8.927	6.723	2.625	2.563	2.4	7.007
Delayed	0.852	4.42	2.1	6.14	1.1	2.227	2.4	10.425
Lo_normal	0.974	5.087	2.1	7.89	1.1	1.725	2.4	7.51
Normal	0.789	6.037	7.865	7.563	1.1	2.897	2.4	6.635
Normal	0.999	2.787	2.1	6.533	2.44	1.45	2.4	4.99
Normal	0.969	4.355	2.1	6.38	1.1	1.75	2.4	6.295
Normal	0.949	5.63	2.1	7.337	1.1	2.7	2.4	18.06
Hi_normal	0.993	4.49	2.1	6.723	1.1	2.013	2.4	4.04
Normal	0.899	4.88	2.1	6.767	3.687	3.107	2.4	13.805
Normal	0.997	0.7	11.98	1.4	1.1	0.4	2.4	7.377
Normal	0.992	5.715	6.61	6.913	3.957	3.583	6.347	3.853
Normal	0.992	5.47	2.1	6.41	1.1	2.487	2.4	16.047
Normal	0.981	5.395	2.1	8.153	2.505	3.297	2.4	10.15
Lo_normal	0.876	6.583	6.57	9.827	3.66	4.837	2.4	7.1
Hi_normal	0.706	5.903	6.66	8.797	5.57	5.07	12.263	4.98
Delayed	0.971	0.7	2.1	1.4	1.1	0.4	2.4	7.677
Normal	0.996	0.7	2.1	1.4	1.1	0.4	2.4	7.025
Ma_delaye	1	8	8.83	9.043	2.735	3.6	9.585	17.475
Normal	0.995	0.7	2.1	1.4	1.1	0.4	2.4	5.86
Normal	0.902	0.7	2.1	1.4	1.1	0.4	2.4	5.203
Lo_normal	1	4.027	2.1	6.457	3	1.83	2.4	10.63
Delayed	1	0.7	2.1	1.4	1.1	0.4	2.4	12.25
Delayed	0.805	5.843	7.305	7.28	1.1	3.68	2.4	4.62
Normal	0.935	6.51	9.14	8.233	1.1	3.447	2.4	6.49
Hi_normal	0.847	1.665	2.1	6.22	1.1	0.4	2.4	21.377
Lo_normal	1	0.7	2.1	1.4	1.1	0.4	2.4	4.88
Lo_normal	0.522	0.7	5.17	1.4	1.1	0.4	2.4	6.797

Normal	0.926	3.443	2.1	7.583	2.927	1.885	2.4	7.067
Normal	0.999	6.91	9.135	7.27	4.47	3.54	6.21	4.08
Normal	0.868	2.37	2.1	5.903	2.947	2.477	2.4	4.855
Lo_normal	0.849	5.247	4.45	7.753	1.1	3.013	2.4	9.51
Normal	0.405	4.723	2.1	6.26	1.1	2.513	2.4	4.35
Normal	0.946	5.31	7.865	6.933	3.537	3.203	2.4	7.24
Normal	0.996	0.7	2.1	1.4	1.1	0.4	2.4	7.96
Normal	0.507	7.443	7.965	9.583	3.313	4.79	11.16	8.813
Delayed	0.622	5.497	2.1	6.583	1.1	2.82	2.4	7.86
Lo_normal	0.949	4.747	2.1	6.757	1.1	1.45	2.4	6.05
Normal	0.737	4.387	2.1	6.197	1.1	1.93	2.4	7.195
Normal	0.998	3.8	2.1	6.37	3.823	2.517	2.4	9.703
Normal	0.827	4.41	7.185	6.71	4.28	3.25	9.39	5.833
Normal	0.998	4.553	13.015	7.647	3.97	2.175	7.8	8.033
Normal	0.681	0.7	2.1	1.4	1.1	0.4	2.4	7.313
Normal	0.998	2.383	2.1	6.367	2.65	1.87	2.4	10.77
Normal	0.674	2.89	2.1	6.367	3.177	2.963	2.4	2.41
Lo_normal	0.971	2.565	2.1	7.807	3.313	2.683	2.4	18.377
Normal	0.686	2.943	2.1	7.883	2.815	1.16	2.4	22.015
Ma_delaye	0.926	1.33	2.1	5.31	1.1	0.4	2.4	11.633
Delayed	0.919	0.7	2.1	1.4	1.1	0.4	2.4	5.083
Normal	0.999	0.7	4.66	1.4	1.1	0.4	2.4	4.465
Normal	0.99	5.913	12.32	8.147	4.32	4.19	8.377	7.033
Normal	0.825	6.27	8.245	9.377	5.18	3.355	10.643	8.47
Hi_normal	0.936	2.4	2.1	6.455	1.1	0.4	2.4	10.993
Lo_normal	0.997	2.387	2.1	6.34	3.417	1.53	2.4	11.66
Delayed	1	0.7	2.1	1.4	1.1	0.4	2.4	14.657
Hi_normal	0.504	4.627	2.1	7.407	3.337	2.933	7.145	14.22
Ma_delaye	1	0.7	2.1	1.4	1.1	0.4	136.423	617.16
Normal	0.997	6.867	10.54	8.07	2.175	3.78	2.4	13.615
Normal	0.998	0.7	2.1	1.4	1.1	0.4	2.4	2.015
Normal	0.961	6.335	7.755	7.47	2.24	3.263	2.4	10.755
Normal	0.985	3.053	2.1	6.31	3.033	1.51	2.4	20.39
Lo_normal	1	2.983	2.1	5.903	2.95	1.65	2.4	6.215
Normal	0.932	2.777	6.695	6.683	1.1	1.225	5.29	11.74
Normal	0.947	4.683	2.1	6.467	1.1	1.55	2.4	9.903
Hi_normal	0.976	0.7	2.1	1.4	1.1	0.4	18.33	85.86
Normal	0.949	5.053	5.985	6.47	1.1	2.07	2.4	7.443
Hi_normal	0.972	0.7	2.1	1.4	1.1	0.4	2.4	2.95
Delayed	1	0.7	9.815	1.4	1.1	0.4	2.4	59.537
Ma_delaye	1	0.7	2.1	1.4	1.1	1.61	29.655	17.92
Lo_normal	1	0.7	2.1	1.4	1.1	0.4	2.4	2.3
Ma_delaye	1	0.7	2.1	4.965	1.1	0.4	2.4	16.427
Delayed	0.998	1.865	2.1	5.79	1.1	0.4	2.4	4.995
Normal	0.589	4.775	2.1	6.457	2.923	2.433	2.4	6.42
Lo_normal	0.96	5.607	7.76	7.72	4.407	1.25	10.57	7.21
Lo_normal	0.574	5.163	12.19	7.357	4.763	3.943	7.257	5.073
Normal	0.995	4.273	11.257	5.717	1.1	2.267	2.4	6.557
Normal	0.952	0.7	2.1	1.4	1.1	1.61	2.4	5.96
Normal	0.991	4.483	10.267	5.233	2.467	2.19	2.4	8.197
Hi_normal	1	0.7	2.1	1.4	1.1	0.4	2.4	4.7
Lo_normal	0.724	0.7	2.1	1.4	1.1	0.4	2.4	20.143
Hi_normal	1	0.7	2.1	5.79	1.1	0.4	2.4	9.703
Hi_normal	0.999	0.7	2.1	5.65	1.1	0.4	2.4	14.903
Normal	0.951	0.7	2.1	2.99	1.1	1.773	2.4	19.433
Normal	0.884	4.753	7.155	8.25	2.837	1.16	8.5	4.343

Lo_normal	0.973	0.7	2.1	5.25	1.1	0.4	2.4	6.95
Lo_normal	0.917	0.7	2.1	5.507	1.1	0.4	2.4	19.983
Lo_normal	0.593	7.05	13.2	7.533	3.46	2.777	2.4	5.845
Hi_normal	0.94	2.963	2.1	6.163	2.785	0.4	2.4	9.767
Normal	0.978	0.7	2.1	3.18	1.1	1.687	2.4	9.96
Normal	0.998	0.7	2.1	5.4	1.1	0.4	9.495	7.825
Normal	0.994	4.693	6.135	7.337	2.92	1.413	8.035	9.35
Lo_normal	0.948	0.7	2.1	1.4	1.1	1.627	2.4	5.767
Lo_normal	1	0.7	2.1	5.133	1.1	0.4	2.4	15.237
Delayed	0.623	0.7	2.1	1.4	1.1	1.713	2.4	7.587
Normal	0.768	3.013	2.1	6.09	2.36	0.4	8.4	7.083
Normal	0.89	2.235	2.1	5.843	1.1	0.4	2.4	4.147
Normal	0.966	1.44	2.1	1.4	1.1	1.7	2.4	2.965
Normal	0.643	4.707	9.607	5.02	2.247	2.257	2.4	7.257
Lo_normal	1	0.7	2.1	3.175	1.1	1.733	2.4	10.755
Normal	0.824	6.89	12.98	7.797	3.63	3.02	7.37	22.247
Normal	0.979	3.973	8.91	4.833	2.357	2.313	2.4	8.26
Normal	0.871	4.493	15.2	7.78	2.827	0.4	6.83	20.303
Ma_delaye	0.857	0.7	2.1	2.895	1.1	1.96	2.4	6.537
Lo_normal	0.998	6.82	14.187	7.88	3.9	2.99	7.35	31.233
Normal	0.987	0.7	2.1	1.4	1.1	1.61	2.4	8.37
Normal	0.941	0.7	2.1	1.4	1.1	1.73	2.4	7.065
Lo_normal	0.946	0.7	2.1	1.4	1.1	1.657	2.4	11.523
Lo_normal	0.995	3.543	2.1	7.4	3.103	0.4	9.687	13.313
Lo_normal	0.997	4.597	9.533	4.643	2.925	2.42	2.4	13.1
Hi_normal	0.994	4.343	11	6.007	2.845	2.383	2.4	5.727
Normal	0.86	0.7	2.1	1.4	1.1	1.717	2.4	6.64
Normal	0.963	5.37	9.79	6.22	2.25	2.393	2.4	6.237
Lo_normal	0.939	4.213	7.1	6.46	1.1	2.44	2.4	119.5
Normal	0.998	3.88	7.7	5.417	1.1	2.617	7.65	29.913
Normal	0.509	0.7	2.1	1.4	1.1	1.713	2.4	15.73
Normal	0.984	3.377	5.863	6.77	1.1	2.233	2.4	14.523
Ma_delaye	0.997	3.333	6.297	5.5	1.1	2.307	2.4	13.913
Lo_normal	0.999	0.7	2.1	3.085	1.1	1.99	2.4	5.84
Normal	0.997	0.7	2.1	1.4	1.1	1.64	2.4	5.445
Normal	0.999	3.997	7.03	6.293	2.255	2.39	27.193	90.217
Lo_normal	0.99	5.44	10.853	5.89	3.187	2.45	2.4	9.377
Normal	0.996	5.57	10.853	5.503	3.117	2.66	2.4	9.193
Normal	0.792	4.727	8.983	4.893	1.1	2.157	2.4	4.487
Normal	0.997	3.827	10.633	5.32	2.21	2.267	2.4	12.613
Normal	0.984	0.7	6.327	6.203	1.1	2.34	2.4	14.12
Ma_delaye	1	0.7	2.1	3.51	1.1	1.877	2.4	7.94
Normal	0.961	0.7	5.027	4.75	1.1	2.13	2.4	5.987
Ma_delaye	1	4.507	9.387	4.77	2.203	2.237	2.4	11.967
Normal	0.999	2.673	6.597	4.555	1.1	2.283	2.4	14.26
Hi_normal	0.949	2.92	9.237	5.727	1.1	2.443	2.4	20.4
Delayed	0.998	0.7	2.1	1.4	1.1	1.903	2.4	9.643
Lo_normal	1	0.7	2.1	1.4	1.1	1.873	2.4	9.633
Normal	0.701	2.56	8.247	6.407	1.1	2.373	2.4	7.417
Lo_normal	0.86	0.7	7.173	5.83	1.1	2.357	2.4	13.927
Normal	0.997	3.347	7.173	7.483	1.1	2.51	2.4	62.237
Normal	0.986	2.71	7.13	5.15	1.1	2.263	2.4	14.917
Delayed	0.782	0.7	2.1	3.45	1.1	1.973	2.4	11.105
Hi_normal	0.582	6.607	7.763	8.11	4.147	2.673	9.65	4.523
Hi_normal	0.608	0.7	2.1	1.4	1.1	0.4	2.4	5.323
Lo_normal	0.999	1.983	2.1	5.753	2.9	0.4	2.4	16.68

Lo_normal	1	7.113	13.127	6.41	2.77	2.777	7.59	6.3
Normal	0.999	0.7	2.1	1.4	1.1	0.4	2.4	8.05
Normal	0.975	0.7	7.84	1.4	1.1	0.4	2.4	7.95
Normal	0.666	0.7	6.793	5.845	1.1	2.07	2.4	10.163
Normal	0.991	0.7	8.185	6.913	1.1	2.377	2.4	8.373
Lo_normal	0.488	5.877	12.283	5.587	3.313	2.4	2.4	5.293
Hi_normal	0.916	2.4	33.983	3.43	1.1	1.893	634.447	69.977
Delayed	0.678	0.7	2.1	1.4	1.1	1.713	2.4	12.04
Lo_normal	0.85	0.7	2.1	1.4	1.1	1.61	2.4	18.815
Delayed	0.636	0.7	6.197	5.933	1.1	2.483	2.4	14.257
Normal	0.966	4.75	9.003	5.923	2.355	2.427	2.4	8.163
Normal	0.931	4.143	6.13	6.883	1.1	2.393	2.4	27.697
Normal	0.708	5.127	10.303	5.023	2.757	2.323	2.4	3.833
Lo_normal	0.997	2.027	5.727	4.773	1.1	2.227	6.03	11.75
Lo_normal	1	2.45	7.01	6.757	1.1	2.293	2.4	9.42
Lo_normal	0.866	2.955	6.78	6.27	1.1	2.363	2.4	20.707
Normal	0.997	2.67	7.137	6.097	1.1	2.32	2.4	14.493
Lo_normal	0.588	2.815	10.06	6.793	1.1	2.377	2.4	6.593
Lo_normal	1	2.945	9.145	6.383	1.1	2.403	2.4	5.06
Lo_normal	0.589	6.347	12.723	6.377	3.21	2.757	2.4	5.08
Delayed	0.992	1.49	7.267	5.3	1.1	2.267	2.4	11.333
Normal	0.985	2.397	9.093	7.237	1.1	2.347	2.4	27.76
Normal	0.99	4.723	10.743	4.927	2.243	2.403	2.4	4.783
Lo_normal	0.993	2.165	5.53	4.957	1.1	2.183	2.4	7.14
Ma_delaye	1	2.295	5.763	5.317	1.1	2.237	2.4	5.463
Hi_normal	1	4.615	9.653	7.59	2.345	2.49	2.4	6.17
Hi_normal	0.809	6.013	12.867	6.09	2.673	2.643	2.4	10.363
Normal	0.908	2.813	8.937	5.597	1.1	2.507	2.4	6.577
Normal	0.986	4.91	9.68	6.153	2.23	2.415	2.4	16.145
Lo_normal	0.818	0.7	8.113	5.213	1.1	2.097	2.4	18.16
Normal	0.999	3.613	10.39	6.117	2.325	2.747	2.4	5.49
Normal	0.985	1.805	6.003	5.563	1.1	2.363	2.4	9.31
Normal	0.999	3.99	8.67	6.697	1.1	2.453	2.4	3.253
Normal	0.957	6.237	14.007	7.077	3.03	2.847	7.615	16.437
Delayed	0.991	2.297	6.55	6.46	1.1	2.327	2.4	23.403
Lo_normal	0.972	2.53	6.23	4.87	1.1	2.33	2.4	4.007
Lo_normal	0.999	4.82	8.443	6.503	1.1	2.573	2.4	12.75
Lo_normal	0.996	2.713	5.997	5.6	1.1	2.337	2.4	10.63
Normal	0.995	0.7	6.577	6.22	1.1	1.897	2.4	8.547
Normal	0.975	1.75	6.563	5.697	1.1	2.187	2.4	6.103
Normal	0.939	2.357	5.33	4.777	1.1	2.427	2.4	11.153
Hi_normal	0.616	2.557	7.13	4.87	1.1	2.437	2.4	8.913
Normal	0.998	2.19	7.89	6.633	1.1	2.497	2.4	13.207
Lo_normal	1	0.7	7.203	5.837	1.1	2.46	2.4	15.04
Normal	0.997	2.743	6.43	5.58	1.1	2.167	20.98	39.13
Lo_normal	0.997	2.985	10.96	6.537	1.1	2.427	2.4	11.433
Lo_normal	0.972	0.7	7.65	4.855	1.1	2.2	2.4	10.713
Normal	0.977	0.7	8.447	5.563	1.1	2.33	2.4	12.983
Normal	0.99	2.615	12.96	6.55	1.1	2.33	2.4	65.887
Normal	0.998	2.515	7.627	6.257	1.1	2.45	2.4	11.913
Normal	0.998	0.7	10.47	6.487	2.55	2.78	2.4	3.733
Lo_normal	0.977	2.68	6.877	6.277	1.1	2.4	2.4	7.24
Normal	0.985	2.915	8.21	5.183	1.1	2.273	8.855	11.417
Lo_normal	0.713	0.7	7.053	5.267	1.1	2.437	2.4	17.267
Ma_delaye	0.909	1.84	8.21	6.857	1.1	2.097	2.4	9.215
Normal	0.995	0.7	7.593	5.72	1.1	2.227	2.4	3.467

Normal	0.999	0.7	7.267	7.453	1.1	2.78	2.4	17.87
Normal	0.649	0.7	7.08	6.32	1.1	2.11	2.4	3.767
Normal	0.998	0.7	6.65	5.507	1.1	2.263	2.4	13.277
Hi_normal	0.728	5.19	11.753	7.177	1.1	2.53	2.4	11.893
Normal	0.992	1.905	7.617	6.37	1.1	2.323	2.4	7.593
Hi_normal	0.703	0.7	6.49	6.147	1.1	2.333	2.4	3.293
Delayed	1	0.7	7.017	6.84	1.1	2.04	2.4	4.517
Normal	0.545	1.67	7.35	6.327	1.1	2.175	2.4	4.92
Delayed	0.772	0.7	11.017	6.457	1.1	2.393	2.4	3.145
Normal	0.996	0.7	10.73	6.693	1.1	2.24	2.4	9.573
Lo_normal	1	2.627	12.46	6.163	1.1	2.273	2.4	5.343
Lo_normal	0.515	2.573	7.33	6.743	1.1	2.33	2.4	10.097
Normal	0.981	0.7	8.177	6.2	1.1	2.163	2.4	9.5
Normal	0.944	6.623	12.173	6.525	1.1	2.537	2.4	6.627
Normal	0.881	4.27	8.273	7.567	1.1	2.897	2.4	13.527
Delayed	0.944	2.06	9.247	7.26	2.37	2.417	2.4	6.82
Lo_normal	0.568	2.385	11.193	6.29	1.1	2.28	2.4	8.077
Delayed	0.997	0.7	7.04	5.803	1.1	2.387	6.275	8.71
Normal	0.985	3.47	8.443	6.593	2.3	2.453	2.4	6.613
Hi_normal	0.999	3.81	11.727	7.18	1.1	2.47	2.4	17.55
Normal	0.994	3.677	8.117	7.98	1.1	2.73	2.4	10.037
Delayed	0.997	4.67	9.217	7.177	2.395	2.54	2.4	10.957
Lo_normal	0.999	3.725	13.517	6.8	1.1	2.437	23.117	52.39
Lo_normal	0.941	0.7	10.015	6.913	1.1	2.19	2.4	4.72
Normal	0.982	0.7	10.72	5.517	1.1	2.277	2.4	5.287
Delayed	1	3.36	10.26	6.42	1.1	2.497	2.4	8.633
Normal	0.992	0.7	8.307	6.06	2.243	2.49	2.4	5.78
Normal	0.995	4.907	11.073	6.683	1.1	2.263	2.4	16.577
Lo_normal	0.972	0.7	7.427	6.49	1.1	2.387	2.4	8.52
Lo_normal	0.974	0.7	10.927	5.62	1.1	2.1	2.4	5.85
Normal	0.916	4.4	11.755	6.25	1.1	2.44	2.4	7.925
Lo_normal	0.607	2	7.52	6.983	1.1	2.19	2.4	3.387
Normal	0.971	0.7	11.787	7.47	1.1	2.373	2.4	13
Normal	0.882	1.915	10.083	6.107	1.1	2.213	2.4	7.637
Normal	0.931	2.515	8.277	5.033	1.1	1.603	2.4	4.25
Lo_normal	0.998	0.7	8.41	6.507	2.467	2.423	7.71	29.063
Lo_normal	1	0.7	9.387	5.643	1.1	2.343	2.4	4.683
Normal	0.825	3.657	10.847	5.983	1.1	2.273	2.4	5.43
Hi_normal	0.998	3.665	9.97	7.34	1.1	2.717	2.4	10.477
Normal	0.74	4.425	12.08	5.825	1.1	2.39	2.4	12.173
Hi_normal	0.999	2.78	9.007	6.573	1.1	2.627	2.4	10.48
Normal	0.907	0.7	12.573	5.39	1.1	2.13	2.4	3.61
Hi_normal	1	0.7	6.923	6.697	1.1	2.32	2.4	4.22
Normal	0.809	0.7	11.487	6.07	1.1	2.287	2.4	4.96
Normal	0.794	4.74	7.1	6.27	2.563	2.083	2.4	13.97
Ma_delaye	1	0.7	8.907	6.323	1.1	2.343	5.12	14.857
Lo_normal	0.85	0.7	10.9	5.617	1.1	2.343	2.4	6.353
Normal	0.964	4.063	12.633	5.897	1.1	2.387	2.4	12.867
Hi_normal	0.954	0.7	11.077	5.67	1.1	2.333	2.4	11.547
Hi_normal	0.866	3.093	10.037	5.987	1.1	2.223	2.4	13.927
Normal	0.966	3.135	9.797	6.59	1.1	2.563	7.02	20.143
Ma_delaye	0.858	2.88	10.557	5.6	1.1	2.563	2.4	2.75
Normal	0.824	5.45	7.357	6.923	2.843	2.057	2.4	4.223
Normal	0.997	4.25	12.373	7.317	1.1	2.353	2.4	5.495
Lo_normal	0.999	0.7	11.163	5.843	1.1	2.223	2.4	3.48
Lo_normal	0.972	3.25	10.485	6.07	1.1	2.593	2.4	11.58

Normal	0.574	0.7	7.02	5.297	1.1	2.313	2.4	24.647
Ma_delaye	1	0.7	7.613	6.113	1.1	2.123	2.4	17.44
Normal	0.371	0.7	6.757	5.807	1.1	2.19	2.4	8.243
Normal	0.603	5.083	12.277	6.977	1.1	2.37	2.4	3.365
Normal	0.998	3.885	13.543	6.557	1.1	2.393	2.4	7.325
Normal	0.996	0.7	6.787	5.27	1.1	2.357	2.4	17.373
Lo_normal	0.991	0.7	8.277	5.377	1.1	2.2	5.53	10.723
Lo_normal	1	0.7	8.707	5.403	1.1	2.497	2.4	11.107
Lo_normal	0.488	0.7	10.55	6.68	1.1	2.343	2.4	5.297
Normal	0.96	3.5	11.917	6.303	1.1	2.143	2.4	3.54
Normal	0.999	1.97	5.02	5.403	1.1	1.327	2.4	24.38
Normal	0.955	6.13	9.033	8.427	2.763	2.357	7.957	24.823
Normal	0.989	4.423	7.43	5.457	1.1	2.12	2.4	16.337
Lo_normal	0.626	0.7	7.45	5.763	1.1	2.317	2.4	8.727
Normal	0.987	2.38	7.22	5.187	1.1	1.39	2.4	3.78
Normal	0.816	0.7	8.443	5.883	1.1	2.24	2.4	6.337
Normal	0.968	2.17	9.03	6.497	1.1	2.28	2.4	7.127
Normal	0.953	0.7	11.863	5.54	1.1	2.283	6.55	5.69
Normal	0.978	5.48	7.64	7.253	2.6	2.107	5.735	19.21
Lo_normal	0.598	0.7	10.547	6.043	1.1	2.17	2.4	10.627
Normal	0.992	0.7	10.257	5.58	1.1	2.173	2.4	8.587
Lo_normal	0.999	4.033	8.277	5.85	1.1	2.07	2.4	8.417
Normal	0.995	2.035	2.1	1.4	1.1	2.48	2.4	24.683
Normal	0.991	0.7	11.637	5.493	1.1	2.337	2.4	5.427
Normal	0.994	4.34	10.28	7.16	1.1	2.283	2.4	5.02
Normal	0.996	4.087	8.69	5.037	1.1	2.237	2.4	7.915
Lo_normal	0.76	3.035	5.827	5.73	1.1	1.22	2.4	10.783
Normal	0.998	4.48	14.46	6.917	2.745	2.43	7.96	5.403
Hi_normal	1	2.21	5.263	5.393	1.1	1.463	2.4	33.25
Delayed	0.964	6.41	10.925	7.37	1.1	2.537	2.4	4.055
Hi_normal	0.978	3.103	6.673	5.1	1.1	1.667	2.4	6.81
Normal	0.99	3.235	6.435	6.337	1.1	1.687	2.4	8.483
Normal	0.957	4.013	13.257	6.59	1.1	2.393	2.4	9.593
Normal	0.998	7.693	10.54	7.237	1.1	2.577	2.4	6.3
Normal	0.888	4.77	2.1	1.4	3.1	3.493	45.003	35.447
Hi_normal	1	4.547	8.42	5.723	2.63	2.44	2.4	8.04
Normal	0.999	4.175	8.127	7.033	2.245	2.593	2.4	5.987
Normal	0.956	3.737	11.103	5.66	1.1	2.24	2.4	10.95
Lo_normal	1	6.773	11.643	7.02	1.1	2.53	5.48	6.503
Normal	0.975	2.07	4.67	5.523	1.1	1.37	2.4	6.88
Lo_normal	0.989	3.797	11.46	6.187	1.1	2.217	2.4	8.13
Normal	0.919	4.16	2.1	1.4	1.1	2.423	2.4	5.083
Normal	0.97	5.947	8.945	7.023	2.805	2.48	2.4	10.01
Hi_normal	0.998	4.547	8.403	6.165	1.1	1.553	2.4	12.53
Normal	0.81	3.53	2.1	1.4	2.65	3.087	8.635	14.953
Normal	0.597	6.907	13.92	9.023	3.275	2.82	8.427	9.617
Lo_normal	0.999	3.56	6.55	5.22	1.1	1.507	2.4	6.27
Lo_normal	0.711	5.063	8.033	6.527	1.1	3.15	2.4	16.013
Lo_normal	0.707	0.7	10.223	5.643	1.1	2.147	2.4	16.12
Delayed	0.825	8.053	13.103	8.67	3.755	3.56	146.377	85.353
Normal	0.862	3.505	12.083	6.437	1.1	2.213	2.4	12.347
Normal	0.995	4.507	7.38	5.983	1.1	1.93	2.4	4.597
Normal	0.922	5.89	7.093	6.33	3.267	4.077	2.4	9.39
Normal	0.928	4.633	11.477	6.07	1.1	1.98	15.16	44.797
Lo_normal	0.684	2.245	2.1	1.4	1.1	2.77	2.4	3.457
Delayed	0.98	5.873	11.1	6.81	2.807	2.44	7.35	7.283

