

Assessing the Reliability and Scale Functionality of the MERLIN Written Speech Sample Ratings

Technical Report
September 09, 2013
(Revised Version)

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Bolzano, Italy

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1 Introduction

The primary goal of the MERLIN project is to provide teachers, test designers, curriculum planners, textbook authors, and researchers in second-language acquisition with authentic speech samples that are reliably calibrated to the *Common European Framework of Reference* (CEFR; Council of Europe, 2001). Users of the Internet-based MERLIN platform (<http://merlin-platform.eu>) will be able to search the database for certain linguistic features in writings by learners at specific levels of foreign language proficiency.

For this purpose, the MERLIN project group collected a large number of German, Italian and Czech writing samples within the framework of various standardized high stakes tests. The tests were administrated by telc (*The European Language Certificates*), UNICert and UJÓP (the *Institute for Language and Preparatory Studies* of the *Charles University, Prague*). MERLIN judges re-rated all of the speech samples according to seven scales from the *Common European Framework of Reference*: General Linguistic Range, Vocabulary Range, Vocabulary Control, Grammatical Accuracy, Coherence and Cohesion, Sociolinguistic Appropriateness, and Orthographic Control.

This paper explores the distribution of ratings across competence levels and rating criteria, including inter- and intra-rater reliability, for each of the three languages. A fair average was computed for each rating to adjust for possible variations in severity or leniency among the judges. Additionally, the functionality of the seven CEFR scales was analyzed by means of probabilistic test theory.

2 Method

2.1 Participants

Six judges, all of whom were professional language teachers holding at least a Bachelor's degree, participated in the current study. Two of the judges rated a total of 438 Czech writing samples; another two evaluated 1 139 German writing samples; and the final two assessed 898 Italian writing samples. Some of these samples were double-rated.

2.2 Design

A total of 2 475 written speech samples were randomly chosen from four high stakes tests in Czech, German, and Italian. One part of the Czech tests was developed and delivered by UJÓP, the ALTE-certified *Institute for Language and Preparatory Studies* of *Charles University* in Prague (<http://ujop.cuni.cz>); the other part was developed by UNICert (<http://unicert-online.org>). All of the German and Italian tests were developed and delivered by telc (*The European Language Certificates*), a German-based language testing body that offers high stakes language tests in ten languages (<http://www.telc.net>). Table 1 provides details about the speech samples and the tests from which they were derived.

Table 1
The MERLIN Speech Samples

	Level of Proficiency	Language Test	Number of Ratings per Level and Language	Number of Ratings per Language
Czech	A2	UJÓP: n.n.	131	438
	B1	UNlcert: UNlcert I Teschechisch	176	
	B2	UJÓP: n.n.	131	
German	A1	telc: Start Deutsch 1	229	1 139
	A2	telc: Start Deutsch 2	228	
	B1	telc: Zertifikat Deutsch	231	
	B2	telc: Deutsch B2	225	
	C1	telc: Deutsch C1	226	
Italian	A1	telc: Italiano A1	229	898
	A2	telc: Italiano A2	224	
	B1	telc: Italiano B1	223	
	B2	telc: Italiano B2	222	
			Total	2 475

All of the speech samples were re-rated by trained MERLIN judges according to seven scales from the *Common European Framework of Reference*: General Linguistic Range, Vocabulary Range, Vocabulary Control, Grammatical Accuracy, Coherence and Cohesion, Sociolinguistic Appropriateness, and Orthographic Control. The General Linguistic Range scale is conceived as an overarching concept; the remaining six scales are conceptualized as facets of this construct. Table 3 contains all of the competence descriptors that were used in the MERLIN study. Approximately 10% of the speech samples were double-rated to estimate the inter-rater reliability.

Whereas ratings on the General Linguistic Range scale could be assigned to the A1, A2, A2+, B1, B1+, B2, B2+, C1, and C2 levels, only the major reference levels A1, A2, B1, B2, C1 and C2 were used for the remaining scales. The ratings that the judges deemed problematic were excluded from the analysis.