Normal	0.997	6.197	13.49	8.913	2.983	2.97	12.27	30.393
Hi_normal	0.993	5.23	8.423	5.875	1.1	2.037	2.4	5.863
Lo_normal	0.979	3.04	2.1	5.723	1.1	2.263	2.4	5.087
Lo_normal	0.728	4	9.267	6.22	1.1	2.1	2.4	12.823
Normal	0.995	5.047	2.1	6.94	2.887	3.25	6.54	5.09
Delayed	0.928	4.935	11.95	6.553	1.1	2.427	2.4	8.997
Delayed	0.998	4.237	12.307	6.327	1.1	2.387	2.4	9.037
Lo_normal	0.532	6.243	12.943	7.64	2.403	2.663	5.5	7.085
Lo_normal	0.712	6.313	11.455	8.56	2.693	2.323	5.995	11.277
Normal	0.83	6.293	10.12	7.573	1.1	2.503	2.4	6.767
Delayed	0.982	5.403	9.76	6.703	2.507	2.583	2.4	6.597
Delayed	0.581	2.815	2.1	1.4	1.1	2.977	2.4	7.095
Lo_normal	0.656	3.63	2.1	1.4	1.1	3.197	2.4	21.47
Normal	0.847	3.673	6.717	5.72	1.1	1.61	2.4	8.135
Delayed	0.974	3.84	11.14	6.533	1.1	2.377	253.043	30.877
Normal	0.985	6.173	2.1	6.44	3.08	2.963	2.4	3.79
Hi_normal	0.999	6.943	13.773	9.82	3.617	3.047	6.997	11.477
Delayed	0.963	5.93	9.837	6.16	1.1	1.757	2.4	8.205
Normal	0.999	5.383	8.473	6.527	1.1	2.12	2.4	12.015
Ma_delaye	1	3.53	7.48	5.67	1.1	2.117	2.4	8.003
Normal	0.998	4.843	8.423	5.913	1.1	2	2.4	26.47
Normal	0.986	4.023	9.12	5.913	1.1	2.06	2.4	6.357
Normal	0.998	4.717	11.87	5.907	1.1	2.05	2.4	18.59
Delayed	0.977	2.54	2.1	5.83	1.1	2.897	2.4	11.03
Hi_normal	0.95	2.105	2.1	1.4	1.1	2.49	2.4	4.965
Normal	0.705	5.637	13.173	7.283	1.1	2.273	2.4	6.965
Normal	0.887	4.79	8.473	5.723	1.1	2.06	2.4	3.99
Normal	0.763	2.705	2.1	1.4	1.1	2.743	2.4	4.47
Hi_normal	0.949	2.38	5.503	6.043	1.1	1.463	2.4	16.907
Normal	0.992	4.85	2.1	5.697	2.95	2.773	2.4	12.81
Normal	0.995	3.235	5.463	5.153	1.1	1.28	2.4	25.13
Normal	0.979	6.033	10.94	7.323	2.765	2.323	2.4	39.7
Normal	0.968	5.923	5.295	7.02	2.667	4.083	9	8.16
Normal	0.997	0.7	7.483	5.077	1.1	2.23	2.4	11.407
Lo_normal	1	1.84	7.707	6.79	1.1	2.08	2.4	4.367
Lo_normal	0.984	6.57	10.65	7.46	1.1	2.25	2.4	12.03
Normal	0.984	5.135	9.587	6.487	1.1	1.867	2.4	7.247
Delayed	0.999	3.817	8.777	6.463	1.1	2.28	2.4	3.98
Normal	0.742	4.35	7.92	6.867	1.1	1.89	2.4	5.447
Hi_normal	0.967	5.337	12.493	7.053	2.25	3.04	5.77	11.983
Normal	0.984	4.033	2.1	3.83	1.1	3.003	2.4	3.933
Normal	0.959	4.395	2.1	5.75	2.64	2.183	2.4	10.575
Hi_normal	0.987	3.13	2.1	5.5	1.1	1.98	2.4	21.783
Normal	0.952	5.847	10.685	7.915	3.375	3.173	2.4	4.5
Normal	0.999	6.22	2.1	4.235	2.985	3.697	2.4	9.627
Normal	0.665	3.547	9.873	6.343	1.1	2.26	2.4	2.515
Normal	0.738	2.955	2.1	1.4	1.1	2.673	2.4	6.745
Hi_normal	0.683	6.097	2.1	6.697	2.77	2.9	10.43	5.873
Delayed	0.999	4.867	7.565	6.443	1.1	1.753	2.4	6.667
Lo_normal	0.977	3.013	2.1	1.4	1.1	2.647	2.4	5.567
Normal	0.821	6.76	9.473	7.35	3.02	2.197	2.4	6.143
Delayed	0.832	3.83	2.1	1.4	2.535	2.913	2.4	6.19
Normal	0.889	5.25	2.1	4.673	2.61	3.453	2.4	5.307
Normal	0.728	3.617	2.1	5.967	2.31	2.193	2.4	2.52
Normal	0.851	4.953	9.267	6.673	2.335	2.13	2.4	4.283
Lo_normal	0.902	3.547	2.1	3.625	2.485	3.1	137.387	75.307

Normal	0.563	5.053	2.1	6.037	2.875	2.49	2.4	10.5
Normal	0.923	2.345	5.04	4.883	1.1	1.357	2.4	16.957
Lo_normal	0.593	3.803	10.033	5.867	1.1	2.343	2.4	50.947
Lo_normal	0.937	2.99	2.1	5.38	2.225	2.193	2.4	7.903
Hi_normal	1	6.217	6.395	6.88	2.87	2.883	9.7	3.605
Normal	0.588	3.283	7.22	3.84	1.1	2.027	2.4	4.933
Lo_normal	0.961	2.9	2.1	5.087	1.1	2.313	2.4	11.16
Hi_normal	1	5.853	10.643	6.93	2.917	2.967	2.4	30.717
Hi_normal	0.736	4.687	10.8	6.29	1.1	2.017	9.09	6.62
Delayed	1	4.143	13.14	6.36	1.1	2.155	2.4	6.3
Delayed	0.961	3.537	6.157	3.56	1.1	2.063	2.4	15.173
Hi_normal	1	4.297	10.357	6.203	1.1	1.683	161.033	53.697
Hi_normal	0.63	7.143	11.573	8.507	1.1	2.325	6.64	14.437
Lo_normal	0.763	4.41	7.253	6.533	1.1	1.683	2.4	16.007
Normal	0.998	3.82	6.745	3.747	1.1	2.303	2.4	12.877
Normal	0.51	8.043	12.487	9.617	3.697	3.183	11.233	6.797
Hi_normal	0.924	4.157	2.1	6.017	2.395	2.193	2.4	9.23
Normal	0.988	5.877	10.51	7.88	1.1	2.21	2.4	5.74
Delayed	1	6.83	13.553	7.77	3.027	3.293	12.09	59.397
Lo_normal	0.999	3.5	2.1	5.26	1.1	1.88	2.4	5.767
Normal	0.988	3.257	7.123	4.633	1.1	2.163	2.4	5.985
Normal	0.996	4.293	2.1	5.137	2.26	2.29	2.4	4.31
Delayed	0.998	3.977	2.1	5.357	2.19	2.36	2.4	4.86
Normal	0.977	2.935	9.14	6.513	1.1	2.207	2.4	2.92
Normal	0.974	3.235	9.57	4.675	1.1	2.2	11.16	25.53
Hi_normal	0.984	4.213	6.033	4.043	1.1	1.787	2.4	26.26
Normal	0.972	3.177	2.1	5.673	1.1	2.25	2.4	6.255
Normal	0.981	2.753	7.34	4.08	1.1	2.013	2.4	3.863
Lo_normal	0.658	6.477	2.1	6.747	3.217	2.743	10.015	4.693
Normal	0.999	7.613	12.563	10.18	1.1	2.453	8.63	5.105
Hi_normal	0.999	6.417	14.23	7.8	3.09	3.703	6.755	10.637
Normal	0.955	3.195	7.003	4.913	1.1	2.113	2.4	8.74
Normal	0.999	6.13	13.453	6.837	2.427	2.547	6.913	8.213
Lo_normal	1	3.153	7.885	4.677	1.1	2.183	2.4	2.787
Normal	0.983	5.24	2.1	6.933	3.117	2.57	2.4	6.457
Normal	0.953	2.74	2.1	5.69	2.183	2.193	2.4	22.877
Ma_delaye	0.981	2.67	6.003	5.533	1.1	1.997	2.4	6.117
Hi_normal	1	6.127	11.053	8.41	1.1	2.657	48.943	30.293
Delayed	0.796	7.297	2.1	7.61	3.245	2.837	10.105	5.67
Hi_normal	0.927	3.597	2.1	5.773	1.1	2.287	2.4	9.783
Normal	0.997	5.49	10.12	7.053	1.1	2.55	2.4	3.747
Normal	0.996	7.443	12.125	8.577	3.35	2.89	7.72	8.923
Delayed	0.995	0.7	5.413	5.48	1.1	2.17	2.4	6.803
Normal	0.983	7.19	13.18	7.84	3.11	3.11	6.53	10.98
Normal	0.978	5.26	2.1	6.653	2.755	2.747	8.69	8.683
Normal	0.697	7.68	12.223	9.085	3.43	2.807	7.035	14.137
Normal	0.898	4.473	8.243	5.163	2.4	2.367	2.4	4.53
Normal	0.835	3.317	7.94	4.277	1.1	1.997	2.4	3.585
Delayed	0.535	3.757	7.187	5.37	1.1	2.057	2.4	6.893
Lo_normal	0.513	3.31	6.367	5.107	1.1	2.06	2.4	13.55
Normal	0.573	3.237	6.643	3.623	1.1	1.853	2.4	10.203
Delayed	0.954	2.04	4.65	4.81	1.1	1.78	2.4	11.613
Normal	0.954	3.01	11.133	6.857	2.375	2.27	2.4	29.287
Hi_normal	0.839	3.16	4.923	5.093	1.1	1.8	2.4	8.48
Normal	0.973	3.57	6.34	4.3	2.235	2.037	2.4	12.203
Lo_normal	0.797	4.44	9.303	7.007	1.1	2.333	2.4	13.073

Lo_normal	0.998	4.183	9.51	7.19	1.1	2.57	2.4	13.44
Hi_normal	0.993	6.92	7.33	6.365	1.1	2.253	2.4	9.743
Normal	0.995	6.19	7.723	4.53	2.31	2.193	2.4	12.167
Hi_normal	1	7.6	15.833	7.617	2.983	3.28	8.395	6.07
Lo_normal	1	3.36	6.173	5.48	1.1	2.087	2.4	6.695
Normal	0.797	2.8	6.82	7.003	1.1	2.2	2.4	9.717
Hi_normal	0.591	4.913	2.1	5.867	2.563	2.39	2.4	5.453
Hi_normal	0.941	4.143	9.39	6.217	1.1	2.453	2.4	8.335
Lo_normal	0.86	0.7	6.57	6.01	1.1	2.193	2.4	15.503
Normal	0.809	3.987	6.91	3.307	1.1	2.01	2.4	10.31
Lo_normal	0.97	4.65	6.703	3.373	1.1	2.11	2.4	7.39
Hi_normal	0.984	3.36	6.653	4.107	1.1	2.113	2.4	17.057
Delayed	0.985	3.753	7.37	3.777	1.1	1.86	2.4	12.097
Normal	0.923	4.44	9.957	6.787	1.1	2.52	2.4	4.053
Lo_normal	0.899	2.36	5.105	4.897	1.1	1.637	2.4	11.89
Lo_normal	1	3.77	6.47	3.86	1.1	2.23	2.4	10.827
Normal	0.982	3.773	5.565	4.903	1.1	2.047	2.4	9.335
Hi_normal	0.997	3.115	5.553	6.087	1.1	2.333	2.4	5.24
Hi_normal	0.678	5.723	8.037	4.547	2.26	2.257	2.4	8.537
Delayed	1	4.095	6.313	6.893	1.1	2.13	2.4	9.737
Hi_normal	0.88	3.72	6.083	3.33	2.315	2.113	2.4	5.615
Normal	0.939	3.237	7.31	4.45	1.1	1.983	2.4	8.207
Lo_normal	0.892	3.163	5.77	5.08	1.1	1.813	2.4	4.8
Lo_normal	0.999	7.267	11.25	7.87	3.55	2.827	10.445	5.103
Delayed	0.971	4.28	7.09	4.207	2.235	2.387	6.225	61.37
Hi_normal	1	4.453	9.63	6.437	2.54	2.423	2.4	9.85
Lo_normal	0.999	4.763	10.24	7.007	1.1	2.563	5.56	10.37
Lo_normal	0.996	2.255	7.047	6.927	1.1	2.143	2.4	13.703
Normal	0.988	0.7	7.18	6.48	1.1	2.4	2.4	13.383
Delayed	1	2.78	6.857	3.62	1.1	1.967	2.4	17.35
Delayed	1	2.55	6.793	4.157	1.1	1.997	2.4	6.727
Hi_normal	0.725	0.7	4.84	6.07	1.1	2.643	2.4	6.445
Delayed	0.957	4.967	7.6	4.113	2.26	2.25	2.4	20.237
Lo_normal	1	2.447	4.745	4.877	1.1	1.927	2.4	18.82
Normal	0.966	3.263	7.76	4.733	1.1	2.01	2.4	5.35
Normal	0.872	3.395	12.62	5.283	1.1	2.223	2.4	5.99
Normal	0.996	2.845	6.03	6.01	1.1	2.453	2.4	15.573
Lo_normal	0.982	4.617	9.57	3.62	1.1	2.073	29.4	62.733
Normal	0.644	5.43	7.395	5.7	1.1	1.983	2.4	8.867
Lo_normal	1	0.7	7.917	6.59	1.1	2.1	2.4	3.36
Delayed	0.997	6.76	8.175	6.71	2.46	2.353	2.4	6.833
Hi_normal	1	4.66	6.627	3.33	1.1	1.89	2.4	24.893
Hi_normal	0.982	2.26	5.413	5.94	1.1	2.013	2.4	8.957
Delayed	1	2.27	2.1	4.523	1.1	1.793	2.4	11.813
Normal	0.999	2.077	5.24	4.967	1.1	1.747	2.4	18.74
Delayed	0.777	3.465	5.71	6.383	1.1	1.847	2.4	5.965
Normal	0.949	2.175	2.1	4.933	1.1	1.773	2.4	4.037
Normal	0.955	5.74	7.167	3.387	1.1	2.52	2.4	12.493
Normal	0.999	3.953	6.443	3.533	1.1	2.05	2.4	5.7
Delayed	0.996	0.7	7.523	5.64	1.1	2.1	2.4	11.437
Delayed	1	5.733	7.5	3.85	2.31	2.45	2.4	6.813
Ma_delaye	0.636	3.29	6.147	6.093	1.1	2.247	2.4	24.607
Normal	0.998	0.7	6.71	5.88	1.1	2.487	2.4	7.727
Normal	0.963	4.49	2.1	1.4	2.605	3.197	2.4	5.633
Normal	0.977	0.7	7.337	6.513	1.1	2.663	2.4	14.147
Normal	0.991	4.913	8.733	6.535	1.1	1.92	2.4	7.783

Normal	0.995	3.357	8.897	6.463	1.1	2.073	2.4	4.025
Hi_normal	0.899	0.7	9.83	6.457	1.1	2.89	2.4	8.827
Normal	0.523	0.7	7.577	6.2	1.1	2.27	2.4	7.125
Hi_normal	0.959	5.415	6.275	6.167	1.1	2.033	2.4	10.99
Hi_normal	0.8	3.06	6.72	5.613	1.1	1.927	2.4	14.463
Hi_normal	1	0.7	7.12	6.157	1.1	2.137	2.4	7.73
Hi_normal	1	4.12	5.515	5.55	1.1	1.803	2.4	3.775
Normal	0.579	2.025	6.263	5.47	1.1	1.98	2.4	13.817
Normal	0.544	2.4	5.285	4.29	1.1	1.757	2.4	16.423
Normal	0.995	1.89	2.1	5.277	1.1	1.803	2.4	15.583
Normal	0.861	3.15	5.685	5.547	1.1	2.133	2.4	10.917
Normal	0.997	4.517	9.287	3.897	2.213	2.213	2.4	9.353
Delayed	0.999	4.975	6.71	6.16	1.1	2.19	2.4	2.59
Delayed	0.856	4.02	6.19	3.457	1.1	2.067	2.4	4.295
Normal	0.993	4.523	7.12	6.693	1.1	1.877	2.4	15.62
Delayed	0.877	2.497	5.42	4.74	1.1	1.863	2.4	31.863
Delayed	0.508	2.633	2.1	4.97	1.1	1.82	2.4	8.28
Lo_normal	0.586	2.575	6.257	5.78	1.1	2.27	2.4	5.695
Delayed	0.548	0.7	8.683	5.84	1.1	2.803	2.4	5.2
Normal	0.5	0.7	7.86	6.283	2.565	2.68	2.4	11.193
Normal	0.736	3.067	7.213	3.827	1.1	2.02	2.4	6.897
Lo_normal	0.976	6.99	10.617	9.43	1.1	3.013	7.035	10.637
Ma_delaye	0.885	3.545	8.157	6.55	2.505	2.46	2.4	6.97
Hi_normal	0.781	1.927	2.1	4.427	1.1	1.787	2.4	5.663
Normal	0.641	0.7	7.213	6.19	1.1	2.297	2.4	6.637
Normal	0.509	2.393	6.423	5.57	1.1	1.78	2.4	10.703
Delayed	0.679	4.81	6.68	3.665	2.26	1.98	2.4	13.377
Delayed	0.686	0.7	5.69	5.78	1.1	2.425	2.4	4.7
Normal	0.902	5.517	6.933	3.767	1.1	2.213	2.4	6.13
Hi_normal	0.951	2.755	5.473	5.54	1.1	2.143	2.4	3.103
Normal	0.71	3.365	6.477	6.953	2.21	2.68	2.4	4.013
Normal	0.969	5.603	11.68	6.987	2.7	2.287	2.4	3.783
Normal	0.869	4.337	2.1	4.605	1.1	3.363	8.113	22.27
Lo_normal	0.541	6.125	8.033	6.897	1.1	2.06	2.4	15.207
Normal	0.602	0.7	6.063	5.63	1.1	2.43	2.4	2.885
Normal	0.769	1.935	5.837	5.543	1.1	2.037	2.4	12.557
Delayed	0.499	1.645	35.513	5.905	1.1	2.047	1240.67	724.563
Lo_normal	0.894	1.54	9.55	6.21	1.1	2.413	2.4	3.893
Normal	0.841	3.5	6.185	5.55	1.1	1.997	2.4	5.693
Hi_normal	0.801	3.39	7.13	4.383	1.1	2.007	2.4	5.78
Normal	0.81	0.7	6.007	5.64	1.1	2.14	2.4	3.55

IL-10	IL-12p70	IL-13	IL-15	IL-17	IL-23	IFN- γ	TNF- α	TNF- β
10.375	2.583	2.38	1.7	1.4	23.533	4	6.195	1.6
3.97	2.7	0.7	1.7	1.4	25.3	4	3.975	1.6
3.94	2.89	2.25	3.885	1.4	23.217	4	13.15	4.29
1.8	2.76	2.19	1.7	1.4	22.907	4	10.817	1.6
1.8	2.853	0.7	1.7	1.4	27.47	4	2.14	4.23
3.885	2.897	0.7	1.7	1.4	24.687	4	7.11	4.2
4.103	3.19	0.7	1.7	1.4	27.07	9.71	15.57	5.215
1.8	3.183	1.77	1.7	1.4	25.83	4	10.355	3.363
1.8	3.387	3.675	3.515	1.4	25.205	4	13.64	5.453
1.8	2.973	0.7	1.7	1.4	22.693	4	7.575	1.6
4.003	3.19	2.425	1.7	1.4	29.527	10.54	6.135	5.1
4.393	3.417	4.255	1.7	1.4	29.017	4	11.48	6.055
3.967	3.353	4.417	1.7	1.4	29.3	4	14.42	5.007
1.8	2.757	0.7	4.53	1.4	23.433	4	7.265	1.6
1.8	3.18	1.99	1.7	1.4	23.223	4	4.77	1.6
1.8	2.84	2.475	1.7	1.4	23.743	4	7.61	1.6
1.8	2.777	2.08	1.7	1.4	23.213	4	7.523	1.6
7.3	2.79	0.7	1.7	1.4	23.113	4	9.103	1.6
4.163	2.97	3.057	1.7	1.4	25.613	4	4.37	1.6
4.163	3.287	1.86	4.89	1.4	25.72	4	13.62	1.6
8.04	3.13	1.947	1.7	1.4	25.823	4	5.18	4.04
1.8	3.17	2.355	1.7	1.4	29.56	4	6.66	4.035
1.8	3.213	2.255	1.7	1.4	27.57	4	6.27	3.753
7.805	3.127	2.677	1.7	1.4	28.1	4	0.2	3.785
1.8	1.2	0.7	1.7	1.4	5	4	6.59	1.6
1.8	1.2	0.7	1.7	1.4	10.75	4	5.673	1.6
1.8	1.2	0.7	1.7	1.4	5	8.73	4.893	1.6
1.8	1.2	0.7	1.7	1.4	5	4	9.447	1.6
1.8	1.2	0.7	1.7	1.4	5	4	5.615	1.6
1.8	1.2	0.7	1.7	1.4	12.975	4	4.715	1.6
1.8	1.2	0.7	1.7	1.4	5	4	7.125	1.6
1.8	1.2	0.7	1.7	1.4	5	4	3.25	1.6
1.8	1.2	0.7	1.7	1.4	11.685	4	3.52	1.6
1.8	1.2	0.7	1.7	1.4	5	4	4.99	1.6
42.953	1.2	0.7	1.7	1.4	5	10.13	0.2	1.6
1.8	1.2	0.7	1.7	1.4	5	4	8.117	1.6
1.8	1.2	1.6	4.265	1.4	5	4	5.867	1.6
1.8	1.2	0.7	1.7	1.4	5	4	0.2	1.6
7.57	1.2	0.7	1.7	1.4	5	4	3.285	1.6
1.8	1.2	0.7	1.7	1.4	5	4	4.557	1.6
4.237	1.2	0.7	1.7	1.4	5	4	3.785	1.6
4.293	1.2	0.7	1.7	1.4	10.94	4	4.695	1.6
3.885	1.2	0.7	3.68	1.4	5	4	3.555	1.6
1.8	1.2	0.7	1.7	1.4	5	4	4.927	1.6
1.8	1.2	0.7	1.7	1.4	5	4	1.17	1.6
4.393	1.2	0.7	1.7	1.4	5	4	2.517	1.6
1.8	1.2	0.7	5.21	1.4	5	4	8.8	1.6
4.273	1.2	2.167	1.7	1.4	22.037	4	10.255	1.6
1.8	1.2	2.067	1.7	1.4	21.853	4	6.345	1.6
7.29	1.2	2.05	1.7	1.4	21.2	9.385	10.97	1.6
1.8	1.2	2.275	1.7	1.4	22.04	4	11.575	1.6
1.8	1.2	1.6	1.7	1.4	22.133	4	5.065	1.6
1.8	1.2	1.733	1.7	1.4	21.76	4	7.54	1.6
1.8	1.2	1.9	1.7	1.4	21.667	4	7.14	1.6
4.425	1.2	1.867	1.7	1.4	22.133	4	12.555	1.6

4.34	1.2	2.463	1.7	1.4	25.257	4	11.31	1.6
1.8	1.2	2.615	1.7	1.4	22.687	4	6.27	1.6
1.8	1.2	1.667	1.7	1.4	21.947	4	12.62	1.6
1.8	1.2	2.1	1.7	1.4	24.803	4	3.45	1.6
1.8	1.2	1.883	1.7	1.4	22.037	4	10.05	1.6
1.8	1.2	1.725	1.7	1.4	21.85	4	2.93	1.6
1.8	1.2	1.867	1.7	1.4	21.48	4	6.815	1.6
1.8	1.2	2.167	1.7	1.4	21.387	4	11.08	1.6
1.8	1.2	1.975	1.7	1.4	21.387	4	9.68	1.6
1.8	1.2	1.75	1.7	1.4	21.2	4	11.653	1.6
1.8	1.2	1.85	1.7	1.4	21.853	4	8.697	1.6
29.783	1.2	1.9	1.7	1.4	23.15	4	14.71	1.6
1.8	1.2	1.775	1.7	1.4	21.667	4	6.19	1.6
1.8	1.2	2.445	1.7	1.4	21.947	4	4.76	1.6
1.8	2.405	2.667	1.7	1.4	19.4	4	5.315	3.875
6.06	2.98	2.327	1.7	1.4	22.53	4	4.78	4.38
1.8	2.735	2.67	1.7	1.4	21.137	4	6.48	3.905
1.8	3.023	2.815	1.7	1.4	22.22	4	5.355	4.073
1.8	2.857	3.05	1.7	1.4	22.65	4	6.84	4.98
1.8	3.017	3.187	1.7	1.4	22.543	4	9.36	5.71
1.8	3.16	3.313	3.975	1.4	24.727	4	11.643	4.66
1.8	2.963	4.273	3.625	1.4	27.593	8.865	14.26	6.253
1.8	3.12	3.643	1.7	1.4	26.353	4	8.485	6.297
4.12	3.483	4.49	1.7	1.4	27.41	8.45	9.445	6.927
1.8	3.487	4.13	4.27	1.4	28.77	10.625	12.237	6.837
8.08	3.69	4.93	4.913	1.4	24.89	15.69	14.47	6.943
5.66	2.583	2.71	1.7	1.4	23.36	4	7.383	3.685
1.8	2.52	2.907	1.7	1.4	18.74	4	5.1	3.365
1.8	2.69	2.88	1.7	1.4	18.63	4	7.51	5.605
29.413	2.603	2.735	1.7	1.4	19.73	4	4.9	3.525
1.8	2.717	3.12	1.7	1.4	19.4	4	8.33	3.757
1.8	2.77	2.71	1.7	1.4	21.653	4	10.68	3.547
1.8	3.093	4.3	1.7	1.4	24.257	4	4.917	4.2
4.223	3.013	3.113	4.7	1.4	26.155	4	12.507	4.267
1.8	3.163	3.45	1.7	1.4	23.823	4	9.017	4.19
1.8	3.587	4.367	3.777	1.4	27.097	4	11.483	5.147
1.8	4.41	4.217	1.7	1.4	25.513	4	9.627	5.897
1.8	3.497	4.043	1.7	1.4	27.92	4	10.64	5.273
1.8	1.2	0.7	3.955	1.4	17.22	4	11.183	1.6
1.8	1.2	0.7	4.15	1.4	17.293	4	8.52	1.6
1.8	2.69	0.7	1.7	1.4	18.123	4	5.775	6.67
11.173	2.88	0.7	1.7	1.4	17.52	4	7.3	1.6
3.96	1.2	0.7	1.7	1.4	17.22	8.37	10.033	3.245
4.917	2.777	0.7	1.7	1.4	18.953	4	7.935	1.6
5.923	1.2	0.7	1.7	1.4	17.37	4	6.637	1.6
4.807	2.825	0.7	1.7	1.4	18.05	4	7.15	4.865
4.345	1.2	0.7	1.7	1.4	17.747	4	7.02	1.6
5.21	3.063	0.7	1.7	1.4	17.747	9.725	12.055	1.6
5.21	2.94	0.7	1.7	1.4	17.22	10.465	9.375	3.79
1.8	2.995	0.7	1.7	1.4	17.37	4	9.77	1.6
4.2	2.545	0.7	1.7	1.4	17.22	4	6.81	1.6
7.313	2.53	0.7	1.7	1.4	18.423	4	10.687	1.6
3.93	2.54	0.7	1.7	1.4	19.253	4	4.64	1.6
4.65	3.03	0.7	1.7	1.4	17.52	4	4.74	1.6
4.643	1.2	0.7	4.725	1.4	17.37	4	10.01	1.6
1.8	1.2	0.7	3.745	1.4	17.673	4	9.98	1.6

4.19	2.577	0.7	1.7	1.4	19.257	4	4.547	1.6
4.063	3.403	0.7	1.7	1.4	18.427	4	6.15	1.6
4.87	2.885	0.7	1.7	1.4	18.5	4	5.127	1.6
4.715	2.83	0.7	1.7	1.4	17.293	4	7.013	1.6
4.685	2.92	0.7	1.7	1.4	18.577	4	8.13	1.6
4.36	2.84	0.7	5.07	1.4	19.933	4	9.515	1.6
1.8	1.2	1.7	3.72	1.4	16.757	4	8.657	1.6
1.8	1.2	2.147	1.7	1.4	18.53	4	11.16	4.25
3.93	1.2	2.01	1.7	1.4	18.047	4	6.495	1.6
1.8	1.2	2.25	5.373	1.4	21.1	4	12.265	4.34
1.8	1.2	3.507	1.7	1.4	21.287	4	2.475	1.6
5.13	1.2	2.923	1.7	1.4	19.097	4	4.917	1.6
1.8	2.945	4.403	1.7	1.4	20.637	10.075	6.95	4.665
1.8	2.71	3.657	1.7	1.4	21.503	4	15.32	4.377
1.8	2.93	4.867	4.905	1.4	25.68	4	16.803	5.453
1.8	3.07	3.783	4.383	1.4	24.21	4	10.6	5.503
1.8	3.453	2.53	1.7	1.4	23.323	4	13.485	4.477
8.173	3.36	4.08	6.327	1.4	23.4	12.847	15.87	5.877
1.8	1.2	2.68	1.7	1.4	20.143	4	2.475	1.6
8.915	1.2	2.22	1.7	1.4	16.22	4	0.2	1.6
1.8	1.2	1.885	1.7	1.4	15.897	4	15.165	1.6
1.8	1.2	2.557	5.315	1.4	16.327	4	14.55	3.4
1.8	2.635	1.89	1.7	1.4	15.895	4	5.115	1.6
1.8	1.2	1.89	1.7	1.4	17.08	4	10.347	1.6
1.8	1.2	3.163	4.885	1.4	17.607	4	5.36	1.6
35.217	1.2	2.63	3.56	1.4	20.447	4	6.807	3.455
1.8	1.2	3.477	1.7	1.4	19.107	4	1.375	5.42
1.8	4.037	3.85	4.3	1.4	21.707	4	9.027	3.75
1.8	2.85	2.65	1.7	1.4	24.66	4	11.58	4.32
1.8	3.513	5.157	4.29	1.4	23.533	4	11.447	5.017
7.75	3.37	0.7	1.7	1.4	24.36	4	11.013	1.6
3.885	3.245	3.27	4.347	1.4	22.39	4	14.197	1.6
5.897	4.753	3.82	7.115	1.4	30.257	13.92	16.473	4.07
5.86	1.2	3.457	1.7	1.4	25.44	25.045	13.817	7.78
1.8	3	3.365	1.7	1.4	22.78	4	5.135	1.6
6.307	3.475	2.415	1.7	1.4	26.163	4	10.523	1.6
4.55	3.277	1.63	4.373	1.4	23.567	4	9.897	1.6
1.8	3.013	2.473	1.7	1.4	28.64	9.05	10.28	4.295
4.665	1.2	2.915	5.515	1.4	5	10.59	9.973	6.947
1.8	2.97	4.307	1.7	1.4	34.68	14.475	8.9	4.635
17.803	3.643	2.467	3.787	1.4	28.22	4	10.307	1.6
1.8	4.057	2.547	4.17	1.4	29.117	4	16.13	3.875
5.807	3.693	3.823	5.595	1.4	30.727	9.715	13.445	4.08
1.8	3.587	4.977	10.59	1.4	36.263	10.145	10.23	9.303
4.695	2.893	0.7	1.7	1.4	5	4	8.05	1.6
4.09	1.2	0.7	1.7	1.4	5	4	9.187	10.23
4.95	4.555	2.663	5.025	1.4	32.737	8.42	13.233	6.415
1.8	2.98	0.7	1.7	1.4	5	4	10.423	1.6
4.417	3.67	2.865	1.7	1.4	5	4	8.39	1.6
1.8	2.883	2.235	1.7	1.4	29.167	4	16.31	3.39
5.167	3.76	2.26	5.017	1.4	5	8.125	8.343	6.235
4.457	3.997	3.18	5.275	1.4	36.645	4	18.24	5.83
5.173	5.467	4.793	1.7	1.4	33.237	4	12.903	5.39
8.157	2.63	2.19	1.7	1.4	27.06	4	11.15	1.6
4.307	3.627	4.965	1.7	1.4	5	11.34	7.82	1.6
1.8	1.2	2.05	1.7	1.4	5	13.275	11.94	1.6

1.8	3.397	3.653	1.7	1.4	27.99	14.775	13.893	5.427
5.925	4.093	4.21	1.7	1.4	34.797	8.895	12.55	7.763
1.8	3.19	2.767	1.7	1.4	26.333	8.375	13.273	1.6
4.437	3.643	3.365	8.24	1.4	26.68	13.565	15.885	1.6
4.003	4.83	3.623	1.7	1.4	30.63	17.33	12.275	5.895
4.72	2.917	5.023	1.7	1.4	35.383	4	8.263	6.723
5.267	1.2	5.4	1.7	1.4	12.65	4	7.147	1.6
4.635	4.105	4.243	8.523	1.4	35.82	9.487	12.293	4.615
4.563	3.707	3.39	4.585	1.4	26.557	9.31	13.15	1.6
4.335	3.06	2.03	1.7	1.4	23.05	4	10.797	1.6
1.8	3.815	2.03	1.7	1.4	23.823	4	8.693	1.6
6.595	2.845	3.867	1.7	1.4	28.657	4	7.575	4.085
6.853	3.22	4.75	6.29	1.4	28.653	13.615	11.937	6.35
5.305	4.24	3.53	6.063	1.4	29.413	17.705	18.633	8.353
4.443	1.2	0.7	1.7	1.4	5	17.837	12.983	1.6
1.8	2.9	2.937	1.7	1.4	25.05	4	7.967	1.6
5.26	3.785	3.687	1.7	1.4	32.913	4	10.22	6.65
5.187	1.2	3.44	1.7	1.4	29.153	4	15.24	7.15
1.8	2.92	3.27	1.7	1.4	26.853	4	8.83	1.6
3.933	1.2	0.7	5.69	1.4	24.073	4	14.58	1.6
1.8	3.49	3.335	1.7	1.4	5	4	7.757	1.6
1.8	3.17	0.7	1.7	1.4	5	10.35	9.79	9.075
6.123	4.36	4.395	5.49	1.4	34.303	18.033	13.965	7.51
1.8	3.73	5.477	1.7	1.4	35.857	15.917	15.37	9.315
1.8	3.28	2.495	4.267	1.4	27.21	9.27	17.547	1.6
1.8	2.73	2.483	1.7	1.4	28.51	11.565	12.57	6.547
3.81	1.2	0.7	1.7	1.4	5	4	8.34	1.6
10.127	2.937	4.56	1.7	1.4	32.147	12.85	18.17	9.14
55.76	3.59	0.7	1.7	1.4	5	4	7.617	1.6
4.37	3.913	4.85	1.7	1.4	31.613	12.885	10.82	3.39
1.8	1.2	0.7	1.7	1.4	5	10.885	7.66	1.6
4.793	3.765	4.375	5.175	1.4	31.64	4	10.567	1.6
11.04	1.2	4.227	1.7	1.4	27.487	4	6.045	3.74
1.8	1.2	2.4	1.7	1.4	26.467	4	13.915	6.105
5.08	3.357	4.067	1.7	1.4	32.23	4	9.813	4.135
4.127	2.9	2.225	1.7	1.4	24.467	4	6.963	1.6
20.72	2.857	0.7	6.533	1.4	5	10.055	13.463	4.007
6.907	3.763	2.123	5	1.4	24.88	4	16.465	1.6
5.267	4.233	3.2	5.025	1.4	5	8.13	8.7	1.6
5.577	4.25	0.7	1.7	1.4	5	4	7.19	1.6
21.427	1.2	0.7	5.725	1.4	5	4	8.36	1.6
3.96	3.553	0.7	1.7	1.4	5	4	6.993	1.6
1.8	1.2	1.73	1.7	1.4	23.683	4	7.515	1.6
1.8	1.2	2.02	1.7	1.4	24.073	4	15.053	1.6
1.8	2.747	2.83	1.7	1.4	26.337	4	8.847	1.6
4.177	4.423	4.507	4.195	1.4	32.337	13.07	19.617	6.163
4.09	3.267	5.12	1.7	1.4	34.367	13.14	10.517	4.43
1.8	1.2	2.49	7.643	1.4	24.547	4	14.213	5.69
1.8	1.2	0.7	4.18	1.4	5	4	12.76	1.6
1.8	1.2	0.7	1.7	1.4	22.197	4	12.29	8.415
1.8	1.2	3.465	1.7	1.4	5	4	10.663	1.6
4.235	1.2	0.7	1.7	1.4	5	4	10.255	1.6
1.8	1.2	2.385	1.7	1.4	23.05	4	8.03	1.6
1.8	2.875	0.7	1.7	1.4	23.803	11.31	17.567	1.6
21.78	1.2	0.7	1.7	1.4	5	65.33	39.063	1.6
3.833	6.38	4.563	4.16	1.4	30.147	4	14.703	4.923

4.865	1.2	2.68	4.27	1.4	24.067	4	11.78	1.6
4.187	2.825	0.7	1.7	1.4	23.047	4	11.613	6.74
6.757	3.043	1.62	1.7	1.4	25.683	10.135	12.887	8.073
4.3	3.085	4.09	4.43	1.4	30.137	9.89	9.595	7.02
6.037	1.2	2.81	5.273	1.4	5	4	6.905	1.6
1.8	2.955	3.633	6.89	1.4	26.957	10.065	21.74	7.345
5.177	3.215	3.527	1.7	1.4	30.523	13.123	15.465	5.88
4.913	1.2	0.7	1.7	1.4	5	4	15.85	1.6
1.8	2.613	0.7	3.827	1.4	24.94	4	14.62	1.6
4.707	3.935	2.55	1.7	1.4	5	4	11.887	1.6
5.167	3.783	4.373	1.7	1.4	26.213	12.11	14.053	3.15
5.815	4.44	2.557	4.18	1.4	26.95	4	18.63	1.6
1.8	1.2	0.7	4.055	1.4	5	4	8.225	1.6
9.39	1.2	2	1.7	1.4	22.65	4	13.097	4.13
4.28	1.2	2.083	5.747	1.4	5	4	14.073	1.6
7.997	3.02	4.06	1.7	1.4	25.457	11.55	15.125	8.79
1.8	1.2	0.7	1.7	1.4	22.803	4	10.283	3.963
4.88	4.02	3.31	4.38	1.4	30.887	9.33	20.473	6.23
5.943	1.2	0.7	4.77	1.4	5	4	7.19	1.6
5.353	3.11	3.213	7.13	1.4	28.173	4	15.885	7.62
4.32	2.665	0.7	1.7	1.4	5	4	8.143	1.6
3.907	1.2	2.003	6.16	1.4	5	4	20.33	1.6
1.8	1.2	0.7	4.887	1.4	5	4	20.187	1.6
4.88	3.84	4.16	6.063	1.4	31.27	4	14.487	1.6
4.98	1.2	0.7	4.515	1.4	21.97	4	11.673	5.253
3.985	1.2	0.7	5.905	1.4	23.413	4	17.705	5.6
5.11	1.2	3.33	1.7	1.4	5	4	14.415	1.6
4.21	1.2	2.03	8.173	1.4	21.133	4	17.573	4.61
3.937	1.2	2.025	3.885	1.4	20.117	4	11.56	4.935
4.543	1.2	2.575	1.7	1.4	20.973	4	8.593	4.717
4.843	3.475	2.43	1.7	1.4	5	4	7.725	1.6
8.523	1.2	0.7	1.7	1.4	22.597	4	9.97	5.24
1.8	1.2	1.665	1.7	1.4	20.047	4	12.813	6.237
3.8	2.925	4.035	6.775	1.4	5	4	6.92	1.6
1.8	1.2	0.7	1.7	1.4	5	4	4.78	1.6
15.023	2.595	2.797	1.7	1.4	21.393	16.26	23.093	7.087
4.61	1.2	2.503	1.7	1.4	25.38	4	15.353	6.417
5.74	2.51	3.307	5.51	1.4	24.7	4	15.393	8.027
3.64	1.2	0.7	1.7	1.4	21.053	4	6.77	3.81
4.225	1.2	1.71	1.7	1.4	21.36	4	12.25	4.253
4.195	1.2	2.017	1.7	1.4	19.863	4	9.383	3.923
6.387	1.2	3.175	3.77	1.4	5	4	10.277	1.6
5.027	1.2	0.7	1.7	1.4	21.543	9.82	6.6	4.343
4.533	1.2	0.7	1.7	1.4	22.347	4	12.16	4.943
3.9	1.2	0.7	1.7	1.4	20.123	4	15.823	5.353
5.307	1.2	0.7	1.7	1.4	20.407	4	13.413	4.42
5.02	1.2	3.575	4.883	1.4	5	4	8.703	1.6
5.535	1.2	3.72	5.345	1.4	5	4	13.697	1.6
1.8	1.2	2.83	4.035	1.4	23.02	11.153	14.38	5.23
1.8	1.2	1.983	1.7	1.4	20.163	4	7.19	3.657
8.283	1.2	3.737	1.7	1.4	21.74	4	15.65	5.733
4.447	1.2	0.7	1.7	1.4	22.18	4	11.845	5.453
5.72	1.2	0.7	1.7	1.4	5	4	9.33	1.6
4.267	5.42	4.697	1.7	1.4	30.935	4	9.507	6.767
1.8	3.1	3.27	1.7	1.4	5	4	6.655	1.6
4.785	2.855	2.97	1.7	1.4	27.94	11.885	12.26	1.6

1.8	2.615	5.855	3.675	1.4	25.91	4	13.883	6.94
5.58	3.2	0.7	4.565	1.4	5	13.055	10.4	1.6
4.315	1.2	0.7	1.7	1.4	5	11.64	13.495	1.6
1.8	1.2	2.733	1.7	1.4	24.827	4	9.777	1.6
1.8	1.2	2.917	1.7	1.4	25.443	4	12.033	1.6
5.443	2.61	1.74	4.495	1.4	22.65	4	13.46	5.733
21.38	1.2	0.7	7.6	1.4	5	4	9.25	1.6
5.197	1.2	3.35	6.95	1.4	5	4	16.655	1.6
4.915	1.2	2.15	1.7	1.4	5	4	21.335	1.6
4.677	1.2	1.83	1.7	1.4	21.293	4	13.483	3.547
5.247	1.2	2.063	1.7	1.4	21.68	11.295	13.333	6.267
1.8	1.2	2.685	4.3	1.4	21.737	4	12	5.027
8.097	1.2	3.513	1.7	1.4	23.333	4	3.633	5.525
1.8	1.2	0.7	1.7	1.4	21.547	4	12.597	4.13
1.8	1.2	2.243	1.7	1.4	20.097	4	15.673	4.245
4.503	1.2	2.633	1.7	1.4	23.317	11.305	16.07	4.225
4.395	1.2	2.307	1.7	1.4	19.787	4	17.073	4.85
1.8	1.2	2.903	1.7	1.4	27.827	4	5.735	1.6
4.573	1.2	2.407	1.7	1.4	21.81	12.265	10.885	5.7
4.365	2.795	3.06	1.7	1.4	25.08	4	13.507	7.05
4.08	1.2	0.7	4.823	1.4	21.117	4	10.57	4.457
8.73	1.2	2.8	1.7	1.4	26.347	8.07	7.663	1.6
3.857	1.2	1.5	3.73	1.4	21.967	4	10.557	3.83
3.953	1.2	0.7	1.7	1.4	19.263	4	14.947	4.197
1.8	1.2	1.895	3.543	1.4	21.32	4	7.817	4.36
4.185	1.2	3.193	5.12	1.4	29.375	4	15.123	1.6
7.033	1.2	4.31	1.7	1.4	28.32	4	8.657	6.81
4.8	1.2	0.7	4.94	1.4	22.633	4	12.945	5.207
1.8	1.2	0.7	1.7	1.4	23.56	4	11.577	5.183
1.8	1.2	1.77	1.7	1.4	26.905	4	9.017	4.407
4.237	1.2	1.765	4.495	1.4	21.51	4	12.73	4.3
1.8	1.2	2.303	1.7	1.4	19.337	4	8.69	3.39
1.8	1.2	2.19	1.7	1.4	21.22	10.535	14.31	4.315
4.59	4.123	3.013	5.733	1.4	25.833	4	12.955	6.09
1.8	1.2	2.257	1.7	1.4	22.35	4	17.933	5.827
1.8	1.2	0.7	1.7	1.4	19.26	4	10.365	3.807
1.8	1.2	2.407	1.7	1.4	22.873	4	14.377	4.377
1.8	1.2	0.7	1.7	1.4	21.26	4	13.737	5.483
1.8	1.2	2.38	1.7	1.4	25.3	4	11.203	1.6
5.68	1.2	0.7	1.7	1.4	22.25	4	6.093	4
1.8	1.2	0.7	1.7	1.4	22.18	4	8.64	4.197
1.8	1.2	0.7	1.7	1.4	18.9	4	8.053	4.033
7.427	1.2	2.557	1.7	1.4	22.27	10.525	13.017	4.295
4.457	1.2	2.13	1.7	1.4	21.137	4	15.313	3.66
9.39	1.2	1.765	1.7	1.4	24.777	4	7.517	3.917
4.02	1.2	2.56	5.11	1.4	24.307	10.12	12.497	4.327
1.8	1.2	0.7	1.7	1.4	25.07	4	8.48	4.823
1.8	1.2	2.257	1.7	1.4	19.413	4	13.147	3.445
8.983	1.2	2.495	1.7	1.4	24.77	4	7.125	5.045
1.8	1.2	1.95	1.7	1.4	20.697	13.585	10.91	3.655
1.8	1.2	2.1	1.7	1.4	27.833	4	13.04	4.85
4.45	1.2	2.66	1.7	1.4	22.197	4	16.187	3.825
5.063	1.2	1.575	1.7	1.4	25.403	4	13.54	4.353
5.69	1.2	0.7	1.7	1.4	24.733	4	4.645	3.7
1.8	1.2	2.723	1.7	1.4	25.87	4	13.293	1.6
4.593	1.2	2.167	1.7	1.4	21.523	4	13.27	4.22