For the General Linguistic Range Scale, the verbal scale descriptors were transformed into numeric values: A1 = 1, A2 = 2, A2+ = 3, B1 = 4, B1+ = 5, B2 = 6, B2+ = 7, and C1 = 8. Only the major levels could be awarded for the other six scales.

Table 2
Competence Descriptors in the MERLIN study

Rating Scale	A1	A2	B1	B2	C1
General Linguistic Range	<i>Has a very basic range of simple expressions about personal details and needs of a concrete type.</i>	<i>Can produce brief everyday expressions to satisfy simple needs of a concrete type: personal details, daily routines, wants and needs, requests for information. Can use basic sentence patterns and communicate with phrases, groups of a few words and formulae about themselves and other people, what they do, places, possessions etc. Has a limited repertoire of short phrases covering predictable survival situations; frequent breakdowns and misunderstandings occur in non-routine situations.</i>	<i>Has enough language to get by, with sufficient vocabulary to express him/herself with some hesitation and circumlocutions on topics such as family, hobbies and interests, work, travel, and current events, but lexical limitations cause repetition and even difficulty with formulation at times.</i>	<i>Has a sufficient range of language to be able to give clear descriptions, express viewpoints and develop arguments without much conspicuous searching for words, using some complex sentence forms to do so.</i>	<i>Can select an appropriate formulation from a broad range of language to express him/herself clearly, without having to restrict what he/she wants to say.</i>

Vocabulary Range	<i>Has a basic vocabulary repertoire of isolated words and phrases related to particular concrete situations.</i>	<i>Has a sufficient vocabulary for the expression of basic communicative needs. Has a sufficient vocabulary for coping with simple survival needs.</i>	<i>Has a sufficient vocabulary to express him/herself with some circumlocutions on most topics pertinent to his/her everyday life such as family, hobbies and interests, work, travel, and current events.</i>	<i>Has a good range of vocabulary for matters connected to his/her field and most general topics. Can vary formulation to avoid frequent repetition, but lexical gaps can still cause hesitation and circumlocution.</i>	<i>Has a good command of a broad lexical repertoire allowing gaps to be readily overcome with circumlocutions; little obvious searching for expressions or avoidance strategies. Good command of idiomatic expressions and colloquialisms</i> <i>Occasional minor slips, but no significant vocabulary errors.</i>
Vocabulary Control	<i>No descriptor available</i>	<i>Can control a narrow repertoire dealing with concrete everyday needs.</i>	<i>Shows good control of elementary vocabulary but major errors still occur when expressing more complex thoughts or handling unfamiliar topics and situations.</i>	<i>Lexical accuracy is generally high, though some confusion and incorrect word choice does occur without hindering communication.</i>	
Grammatical Accuracy	<i>Shows only limited control of a few simple grammatical structures and sentence patterns.</i>	<i>Uses some simple structures correctly, but still systematically makes basic mistakes – for example tends to mix up tenses and forget to mark agreement; nevertheless, it is usually clear what he/she is trying to say.</i>	<i>Uses reasonably accurately a repertoire of frequently used 'routines' and patterns associated with more predictable situations.</i>	<i>Shows a relatively high degree of grammatical control. Does not make mistakes which lead to misunderstanding .</i>	<i>Consistently maintains a high degree of grammatical accuracy; errors are rare and difficult to spot.</i>
Coherence and Cohesion	<i>Can link words or groups of words with very basic linear connectors like 'and' or 'then'.</i>	<i>Can link groups of words with simple connectors like 'and', 'but' and 'because'.</i>	<i>Can link a series of shorter, discrete simple elements into a connected, linear sequence of points.</i>	<i>Can use a limited number of cohesive devices to link his/her utterances into clear, coherent discourse, though there may be some 'jumpiness' in a long contribution.</i>	<i>Can produce clear, smoothly flowing, well-structured speech, showing controlled use of organizational patterns, connectors and cohesive devices.</i>

Sociolinguistic Appropriateness	<i>Can establish basic social contact by using the simplest everyday polite forms of: greetings and farewells; introductions; saying please, thank you, sorry, etc.</i>	<i>Can handle very short social exchanges, using every day polite forms of greeting and address. Can make and respond to invitations, suggestions, apologies, etc.</i>	<i>Can perform and respond to a wide range of language functions, using their most common exponents in a neutral register. aware of the salient politeness conventions and acts appropriately. aware of, and looks out for signs of, the most significant differences between the customs, usages, attitudes, values and beliefs prevalent in the community concerned and those of his or her own.</i>	<i>Can with some effort keep up with and contribute to group discussions even when speech is fast and colloquial. sustain relationships with native speakers without unintentionally amusing or irritating them or requiring them to behave other than they would with a native speaker. Can express him or herself appropriately in situations and avoid crass errors of formulation.</i>	<i>Can recognize a wide range of idiomatic expressions and colloquialisms, appreciating register shifts; may, however, need to confirm details, especially if the accent is unfamiliar. follow films employing a considerable degree of slang and idiomatic usage. language flexibly and effectively for social purposes, including emotional, allusive and joking usage.</i>
Orthographic Control	<i>Can copy familiar words and short phrases e.g. simple signs or instructions, names of everyday objects, names of shops and set phrases used regularly. spell his/her address, nationality and other personal details.</i>	<i>Can copy short sentences on everyday subjects – e.g. directions how to get somewhere. write with reasonable phonetic accuracy (but not necessarily fully standard spelling) short words that are in his/her oral vocabulary.</i>	<i>Can produce continuous writing which is generally intelligible throughout. Spelling, punctuation and layout are accurate enough to be followed most of the time.</i>	<i>Can produce clearly intelligible continuous writing which follows standard layout and paragraphing conventions. ling and punctuation are reasonably accurate but may show signs of mother tongue influence.</i>	<i>Layout, paragraphing and punctuation are consistent and helpful. Spelling is accurate, apart from occasional slips of the pen.</i>

Following the initial re-rating of speech samples and the coding of the judgments, SPSS was used for classical statistical analyses; FACETS software was used for multi-facet Rasch measurement analyses (MRFM; Linacre, 2009). These analyses are described in the following section.

2.3 Statistical Analyses

Computing descriptive statistics for each language provided an overview of how the ratings were distributed. The quality of these ratings – particularly in terms of inter-rater reliability – was determined by statistical techniques from classical test theory, such as Spearman's rho, Kendall's tau or Goodman and Kruskal's gamma. A detailed analysis of the rating behavior and scale properties was performed by a multi-facet Rasch analysis, a powerful tool developed on the basis of probabilistic test theory.

Spearman's rho. This measure considers the extent to which a relationship between two variables may be described as a monotonic function and is commonly used for ordinal data. Rho is calculated by ordering the data by rank and correlating the two rank orders. Rho may be interpreted in a similar way to Pearson's correlation.

Kendall's tau. Kendall's tau is a measure of agreement that is calculated on the basis of rank orders. Whereas rho is based on the proportion of variability accounted for, tau measures agreement. Thus, tau expresses the difference between the probability that participants are rated in the same order and the probability that participants are rated in different orders. A tau value of 1.00 indicates a perfect correspondence between the two tests, while 0.00 reveals no correspondence.

Goodman and Kruskal's gamma. Unlike Kendall's tau, gamma ignores bindings, i.e. cases when two participants were assigned the same rank (e.g. because they both had received a B1 rating). A computation method that is insensitive to bindings provides helpful insights, especially when there are relatively few categories on a scale as is the case here. As a consequence of the calculation method, gamma tends to be higher than Kendall's tau.

In the field of language testing, Rasch measurement is increasingly used to measure latent traits, such as language abilities (e.g. reading, listening, speaking, writing, grammatical competence). Rasch statistics do not only allow for the objective analysis of an examinee's ability, but also for differences in item difficulty and scale properties. For different kinds of data (e.g. dichotomous data, rating scale data, partial credit data), various kinds of Rasch measurement models exist.