17.213	1.2	3.077	1.7	1.4	25.967	4	12.38	1.6
1.8	1.2	2.397	1.7	1.4	26.013	4	7.147	1.6
1.8	1.2	2.433	1.7	1.4	22.19	4	9.463	4
3.89	1.2	2.143	1.7	1.4	26.34	4	15.96	4.575
1.8	1.2	3.26	1.7	1.4	26.06	4	11.553	1.6
1.8	1.2	1.77	1.7	1.4	21.75	4	13.347	3.293
4.317	1.2	3.053	1.7	1.4	26.253	4	12.143	1.6
1.8	1.2	1.8	1.7	1.4	26.117	4	13.49	5.06
4.997	1.2	2.757	1.7	1.4	23.28	4	11.487	1.6
5.055	1.2	3.527	1.7	1.4	25.08	4	7.133	1.6
1.8	2.515	3.203	4.595	1.4	24.877	11.345	14.113	5.79
1.8	1.2	2.9	1.7	1.4	22.203	4	14.333	3.77
1.8	1.2	0.7	1.7	1.4	27.357	4	9.563	4.087
3.98	2.993	3.965	1.7	1.4	28.173	4	9.415	4.22
1.8	1.2	3.23	1.7	1.4	27.253	11.53	11.83	1.6
1.8	1.2	3.59	1.7	1.4	27.777	4	17.57	1.6
4.33	2.55	2.33	1.7	1.4	24.563	4	12.925	3.355
1.8	1.2	1.843	1.7	1.4	21.223	4	11.047	3.673
1.8	1.2	2.577	1.7	1.4	26.69	11.755	12.523	6.263
4.365	2.867	1.68	1.7	1.4	25.587	4	14.203	3.8
1.8	1.2	3.1	1.7	1.4	27.727	10.705	14.75	1.6
1.8	1.2	2.803	4.833	1.4	26.063	4	10.185	1.6
9.687	2.95	2.75	5.363	1.4	25.387	14.89	7.383	4.68
1.8	1.2	2.867	1.7	1.4	26.73	4	11.547	1.6
3.86	1.2	2.317	1.7	1.4	23.13	4	13.287	1.6
7.033	2.837	0.7	1.7	1.4	25.34	4	11.05	1.6
4.06	1.2	1.983	1.7	1.4	25.353	4	15.3	5.173
4.31	3.147	2.375	1.7	1.4	26.583	4	20.76	3.37
1.8	1.2	2.71	4.355	1.4	26.68	4	10.42	1.6
4.737	2.815	2.457	1.7	1.4	24.723	4	8.637	3.8
1.8	2.873	2.905	1.7	1.4	25.043	10.545	14.383	4.465
1.8	1.2	2.723	1.7	1.4	28.207	4	9.733	1.6
1.8	1.2	3.47	4.2	1.4	24.36	4	14.01	3.25
4.877	1.2	2.787	1.7	1.4	23.95	4	13.87	5.48
1.8	2.737	2.22	3.825	3.14	23.33	4	15.397	3.83
1.8	1.2	0.7	4.99	1.4	25.973	11.545	10.643	5.257
1.8	1.2	2.637	1.7	1.4	23.693	4	6.763	1.6
1.8	2.91	1.97	1.7	1.4	25.39	4	13.997	1.6
29.72	1.2	3.3	1.7	1.4	28.3	4	13.563	1.6
1.8	2.817	2.645	1.7	1.4	27.183	4	15.135	3.833
4	1.2	1.605	1.7	1.4	27.073	4	5.76	4.825
3.765	1.2	2.67	4.433	1.4	24.103	4	10.31	4.735
1.8	1.2	2.473	1.7	1.4	26.3	4	7.013	1.6
1.8	2.845	2.447	1.7	1.4	24.977	4	4.075	1.6
15.423	3.27	3.673	1.7	3.533	29.153	4	12.947	6.413
5.925	1.2	2.02	1.7	1.4	25.83	11.625	13.233	5.977
1.8	1.2	2.823	4.013	1.4	23.23	4	11.84	1.6
1.8	2.7	2	4.45	1.4	25.043	4	13.153	1.6
3.785	1.2	2.35	1.7	1.4	24.257	4	12.317	1.6
20.793	2.733	0.7	1.7	1.4	24.847	4	11.643	1.6
1.8	1.2	0.7	1.7	1.4	27.407	8.54	12.16	4.607
4.195	1.2	0.7	1.7	1.4	26.693	4	8.785	4.445
4.475	3.423	3.693	1.7	3.557	27.2	4	5.597	6.433
5.387	2.793	1.867	1.7	1.4	25.487	4	2.42	3.16
5.073	1.2	2.73	3.923	1.4	22.31	4	13.03	1.6
4.79	2.88	2.295	4.515	1.4	25.093	9.785	18.877	1.6

1.8	1.2	0.7	1.7	1.4	26.117	4	15.833	4.103
1.8	1.2	2.59	1.7	1.4	25.257	4	10.633	1.6
1.8	1.2	1.715	1.7	1.4	25.21	4	12.24	4.573
4.51	3.337	2.615	1.7	1.4	28.623	4	11.41	5.855
5.715	3.073	3.525	1.7	1.4	25.59	11.005	16.47	6.035
4.48	1.2	0.7	1.7	1.4	25.543	4	7.35	4.457
1.8	1.2	0.7	4.28	1.4	25.833	4	12.64	4.103
33.643	1.2	0.7	1.7	1.4	25.07	4	8.077	4.657
4.2	1.2	2.637	1.7	1.4	25.233	4	7.553	6.195
4.21	2.817	2.235	4.697	1.4	25.937	4	11.34	1.6
1.8	2.483	1.655	1.7	3.075	23.6	4	12.41	5.343
4.13	3.377	4.083	3.945	3.833	27.207	12.84	8.25	7.593
1.8	2.723	2.08	4.14	1.4	26.577	4	8.467	4.96
1.8	1.2	2.235	1.7	1.4	26.593	4	7.583	4.173
1.8	2.72	2.7	1.7	3.097	21.77	4	9.98	3.81
1.8	1.2	1.833	1.7	1.4	25.687	9.705	11.73	5.727
1.8	1.2	2.867	1.7	1.4	26.253	4	12.537	1.6
4.105	2.723	2.373	6.067	1.4	23.337	4	14.673	1.6
17.657	3.327	3.91	3.93	3.553	32.337	4	6.68	6.23
1.8	2.623	2.843	1.7	1.4	24	4	9.407	1.6
4.073	1.2	2.297	3.52	1.4	22.973	4	11.425	4.11
3.915	2.937	3.07	1.7	1.4	25.87	4	7.403	4.47
1.8	3.81	0.7	1.7	1.4	27.203	4	8.657	4.443
1.8	1.2	2.37	4.243	1.4	23.077	4	10.517	1.6
1.8	2.967	2.647	5.78	1.4	31.187	4	16.71	5.697
1.8	1.2	0.7	4.425	1.4	21.283	4	15.13	4.54
5.8	2.587	2.547	4.3	3.225	22.463	4	9.5	3.59
6.597	3.393	3.367	4.01	3.347	25.16	4	9.787	4.495
1.8	2.64	2.553	1.7	1.4	21.683	4	8.107	4.025
6.03	3.16	2.225	1.7	1.4	25.99	4	15.767	1.6
4.29	2.725	3.443	4.31	2.96	24.63	4	10.485	4.62
1.8	2.943	2.463	4.817	2.997	26.44	4	13.303	4.99
1.8	3.113	2.095	1.7	1.4	25.44	4	13.237	1.6
1.8	2.987	2.37	1.7	1.4	26.337	8.39	12.597	5.325
250.637	4.003	0.7	1.7	1.4	32.023	15.72	9.907	5.737
1.8	3.237	2.887	5.467	3.28	27.017	11.543	12.333	6.08
7.467	3.617	2.64	1.7	1.4	27.013	4	8.5	4.697
3.72	2.723	2.78	1.7	1.4	25.043	4	3.745	1.6
4.98	4.755	0.7	5.31	1.4	31.647	8.2	16.125	4.057
1.8	2.613	3.07	3.98	1.4	23.93	4	7.29	3.643
4.817	2.767	2.055	1.7	1.4	25.79	4	4.87	1.6
1.8	1.2	0.7	1.7	1.4	29.01	4	15.013	4.385
5.257	3.44	2.683	4.605	1.4	31.19	4	10.933	6.13
11.917	1.2	0.7	1.7	1.4	25.37	4	9.147	1.6
4.32	5.01	0.7	7.14	1.4	29.817	4	16.903	4.657
8.713	5.97	0.7	8.825	1.4	32.693	4	14.987	4.63
1.8	3.17	1.997	5.543	3.023	24.467	13.845	14.877	6.007
5.027	3.533	4.237	1.7	3.24	26.08	9.46	12.08	6.765
6.153	1.2	2.63	1.7	1.4	24.207	4	10.213	1.6
74.203	4.215	3.323	4.79	1.4	30.687	11.69	12.757	6.36
3.915	2.813	1.89	4.077	1.4	26.783	4	10.703	1.6
1.8	2.827	1.97	1.7	1.4	25.253	4	4.365	4.093
4.467	6.685	2.85	1.7	1.4	30.217	4	12.773	5.323
10.463	3.163	2.297	3.71	1.4	27.453	4	14.01	4.435
5.52	3.877	3.61	1.7	1.4	27.803	4	13.96	3.65
1.8	3.52	3.78	1.7	3.523	27.863	4	6.63	6.45

5.49	3.73	4.05	5.295	1.4	31.53	8.965	15.623	6.733
1.8	3.51	2.86	3.975	1.4	26.05	4	11.987	4.13
1.8	3.647	1.745	1.7	1.4	28.293	4	14.75	4.405
4.14	3.07	1.78	1.7	1.4	26.49	4	3.647	4.83
6.227	4.637	2.6	5.47	1.4	31.56	10.505	14.25	6.387
1.8	3.007	2.18	1.7	1.4	24.993	4	14.085	4.28
1.8	3.147	2.895	1.7	1.4	25.94	11.11	9.74	5.49
4.66	3.93	3.333	4.983	1.4	30.67	9.415	16.247	8.35
4.007	4.133	3.08	5.007	1.4	32.983	9.38	12.765	6.73
4.067	3.42	0.7	4.395	1.4	28.07	4	11.5	1.6
1.8	3.317	2.435	6.103	1.4	30.93	11.1	15.083	6.883
1.8	2.907	0.7	1.7	1.4	27.333	4	12.71	5.175
4.62	2.803	0.7	4.975	1.4	27.403	4	15.207	3.905
5.4	2.927	2.567	3.93	3.045	22.123	4	7.383	4.067
37.797	3.56	3.783	4.483	3.517	27.89	4	7.4	4.94
3.93	5.18	3.817	5.92	1.4	30.613	4	15.505	6.375
4.835	4.157	4.2	4.62	1.4	33.42	14.19	11.567	6.67
1.8	2.48	0.7	8.56	1.4	26.86	4	13.02	1.6
4.88	2.58	0.7	1.7	1.4	26.39	4	15.42	1.6
3.953	3.173	2.903	1.7	3.263	25.67	4	9.963	4.867
1.8	2.927	1.93	1.7	1.4	28.753	4	11.717	5.753
1.8	2.987	1.89	4.72	1.4	28.15	4	7.56	4.357
4.413	3.305	1.97	6.683	1.4	26.66	4	8.41	3.847
6.613	3.27	2.06	1.7	1.4	30.487	4	17.113	4.877
1.8	3.065	1.935	1.7	1.4	26.593	4	6.71	1.6
5.467	3.753	3.23	4.25	1.4	33.143	4	9.513	6.523
1.8	3.653	1.72	5.185	1.4	27.973	8.01	10.705	4.337
5.38	2.79	0.7	3.655	1.4	27.47	4	12.213	3.405
20.86	3.187	2.465	1.7	3.33	22.817	4	7.235	4.965
6.807	5.27	3.377	1.7	1.4	29	14.4	15.467	3.865
1.8	2.59	2.203	1.7	1.4	22.21	9.165	6.58	5.12
1.8	3.527	3.91	1.7	1.4	31.517	4	7.21	6.337
5.197	5.45	3.32	4.52	1.4	33.497	9.845	17.013	5.325
1.8	1.2	0.7	1.7	1.4	25.26	4	8.053	3.75
5.693	1.2	3.117	1.7	1.4	25.68	4	12.54	1.6
6.127	2.925	4.315	1.7	1.4	31.803	4	11.99	5.62
4.68	3.06	0.7	1.7	1.4	26.03	4	14.973	8.51
1.8	2.64	2.26	1.7	1.4	25.37	4	4.21	4.503
4.193	1.2	0.7	1.7	1.4	24.62	4	12.43	5.58
6.77	4.753	4.64	5.485	1.4	32.373	4	17.197	8.097
6.847	3.71	1.655	1.7	1.4	30.35	12.8	12.713	4.46
1.8	3.943	0.7	6.207	1.4	25.973	4	15.907	1.6
11.757	2.86	0.7	1.7	1.4	26.163	4	5.387	1.6
4.615	3.84	3.643	1.7	1.4	32.293	4	13.91	6.077
5.175	4.005	4.157	1.7	1.4	30.89	9.6	16.747	6.897
1.8	2.51	2.293	5.845	1.4	27.757	4	4.88	4.883
1.8	3.525	2.775	1.7	1.4	26.393	4	14.28	3.91
5.807	4.92	2.59	6.12	3.133	30.677	4	7.805	5.58
1.8	3.78	0.7	1.7	1.4	27.227	4	7.24	1.6
1.8	3.637	0.7	1.7	1.4	28.273	4	8.557	3.71
6.163	4.78	0.7	1.7	1.4	30.427	9.405	15.98	5.82
1.8	3.637	0.7	1.7	1.4	28.073	4	10.52	4.363
1.8	3.853	2.6	1.7	1.4	31.093	4	12.353	5.543
1.8	3.433	2.823	1.7	1.4	27.263	4	11.4	1.6
4.475	3.253	2.81	1.7	1.4	29.283	4	6.473	4.867
52.89	3.65	4.155	1.7	1.4	28.477	4	14.457	4.383

1.8	4.123	2.32	1.7	1.4	31.45	12.255	14.447	5.375
1.8	2.903	2.5	4.05	1.4	24.013	4	10.303	4.047
4.72	2.69	1.787	1.7	1.4	25.34	4	10.58	1.6
3.755	2.937	2.07	1.7	1.4	27.967	4	8.207	1.6
4.555	5.055	3.455	4.47	1.4	28.613	4	12.873	4.58
1.8	1.2	2.407	1.7	1.4	22.143	4	10.34	3.77
5.183	4.593	2.13	6.07	1.4	26.715	4	15.64	1.6
1.8	3.783	4.247	6.197	1.4	33.867	11.67	13.033	6.61
3.933	4.03	0.7	8.273	1.4	29.9	15.807	19.11	5.315
1.8	2.717	2.543	1.7	1.4	26.017	4	11.295	5.095
5.483	2.475	1.96	1.7	1.4	22.577	4	13.32	5.043
15.833	2.875	0.7	7.83	1.4	25.56	4	12.2	1.6
6.697	6.063	0.7	7.87	1.4	31.363	30.94	19.88	5.765
1.8	1.2	0.7	1.7	1.4	27.323	4	16.973	3.47
31	1.2	2.443	1.7	1.4	24.6	4	12.963	1.6
4.2	4.355	0.7	8.157	1.4	30.543	8.52	15.42	5.515
5.465	3.625	2.93	1.7	1.4	28.227	4	13.38	1.6
9.587	4.64	0.7	1.7	1.4	29.817	10.715	15.17	5.925
5.5	5.163	5.817	6.743	1.4	32.903	9.965	15.357	8.85
4.05	2.673	0.7	1.7	1.4	27.127	4	10.925	1.6
5.17	1.2	2.69	1.7	1.4	23.64	4	12.607	4.453
1.8	4.803	0.7	5.635	1.4	28.357	9.865	19.64	4.045
1.8	3.17	1.83	1.7	1.4	26.873	4	5.975	1.6
1.8	2.625	2.383	1.7	1.4	25	4	12.23	5.99
18.95	4.283	3.707	8.147	1.4	24.657	8.765	17.99	5.413
10.695	1.2	2.59	1.7	1.4	24.133	4	8.45	1.6
4.43	3.023	0.7	1.7	1.4	25.26	4	9.23	1.6
4.04	1.2	2.387	5.75	1.4	22.283	4	11.923	3.457
5.617	4.133	3.317	1.7	1.4	30.933	4	11.43	4.665
5.18	5.71	0.7	1.7	1.4	30	4	8.653	7.25
5.813	4.677	4.533	1.7	1.4	36.11	4	4.44	7.503
1.8	1.2	2.255	4.355	1.4	22.963	4	12.79	3.24
5.02	3.135	3.31	7.445	1.4	30.93	4	13.447	6.437
1.8	2.783	2.52	5.193	1.4	22.77	10.75	15.443	5.4
4.17	4.323	3.37	1.7	2.995	31.26	8.61	14.557	5.14
6.34	3.717	4.14	1.7	1.4	26.613	4	11.155	1.6
4.507	4.105	2.46	1.7	1.4	23.65	8.16	15.423	6.287
11.897	3.945	4.21	1.7	1.4	30.903	8.2	12.103	3.24
4.01	4.77	1.88	4.21	3.02	28.483	11.1	13.043	7.23
3.89	4.147	0.7	4.117	1.4	27.453	4	11.66	1.6
1.8	4.237	2.58	1.7	1.4	29.307	4	13.183	5.433
4.253	4.377	4.993	7.005	1.4	33.513	8.375	0.2	7.723
4.285	3.565	0.7	1.7	1.4	19.957	4	13.193	1.6
1.8	4.383	5.363	9.28	1.4	31.11	9.893	19.887	7.97
4.8	4.59	0.7	1.7	2.97	29.71	4	10.917	3.605
6.09	3.76	5.2	4.09	1.4	31.557	4	15.587	7.82
1.8	1.2	3.8	1.7	1.4	26.88	4	14.11	6.5
16.407	1.2	1.745	1.7	1.4	22.14	10.443	9.603	3.875
1.8	1.2	2.145	5.34	1.4	22.237	4	15.187	3.695
4.297	2.5	3.213	1.7	1.4	22.96	4	15.973	4.655
1.8	1.2	2.81	1.7	1.4	23.157	9.117	10.387	1.6
7.185	2.81	1.9	1.7	1.4	23.7	4	13.72	4.653
13.87	3.373	2.895	1.7	1.4	24.907	4	16.48	5.357
1.8	1.2	0.7	1.7	1.4	23.75	4	13.73	3.823
1.8	2.84	1.83	1.7	1.4	23.78	11.03	12.463	1.6
1.8	3.817	3.93	1.7	1.4	28.307	10.4	11.95	6.543

1.8	3.817	3.103	1.7	1.4	29.2	12.76	15.007	6.147
6.587	4.153	3.14	1.7	1.4	24.283	11.63	15.39	1.6
1.8	1.2	3.827	1.7	1.4	24.72	10.26	10.21	1.6
5.55	5.135	5.777	5.427	1.4	31.097	9.165	10.587	6.64
1.8	2.86	0.7	1.7	1.4	21.72	4	13.203	1.6
1.8	4.117	2.723	1.7	1.4	20.163	4	15.31	1.6
6.24	3.655	1.98	1.7	1.4	27.97	4	8.883	3.16
1.8	4.797	2.207	5.797	1.4	27.91	4	14.607	5.553
4.645	4.233	2.515	1.7	1.4	22.447	4	16.197	1.6
1.8	3.94	1.99	1.7	1.4	23.02	4	10.95	1.6
1.8	1.2	1.725	1.7	1.4	24.25	4	11.313	1.6
1.8	3.635	2.747	1.7	1.4	23.193	4	13.57	5.55
4.755	1.2	0.7	1.7	1.4	24.19	4	9.843	1.6
1.8	3.07	2.843	1.7	1.4	29.483	4	9.24	6.163
3.705	2.857	2.71	1.7	1.4	23.947	4	11.485	4.167
1.8	2.705	2.66	1.7	1.4	23.543	4	12.853	1.6
6.387	1.2	2.547	1.7	1.4	22.963	4	13.603	4.793
1.8	2.495	2.923	1.7	1.4	24.87	4	15.183	5.077
1.8	1.2	1.905	5.643	1.4	24.31	4	14.753	1.6
4.86	2.787	0.7	1.7	1.4	23.3	4	13.637	1.6
6.537	1.2	1.64	1.7	1.4	24.073	9.385	12.68	1.6
4.15	2.655	1.915	1.7	1.4	22.72	4	11.51	1.6
4.345	3	2.17	1.7	1.4	25.163	8.305	17.163	4.915
3.825	3.87	3.86	1.7	1.4	33.447	4	6.365	6.6
8.86	2.515	0.7	4.927	1.4	25.36	4	10.87	1.6
1.8	3.667	3.137	1.7	1.4	25.92	4	15.183	5.04
4.303	4.16	4.597	4.643	1.4	26.557	10.925	12.203	5.1
6.61	3.06	1.735	1.7	1.4	22.07	4	11.947	1.6
6.26	4.057	3.22	1.7	1.4	20.52	4	13.09	1.6
10.137	1.2	2.045	1.7	1.4	22.963	4	9.507	3.613
1.8	1.2	2.197	1.7	1.4	23.013	4	13.067	1.6
1.8	1.2	0.7	1.7	1.4	21.133	9.005	15.19	1.6
4.553	2.79	2.12	1.7	1.4	24.477	4	11.617	5.8
1.8	2.765	0.7	1.7	1.4	24.043	4	10.237	3.91
4.08	3.22	2.11	3.815	1.4	23.06	4	13.503	3.695
1.8	2.855	2.767	1.7	1.4	24.897	13.275	14.7	10.45
1.8	3.855	0.7	1.7	1.4	21.083	15.015	13.99	1.6
15.543	1.2	3.675	4.5	1.4	24.367	9.545	11	1.6
4.2	3.297	2.655	1.7	1.4	24.773	8.25	17.787	6.33
1.8	4.163	3.567	1.7	1.4	22.943	4	14.95	1.6
4.327	2.94	2.46	1.7	1.4	18.43	4	10.417	1.6
5.657	1.2	1.725	1.7	1.4	25.303	4	4.84	1.6
26.35	2.78	2.03	1.7	1.4	21.85	4	8.53	1.6
1.8	3.86	0.7	3.71	1.4	23.213	4	15.4	3.533
6.597	3.543	1.985	1.7	1.4	24.137	4	16.347	4.897
5.305	3.753	4.1	1.7	1.4	26.337	10.983	14.333	4.73
1.8	3.72	0.7	1.7	1.4	24.187	10.075	16.685	4.733
5.15	2.89	2.59	3.927	1.4	24.013	4	9.773	1.6
1.8	1.2	2.12	1.7	1.4	23.78	4	8.29	1.6
7.927	4.855	3.2	1.7	1.4	20.377	4	10.557	1.6
1.8	1.2	1.99	1.7	1.4	26.297	4	14.397	1.6
1.8	1.2	0.7	1.7	1.4	18.42	4	11.147	1.6
6.713	6.08	4.057	5.203	1.4	19.807	14.455	18.053	1.6
5.505	3.473	2.33	1.7	1.4	31.757	4	15.895	5.39
36.167	4	3.35	5.105	1.4	20.563	4	13.455	1.6
1.8	2.69	0.7	1.7	1.4	25.23	4	11.605	1.6

1.8	2.577	2.297	1.7	1.4	28.307	4	15.537	6.36
6.977	3.185	4.86	3.895	1.4	21.04	14.04	15.553	1.6
1.8	2.82	2.33	1.7	1.4	21.573	12.31	10.035	1.6
1.8	3.03	1.707	1.7	1.4	26.583	4	13.433	4.05
5.073	3.88	2.22	4.51	1.4	23.94	4	11.25	5.81
4.81	3.24	1.67	1.7	1.4	19.81	4	11.133	1.6
4.49	2.71	2.377	1.7	1.4	24.823	4	8.397	4.247
5.46	3.12	2.225	5.987	1.4	20.167	4	13.92	1.6
29.713	3.147	0.7	1.7	1.4	23.797	4	9.117	3.547
4.64	1.2	0.7	5.96	1.4	23.507	4	16	5.34
5.883	3.1	3.71	1.7	1.4	25.41	4	13.67	5.477
1.8	3.445	2.33	5.03	1.4	28.04	4	13.2	1.6
1.8	4.225	0.7	3.79	1.4	20.09	4	14.12	1.6
3.945	1.2	0.7	4.665	1.4	22.96	4	11.05	1.6
4.62	1.2	0.7	1.7	1.4	27.783	4	5.955	1.6
4.043	3.287	0.7	4.71	1.4	23.993	4	13.733	3.79
4.965	2.923	0.7	1.7	1.4	23.75	4	13.9	3.777
1.8	2.655	0.7	1.7	1.4	20.443	4	10.29	1.6
4.547	5.57	3.32	1.7	1.4	19.807	12.905	13.29	1.6
1.8	2.865	2.753	1.7	1.4	20.803	4	11.45	1.6
1.8	2.665	0.7	1.7	1.4	22.287	4	13.847	1.6
5.153	3.4	0.7	5.31	1.4	28.31	21.145	14.53	3.81
4.843	3.567	3.567	1.7	1.4	18.907	4	10.73	1.6
3.705	4.21	2.725	1.7	1.4	22.917	4	14.393	4.003
4.75	3.31	2.787	1.7	1.4	20.227	4	15.033	1.6
5.877	3.52	1.855	1.7	1.4	25.313	4	11.807	4.337
5.21	2.75	0.7	4.54	1.4	22.783	4	16.323	5.11
6.48	3.62	3.52	1.7	1.4	18.627	13.97	13.833	1.6
1.8	1.2	0.7	1.7	1.4	27.173	4	6.98	1.6
6.783	3.285	2.85	1.7	1.4	22.203	4	15.207	1.6
6.045	3.827	2.87	4.94	1.4	19.283	11.785	16.227	1.6
1.8	3.49	2.773	3.72	1.4	29.37	4	8.45	4.97
25.727	2.875	2.36	1.7	1.4	28.88	4	7.403	4.773
5.47	2.85	0.7	3.89	1.4	27.61	4	12.63	1.6
4.83	2.91	2.74	1.7	1.4	18.813	4	7.06	1.6
10.863	1.2	2.723	1.7	1.4	20.447	4	9.73	1.6
60.273	3.085	2.64	5.545	1.4	20.447	4	21.897	1.6
1.8	3.483	5.325	4.365	1.4	20.59	4	11.053	1.6
5.84	3.443	3.965	1.7	1.4	25.117	30.965	11.503	4.58
4.243	1.2	2.47	1.7	1.4	23.203	4	13.305	3.863
1.8	2.805	1.855	4.54	1.4	19.705	4	10.81	1.6