This study relies on an extension of the original dichotomous Rasch model, called multi-facet Rasch measurement (MFRM; cf. Linacre, 1989; 2009), which is particularly suitable to analyze data from rating scales based on human judgments. MFRM accounts for various aspects of the test situation, which are treated as different facets. In the current study, three facets were included: examinee ability, rater severity/ leniency, and rating criteria. Thus, a FACETS analysis determines each examinee's exact personal ability (the primary goal of any language test), taking into account the severity or leniency of the rater(s) and any specific difficulties of the rating criteria.

One major advantage of Rasch statistics is that all parameters are calibrated on the same metric because FACETS automatically converts all raw scores into equal interval logit measures. Estimates of person ability, of rater severity/ leniency, and of rating criteria are expressed in logits, which are directly comparable. By this means, it is possible to create straight links between the parameters included in the analysis.

The MFRM model used in the current analysis can be expressed as:

$$\log (P_{nijk}/P_{nijk-1}) = B_n - C_j - D_c$$

P_{nijk} = the probability that examinee n on component i is rated by judge j with a score of k

P_{nijk-1} = the probability that examinee n on component i is rated by judge j with a score of $k-1$

B_n = the ability of the examinee n

C_j = the severity of rater j
 D_c = the difficulty of the rating criterion i

In other words, the formula expresses the probability in logits that an examinee will receive a rating by a judge as a reflection of his or her personal ability, the severity of the rater, and the difficulty of the test criterion (one of the CEFR scales in Table 2). FACETS provides valuable insights on many aspects of the test:

Objective measures of examinee ability B_n . FACETS computes for each examinee an estimate of his or her individual ability, taking into account the severity/ leniency of the rater and the difficulty of the rating criteria. The higher the logit value, the higher is the examinee's personal ability.

Objective measures of rater severity/ leniency C_j . A parameter of rater severity/ leniency is computed and subsequently used to calculate the personal ability parameter. For instance, whereas examinees with a severe rater will receive a bonus on their original rating, examinees with a lenient rater will obtain a lower final rating. The use of logit values allows for very fine-grained adjustments of the personal ability parameter based on the rater severity parameter. Again, the rater severity parameter is expressed in logits. To determine rater severity/ leniency, each judge is required to rate a small sample of identical speech productions. In the current study, approximately 10% of the writing samples were double-rated.

Objective measures of rating criteria D_c . Since it is sometimes easier to get higher ratings on a rating scale than on a different rating scale, the MFRM model selected for this study measures the difficulty of the rating criteria. Again, the difficulties of the ratings scales are expressed in logits, the same metric used for the two other facets of the test situation. By taking into account the difficulty of rating criteria, they can be compared directly to provide an accurate estimate of the examinee's ability.

Reliability of separation index. A reliability of separation index is calculated for each facet. The reliability of separation index ranges from 0 to 1 and can be interpreted in a way similar to Cronbach's alpha (Bond & Fox, 2007). Whereas for some facets, like examinee ability, a high separation index close to 1 is desirable (meaning that the test differentiates well between examinees of different ability), facets, like rater severity, are ideally close to 0. This indicates that it makes no difference which judge gives a rating.

Model fit statistics. Rasch measurement models are prescriptive in that they impose a theoretic model on empirical data. To interpret Rasch analyses meaningfully, the actual fit between the selected Rasch model and the data needs to be verified. FACETS provides two kinds of fit statistics for all test facets that are included in a MFRM analysis: infit and outfit mean-square values. Whereas infit statistics refer to the randomness of the data that threatens the model's validity, outfit statistics yield information on outliers (Eckes, 2009). Generally, infit statistics is considered more important than outfit statistics (Bond & Fox, 2007; Eckes, 2009). Both infit and outfit mean-square values range from 0 to infinity, an infit value of 1.0, indicating the exact amount of variance in the data that was expected from the model. Mean-square values below 1.0 represent less variance in the data, and mean-square values larger than 1.0 stand for more variance in the data. While mean-square values below 0.5 or between 1.5 and 2.0 are considered less productive but not degrading, mean square values > 2.0 distort or degrade the measurement system (Linacre, 2012). Bond & Fox (2007) consider mean square values between 0.6 and 1.4 reasonable for rating scale data.

3 Data Analysis

This section contains the results of all statistical analyses for each language. The first part for each language gives descriptive statistics for the distribution of the CEFR levels and correlations between the rating criteria. A second part focuses on inter-rater reliability estimates derived from classical test theory. The third part for each language contains the results from the MFRM analysis.

3.1 Data Analysis of the Czech Speech Sample

Table 3 displays the distribution of ratings across the seven scales for the three Czech tests.

*Table 3
Distribution of Ratings in the Czech Speech Sample*

		A1	A2	A2+	B1	B1+	B2	B2+	C1	C2
UJÓP A2 Test (n = 131)	General Linguistic Range	1.5%	68.7%	17.6%	8.4%	3.1%				
	Vocabulary Range	7.6%	77.9%	n.a.	14.5%	n.a.		n.a.		
	Vocabulary Control	5.3%	63.4%	n.a.	27.5%	n.a.	3.8%	n.a.		
	Grammatical Accuracy	6.1%	69.5%	n.a.	22.1%	n.a.	2.3%	n.a.		
	Cohesion and Coherence	2.3%	69.5%	n.a.	26.7%	n.a.	0.8%	n.a.		
	Sociolinguistic Appropriateness	11.5%	33.6%	n.a.	3.8%	n.a.	1.5%	n.a.		
	Orthographic Control		29.0%	n.a.	60.3%	n.a.	8.4%	n.a.		

UNCert I (B1 Level) (n = 176)	General Linguistic Range		5.1%	9.7%	78.4%	6.8%				
	Vocabulary Range	0.6%	31.8%	n.a.	66.5%	n.a.		n.a.		
	Vocabulary Control		43.8%	n.a.	51.1%	n.a.	5.1%	n.a.		
	Grammatical Accuracy	0.6%	52.3%	n.a.	44.3%	n.a.	0.6%	n.a.		
	Cohesion and Coherence		17.6%	n.a.	79.5%	n.a.	1.7%	n.a.		
	Sociolinguistic Appropriateness	4.5%	54.4%	n.a.	39.2%	n.a.	1.7%	n.a.		
	Orthographic Control		5.7%	n.a.	78.4%	n.a.	15.3%	n.a.		
UJÓP B2 Test (n = 131)	General Linguistic Range			1.4%	10.6%	12.0%	63.9%	6.3%	4.8%	
	Vocabulary Range		0.5%	n.a.	17.8%	n.a.	74.5%	n.a.	6.7%	
	Vocabulary Control		1.0%	n.a.	40.9%	n.a.	46.2%	n.a.	8.7%	1.9%
	Grammatical Accuracy		18.8%	n.a.	33.2%	n.a.	40.4%	n.a.	4.8%	1.0%
	Cohesion and Coherence		1.9%	n.a.	13.0%	n.a.	78.4%	n.a.	4.8%	0.5%
	Sociolinguistic Appropriateness		---	---	---	---	---	---	---	---
	Orthographic Control		5.8%	n.a.	45.7%	n.a.	41.3%	n.a.	4.8%	0.5%

Note: Owing to missing or invalid data, not all values in a row add up to 100%. The Sociolinguistic Appropriateness scale could not be used for the UJÓP B2 test; hence, no ratings are available for this criterion.

As Table 3 shows, by far the largest proportion of ratings in the UJÓP A2 test is located at the A2 level. Neighboring levels are used merely marginally. Only the majority of judgments on the Orthographic Control scale are (somewhat surprisingly) one level above A2. Roughly speaking, the distribution of ratings reflects what one would expect from an A2 test.

The same holds for the ratings in the UNCert I (B1) test. Again, most of the ratings are situated at the expected levels. Exceptions are the scales Grammatical Accuracy and Sociolinguistic Appropriateness, where the judges rated the candidates slightly worse than anticipated. As was the case with the UJÓP A2 test, neighboring levels clearly display fewer ratings than the intended level.