eotaxin	CCL-2	CCL-3	GRO- α	I-309	IP-10	RANTES	TARC	Ang-2
60.373	172.557	27.043	19.057	13.235	26.717	36168.59	926.92	64.387
29.827	117.32	10.59	27.87	2.4	42.583	34182.81	687.913	106.945
44.857	318.92	21.767	14.007	12.435	112.99	36364.54	421.107	75.78
69.44	137.43	9.64	16.867	2.4	25.467	41485.09	241.393	14.435
53.597	121.913	9.42	6.19	21.343	19.627	35495.1	639.233	5.7
45.073	91.363	15.327	11.143	19.765	31.357	22829.16	838.19	17.89
28.58	141.107	12.91	9.337	2.4	62.047	49013.34	473.81	5.7
45.183	220.133	11.79	7.483	19.905	27.447	46818.63	668.48	26.57
48.6	123.31	10.47	23.553	21.195	8.14	35184.04	930.257	18.685
68.14	114.127	11.857	22.487	5.365	20.173	17413.53	289.447	22.4
33.623	164.783	10.043	12.817	25.615	35.677	34739.63	314.713	124.973
58.167	159.657	8.943	11.983	21.64	36.567	37661.85	847.507	18.29
46.947	167.795	12.387	19.13	21.195	35.417	49316.22	886.043	23.303
35.523	148.043	20.023	18.313	22.49	100.453	38965.99	391.113	21.64
49.243	137.71	18.067	17.557	9	29.163	63918.56	296.323	5.7
75.77	198.367	34.083	10.277	12.94	20.767	52734.31	537.403	5.7
58.207	184.437	9.265	36.33	15.535	31.303	63048.05	126.56	20.54
70.77	204.063	19.077	18.565	13.34	20.573	63390.06	521.093	24.98
42.74	246.09	19.263	10.71	18.893	31.187	26105.86	231	16.72
54.033	177.523	21.087	19.14	19.027	66.183	63774.21	536.753	24.71
23.14	85.293	13.777	17.783	12.26	23.337	44734.59	366.11	67.875
26.29	101.327	10.813	9.257	16.81	90.907	8179.337	174.197	31.43
18.86	99.907	11.08	6.93	17	23.153	3111.73	169.043	35.73
57.483	155.817	28.647	7.097	15.54	8.287	76924.07	663.217	16.485
64.233	112.553	14.51	12.93	12.265	34.877	35642.46	764.93	5.7
47.247	133.877	13.43	5.4	14.443	45.167	32882.63	239.457	13.51
97.087	228.13	22.387	19.493	18.16	26.407	67533.2	705.18	19.625
43.227	165.65	13.713	12.863	18.27	40.373	35674.06	260.917	19.445
43.157	126.01	14.563	11.073	25.743	27.867	38043.22	843.363	15.575
71.277	178.8	21.1	7.387	8.875	22.263	44064.26	402.27	5.7
50.867	140.517	24.747	7.917	21.795	29.143	59482.84	415.517	15.125
34.887	120.51	8.883	3.183	17.97	26.277	19455.15	242.647	5.7
4.34	97.253	6.417	6.54	11.46	34.017	11840.7	73.16	58.93
17.247	108.95	9.467	9.02	10.493	32.61	54044.09	714.857	15.035
2.55	145.403	26.857	36.297	12.177	57.477	33998.4	549.037	46.043
64.043	166.78	28.053	25.947	32.31	42.297	77455.68	861.057	5.7
25.043	185.82	16.683	17.107	18.117	37.38	15222.83	328.093	123.69
38.433	162.7	12.6	17.285	17.893	18.05	45910.74	560.623	26.1
36.85	101.5	20.413	18.817	22.74	127.44	53508.24	415.607	49.765
49.863	221.75	17.687	15.903	29.725	41.803	43384.95	299.507	82.28
67.397	140.48	15.25	11.473	31.227	24.5	26497.44	446.383	5.7
64.883	185.433	13.643	15.327	20.467	17.13	59983.23	859.167	5.7
51.37	143.793	20.583	32.12	18.59	39.757	33126.24	352.747	167.957
65.53	122.26	15.497	21.867	20.403	50.313	48870.93	556.767	102.647
62.103	104.78	12.35	40.177	20.14	24.65	20035.77	285.037	123.66
4.803	116.733	13.567	7.083	12.525	13.053	30604.44	23.87	5.7
36.797	175.257	17.967	23.793	21.933	29.717	75924.88	411.12	117.445
56.823	140.33	11.02	20.917	18.07	25.953	75468.7	1234.727	14.115
49.893	132.18	24.273	9.18	15.645	16.653	50145.57	338.813	5.7
62.933	114.463	6.825	20.15	10.55	28.583	36711.4	392.76	110.69
72.847	227.123	17.323	17.39	13.395	62.95	60554.27	730.435	5.7
18.127	77.903	8.663	3.787	14.61	24.277	11822.63	43.533	18.76
33.123	193.023	21.67	15.4	31.545	26.255	31982.18	529.61	16.06
47.207	164.94	16.277	15.82	36.28	29.13	44301.46	693.447	5.7
68.17	114.977	40.597	21.513	19.25	25.58	29881.88	609.373	21.19

98.247	301.55	23.333	30.423	17.34	55.033	60777.09	882.52	12.67
71.62	133.53	26.01	13.437	17.663	49.593	39078.34	198.76	5.7
54.377	176.61	20.92	2.153	20.623	55.707	65627.11	834.33	28.895
48.8	106.267	26.043	14.025	24.613	26.69	56165.55	1208.603	5.7
57.487	132.297	28.103	55.71	19.06	33	74044.62	953.277	142.467
42.093	114.203	16.28	11.25	28.17	27.297	60726.81	1173.69	38.673
45.427	122.91	8.847	19.257	14.23	37.34	46213.33	425.187	60.555
67.953	197.307	14.87	15.817	15.86	26.3	37108.78	1250.317	5.7
18.347	185.04	9.323	3.087	15.275	104.703	22563.66	146.723	14.08
45.15	176.527	18.337	13.573	19.847	16.543	56961.3	248.287	22.65
61.027	105.327	16.803	14.38	21.31	31.483	51467.29	958.763	32.485
103.103	765.96	29.72	77.273	19.34	33.867	57810.68	1453.45	15.72
48.513	112.1	19.543	22.717	19.337	37.987	61767.52	1250.193	74.223
41.223	114.84	15.92	10.803	25.44	29.827	31723.53	1062.007	12.95
40.597	92.387	11.37	9.513	11.525	30.643	53667.92	570.98	87.127
48.91	81.807	22.31	15.503	14.58	24.223	65401.77	511.693	65.28
29.117	81.11	10.987	10.58	14.265	13.365	26202.19	257.533	71.59
22.573	159.007	15.797	3.21	16.39	25.267	27774.34	435.187	19.4
79.99	146.393	25.343	17.087	26.44	78.78	56056.94	533.517	52.5
37.22	209.44	30.12	8.397	9.16	33.723	30833.01	579.463	5.7
39.097	95.423	9.183	13.053	15.63	34.413	27239.47	420.11	29.48
39.833	210.557	13.085	27.4	21.22	62.447	45683.72	515.72	211.673
58.133	214.423	16.547	8.165	13.615	47.453	36235.97	304.2	5.7
33.057	200.747	27.22	13.88	24.743	34.287	33813.38	1111.11	139.99
38.333	124.253	7.597	17.993	12.857	22.93	30920.4	433.547	55.407
24.353	183.085	10.057	9.48	16.233	39.45	20469.07	400.557	15.36
69.053	310.857	32.027	20.913	27.51	52.56	71026.8	1325.19	31.255
67.843	142.617	23.42	11.597	15.725	46.577	48875.58	303.407	21.21
59.44	187.43	17.963	31.017	20.615	19.617	26514.92	877.21	55.423
48.223	103.177	10.947	8.24	21.875	5.903	52986.93	974.127	13.03
73.647	155.067	8.167	10.08	21.355	38.16	25944.26	912.783	19.295
59.58	189.807	7.997	29.003	24.483	68.073	54341.09	1255.747	50.64
47.73	175.5	19.367	9.09	18.155	14.013	59785.9	417.203	16.505
69.44	178.337	16.523	20.517	28.295	46.117	62981.11	679.867	54.19
75.273	145.387	13.83	30.917	93.785	32.207	31201.16	684.427	52.78
46.663	155.853	18.965	14.05	15.96	35.18	40291.88	342.487	30.64
21.587	193.397	8.687	5.425	20.285	24.41	18369.02	118.053	14.52
50.697	134.983	15.4	26.045	47.435	24.207	54729.01	1155.387	56.15
36.917	130.195	25.483	15.083	45.865	51.135	25395.76	799.03	91.47
38.533	148.313	24.27	8.61	2.4	50.08	64174.97	1451.163	55.85
46.163	166.587	12.697	2.47	10.215	26.05	57916.23	458.27	5.7
18.493	83.067	22.147	9.327	8.17	21.767	31719.01	733.063	82.23
35.953	261.53	14.977	4.03	46.53	24.29	46228.39	327.4	18.665
67.5	150.927	24.18	16.32	9.465	47.407	39258.78	273.217	82.283
66.46	155.287	24.537	3.77	17.505	49.877	19800.33	687.08	5.7
29.577	164.61	6.743	5.163	15.565	15.437	28056.32	755.88	15.44
28.41	111.513	11.673	6.433	10.465	13.567	57543.75	715.2	18.305
84.537	188.323	12.27	4.755	17.235	40.827	39010.12	451.857	17.14
2.627	173.337	12.717	7.18	32.28	37.96	43439.97	1590.39	41.59
28	130.713	9.57	2.565	24.255	42.233	40483.95	177.373	5.7
29.397	182.62	12.727	5.79	17.12	29.183	48616.96	243.253	32.67
71.237	139.047	22.883	27.863	8.39	59.31	47575.69	592.763	46.625
47.063	157.143	21.83	14.637	14.815	31.63	53997.25	596.673	12.675
38.803	154.117	13.76	3.917	15.73	17.89	25120.73	119.617	5.7
88.513	188.357	35.763	34.99	24.26	67.917	34215.71	620.98	77.587
39.497	207.8	18.39	14.733	22.475	38.223	49119.03	610.993	30.595

30.783	83.85	20.15	11.553	16.325	25.833	41302.19	477.29	17.717
36.747	185.233	12.693	14.907	18.455	55.453	15845.12	608.993	5.7
33.327	179.043	17.52	26.065	27.433	16.987	18614.81	1105.777	21.577
57.187	289.79	30.653	15.215	24.673	33.843	34155.71	615.683	16.21
33.15	245.637	25.53	35.42	22.883	32.377	47892.36	467.033	45.96
71.44	126.817	23.583	15.94	25.02	21.055	54071.86	969.443	64.347
65.533	98.05	32.72	27.68	22.185	53.423	66542.16	222.267	127.843
75.683	96.58	21.737	11.023	6.995	48.37	39111.59	744.42	5.7
29.6	88.04	17.897	12.3	13.35	14.797	15265.26	84.697	5.7
90.37	126.55	23.957	25.913	15.12	23.287	48423.32	503.417	71.347
35.113	149.583	20.96	9.877	9.855	43.7	48292.35	574.383	19.52
43.847	112.487	19.373	8.41	8.575	20.883	45882.58	525.27	5.7
38.837	217.773	10.97	3.29	15.765	19.267	26875.18	222.47	5.7
72.167	232.413	27.883	23.577	21.27	33.963	26057.59	519.54	14.535
70.96	208.25	23.007	15.807	18.177	44.927	54586.76	744.55	29.68
31.44	66.917	19.407	11.873	15.723	22.82	49353.14	147.713	26.085
38.87	221.09	21.69	6.993	19.933	57.853	37808.25	482.787	17.025
58.653	159.98	19.927	44.14	17.11	27.6	65542.67	1238.32	53.29
32.883	210.647	9.973	6.253	45.61	29.237	28012.93	358.277	23.705
42.453	129.56	24.1	13.943	41.67	12.977	36752.39	509.39	15.53
60.64	321.237	31.653	13.493	33.53	45.127	42639.57	698.37	27.125
55.867	147.067	38.93	10.925	26.82	51.3	59858.45	446.21	12.435
93.71	111.59	22.21	14.23	32.7	15.987	42717.42	697.087	5.7
31.097	39.657	11.84	15.223	2.4	21.593	17796	394.327	22.88
40.807	45.963	18.51	43.94	12.32	17.987	60526.03	933.297	75.625
48.35	106.627	21.407	33.3	17.08	20.317	26548.91	196.93	106.087
62.257	141.907	21.633	3.48	18.38	22.56	35539.58	490.46	5.7
67.083	146.287	19.48	6.47	30.54	15.743	26605.72	1622.543	5.7
17.91	182.273	19.083	10.33	31.435	33.747	29882.98	851.285	5.7
59.333	199.217	11.033	11.133	37.89	71.09	25851.37	910.01	25.755
73.92	155.843	18.537	11.827	33.26	22.72	78799.97	1687.317	5.7
59.197	197.51	21.223	11.655	25.645	47.59	37504.41	686.88	5.7
36.507	151.22	14.603	11.2	32.835	32.163	42940.35	568.003	5.7
27.087	84.367	23.5	10.347	19.347	84.66	32869.43	121.733	5.7
66.093	254.35	20.317	6.76	26.605	28.063	56236.29	940.555	5.7
35.147	128.12	30.073	12.353	19.685	27.247	56204.35	531.29	5.7
22.717	95.16	19.8	14.107	19.747	18.667	45749.13	511.877	5.7
59.253	136.323	23.963	14.187	20.123	21.08	40141.85	355.587	25.92
51.6	205.027	23.15	7.703	21.973	78.16	26307.78	652.7	17.41
50	81.69	26.02	17.787	28.065	21.13	28367.08	530.373	23.14
94.313	207.287	26.27	11.31	33.81	22.537	61057.83	649.063	5.7
92.097	187.777	15.71	18.493	23.09	43.46	23548.67	541.86	5.7
47.837	156.493	12.01	5.987	19.18	30.103	17185.45	361.757	5.7
43.42	181.767	28.017	3.58	2.4	24.363	46471.27	583.57	5.7
60.39	164.747	22.81	3.39	14.85	23.247	35596.63	64.66	5.7
57.84	227.87	26.507	6.663	29.505	46.53	58743.63	820.267	5.7
61.507	133.15	18.67	11.775	23.5	28.633	39465.24	828.915	5.7
51.833	209.203	24.69	11.133	49.71	35.677	33739.96	462.7	5.7
68.42	186.643	12.453	12.617	18.995	39.787	44569.08	592.55	5.7
65.893	146.62	24.233	107.81	31.687	51.277	61066.63	555.24	2091.693
40.2	67.39	15.937	16.017	29.047	16.023	53583.98	697.297	15.167
47.307	157.853	22.747	12.453	21.55	34.2	53956.47	603.883	5.7
40.273	160.733	30.273	10.487	16.43	23.53	46890.26	623.417	5.7
41.917	114.267	20.717	9.47	17.22	17.03	55350.42	920.98	13.195
2.36	87.937	19.29	3.973	26.497	5.605	18951.37	594.18	5.7
29.55	109.88	14.027	3.047	26.327	26.657	27053.27	311.033	5.7

58.867	208.867	18.417	7.14	36.65	26.513	42509.46	599.23	16.025
61.417	134.99	13.647	16.667	22.227	18.21	21008.51	535.84	63.65
39.053	123.18	12.457	11.15	20.785	43.057	15207.87	503.017	5.7
51.38	193.347	13.903	24.89	20.655	46.767	25860.98	693.94	26.205
55.74	130.88	12.367	6.14	21.853	21.843	833.1	450.23	5.7
57.54	148.673	24.667	11.25	18.653	20.87	28817.99	473.063	5.7
73.45	93.163	18.97	11.15	22.855	43.633	50908.52	876.223	5.7
119.887	154.453	16.133	35.34	22.7	46.36	22783.48	336.81	32.165
70.363	156.593	25.823	14.263	22.9	29.377	20184.95	471.513	5.7
51.207	158.287	32.103	11.08	17.4	50.707	34497.91	524.257	5.7
78.453	151.95	8.065	9.013	21.74	38.09	21146.06	671.29	5.7
57.347	122	23.227	6.67	19.593	122.15	19246.87	425.137	5.7
1.91	182.787	18.09	12.567	23.583	28.79	26458.35	339.463	91.92
60.813	165.937	15.03	11.587	8.805	62.61	35332.51	860.09	19.33
51.92	225.1	23.927	23.25	27.703	39.75	48908.8	475.133	16.945
4.617	97.097	34.767	7.005	20.195	18.077	42517.95	938.067	13.9
23.507	114.307	15.307	10.293	21.26	23.473	10720.49	297.647	13.545
59.287	159.713	26.857	39.81	30.893	43.16	37468.35	619.347	53.84
74.3	182.233	32.593	6.75	17.097	13.955	60713.83	1221.807	5.7
112.293	198.743	29.367	27.23	13.77	23.223	64866.88	1428.247	18.167
68.433	117.9	20.16	9.343	28.235	45.543	37244.23	128.563	5.7
85.4	121.48	22.307	7.77	28.35	15.61	47292.03	455.097	12.405
23.79	218.71	12.367	4.265	30.38	20.367	40496.06	165.883	40.95
24.607	231.65	11.913	3.903	26.6	20.753	38298.69	190.6	18.545
62.407	165.5	14.85	5.723	6.885	80.183	30514.4	568.233	5.7
74.867	124.973	15.96	13.943	27.523	42.833	66417.73	1606.363	21.197
94.597	193.843	20.257	12.063	17.835	40.923	77224.21	669.273	5.7
52.413	108.527	18.38	11.097	29.04	31.04	29136.68	820.093	5.7
66.027	2234.223	39.007	60.507	11.45	59.673	41886.93	512.16	5.7
86.06	152.587	29.39	7.34	19.24	29.783	48474.8	1002.59	5.7
47.03	163.197	22.273	2.933	26.19	33.547	20291.96	818.59	5.7
59.26	135.057	15.545	27.61	24.603	35.777	54662.43	366.55	28.365
30.147	169.53	17.68	10.807	11.77	15.665	26492.48	741.867	78.315
54.517	210.937	22.24	12.71	29.045	14.633	1135.615	470.03	23.375
35.11	111.32	14.583	6.167	29.937	30.963	17756.65	615.767	5.7
47.913	87.54	28.24	12.457	26.527	72.047	28652.28	973.923	20.785
5.29	939.453	21.923	55.59	33.59	34.987	45311.85	640.35	5.7
33.667	102.857	14.357	12.183	21.49	42.93	56007.48	767.583	18.225
85.603	163.583	24.083	13.913	22.715	45.91	51392.44	836.467	62.415
69.923	147.997	12.895	12.16	9.79	48.867	16829.51	224.413	5.7
46.223	185.87	10.303	18.29	2.4	32.197	93.66	571.11	5.7
54.553	150.323	18.083	12.1	10.515	28.67	20725.59	844.103	17.27
56.903	144.72	16.287	8.825	2.4	30.073	22847.29	387.973	5.7
39.087	138.55	17.9	6.613	23.165	25.253	36944.19	729.417	5.7
79.23	117.217	14.747	10.177	39.693	18.487	40356.98	333.443	5.7
68.57	372.337	28.09	11.88	15.707	45.49	37468.57	1027.347	17.67
65.123	231.167	26.493	3.81	23.845	44.69	26466.79	665.95	5.7
48.687	157.473	12.12	12.923	31.963	19.297	43666.58	806.343	5.7
59.25	225.053	16.173	6.917	24.72	24.9	28670.47	152.237	5.7
55.243	178.587	17.917	3.387	15.68	107.92	24151.12	660.163	5.7
98.073	202.23	14.36	4.71	24.665	51.917	47625.63	647.88	5.7
79.623	222.497	22.517	9.945	22.993	20.95	21975.39	927.533	5.7
65.493	178.483	15.423	2.693	2.4	21.64	23864.62	865.393	5.7
74.417	245.093	29.753	31.013	16.81	38.11	57171.1	1489.143	22.59
66.1	175.033	35.183	18.355	28.89	533.22	55855.22	224.46	5.7
54.237	99.927	19.547	11.357	17.625	30.563	27289.46	724.507	5.7

63.047	178.537	26.66	9.08	17.11	33.15	66516.8	1076.453	5.7
71.15	119.593	24.243	27.733	20.17	20.3	57937.97	397.147	17.57
44.62	158.963	23.903	2.417	36.85	40.44	45800.64	764.223	5.7
52.12	158.02	25.427	14.467	26.965	38.713	35849.63	641.997	5.7
61.313	137.777	14.99	20.003	22.455	50.26	22168.19	720.9	15.125
43.607	237.787	21.33	16.787	9.22	40.647	22949.94	400.85	75.97
96.55	152.127	14.217	11.54	7.655	49.853	36995.21	769.473	5.7
46.003	164.713	25.64	9.477	17.505	148.67	58586	532.137	5.7
80.14	159.387	26.39	16.99	2.4	68.24	44948.05	949.5	15.63
65.92	154.077	26.483	12.417	31.08	20.62	43993.73	787.693	5.7
83.88	180.707	22.843	16.063	54.855	45.26	56191.96	410.647	23.27
72.063	206.113	16.95	16.137	33.007	26.607	40659.78	1148.397	5.7
36.583	104.367	20.06	12.64	21.77	93.677	32805.63	450.353	5.7
45.207	147.807	12.387	9.803	25.69	27.403	30315.24	453.983	5.7
69.645	219.045	18.13	37.665	36.565	31.587	1907.15	579	108.425
64.087	321.883	25.013	5.915	19.22	9.975	40170.21	820.663	5.7
83.6	116.017	28.09	8.207	20.335	35.937	72876.25	109.505	5.7
74.887	244.363	17.055	15.567	11.195	167.56	15879.99	614.55	5.7
50.53	119.47	18.333	6.225	33.08	24.76	21010.2	492.517	5.7
90.05	152.627	25.967	12.59	31.59	19.75	113668.7	1371.487	5.7
65.13	162.667	16.043	15.893	22.265	18.283	51216.39	130.34	19.735
49.277	136.613	21.04	26.975	22.8	73.327	46464.45	262.273	5.7
59.53	134.64	12.313	13.173	29.34	40.5	61503.53	676.81	5.7
63.09	307.687	26.36	29.363	43.46	53.303	44008.31	926.857	73.75
90.51	159.643	10.573	7.78	28.22	23.343	25232.03	880.277	5.7
78.537	148.123	29.427	4.035	16.165	32.997	23561.69	777.06	5.7
63.117	344.45	33.267	7.093	13.627	35.047	52481.92	605.063	5.7
55.69	139.52	13.413	30.297	27.17	35.597	45315.58	958.753	663.923
77.953	111.577	26.74	28.723	16.85	28.197	34163.81	735.847	60.56
2.52	123.49	12.6	8.585	9.193	22.997	34121.48	473.417	15.74
51.173	152.937	15.923	17.853	10.25	36.96	1473.81	76.277	25.733
43.827	97.207	23.783	17.413	14.655	29.917	41475.28	1002.827	62.22
43.557	88.897	25.917	23.2	15.72	30.307	48547.01	846.013	31.91
51.943	140.547	12.21	13.317	18.537	20.673	51373.77	507.42	5.7
56.33	135.197	20.997	9.627	27.865	52.293	56019.6	342.59	5.7
129.423	514.84	38.937	67.855	29.247	70.117	68657.59	941.937	24.59
38.227	148.78	16.677	3.367	10.76	85.023	13228.46	223.76	5.7
62.127	72.09	23.64	17.59	20.893	22.477	68485.68	384.947	5.7
40.963	176.023	19.487	7.43	23.115	31.05	52694.3	465.23	5.7
45.723	147.627	13.277	5.37	24.493	25.503	51631.36	227.97	5.7
30.76	104.35	20.473	9.01	19.69	33.48	38355.89	270.15	16.87
44.123	176.477	25.233	9.385	12.67	46.607	25256.53	421.623	5.7
62.287	192.597	30.583	12.08	19.19	43.84	47261.91	460.637	29.685
55.13	215.723	20.157	12.84	2.4	27.57	56931.68	408.53	12.485
42.21	107.417	11.707	21.86	9.385	48.527	63377.1	293.76	35.93
80.43	185.01	36.357	14.065	23.665	37.15	62294.02	1515.517	44.185
77.59	230.407	39.79	24.393	25.905	39.527	42508.64	895.137	21.73
33.633	241.763	23.377	9.275	24.717	27.567	31912	522.64	5.7
44.53	129.543	9.72	33.91	19.75	16.29	31333.1	329.633	84.11
55.06	128.88	9.96	17.993	19.645	13.93	38213.24	471.407	82.51
53.373	161.367	10.145	36.433	30.92	17.033	38322.19	790.113	19.985
43.907	102.023	20.287	12.603	22.365	62.79	32515.22	321.437	21.47
67.537	112.957	20.903	4.303	21.71	42.6	989.14	807.773	5.7
20.947	97.28	29.227	15.41	18.887	44.997	48179.34	786.627	23.383
60.94	141.573	9.09	2.083	27.74	9.94	47198.18	884.817	5.7
87.013	172.853	21.367	19.103	66.23	48.323	53062.94	1395.057	5.7

52.447	143.55	12.303	9.72	26.63	41.83	67011.55	888.983	5.7
71.337	171.713	27.473	14.857	17.03	30.63	46884.44	770.42	34.345
39.187	202.563	17.093	5.287	24.387	45.057	12642.41	343.2	13.51
60.8	187.3	28.43	23.457	20.405	30.883	50651.18	1213.857	19.305
60.137	190.457	17.72	42.2	17.44	23.18	36047.96	980.39	29.99
45.517	225.393	13.595	14.103	21.46	36.287	21832.9	397.647	5.7
55.76	590.263	31.567	32.487	35.567	42.92	11309.49	382.773	5.7
80.3	309.467	15.683	6.73	23.01	52.423	31846.85	433.99	5.7
57.623	252.16	13.927	24.03	22.083	57.207	50926.38	504.077	97.395
145.37	295.293	26.697	26.16	23.333	38.377	46257.47	859.587	104.003
21.87	135.977	30.39	24.953	19.045	7.48	57931.43	700.567	25.41
31.38	259.457	23.703	40.893	6.275	49.863	33369.47	255.137	159.497
43.21	144.687	17.127	2.545	25.96	8.06	30172.47	469.287	5.7
32.803	156.077	15.34	18.21	20.26	60.613	38538.38	467.95	30.215
23.407	92.537	7.187	55.305	19.043	23.093	23766.22	457.77	75.37
56.54	122.32	11.6	13.555	25.65	18.347	51397.65	1227.503	16.43
83.74	131.65	14.58	26.517	19.31	10.695	18225.41	636.707	102.465
38.417	129.733	20.743	5.89	19.25	36.513	38461.2	523.587	14.845
49.613	238.493	18.1	11.7	16.283	39.523	33742.91	448.08	5.7
41.757	77.37	23.34	16.553	33.355	28.353	33764.34	799.087	35.725
54.7	132.607	23.503	35.47	11.47	27.007	55463.81	818.723	82.95
48.197	190.48	19.15	26.51	17.075	22.21	53236.26	745.52	38.805
57.62	149.543	15.14	13.423	23.323	17.643	37113.96	640.46	5.7
31.01	136.843	23.01	16.84	13.143	50.75	32545.35	267.833	31.4
13.825	127.667	17.153	21.05	12.22	32.16	36977.29	477.743	157.647
49.09	121.98	18.857	22.877	14.825	27.367	66623.07	962.397	73.667
40.49	119.96	17.053	7.01	21.5	20.84	26047.68	670.9	5.7
42.64	91.58	13.177	27.707	15.74	44.02	41552.54	337.657	91.925
56.677	145.43	22.667	8.42	22.977	69.67	37714.49	594.1	5.7
59.807	188.47	17.657	27.573	14.965	35.537	32787.61	1165.483	150.58
34.367	171.55	15.565	26.62	21.27	42.87	32583.31	159.513	196.925
46.07	142.76	15.067	16.65	21.3	17.477	31159.37	703.637	55.625
63.697	146.637	12.923	24.57	21.837	33.603	41006.27	542.877	27.96
92.467	161.723	20.587	45.85	23.087	33.477	86579.82	170.973	38.735
41.577	401.897	28.003	18.375	14.09	47.123	43131.17	746.927	42.805
42.267	119.69	16.95	21.773	12.985	23.905	43771.85	872.877	19.655
38.38	214.25	28.42	20.175	20.665	14.73	91707.6	665.473	16.14
36.723	164.53	13.93	10.78	11.725	23.867	38947.27	243.03	21.12
42.323	230.487	23.69	8.72	13.895	9.17	36057.56	226.35	33.86
37.983	166.467	29.197	8.485	23.41	22.257	40619.68	438.82	16.275
68.61	139.82	19.847	15.353	14.963	29.373	18190.84	739.983	16.38
61.34	107.567	35.153	28.513	16.52	17.693	47125.5	1157.14	100.69
45.147	117.79	23.475	20.383	13.785	20.29	45065.36	333.877	32.645
31.493	255.22	29.71	23.315	19.02	48.117	62783.79	404.193	45.963
45.01	115.06	12.14	22.44	13.593	27.77	31891.08	1047.647	56.495
103.487	212.787	22.573	35.635	13.115	35.9	27405.58	796.993	76.345
43.387	169.4	15.197	13.955	13.64	26.187	25078.21	396.837	18.75
53.853	124.403	20.503	38.283	21.607	15.76	55782.38	616.953	107.795
57.453	196.517	19.6	19.33	16.5	17.583	41477.01	976.643	15.24
46.29	117.867	13.28	32.66	29.135	32.637	31393.89	378.353	41.635
43.103	21.99	15.96	10.34	18.9	23.257	41114.67	464.41	23.17
58.537	132.92	16.123	24.215	17.017	20.98	21096.17	415.593	12.285
51.02	138.403	32.86	34.153	21.633	25.413	58048.39	356.537	32.73
39.55	89.73	17.18	19.91	14.22	18.743	44005.65	361.72	5.7
76.63	133.147	28.57	23.407	18.42	15.43	34336.53	377.61	129.14
3.425	150.413	10.987	19.145	26.76	28.183	16837.8	112.227	133.337

30.313	90.397	7.927	33.267	10.745	32.447	40564.02	413.857	123.143
64.593	156.51	19.297	8.86	12.54	13.757	27766.84	325.697	35.015
60.57	137.477	12.08	29.54	14.97	20.63	41978.52	643.11	69.345
52.25	155.3	10.08	16.765	15.925	11.83	27741.45	530.547	30.535
95.693	253.89	32.677	6.715	14.83	157.797	65161.79	1019.553	48.755
50.737	107.73	16.71	27.38	21.993	28.663	10942.71	1005.883	138.86
44.793	141.743	26.78	17.23	17.91	41.53	43955.9	344.083	29.9
49.71	145.96	16.6	11.75	18.29	27.503	26792.89	532.93	16.85
59.903	143.087	24.157	11.623	14.405	28.45	45283.11	785.375	38.215
51.587	96.643	19.807	19.82	23.005	44.383	67856.74	360.223	73.2
33.8	126.68	11.943	24.23	10.69	34.01	31283.84	802.525	67.44
68.22	152.633	31.27	20.163	23.685	49.467	46976.73	965.857	51.77
49.633	55.643	24.23	32.757	12.46	42.46	20554.61	225.813	63.095
29.867	117.783	25.447	17.225	18.105	20.41	37203.32	482.855	24.23
3.837	160.813	18.653	22.39	17.39	27.01	39504.64	587.39	27.3
57.527	237.423	24.593	13.477	19.66	98.01	61584.26	784.857	22.26
65.023	180.693	8.043	10.237	11.495	30.393	45784.08	646.545	39.74
26.173	88.903	11.345	5.433	21.73	21.693	27786.34	169.637	41.86
45.317	141.397	19.39	23.87	9.145	49.567	40882.11	320.337	190.565
55.647	203.127	25.29	58.973	16.025	24.353	23396.35	640.63	170.71
23.083	208.993	16.74	12.383	22.18	24.63	44622.6	491.683	46.6
77.79	151.173	28.523	33.24	21.165	31.413	63072.24	723	87.863
43.143	197.167	13.323	25.04	7.615	24.387	43031.1	464.93	131.91
40.803	140.503	9.425	17.933	19.25	24.697	51482.34	411.22	33.595
48.793	153.07	18.447	32.3	17.345	33.14	49234.27	266.943	16.355
37.94	148.943	11.545	29.72	15.173	25.93	35785.65	47.35	36.895
68.08	183.37	25.423	21.16	15.165	80.563	51462.57	208.477	94.015
63.473	203.48	24.977	38.95	18.37	32.527	50004.92	252.603	38.29
57.243	152.447	18.857	35.897	23.72	43.493	34963.28	437.533	95.595
57.453	225.02	18.86	23.187	17.083	34	51747.41	357.757	72.7
66.01	178.357	14.25	46.633	10.325	27.147	19588.14	326.27	44.14
38.993	71.417	16.47	11.5	14.93	32.563	34165.54	748.803	52.543
51.937	324.71	25.21	41.087	7.58	45.793	50622	458.747	223.54
43.31	114.37	17.147	25.33	9.01	15.06	37900.87	893.32	37.237
39.313	170.64	19.297	12.875	20.41	38.257	50124.54	206.195	87.755
60.017	101.667	28.603	65.683	18.745	15.033	27499.9	239.78	29.78
44.9	114.893	13.89	25.81	18.82	34.813	20428.75	763.91	63.36
42.783	139.76	11.29	24.99	9.24	33.13	18983.95	461.81	193.297
32.947	185.833	15.29	14.407	11.81	25.91	19946.74	520.453	77.755
53.937	93.817	15.985	37.615	24.495	45.103	30018.23	731.223	50.947
58.447	173.533	21.977	9.59	15.973	36.267	51979.42	229.813	41.51
63.493	120.023	20.533	22.41	9.395	19.367	41908.12	1848.957	50.73
43.667	109.343	9.897	9	2.4	26.95	25822.97	307.25	53.28
40.767	123.86	20.977	8.135	25.167	9.767	39548.23	211.99	14.33
85.53	159.4	25.95	9.31	16.545	26.907	1693.945	519.887	5.7
47.843	103.67	13.257	22.467	15.71	25.35	21834.79	599.28	105.275
55.4	125.977	24.09	63.643	32.797	38.12	26096.29	1115.007	134.77
36.677	389.203	14.407	35.037	30.71	112.31	56324.36	376.36	130.407
52.887	148.207	22.247	20.723	25.14	47.96	20329.61	550.553	60.28
77.217	122.17	22.037	28.237	28.315	27.623	53483.86	632.9	38.775
45.923	206.12	19.133	35.59	22.965	22.937	57054.75	767.757	43.575
50.17	133.757	15.713	5.29	23.405	45.52	29321.5	552.21	5.7
41.073	74.017	15.893	2.575	2.4	17.407	16508.38	796.033	5.7
22.723	192.3	5.07	2.97	21.49	17.193	22871.21	401.893	23.535
18.237	142.96	12.935	24.657	90.675	48.71	49079.8	31.71	5.7
59.837	140.493	31.693	88.563	10.595	40.093	40536.4	256.103	76.825

45.903	288.787	11.14	19.22	23.24	31.707	36175.51	421.063	5.7
108.017	200.907	18.843	27.983	31.887	23.42	36547.39	2519.51	26.233
25.807	144.45	15.487	23.58	11.84	62.017	26327.15	409.13	71.105
51.13	97.407	15.49	18.37	9.455	30.897	33845.54	176.477	19.095
67.073	137.203	19.273	23.015	13.735	122.61	61240.94	548.59	37.52
54.04	131.157	13.45	10.177	13.965	20.717	48221.41	574.42	35.407
44.65	164.413	22.243	42.617	23.445	146.34	38865.17	532.15	40.055
44.87	176.507	16.65	14.593	13.05	34.257	41966.59	665.83	21.56
46.08	228.227	21.693	8.867	9.59	20.1	13630.82	639.723	5.7
33.23	165.507	20.85	22.767	18.137	21.433	43551.1	872.747	112.043
48.797	262.363	24.073	15.435	12.505	19.88	41168.36	476.097	5.7
67.65	171.657	15.913	3.15	20.12	39.013	39132.98	793.11	5.7
116.247	143.2	18.205	10.6	2.4	9.217	35903.22	376.66	5.7
93.457	172.477	24.66	14.317	15.15	47.943	37729.34	439.027	19.825
63.723	101.347	17.903	9.22	14.885	21.973	27329.12	504.907	5.7
91.1	142.093	18.217	16.93	24.85	61.14	21787.07	730.07	23.21
45.29	105.853	14.067	21.12	16.235	55.58	39022.87	626.093	40.2
50.7	184.413	22.327	39.08	23.68	29.32	58992.4	652.913	171.44
79.3	115.857	22.94	17.79	15.03	17.803	42982.83	312.71	5.7
59.827	261.16	21.033	25.213	26.01	29.963	79498.25	1165.633	30.33
30.927	98.073	14.735	10.797	20.96	20.223	19670.34	243.813	20.65
93.293	243.417	28.06	5.64	23.96	24.007	59350.45	1625.103	5.7
78.013	223.34	13.54	23.335	38.635	24.057	58758.57	187.005	13
39.54	122.313	20.385	32.033	22.19	43.223	35276.66	69.933	46.837
46.55	109.17	8.063	15.875	14.02	23.13	15212.25	775.39	15.02
62.503	193.687	30.14	25.04	26.507	33.317	59504.35	923.123	5.7
54.233	89.03	16.117	8.845	10.255	33.287	27219.51	890.04	19.8
53.717	87.89	14.39	12.005	14.81	17.82	34600.11	408.957	16.115
42.58	115.723	14.597	4.107	17.3	20.58	48855.47	576.393	26.63
74.03	125.303	22.147	14.335	15.23	43.23	48303.27	555.61	57.895
53.487	123.367	17.857	5.553	12.625	9.32	40811.09	534.8	5.7
4.197	177.263	18.425	21.713	19.545	56.277	21842.13	434.35	40.61
45.503	205.503	29.34	24.823	22.29	32.677	94990.33	1079.65	37.995
49.31	375.433	16.66	24.223	13.85	26.467	38233.5	528.857	49.17
50.227	322.307	13.15	10.457	14.58	31.243	24075.69	310.833	5.7
57.317	111.5	17.955	11.56	23.84	9.733	18388.59	511.95	5.7
64.563	161.597	10.773	16.633	25.143	34.593	27257.51	360.253	5.7
39.293	82.45	15.553	25.573	11.985	16.723	45824.42	1260.047	258.617
44.28	96.127	20.047	23.327	21.455	20.95	22795.63	616.563	29.385
68.98	90.047	11.797	24.353	8.89	16.51	27889.52	945.06	97.705
53.833	96.07	10.84	22.725	12.47	27.877	36935.55	552.2	141.38
57.857	206.24	13.553	11.23	2.4	29.447	35880	700.377	5.7
56.98	126.84	25.047	11.62	4.92	27.897	40028.2	583.473	5.7
63.74	71.437	18.373	45.497	2.4	26.413	48753.75	350.4	171.423
119.697	205.62	33.44	26.81	12.235	51.067	50659.38	874.887	5.7
63.773	102.117	22.36	42.16	16.47	34.563	30752.34	269.157	247.885
63.483	125.99	14.33	12.157	9.325	56.687	1647.405	481.547	5.7
68.433	221.78	22.653	12.797	20.29	38.86	35719.22	319.83	33.975
97.88	131.903	20.1	17.143	35.065	27.54	59037.55	419.17	43.615
74.713	300.783	32.473	23.87	33.18	63.717	45755.59	881.953	109.99
102.927	145.07	28.467	33.973	21.075	26.92	53830.63	857.2	136.543
64.43	179.517	15.003	4.2	25.633	31.517	23021.84	271.223	5.7
63	160.703	9.455	28.043	38.123	18.163	64715.34	955.11	5.7
63.607	361.03	12.56	30.913	6.53	30.56	47152.84	758.35	5.7
52.077	136.273	7.45	5.4	2.4	36.19	12259.13	370.053	5.7
42.727	61.467	12.15	5.205	19.12	16.023	56781.73	718.943	11.79

51.407	163.523	16.773	10.325	22.48	27.31	55981.97	294.807	5.7
39.84	142.72	19.327	10.547	28.14	24.49	21159.76	641.197	5.7
17.693	91.863	15.323	24.903	7.53	19.317	28240.05	315.36	44.92
48.307	131.203	11.217	10.027	23.42	12.66	28919.87	346.523	5.7
18.44	164.18	17.253	12.73	33.305	43.02	33148.57	733.28	36.64
28.937	152.977	11.697	12.287	23.15	23.573	34085.16	356.517	40.86
28.023	138.013	14.31	15.56	17.55	23.813	30887.31	354.633	43.215
5.27	222.663	19.327	14.293	14.73	29.84	31719.78	695.007	30.08
18.437	211.95	18.95	29.067	24.723	36.1	20711.27	919.1	34.995
67.707	117.17	14.627	25.66	2.4	27.043	25571.16	1248.517	5.7
67.063	167.44	18.35	22.373	29.055	27.92	29899.33	273.037	16.985
69.883	76.53	14.577	6.353	23.045	100.57	44389.8	435.54	5.7
50.567	148.12	23.63	29.627	25.415	203.727	30601.12	315.277	5.7
51.383	108.037	21.98	10.747	17.56	16.64	42750.85	622.907	17.66
66.747	371.253	16.06	22.437	49.79	25.157	449.795	879.93	5.7
46.827	127.793	25.787	54.583	23.275	22.99	35584.45	424.773	150.58
48.467	232.823	20.057	8.023	21.08	29.043	35800.99	862.03	11.68
37.203	150.9	20.627	27.74	7.43	24.593	23650.18	454.38	132.225
42.36	189.26	18.767	15.907	2.4	23.197	25009.94	419.067	156.6
29.303	128.42	16.137	8.53	20.61	49.083	33007.02	161.47	18.175
45.37	116.76	13.217	7.06	2.4	40.707	33918.51	635.177	5.7
33.003	175.263	16.113	9.857	25.537	21.453	12865.37	451.763	25.62
40.723	83.93	15.523	17.85	29.897	12.86	55561.56	452.597	5.7
41.987	135.34	9.66	5.8	38.76	23.103	23147.09	483.543	5.7
66.683	166.26	18.967	18.243	37.81	20.9	50380.5	427.77	5.7
70.533	187.037	24.09	5.023	41.64	24.057	37598.73	374.033	5.7
42.24	119.643	12.79	14.965	33.03	29.8	26419.21	1125.373	5.7
37.19	206.17	16.243	13.68	29.26	39.32	20530.77	645.407	32.8
46.857	119.303	22.007	6.92	13.31	14.123	28370.52	554.8	5.7
32.25	109.627	23.03	32.15	22.3	16.417	49136.33	223.32	57.31
76.203	169.257	27.047	14.097	22.645	22.033	40848.58	648.04	13.04
50.387	144.673	14.7	31.027	23.2	21.555	22809.41	996.077	5.7
73.76	208.127	22.973	10.745	19.89	45.183	35668.81	414.873	5.7
50.94	260.277	16.32	28.06	17.815	46.58	23945.27	409.623	47.185
30.693	93.087	9.575	8.24	2.4	14.797	16795.48	191.84	17.305
40.897	158.903	23.01	10.717	2.4	63.283	1863.833	209.877	5.7
40.307	120.237	12.82	16.573	17.015	26.977	38045.2	1896.723	13.89
35.667	92.773	18.487	5.167	14.28	19.403	50271.55	326.11	23.7
44.74	163.68	8.367	11.007	2.4	23.343	63103.37	384.057	42.955
54.883	189.447	18.83	27.207	40.85	34.71	35407.3	778.357	13.84
58.553	123.157	24.073	17.02	43.313	25.933	51925.04	751.35	5.7
40.827	123.907	18.147	25.397	25.88	39.62	51472.12	414.923	142.443
54.337	126.937	24.85	20.995	2.4	38.997	17117.87	58.33	188.18
66.937	155.853	11.8	9.185	39.25	30.98	23664.54	611.283	5.7
69.517	185.607	15.91	12.47	24.285	35.23	42024.46	553.683	17.1
58.407	105.883	14.7	22.737	11.44	15.937	35076.78	1312.317	72.785
62.553	153.95	23.283	18.857	34.38	37.927	67988.16	476.857	5.7
46.013	95.957	19.325	38.42	12.685	27.337	68553.25	872.963	125.785
38.033	151.953	14.08	14.893	14.22	21.65	37083.52	759.483	16.07
26.477	117.78	10.367	2.607	26.137	17.787	41992.07	253.043	5.7
38.117	101.327	21.525	5.97	8.35	16.04	29799.35	323.547	13.76
50.583	102.153	25.96	8.11	24.365	24.163	68256.8	653.993	5.7
2.57	149.733	19.483	6.78	42.37	27.393	286.495	988.147	5.7
54.76	115.183	16.94	18.43	13.147	20.013	38065.23	653.6	34.705
3.345	107.393	17.52	9.553	20.34	24.51	30914.22	845.637	5.7
51.103	873.73	37.723	19.865	32.45	32.45	51577.09	664.82	5.7

51.427	176.487	16.995	27.2	14.005	32.747	24947.84	840.193	81.9
25.09	83.757	10.39	12.247	9.725	25.163	14666.36	544.85	31.685
24.86	308.937	17.997	21.277	17.85	19.713	30408.66	376.88	50.233
47.547	108.067	17.857	24.04	20.91	9.915	20147.19	553.73	46.355
34.203	133.72	13.715	23.82	12.44	57.317	28150.69	244.227	85.703
55.873	125.353	15.175	18.503	10.935	46.703	19364.81	313.213	125.47
33.807	93.937	19.413	74.37	15.94	30.623	27052.07	52.847	462.297
44.59	189.5	16.21	7.935	28.11	27.913	33976.34	269.283	27.44
37.28	122.157	17.407	38.5	12.125	48.26	34253.16	383.717	29.515
44.16	116.177	15.4	22.967	2.4	29.753	34951.64	503.917	17.42
41.623	141.16	11.605	25.185	14.553	14.89	37965.95	319.387	34.4
62.137	385.053	12.84	64.75	2.4	28.837	20168.83	594.473	524.79
2.79	144.61	16.9	37.993	16.78	41.97	57313.97	688.607	62.305
46.47	260.293	18.647	52.46	12.365	16.42	68182.68	1482.47	72.95
49.02	121.793	25.203	26.013	8.75	26.89	58645.18	695.463	136.13
39.573	231.117	28.257	17.897	18.627	34.393	40320.36	250.77	23.88
38.497	129.31	13.693	14.393	22.575	21.68	40113.47	487.297	13.77
23.38	105.643	9.317	10.655	18.48	20.327	43552.58	469.55	46.31
31.66	153.707	14.15	29.49	32.355	20.76	27997.75	623.073	5.7
72.79	59.66	20.82	25.025	2.4	30.453	19224.27	661.473	90.27
58.96	105.86	22.573	22.91	13.06	2.84	30160.19	307.407	92.097
50.107	124.41	21.7	29.25	14.265	21.235	49707.14	642.64	5.7
75.66	116.077	16.62	24.457	17.645	17.583	41504.06	772.295	5.7
34.907	213.807	14.933	2.553	25.145	47.893	55462.22	423.987	5.7
50.06	197.457	43.747	60.203	12.98	163.347	40999.86	348.09	512.315
62.84	142.317	25.703	26.617	19.465	23.483	36256.46	380.533	121.695
61.157	97.267	21.303	23.613	31.655	16.847	54157.81	681.4	29.145
37.183	169.147	13.283	31.797	8.08	21.837	38842.07	335.133	422.065
2.295	122.873	20.473	9.08	22.335	20.833	60184.06	968.61	5.7
45.837	73.603	20.14	5.95	2.4	17.767	49736.17	834.303	5.7
39.18	111.01	14.833	5.9	13.925	15.137	34077.58	661.027	5.7
56.773	115.02	10.765	17.93	5.16	33.147	35671.71	749.667	42.38
66.357	126.533	12.42	30.767	14.965	37.15	53297.8	814.343	109.35
14.763	111.347	6.15	11.875	13.495	39.98	11301.63	51.823	89.28
52.923	215.133	21.32	27.285	33.39	18.413	44108	666.303	27.235
54.45	163.203	27.377	22.83	18.91	20.993	30122.52	509.543	32.435
28.057	78.91	14.843	26.123	13.217	16.987	25781.17	135.983	179.735
46.847	369.367	32.713	20.56	2.4	26.987	108325.6	1094.25	5.7
75.033	145.66	26.08	14.38	24.02	28.317	17735.41	978.317	27.72
90.723	165.93	24.26	21.593	13.18	28.09	53202.47	567.343	30.203
47.073	98.01	15.58	18.353	24.16	39.487	29180.23	387.16	16.595
67.473	132.593	15.823	17.59	32.51	24.41	48021.75	620.01	5.7
81.49	152.76	16.877	35.353	9.825	33.08	40751.25	328.583	54.345
21.31	250.99	24.277	10.93	20.78	48.5	23136.07	695.347	17.01
99.267	173.66	24.617	28.615	25.477	33.08	74680.09	517.117	55.455
108.963	141.64	24.377	19.56	32.145	36.943	36717.28	552.587	12.455
67.34	165.937	16.843	5.89	12.13	26.823	39863.19	321.767	36.845
19.353	74.153	12.605	6.86	8.95	57.93	28123.54	258.24	99.235
45.053	125.577	12.86	36.56	7.18	46.937	43253.29	183.003	171.425
33.527	190.49	14.203	22.365	9.66	36.963	36719.19	599.82	89.693
52.01	134.68	12.82	17.01	8.075	17.417	24749.24	266.16	178.525
52.927	206.473	26.62	18.03	12.635	25.99	56335.86	510.63	143.547
48.217	324.92	23.763	30.007	29.62	46.167	47696.23	1152.913	55.47
44.917	111.577	20.7	20.19	12.165	41.16	13064.3	659.78	150.76
83.51	123.107	26.127	30.615	17.61	57.04	57419.2	619.275	169.18
50.107	238.487	23.98	13.82	5.74	21.58	33465.67	533.43	5.7

63.193	240.333	24.2	8.085	61.36	21.423	32968.7	542.553	5.7
2.935	161.237	30.84	22.95	11.337	34.793	37353.13	845.397	104.715
44.057	120.77	21.5	21.96	18.33	22.257	29328.58	442.127	77.295
50.49	91.16	16.37	18.64	16.915	25.343	86686.23	1172.943	51.005
68.867	193.13	21.993	12.46	12.663	48.863	60922.74	1021.8	95.14
43.39	179.137	27.7	15.09	9.835	35.355	31474.65	403.51	78.435
44.217	240.683	33.977	13.157	18.985	39.243	65538.66	747.477	17.725
35.903	154.587	20.773	25.01	22.313	44.847	60794.51	698.453	29.855
74.117	110.543	21.04	32.22	12.297	27.493	38326.95	639.547	125.48
52.463	250.563	33.79	15.7	7.645	28.127	36082.21	162.433	91.975
37.27	207.26	34.033	13.88	6.607	21.53	41132.54	268.15	71.065
48.307	63.223	8.33	23.43	27.69	53.435	37964.72	620.15	140.48
52.143	16.03	18.103	12.773	6.16	23.3	34338.31	449.8	43.02
55.057	181.493	18.23	2.377	21.675	23.663	42897.77	499.863	5.7
47.34	255.62	21.78	17.45	15.875	19.587	40511.96	654.853	202.035
52.007	143.057	21.29	13.32	13.91	38.483	37487.96	325.71	69.19
48.393	129.16	25.48	13.155	10.56	22.153	60619.02	402.883	108.455
42.483	205.01	23.63	27.485	12.8	37.945	40378.45	586.823	75.72
54.383	198.897	17.38	43.09	15.5	45.297	20476.41	1517.07	78.485
4.41	130.25	9.29	10.145	10.547	17.207	19417.92	380.647	87.53
60.093	186.167	31.963	10.39	15.683	44.477	35968.98	734.147	53.84
77.51	198.327	20.223	14.285	12.637	76.147	38045.09	815.11	82.7
16.103	181.207	22.29	15.43	21.613	95.277	35972.49	296.547	188.135
45.5	115.3	17.373	8.44	12.1	19.107	19302.46	716.053	5.7
92.117	126.953	14.205	48.905	16.94	14.66	49537.69	759.075	119.41
50.177	259.323	13.377	32.91	22.615	36.817	25022.43	234.723	59.987
60.597	258.91	13.58	43.707	18.02	24.17	18656.02	303.66	52.68
57.227	192.257	18.605	29.96	20.65	23.74	18853.64	171.217	74.115
58.74	159.797	21.823	20.155	7.96	22.717	53825.02	826.52	79.53
47.657	127.137	19.93	22.17	21.89	28.013	48144.29	1068.763	111.855
33.493	138.603	16.075	14.75	8.187	31.317	49335.56	218.38	124.855
34.293	157.453	21.967	41.603	13.785	41.793	26777.71	409.73	140.65
81.763	150.523	25.167	29.87	22.633	32.303	70614.59	781.32	52.865
64.65	244.99	41.647	30.937	11.115	64.997	28789.05	484.987	118.36
55.307	111.853	23.603	20.615	14.685	16.447	31078.73	795.677	215.775
21.057	126.927	10.895	8.975	9.335	68.727	38643.43	167.417	68.46
54.06	245.443	18.69	15.575	13.663	34.39	23228.88	324.427	152.02
34.96	172.573	18.16	28.97	14.31	29.283	55775.14	772.165	85.885
32.177	120.41	24.397	17.705	19.28	24.887	51090.04	1363.84	49.785
27.64	222.427	19.89	13.855	9.217	39.607	76194.66	403.813	50.33
71.217	141.983	20.715	13.48	23.3	36.433	60573.9	858.953	166.895
52.75	128.377	20.503	9.08	13.165	24.85	29207.81	912.323	116.415
50.07	70.363	9.297	19.9	11.3	26.94	29798.64	612.083	203.685
34.527	105.067	26.423	32.085	14.065	18.163	38435.08	440.753	229.23
44.227	174.503	25.043	32.445	15.87	50.083	48451.51	782.197	66.655
36.637	161.983	8.745	6.09	10.48	21.583	43082.01	166.57	128.49
28.05	152.997	11.94	11.59	15.215	26.06	19644.13	621.017	47.66
52.73	118.437	17.06	11.285	18.317	33.707	42829.72	773.403	89.625
49.607	137.847	29.217	13.803	15.37	26.253	54761.15	1156.797	93.085
80.273	137.567	20.12	22.515	13.707	9.035	28989.03	410.36	88.43
61.457	89.09	14.08	20.703	10.375	22.51	18060.95	530.053	82.975
25.467	219.203	13.135	6.62	9.99	25.287	12917.3	155.16	113.495
52.67	183.983	30.533	21.35	15.86	56.935	36656.44	795.317	162.37
47.787	134.337	10.647	26.78	17.34	25.827	20857.13	621.29	27.8
52.31	120.377	24.4	33.54	6.725	42.057	26895.69	832.28	99.275
53.087	162.393	28.023	24.707	7.98	23.03	30438.81	460.49	17.775

38.073	240.377	14.385	1.79	10.49	49.463	45885.82	361.57	5.7
90.143	120.173	17.52	16.985	19.685	42.537	49660.67	1819.223	134.18
34.437	147.333	11.01	11.465	12.937	24.23	34197.85	434.79	69.455
24.793	123.987	12.757	10.91	25.57	23.04	38773.88	689.293	32.36
47.78	155.073	24.37	16.38	18.96	33.103	16296.59	568.223	104.585
74.12	176.903	27.777	14.09	25.257	51.413	40539.43	1440.383	98.685
52.47	114.923	31.883	10.34	8.74	17.463	32820.34	526.963	79.03
130.063	198.587	24.497	71.29	15.305	30.633	26545.94	754.257	146.733
49.573	122.563	13.57	35.895	11.495	11.423	32335.34	581.45	153.417
36.727	156.537	23.63	29.91	18.82	37.343	24473.72	609.87	51.825
45.547	137.763	20.857	31.305	18.775	13.97	32713.23	688.517	61.823
83.607	144.67	33.747	43.983	17.767	34.663	58412.29	799.587	132.927
38.043	115.717	18.83	19.88	9.905	39.77	37538.52	405.077	57.815
43.623	135.84	13.963	17.92	11.52	18.6	40830.77	833.143	137.685
29.11	157.98	25.16	11.653	2.4	53.483	24434.38	531.237	158.3
46.607	125.317	21.743	17.675	12.51	40.663	22668.19	558.957	116.28
58.197	115.877	25.037	14.38	21.01	46.403	40078.83	491.43	61.73
56.29	162.863	13.077	13.773	10.477	42.897	21139.19	570.153	122.455
90.897	85.71	13.26	21.98	19.793	44.683	58683.47	847.933	38.955
62.35	316.72	16.993	15.72	9.24	20.793	32651.52	642.457	22.425
44.26	135.763	17.867	17.4	12.285	66.5	37713.14	442.743	71.607
80.863	117.923	18.28	30.537	26.16	23.403	32676.1	477.84	13.895
71.837	87.35	20.13	14.385	20.475	47.39	33178.15	945.14	168.05
54.91	194.96	22.617	12.955	13.963	26.793	26494.05	533.76	90.82
27.563	94.213	11.303	9.66	12.543	35.83	54970.27	689.43	87.14
44.343	108.917	15.467	22.545	12.893	17.397	764.95	94.877	125.88
61.617	115.237	7.877	32.105	23.17	41.147	33296.68	849.897	117.47
24.133	143.623	9.577	11.085	10.38	55.03	25085.11	580.34	61.335
65.343	199.973	15.55	10.443	11.867	20.48	40249.09	383.677	119.595
32.557	112.87	18.24	4.085	19.167	53.25	11922.53	435.397	50.17
32.683	161.727	15.8	21.57	11.1	43.873	21705.88	764.093	104.155
47.61	113.303	11.453	20.355	23.505	19.18	21582.77	318.133	13.87
39.18	111	16.333	16.84	34.12	15.12	43030.12	701.257	5.7
54.353	258.3	17.265	16.22	2.4	32.793	36043.42	482.91	216.03
66.19	176.763	20.907	22.505	19.735	66.847	32598.94	759.117	42.02
54.847	106.257	27.06	20.495	13.5	50.947	31939.12	568.11	49.775
120.973	3132.99	49.487	413.577	11.147	41.12	32727.01	14.53	275.567
69.18	173.163	31.367	28.147	12.36	119.88	32444.89	355.73	192.47
32.74	190.4	20.633	12.08	14.98	35.367	40252.97	539.56	47.695
42.83	106.53	17.627	21.455	5.86	18.98	386.22	328.133	56.555
38.743	126.787	16.51	32.43	2.4	26.627	19508.42	158.517	226.423

FGF	HGF	PDGF	TIMP-1	TIMP-2	VEGF
9.8	1412.273	1242.257	154843.7	83135.45	197.423
9.8	1224.753	1554.205	201910.5	95277.88	143.177
9.8	1685.83	816.28	255903.1	127534.3	47.73
9.8	855.56	2.637	160534.3	91896.04	1.4
9.8	1103.893	363.243	170815.6	91908.8	168.38
9.8	1240.743	490.125	164141	97834.51	163.873
9.8	967.03	785.597	139291.3	90790.25	164.583
9.8	1741.28	709.013	118303.1	17475.85	104.357
9.8	1228.583	1228.77	197973.7	84974.94	468.993
9.8	1234.327	574.853	10106.29	87020.39	142.043
9.8	1024.333	704.603	181014.6	105048	83.043
9.8	1281.15	475.84	173858.5	91051.93	210.887
9.8	1112.03	428.16	129443.1	77943.68	149.497
9.8	1125.317	550.097	222655.8	97525.55	164.817
9.8	1645.797	904.975	175560	104062.3	346.14
9.8	1166.293	800.9	8930.893	105710.8	160.213
9.8	1474.413	986.727	8235.89	87067.83	362.157
9.8	1335.267	855.753	7853.343	17011.98	130.447
9.8	1059.837	482.407	8010.947	124258.5	124.423
39.595	1991.55	1272.967	7701.003	17070.83	379.61
9.8	1553.373	696.033	8428.07	14438.05	188.96
9.8	637.45	208.01	9022.427	95101.65	93.803
9.8	456.97	61.117	72238.63	83037.29	50.7
9.8	1435.11	286.99	149499.1	16171.1	78.247
9.8	1337.883	949.037	166229.7	34374.49	161.933
9.8	1255.54	463.733	175634.3	26526.45	146.053
9.8	1263.053	627.08	222239.9	24209.11	95.853
9.8	926.91	486.69	198094.2	23045.25	81.153
9.8	1290.53	595.877	192595.5	20824.7	123.643
9.8	1171.653	469.183	155035.1	21940.29	113.897
9.8	943.85	90.537	160024.2	19988.18	24.2
9.8	515.543	184.79	132741.6	19799.57	56.743
9.8	577.637	142.74	101040.8	20253.23	70.68
9.8	1152.137	1311.04	207218.6	23462.46	142.09
9.8	1598.043	711.907	154546	27527.83	164.407
9.8	1032.177	978.28	237923.7	102740.8	172.77
26.1	695.847	784.957	247381.4	102787	151.393
9.8	1067.863	1129.95	190220.8	96320.77	188.557
9.8	367.42	659.44	223495.6	93261.39	194.6
9.8	995.583	761.843	203795.6	133988.5	162.617
9.8	1009.977	679.427	175539.2	87998.05	193.91
9.8	1533.85	668.543	187120.6	86522.66	239.167
9.8	1374.43	972.583	186173.6	98734.69	319.133
9.8	938.6	1017.27	173506.7	18723.99	245.25
9.8	1605.467	857.48	177352.9	95428.75	81.603
9.8	866.147	815.13	134722.3	77877.36	132.16
9.8	849.12	744.103	177193.2	93063.03	118.133
9.8	1313.157	886.16	191077	94463.13	362.883
9.8	1203.743	944.087	221869.9	94531.95	162.977
9.8	2383.88	869.607	159407	90133.62	151.12
9.8	1860.303	306.52	224919.7	109701.6	191.533
9.8	712.6	177.677	95119.09	90375.79	66.09
9.8	1136.1	832.853	172169.8	103162.2	149.477
9.8	1180.397	622.333	189718	104480.9	125.88
9.8	1321.983	1055.513	195314.9	104956.9	151.87

9.8	1614.433	631.403	160381.6	95897.27	217.787
9.8	1093.967	440.307	152043.2	93688.77	139.56
9.8	1448.563	931.693	188180	94707.48	156.827
9.8	2113.297	656.325	175359	90952.06	203.61
9.8	1293.753	1315.43	233175.7	125461.9	245.07
9.8	1975.19	705.073	217331.4	96856.41	197.85
9.8	1164.04	785.38	179150.3	27461.29	129.66
9.8	1295.11	656.33	183677.7	23005.69	157.853
9.8	591.437	152.27	157908	20677.07	56.943
9.8	907.997	1019.02	187944.8	17858.83	115.207
9.8	1309.003	375.2	178652.2	16530.98	105.18
9.8	1837.46	669.647	198035.2	17606.34	86.863
9.8	1399.7	1107.77	173306.6	17548.89	91.19
9.8	1237.173	556.53	6411.997	14822.4	134.383
9.8	1316.477	796.2	262710.3	20333.57	154.947
9.8	1447.89	869.51	257358.4	23599.43	132.34
9.8	1431.817	832.023	230314.6	19504.14	112.157
9.8	861.937	571.98	263081.4	19994.27	265.713
9.8	3175.413	873.7	237023.3	17987.2	194.94
9.8	1073.867	739.137	273903.3	20048.27	110.91
9.8	1607.99	988.657	206999.4	16085.84	215.187
9.8	1504.013	1536.017	249000	9808.757	284.753
9.8	1333.7	818.937	208017.8	17147.05	185.227
9.8	1019.857	744.847	224251.1	21001.35	97.69
9.8	1244.563	1373.28	195018.5	18672.12	183
9.8	1426.303	1165.377	244727	19393.56	413.79
24.07	1895.983	1113.7	176597.8	88405.34	196.02
9.8	1383.917	605.193	159503.5	33925.21	159.213
9.8	821.293	1210.713	182796.4	28116.64	161.19
9.8	1567.313	539.9	173679.5	23626.66	129.14
9.8	1503.31	740.49	168177.2	21958.84	93.237
9.8	1452.62	1810	226561.7	23030.54	360.57
9.8	1362.177	706.427	184951	22174.69	199.08
9.8	1385.46	5.25	157341.7	22484.35	1.4
9.8	972.903	1151.313	143836.9	20658.56	181.59
9.8	925.243	925.625	177945.4	23050.83	300.897
9.8	1177.35	186.48	145796.3	27309.22	31.497
9.8	1148.153	1142.987	170809.6	108329.1	214.77
9.8	1008.273	584.683	184790	103815.1	268.03
9.8	805.1	653.987	230227.5	89666.27	128.303
9.8	719.553	242.227	177725.3	99290.26	87.363
9.8	1676.073	503.33	164235.9	85319.57	240.883
9.8	920.86	302.15	205819.4	94340.89	76.213
9.8	1215.91	691.747	192428.4	95610.33	313.313
9.8	915.473	187.875	182315.8	93631.14	43.18
9.8	941.917	367.953	158828	92257.82	148.183
9.8	1688.26	490.785	177353.3	63376.91	187.297
9.8	1629.7	384.09	216087.6	107444.7	107.225
9.8	2485.877	645.53	273158.1	113963	133.893
9.8	654.843	423.813	153518.6	91057.79	80.98
9.8	866.29	424.773	135407.8	113736.1	137.953
9.8	1230.82	667.21	139045.6	93450.43	111.547
9.8	1745.367	782.987	191542.9	113087.4	213.55
9.8	1102.253	454.52	130314.2	98252.42	105.387
20.475	1928.773	1195.353	179629.6	104995.3	333.71
9.8	1010.207	964.58	146757.8	104123	274.557

9.8	878.123	438.38	164073.9	96904.29	111.977
9.8	968.18	501.005	149392.2	117484	75.067
9.8	1854.33	611.703	132809.6	93569.66	251.32
9.8	2074.633	701.57	131693.9	108219.9	230.103
9.8	755.38	954.37	200440.9	102713.4	202.08
43.655	1453.437	980.957	155586.9	100496.5	144.25
9.8	1372.84	871.833	175720.1	87427.55	110.567
9.8	1933.7	352.06	228123.1	111329.8	174.5
9.8	2642.42	266.25	159255	78993.38	123.62
9.8	2095.43	844.02	8209.21	96729.61	281.91
9.8	926.18	436.473	8784.117	115114.4	77.663
9.8	3490.263	120.265	6586.235	87449.43	44.115
9.8	686.857	186.543	7734.22	91091.39	113.87
9.8	1183.32	770.52	8674.857	101918.7	224.213
9.8	783.553	961.813	7904.265	95843.36	170.063
9.8	968.123	771.497	207189.5	126148	73.18
9.8	849.003	443.733	155215.4	130011.6	89.897
9.8	1602.15	910.273	190777.5	87796.98	334.907
9.8	1335.043	331.835	180719.2	107921.8	151.52
9.8	1252.64	490.543	146715	75906.48	197.94
9.8	1260.163	948.57	250435.2	31349.76	319.883
9.8	924.05	898.243	241184.5	32511.27	235.04
23.875	1287.657	721.82	154508.6	27557.86	169.167
9.8	1067.72	510.07	126145	26507.69	135.687
9.8	1168.72	1270.7	202098	21680.54	516.35
9.8	513.583	1277.033	168198.3	21022.28	220.983
9.8	575.46	464.915	112527.7	23006.68	69.767
9.8	1149.2	811.365	152793.5	32677.8	160.733
9.8	940.977	712.55	166480.2	29321.61	120.53
9.8	1595.55	539.677	171267.6	102207.4	111.297
9.8	1356.223	929.027	181177.7	96913.45	192.533
9.8	1034.53	1070.86	158786.5	117139.7	205.283
9.8	1298.28	804.527	161356.9	124407.5	170.057
9.8	1071.547	496.433	145526.5	27295.45	108.653
9.8	1256.86	261.547	156664.7	94403.02	152.683
9.8	998.88	581.385	132177	27262.53	93.385
9.8	1226.457	829.65	131618.1	29074.81	342.81
9.8	2551.357	697.21	166215	27917.66	183.92
9.8	1688.847	664.777	190829.2	30414.75	49.617
9.8	1816.48	698.947	138824.8	86162.8	253.323
9.8	4365.76	734.58	164437.4	26475.03	168.473
9.8	1345.767	745.91	146031	97777.55	103.767
9.8	1155.923	340.647	139820.6	93725.85	130.115
9.8	885.12	267.995	118785	113046.9	70.445
9.8	1142.187	337.303	156023.2	26345.86	70.26
9.8	1598.877	316.385	128431.5	23448.96	89.67
9.8	1220.933	676.313	195546.7	87818	96.485
9.8	1285.637	587.273	171818.5	25443.41	167.917
9.8	1215.27	691.153	230487.4	23684.1	160.7
71.605	1839	2020.007	281003.8	94416.83	258.743
36.83	2259.857	822.677	148416.5	28431.48	118.717
9.8	1474.047	807.097	165981	102557.9	107.383
9.8	1107.953	850.747	9133.295	28698.07	149.137
9.8	1997.893	545.417	157300.4	23690.92	249.977
9.8	1634.07	285.437	140899.4	22146.18	130.977
9.8	1321.777	369.677	9621.44	25736.24	40.583

	9.8	1220.573	524.47	222761	124014.7	113.123
25.875	1413.08	818.76	131295.5	91348.91	220.607	
	9.8	1644.777	995.177	188285.6	27431.56	195.497
	9.8	1408.857	542.853	178533.2	94333.58	65.335
	9.8	1109.883	395.705	164187.3	105649.3	115.62
	9.8	1647.163	603.283	169367.8	28267.25	249.707
	9.8	1680.203	569.36	131918.4	32570.59	172.943
	9.8	1649.64	1130.827	151489.5	93206.77	184.887
	9.8	1230.59	670.91	159188.6	25797.64	249.65
	9.8	953.233	1097.197	204019.5	100998.7	205.357
	9.8	1040.57	462.09	136970.3	30259.76	95.227
	9.8	1714.973	434.24	140414.3	25778.65	135.927
	9.8	1281.467	593.383	226947	29843.72	115.183
40.605	1540.88	955.67	119554.6	21912.09	113.923	
	9.8	1445.113	566.95	9101.487	25627.14	133.517
	9.8	1377.65	582.937	216481.3	28972.27	248.59
	9.8	1306.313	567.85	144458.6	85310.6	206.223
33.015	1118.263	800.29	138544.2	88176.89	154.063	
	9.8	1187.617	518.653	200557.4	34265.34	120.86
38.6	1276.937	1340.635	152778.5	25609.33	276.697	
41.265	1329.097	459.93	127271.9	23301.52	109.973	
24.945	1748.07	584.803	9314.047	24689.13	92.91	
	9.8	820.2	471.663	162103.2	108419.9	77.037
	9.8	894.157	474.41	159304.2	105854	80.515
29.803	1419.77	5.387	155599.1	21974.59	4.795	
	9.8	1374.367	507.8	156997.8	111241	73.373
25.29	1277.653	593.83	132102.2	24755.86	130.985	
	9.8	1877.453	992.19	158361.2	93280.95	194.263
	9.8	965.127	319.355	128643.2	83947.15	166.333
	9.8	2673.043	465.363	122928.1	28827.65	226.755
	9.8	1212.09	349.285	162862.1	3845.853	112.497
	9.8	2059.817	1362.893	170053.2	26750.94	250.16
	9.8	1827.107	562.123	175259.1	89355.32	156.357
	9.8	1274.05	676.37	145761	104917.2	202.977
	9.8	1720.93	255.335	228033.6	24754.89	143.91
	9.8	1608.987	683.313	144574.4	90808.63	175.857
	9.8	1725.09	1046.363	183846.5	21371.3	297.193
	9.8	1723.783	1085.903	227187.1	87751.16	114.58
21.315	1536.267	845.017	168749.7	27217.91	289.873	
	9.8	1620.893	543.373	225687.9	31518.88	316.237
	9.8	1352.31	463.353	139568.6	90669.14	130.683
	9.8	1781.37	755.173	183167.4	25200.91	325.45
	9.8	2494.297	622.543	117307.5	30335.84	217.953
	9.8	1451.077	846.11	166332.3	23638.43	156.623
	9.8	1064.517	588.43	232618.9	26447.41	203.06
	9.8	1515.427	396.637	170182.8	112042.9	177.03
22.05	959.89	312.727	168761	31697.77	48.885	
24.005	1026.39	852.563	162634.5	104185	263.707	
	9.8	687.563	412.763	149832.4	104654.3	99.453
	9.8	1236.97	205.293	130596.7	96142.29	133.73
	9.8	1571.237	491.77	160497.3	25317.07	119.2
	9.8	2273.083	237.52	141524.3	37822.8	80.693
	9.8	1723.433	387.835	163508.3	17310.62	176.147
27.703	1406.533	870.69	236587.4	24821.46	195.607	
	9.8	1440.613	447.71	146195.4	94495.88	117.923
	9.8	2305.6	847.495	164804.3	27863.58	173.89

9.8	997.42	849.087	204922.6	121741.9	122.527
9.8	1811.577	736.963	175641.4	29966.68	132.763
9.8	1421.28	234.57	160154.5	100118.9	103.873
9.8	1939.407	479.925	148953.9	22227.15	117.92
9.8	1416.527	760.47	158131.6	1638.7	146.38
23.007	838.58	850.907	200969	22647.28	253.427
9.8	1427.927	515.035	169479.8	28788.69	117.05
9.8	1173.587	642.835	205923.5	27332.6	173.603
9.8	1349.587	547.053	174138.7	25085.36	113.48
9.8	1383.047	467.707	154136.1	89750.65	104.147
9.8	1401.753	860.463	207387.4	25144.48	318.697
9.8	1756.087	1089.375	160294.4	25194.04	170.947
9.8	1168.39	404.31	120190.6	91595.62	112.38
9.8	1674.607	637.877	8305.79	21171.38	142.14
33.1	1196.49	1121.965	10709.04	26505.99	154.22
9.8	1622.087	217.795	127915.4	87210.18	87.91
9.8	1879.26	557.105	178678.4	105102.7	177.4
9.8	1524.933	470.683	152626	24377.6	179.64
9.8	1080.697	311.703	117306.1	23195.88	193.217
41.955	1446.583	524.595	141303.6	102943.4	171.09
9.8	1117.08	956.815	152427.3	101296.2	200.28
9.8	1456.627	917.053	159530.6	95863.89	119.167
9.8	1166.247	412.62	150435.3	98606.59	85.725
27.965	1017.42	775.16	133010.5	28106.9	164.637
9.8	1153.063	531.7	132441.3	101816.3	147.313
24.745	1197.187	327.563	151202.4	98353.79	238.067
9.8	1034.51	388.88	180969	113564.2	126.667
36.195	1361.477	1103.45	222250.8	108925.2	185.65
9.8	1706.01	1433.39	160630.1	29526.81	210.417
9.8	1474.51	393.715	107100.1	25091.07	74.127
9.8	833.527	708.06	201336.3	25508.02	333.607
9.8	1874.07	1042.623	148584.9	35356.45	247.903
9.8	2081.303	938.907	146068.2	26200.98	130.557
9.8	1096.02	804.267	215927	25084.98	190.217
9.8	1199.36	632.417	149191.7	38162.34	54.04
9.8	2611.647	1372.767	175723.7	26635.61	195.377
9.8	614.267	212.03	88659.27	77202.29	48.763
26.31	1288.36	459.013	222023.2	96447.99	178.86
9.8	1129.597	292.25	158068.6	92871.04	105.91
9.8	862.353	295.23	8103.35	25005.53	124.11
19.59	1248.143	719.785	125380.1	81746.77	170.76
9.8	973.74	615.093	174270	31940.17	168.933
9.8	1216.913	561.673	145468.5	21516.65	100.6
9.8	1414.063	465.777	212719	113046.8	259.433
9.8	1985.087	1189.94	197185.1	26200.87	213.59
9.8	1744.29	1177.76	144152.3	26028.01	346.17
9.8	1080.727	640.697	165693.2	25270.84	117.797
9.8	975.433	351.763	129725.3	100516.4	91.903
9.8	945.437	1119.597	155694.3	93842.91	259.22
21.66	1223.923	940.63	156266.9	89046.83	186.493
9.8	1566.203	1430.38	108850.1	79950.14	149.653
9.8	882.323	716.353	101035.5	27998.66	116.733
9.8	57.217	428.465	181569.9	22847.76	182.48
9.8	1522.173	778.457	167454	29222.02	139.81
9.8	1276.137	175.155	154887	23557.79	77.71
9.8	541.59	842.957	188295.5	25443.75	389.19

9.8	1563.05	425.633	180660.5	38659.5	108.847
9.8	1455.157	752.39	186609.5	26032.65	84.677
9.8	1849.673	362.75	204002.3	26092.69	79.483
9.8	988.333	927.093	6687.287	24628.63	186.283
9.8	1364.33	1330.087	181155	101333.7	312.587
9.8	1012.713	511.633	137558.1	26721.03	157.423
9.8	1424.627	422.47	152058.9	25472.88	194.543
9.8	1110.477	417.81	187757.6	11779.65	147.38
9.8	1344.897	1221.303	202505.1	12763.11	334.103
9.8	1466.823	1203.98	146835.6	112918.6	150.5
9.8	1298.057	1099.633	177780.5	23478.91	178.193
9.8	1178.553	986.487	187864.9	121451.7	106.477
9.8	1359.203	271.777	7390.24	21393.85	119.473
9.8	1068.737	626.197	141686.5	22245.72	90.073
9.8	783.027	1255.643	115117.3	85677.77	103.523
9.8	1489.983	1381.307	145856.9	84377.84	219.043
9.8	1217.18	1364.84	143637	95063.66	122.937
9.8	1374.13	1073.19	114579.3	98719.01	153.543
9.8	1228.35	1261.243	145494.4	111486.9	201.643
58.655	1153.617	1037.257	178603	99578.09	218.127
9.8	1903.06	1123.957	129229.8	17741.4	276
9.8	1240.16	1156.323	123477.2	99782.17	299.01
9.8	1667.84	553.647	8384.223	23235.82	97.047
9.8	866.867	817.877	140976.9	19879.12	199.867
9.8	1150.553	1494.553	153441.1	98576.8	369.31
9.8	1844.027	1652.477	175791	115697.3	317.713
9.8	1098.37	410.697	129375.3	26611.69	123.017
9.8	1284.747	1127.39	135708.5	27043.59	163.797
9.8	1090.033	494	155306.5	23946.42	192.145
9.8	700.38	1337.2	125099	101768.1	256.377
9.8	1001.22	1535.523	148938.2	31274.74	285.323
23.2	1164.623	826.623	163609	93464.64	255.837
9.8	1518.897	1309.547	110864.6	77378.5	117.907
9.8	1350.463	935.54	160656.8	30366.76	338.987
9.8	891.223	903.605	158653.4	118593.9	153.247
9.8	1204.017	859.77	119938.5	22046.49	116.843
9.8	756.363	677.867	191416.4	98764.8	153.363
9.8	699.07	747.453	183910.9	32101.03	256.217
9.8	965.933	656.003	6666.243	25356.07	168.973
9.8	1637.85	875.083	124039.2	33229.13	168.603
9.8	1021.617	642.403	149502.5	26329.45	137.21
9.8	1458.333	1263.35	136027.5	28918.76	225.533
9.8	1410.487	1254.2	144630.3	91397.72	279.947
9.8	1319.19	551.84	178743.3	110511.1	332.65
9.8	1068.083	628.57	85716.55	21916.68	103.737
9.8	1399.057	1154.837	123456.4	98103.62	115.837
9.8	1269.163	1231.07	160166	26396.97	248.38
22.38	1106.397	969.337	181136.5	90566.09	120.117
9.8	2950.843	728.4	136706	90086.41	238.49
9.8	881.917	1147.743	123646.4	90485.66	290.02
9.8	1025.233	841.183	120955.7	38277.53	174.327
9.8	981.873	1210.657	125079.4	82353.54	169.6
9.8	1170.317	956.4	172937.8	96452.45	102.813
9.8	1582.873	460.28	6763.997	83134.25	148.95
9.8	1319.183	1264.14	128707.9	99554.02	166.063
9.8	688.513	519.733	120463.9	105546	181.557

	9.8	1384.097	1090.173	127349.4	88964.21	318.74
	9.8	921.53	817.93	6410.617	21546.47	115.56
34.725	1565.787	1657.693	157198.7	93662.09		356.267
	9.8	927.41	1149.857	124513.3	74308.96	359.63
	9.8	1575.95	1095.8	182183.1	34182.05	297.393
32.81	1638.303	1370.143	137579.9	109191		351.527
	9.8	1379.573	1193.757	130060.9	29078.58	159.36
	9.8	1077	823.787	129293.2	30819.68	95.86
	9.8	1021.437	982.27	143558.4	96170.8	214.39
27.08	1264.697	894.92	123216.3	19731.54		123.977
	9.8	927.207	1218.353	124539.7	102630.5	152.677
23.783	1195.893	1067.297	124129.5	167090		270.367
	9.8	911.8	996.17	130151.6	108065.3	161.78
	9.8	807.337	669.7	153039.7	97355.93	129.817
	9.8	1093.563	1144.173	120590.7	98461.45	318.337
	9.8	1036.777	833.03	154415.3	101514	109.903
	9.8	1253.7	940.795	154303.9	97476.66	257.2
33.31	734.95	858.697	6824.42	85777.8		94.207
	9.8	1057.757	1207.617	190585.5	117433.7	170.757
	9.8	1055.887	1440.877	165271.4	109893.6	173.8
	9.8	651.827	862.927	191792.4	130558.4	128.12
	9.8	1876.367	1351.467	160097.7	115234.7	338.683
	9.8	1981.05	720.823	133005.3	69074.73	179.31
	9.8	832.83	662.32	128592.7	26742.95	121.417
	9.8	1595.097	1521.74	165463.2	27193.37	216.823
	9.8	739.717	1501.5	178240.8	126973.1	174.753
	9.8	1611.623	1358.267	146533.5	28571.79	464.8
	9.8	1292.887	1185.923	173080.5	109950.4	245.3
	9.8	883.373	1124.713	135504.9	110446.1	185.083
24.8	1120.353	1199.82	133757.2	34169.13		320.88
	9.8	1115.793	642.83	133229.5	104307.4	173.44
24.64	1054.733	1105.71	139865.8	30232.44		78.443
	9.8	1155.38	1163.243	125031.2	127746.5	253.69
	9.8	1392.467	1264.747	145318.8	86248.95	293.287
19.73	903.897	1040.945	178073.9	32447.19		257.927
31.275	1658.683	1555.877	188938.9	27838.03		217.797
	29.8	1266.143	898.213	8104.107	24411.05	227.94
	9.8	1000.19	2077.153	133504.8	115820.2	252.367
	9.8	914.11	1156.053	140005.6	96076.28	75.937
	9.8	1700.583	1579.67	136060.6	116893.4	83.71
	9.8	1539.337	522.835	120553.3	101441.2	192.04
	9.8	1776.577	1126.02	139155.4	92452.02	243.15
	9.8	932.707	931.615	135689.7	26636.18	77.21
	9.8	1847.86	778.94	116907	26236.38	88.145
	9.8	1905.467	459.32	126081.5	27428.93	117.835
	9.8	831.17	1018.3	86403.56	23840.9	141.553
56.38	1464.35	1337.153	7543.213	23334.81		145.123
	9.8	665.29	1251.38	137724	109460.6	188.267
29.41	2670.99	1014.243	204985.2	25435.35		372.767
	9.8	2008.257	1107.31	145334	100083.2	226.013
30.17	1438.8	996.63	117922.8	100079.9		212.843
	9.8	1005.49	1369.15	142198.8	30677.7	220.243
	9.8	1747.23	222.31	181277.9	25665.85	61.393
	9.8	723.657	552.31	96081.78	118622.4	88.157
30.975	1476.283	1050.69	6450.17	24741.02		260.893
	9.8	1278.167	1195.377	152041.7	101346.4	160.673

	9.8	1102.753	1007.61	138911.9	118315.3	86.607
29.195	992.243	1303.857	154704.8	24908.51	138.303	
	9.8	909.81	1142.16	139655.9	95958.42	240.513
	9.8	1113.54	806.555	166631.6	115400.2	125.267
	9.8	1223.433	633.58	147274.3	143643.9	307.647
	9.8	1330.803	983.207	184592.4	92321.55	268.263
	9.8	991.017	984.387	149421	103932.5	204.923
	9.8	1824.397	1009.647	143770	95807.61	141.443
	9.8	1081.963	577.933	101865.2	94710.01	213.407
	9.8	955.86	3426.73	175215.1	115742.2	456.2
	9.8	1185.937	804.887	152997.7	36694.61	138.107
	9.8	1619.517	461.955	123496.7	28824.7	121.925
	9.8	2031.453	546.35	132795.3	84614.86	282.183
	9.8	1304.48	1100.67	128254.6	99655.01	152.173
	9.8	1646.03	382.125	203079.8	20998.65	115.757
	9.8	1245.193	1170.877	111211.4	29913.15	418.85
	9.8	1069.46	1033.023	122493.4	25865.55	198.78
24.8	1630.9	1436.243	7603.59	23999.47	230.853	
	9.8	1630.157	731.643	133046.9	28783.71	118.053
	9.8	914.72	668.867	144143.5	38731.75	239.773
	9.8	868.83	872.457	127058.2	71957.31	122.427
	9.8	1240.177	380.485	138573.9	83827.14	206.363
	9.8	1160.07	937.655	137616.6	80206.3	258.297
	9.8	1323.987	1163.015	8369.99	29251.06	216.423
	9.8	1585.937	683.075	139619	100995	158.675
	9.8	1548.42	718.88	135673.5	28772.94	71.155
21.635	1418.063	487.027	164697.4	22635.51	66.953	
	9.8	1236.43	575.84	5539.095	17349.38	157.493
	9.8	2042.763	238.105	222066.3	20863.08	154.105
	9.8	1138.227	896.375	176701.3	110267.2	281.64
	9.8	1162.007	516.117	155004.3	17491.18	105.403
	9.8	1295.863	1022.6	189417.7	29581.32	338.133
	9.8	1597.213	6375.503	163464	117717.9	357
	9.8	955.39	729.923	170971	118304.6	173.4
	9.8	1636.84	369.287	84071.16	73612.34	62.85
	9.8	1318.22	513.357	161961.9	25281.1	80.417
	9.8	978.937	445.56	160702.7	85406.01	165.225
	9.8	1541.29	2048.127	134088.7	94737.87	260.477
	9.8	1289.873	615.96	142435.7	91057.12	240.48
	9.8	1940.24	871.407	254197.4	30443.31	370.537
	9.8	1184.13	1838.955	154303.9	128137.4	199.733
	9.8	1623.567	766.985	164616.5	98957.41	286.09
	9.8	1694.143	535.91	125399	92612.09	125.265
	9.8	1055.057	1547.987	132718.6	28691.06	269.703
	9.8	1416.643	1147.38	148316.6	111243.2	205.297
	9.8	1227.573	906.687	135383.9	99069.61	165.653
	9.8	1911.887	983.923	241415.6	26335.25	195.417
	9.8	2028.03	773.557	169257.8	21645.09	290.097
	9.8	2285.557	996.645	7875.337	23441.19	291.067
36.04	2180.66	754.28	121855.7	90497.78	122.653	
	9.8	1425.947	4000.927	163515	109613.7	298.063
	9.8	1104.023	371.795	117135.1	106220.7	83.477
	9.8	1115.443	640.967	105667	87809.88	223.48
	9.8	2504.397	561.71	173360.2	78047.57	141.127
	9.8	1056.067	460.465	102645.1	105356.3	121.103
	9.8	1539.49	270.92	204528	23143.03	107.52

23.73	1988.3	746.233	141865.7	67032.26	178.115
9.8	1699.96	607.033	177795.9	81436.3	129.777
9.8	1412.227	1168.367	155475.6	98197.44	364.457
9.8	1543.823	365.44	124496.3	93785.75	110.007
9.8	1199.643	844.823	139453.3	94810.52	166.283
9.8	1305.16	693.545	149548.8	105191.7	195.483
9.8	1399.407	693.787	142152.5	103824	244.597
9.8	1283.367	1085.995	204177.5	107531.5	374.73
9.8	1270.893	1282.387	141346.9	95901.91	264.36
9.8	913.187	1141.877	97052.23	23733.16	148.32
36.63	1158.287	692.53	149950.4	97245.14	175.873
22.09	1949.773	1124.14	114008.1	80224.91	138.72
9.8	1700.267	1177.61	126310.4	98013.52	92.363
9.8	1006.193	634.127	184193.6	19048.2	137.973
9.8	1557.677	386.117	158407.3	18773.98	142.4
9.8	1350.217	1309.077	145004.1	95176.97	423.243
9.8	1045.213	383.785	119345	91579.2	96.155
9.8	829.693	813.48	137030.4	33482.14	80.307
9.8	689.13	853.49	217629	26188.65	171.697
9.8	1014.713	352.87	216851.7	19244.14	58.63
9.8	1249.57	588.337	96844.95	82966.55	183.623
9.8	811.223	310.49	118208.3	92655.41	50.667
9.8	1269.973	1063.8	135251.1	63188.26	351.02
9.8	976.393	10.605	126743	74665.52	4.43
9.8	1308.013	1249.54	129972.3	85544.78	276.09
9.8	1130.367	404.02	124244.7	114086.7	151.703
9.8	1360.897	855.04	164082.5	104217.9	96.607
9.8	985.383	1179.21	165714	104461.8	209.213
9.8	2039.333	825.327	215790.1	27202.92	165.267
9.8	1381.177	1665.797	147217.8	89979.43	406.053
23.67	1570.15	568.573	127537.6	38392.66	96.397
9.8	694.903	462.153	126292.9	95504.93	216.22
9.8	1112.203	475.975	160515.9	96593.48	124.92
9.8	1026.397	980.385	162078.8	94616.73	172.767
9.8	1037.98	877.477	143396.3	29496.66	125.803
9.8	780.127	629.505	141196	25071.39	149.493
9.8	2457.863	1236.12	149656.9	103572.3	311.107
9.8	1612.1	642.15	131507.2	101162.7	102.553
9.8	883.09	1053.05	126781.5	24309.07	166.583
9.8	1639.243	885.07	128108.9	88539.87	352.05
9.8	1402.207	1485.24	145089.6	106769.8	115.103
9.8	978.103	1024.837	152938.7	92274.87	325.02
9.8	1257.23	437.363	101882.1	92058.57	72.617
22.09	1132.103	578.773	115857.8	113920.6	132.717
9.8	1126.153	453.883	135742.6	115946.4	140.77
9.8	1634.11	1867.35	155776.4	87022.84	211.93
28.92	1957.467	1587.467	179856.5	116239.9	339.647
9.8	856.133	1219.277	157064.2	87475.54	274.48
9.8	1146.123	755.577	126971.5	76597.09	179.603
9.8	769.51	339.345	137898.4	113154.3	62.197
30.24	1302.343	401.27	103607.3	100432.6	81.36
9.8	1596.877	138.72	3153.47	89493.13	47.385
9.8	1387.26	733.92	131851.6	113263.3	73.083
9.8	1439.127	797.17	133219.7	102964.4	161.69
9.8	1119.64	535.64	143126.8	84185.93	62.433
9.8	1548.32	589.377	131843.3	91117.31	312.5

9.8	1027.1	1156.35	167455.6	105699	303.387
9.8	776.283	417.37	139250.5	18329.68	205.15
9.8	703.28	626.065	161674.3	119098.8	130.553
9.8	1026.24	1243.787	185033.6	101630.6	120.737
9.8	1516.53	854.313	111834.2	97583.2	264.527
9.8	780.973	1061.763	182573.4	102040.9	69.483
9.8	1138.643	1180.03	137205.6	94570.02	188.99
33.72	937.85	562.115	118958.5	89216.05	159.003
9.8	1182.51	1477.07	201774.9	108037.3	222.433
9.8	816.58	749.95	162005.9	77298.42	278.857
9.8	1193.423	909.59	162324.4	19711.15	166.833
9.8	1236.663	1758.357	102581.4	26670	115.17
9.8	1408.143	931.567	131599.9	102408.1	323.7
9.8	1088.773	1902.077	210783.9	16456.06	196.963
9.8	1301.173	922.035	176355.3	23715.08	230.27
41.51	1379.197	697.55	141207.7	128938.8	107.61
9.8	883.583	584.69	159182.9	96542.6	187.617
9.8	1573.12	729.493	243213.8	90291.11	185.93
43.68	668.627	855.35	95352.46	78595.59	201.253
9.8	2011.827	886.557	110447.6	83998.13	140.797
9.8	1047.493	1142.11	112989.2	26841.76	108.22
9.8	1102.027	1341.833	145705.4	100308.2	352.59
9.8	1382.983	692.277	145119	103749.7	93.79
9.8	632.077	263.255	181207	104490.5	77.773
9.8	762.307	1113.83	248052.7	17157.19	402.36
9.8	1866.96	950.723	181200.9	90892.97	207.5
9.8	1272.287	995.363	105135.3	89051.77	253.063
9.8	699.503	1444.577	176897.8	93664.73	135.43
9.8	610.727	1042.55	180181.3	109253.4	71.283
9.8	839.31	963.565	107756.1	20923.79	198.09
9.8	1165.8	510.48	122402.6	85067.12	142.29
9.8	886.44	985.317	178840	101939.9	126.213
9.8	1618.84	1271.9	160572.9	125873.6	93.893
9.8	633.057	256.365	93879.14	19591.48	113.96
9.8	842.95	850.743	111359.3	95559.47	174.693
9.8	969.72	750.633	177849.5	98509.63	213.563
9.8	749.147	1153.873	142689.2	91686.16	209.587
9.8	1459.72	881.035	166372.5	25574.19	289.007
9.8	1324.177	1024.087	123294.7	93404.98	107.433
9.8	1490.197	1214.227	152958.8	91937.47	203.123
9.8	1602.16	878.407	133373.3	96373.09	349.61
24.8	1784.46	1000.86	165025.6	88233.98	200.5
9.8	1292.573	1024.435	195498.2	24428.7	230.417
34.413	1193.697	678.283	137807.2	110800.9	104.39
9.8	1913.007	1417.673	131752.3	88159.2	248.767
41.265	1658.377	1362.207	131769.7	104717.6	168.427
9.8	1093.4	1433.543	159870.3	38140.51	107.55
9.8	1065.007	682.02	135627.1	87655.11	208.13
9.8	1125.517	1266.63	202122.8	36271.78	268.5
9.8	815.027	1052.82	141240	24270.88	381.6
9.8	779.907	702.02	143388.2	107443.8	175.29
9.8	815.92	839.805	194920.8	112510.3	221.097
9.8	1284.79	867.633	139362.5	85746.41	137.263
9.8	1115.687	1109.65	170118.5	89534	236.517
9.8	1090.873	2049.657	196903.4	29379.41	86.4
9.8	867.6	438.597	168985.7	114604.8	138.583

9.8	949.8	321.27	151577.7	116408.7	120.093
9.8	1064.207	845.06	159119.3	25374.84	114.66
9.8	1277.187	814.43	145123.5	23890.62	168.377
9.8	1470.497	1276.093	174432.2	112912.3	190.72
9.8	936.21	932.565	190488.7	100274.9	111.573
9.8	660.97	725.965	148868.6	25006.68	412.74
9.8	1352.943	1174.26	185952.4	100273	210.577
9.8	1760.873	1525.177	159636.8	88887.33	379.287
9.8	855.887	852.92	183690	26980.25	136.377
9.8	874.19	773.983	139881.6	108265.2	157.807
9.8	937.72	570.647	178033	122586.3	122.093
9.8	2364.333	1218.537	170704	23870.73	266.867
9.8	1695.47	1036.63	136273.1	95591.33	170.117
9.8	1680.993	408.89	6958.33	112550.7	92.067
9.8	929.91	546.933	195622.3	112874.1	72.947
9.8	1162.83	973.295	153873.5	24406.26	166.275
9.8	1216.777	825.57	179256.6	23130.34	277.47
9.8	809.183	1179.635	172632.7	89818.44	189.5
9.8	1126.833	1401.215	149599.8	29890.43	196.927
9.8	681.753	724.44	139016.3	37289.31	87.327
9.8	1007.133	1534.885	174630.7	105346.8	273.697
9.8	1021.453	990.435	137589.2	99955.33	138.407
9.8	870.333	1116.793	151375.3	95198.65	115.837
9.8	1459.247	878.355	120085.9	88013.05	130.583
9.8	2005.16	1711.32	171606.7	30515.95	368.943
9.8	1011.963	936.53	149772	85651.85	180.84
9.8	904.083	1028.197	161256	102163.9	188.6
37.47	1106.25	1041.995	160165.3	27526.95	122.277
9.8	1249.187	2.815	168931.5	29657.3	1.4
9.8	1201.007	1081.055	158330	79303.51	155.843
9.8	645.98	1388.995	204843.5	99866.75	213.453
9.8	939.897	1198.767	145804.9	107937.5	201.243
9.8	1108.197	1498.88	192449.9	30691.16	119.133
9.8	864.74	957.227	153922.2	97047.15	125.3
9.8	979.053	1339.03	124113.9	85167.01	102.513
9.8	816.937	748.86	156925.4	25972.83	120.647
9.8	822.95	599.44	170861.3	25154.34	54.483
9.8	2234.533	1647.833	180618.2	26707.87	127.83
9.8	953.547	1039.02	138748.8	71300.01	130.54
9.8	913.877	1015.27	185429.1	29738.27	304.07
9.8	1125.573	759.677	180377.3	106449.9	162.883
9.8	1233.89	760.06	113224.4	87088.61	142.397
9.8	1711.763	978.19	156559.8	23817.86	219.143
9.8	899.813	1083.46	173421.5	93862.36	201.56
9.8	993.153	1214.655	102922.8	69844.61	218.727
9.8	833.313	677.225	169656.6	88374.36	110.31
9.8	1273.65	905.26	129826.6	88136.5	171.917
9.8	868.527	1321.157	127238.1	91426.77	285.763
9.8	1455.42	1202.23	165814.7	85448.66	208.995
9.8	1120.843	793.593	139917	24933.55	63.683
9.8	883.647	1753.533	192503.2	32332.92	288.687
9.8	773.15	405.277	145347	35104.86	181.443
9.8	975.37	824.89	178978.1	24559.85	223.42
25.595	1912.42	801.865	142377.7	96164.74	211.123
9.8	2101.593	801.88	166546.6	27589.42	117.213
22.94	1257.707	1035.353	243135.9	136952.9	175.393

9.8	815.953	271.765	188854.8	110874.9	66.037
9.8	2036.463	1679.46	180866.4	28808.63	263.73
9.8	680.813	487.685	144946.7	25189.77	130.395
9.8	802.287	391.34	138333.1	75104.38	90.993
35.2	765.72	1106.215	152238.2	101822.4	160.92
9.8	1146.863	857.347	156932.6	28807.07	125.283
9.8	986.623	892.62	169757.8	94373.22	279.27
37.09	1271.69	1458.313	10199.91	25576.08	221.42
9.8	1040.7	1257.12	138075.6	84894.47	175.503
9.8	1084.56	1040.817	155726	66708.74	231.55
9.8	1260.877	961.085	177187.3	86675.4	124.163
22.78	1316.277	2229.68	196478.4	96599.02	178.757
9.8	1013.157	1728.813	188970.8	28619.89	216.05
9.8	852.41	1523.177	158260.7	90776.43	173.407
9.8	546.077	632.94	135832.8	90612.45	250.247
9.8	1029.17	1410.273	146288.5	98601.82	46.303
9.8	1150.887	642.9	160938.4	97314.4	146.29
9.8	904.513	588.45	163131.7	94924.24	97.527
9.8	1751.407	1510.01	164284.8	40680.27	190.967
9.8	983.707	405.185	153040.2	36519.34	142.855
9.8	537.77	949.8	141601.8	102593.2	141.02
9.8	1275.877	603.565	122271.5	99425.55	139.46
9.8	1963.74	1306.15	172776.8	25976.46	69.44
34.145	1124.147	1011.9	148289.4	101696.5	89.83
9.8	946.87	634.025	212200.5	28382.99	128.117
19.73	1060.947	673.173	125072.8	74310.68	103.653
9.8	1162.15	1213.927	126508.6	21584.26	137.13
9.8	642.49	567.37	125349	23864.8	233.15
9.8	798.747	695.015	112875.7	101957.6	72.853
9.8	836.27	461.06	112993.3	23223.65	59.733
9.8	1130.147	752.31	192907.4	29340.08	304.89
9.8	1931.793	1003.613	130688.3	91676.27	130.217
9.8	1814.48	839.955	147867.1	78072.98	304.863
9.8	32.485	961.195	119037.5	21824.43	216.087
9.8	1022.71	1086.845	182414.2	26670.65	140.07
22.64	1111.4	760.833	8483.535	24781.15	132.893
25.99	1490.927	1264.323	204620.9	29342.95	179.857
9.8	1045.387	978.97	143784.5	30720.92	191.29
9.8	730.067	592.243	130986.8	101797	133.603
9.8	1376.283	722.333	134331.6	23200.05	311.797
9.8	1128.123	1080.293	185448.4	101180.3	281.803