The distribution of ratings at the B2 level is in-line with the other two Czech tests as well, the only exception being the Orthographic Control scale on which most participants received ratings one level below B2.

Generally speaking, the overall distribution of ratings adequately reflects the character of the respective tests, the majority of ratings being at the level of the test, a few ratings below and a few ratings above. By implication, Table 4 provides substantial evidence for the conclusion that the Czech speech samples

are a representative specimen of the respective CEFR levels. It can also tentatively be concluded that the rating criteria are well suited to discriminate between participants of different levels of proficiency when used by trained raters. The FACET analyses will have to corroborate this conclusion.

Table 4 highlights another aspect of reliability: Spearman's rho correlation between the rating criteria for each of the three tests. High correlations between the rating criteria indicate that they are facets of the same construct and thus provide evidence for the validity of the rating scale system.

Table 4
Correlations between Rating Criteria in the Czech Speech Sample

	General Linguistic Range	Vocabulary Range	Vocabulary Control	Grammatical Accuracy	Cohesion and Coherence	Soc. Appropriateness	Orthographic Control
UJÓP A2 Test (n = 131)	General Linguistic Range	1.000	.494	.598	.664	.612	.335
	Vocabulary Range		1.000	.467	.470	.382	.249
	Vocabulary Control			1.000	.432	.300	.208
	Grammatical Accuracy				1.000	.540	.278
	Cohesion and Coherence					1.000	.195
	Sociolinguistic Appropriateness						1.000
	Orthographic Control						

UNlcert I (B1 Level) (n = 176)	General Linguistic Range	1.000	.412	.513	.405	.585	.469	.496
	Vocabulary Range		1.000	.049 (n.s.)	.210	.316	.142 (n.s.)	.243
	Vocabulary Control			1.000	.421	.244	.357	.386
	Grammatical Accuracy				1.000	.257	.375	.394
	Cohesion and Coherence					1.000	.380	.342
	Sociolinguistic Appropriateness						1.000	.520
	Orthographic Control							1.000
UJÓP B2 Test (n = 176)	General Linguistic Range	1.000	.646	.541	.690	.690	---	.480
	Vocabulary Range		1.000	.334	.479	.467	---	.279
	Vocabulary Control			1.000	.508	.402	---	.356
	Grammatical Accuracy				1.000	.489	---	.500
	Cohesion and Coherence					1.000	---	.425
	Sociolinguistic Appropriateness						---	---
	Orthographic Control							1.000

Note: All correlations are significant at $p < .05$ if not marked as non-significant (n.s.). The Sociolinguistic Appropriateness scale could not be used for the UJÓP B2 test; hence for this criterion no ratings are available.

In Table 4, there are mostly medium-sized correlations between the General Linguistic Range scale and its subscales at the A2 level, the only exceptions with lower correlations being the Sociolinguistic Appropriateness and the Orthographic Control scales. By contrast, most correlations between subscales tend to be somewhat lower than the correlations between the General Linguistic Range scale and its subscales. Taken altogether, this shows that the six subscales can be defined as different components of a common construct, General Linguistic Range. The same inferences can be drawn from the correlation matrices at the B1 and B2 levels.

In order to investigate another important aspect of the quality of ratings – rater reliability – by means of classical test theory, Table 6 displays three measures of correspondence and agreement between the ratings of the two Czech raters, both of whom had been required to rate a number of speech samples by

the same candidates. Since approximately 10% of all Czech speech productions were double-rated, a statistically sufficient amount of ratings was available for this type of analysis.

Table 5
Inter-rater Reliability and Agreement Parameters of the Czech Sample

	<i>n</i>	Spearman's <i>rho</i>	Kendall's <i>tau</i>	Goodman-Kruskal's <i>gamma</i>
General Linguistic range	61	.830	.765	.856
Vocabulary Range	61	.815	.782	.906
Vocabulary Control	61	.855	.825	.939
Grammatical Accuracy	61	.762	.732	.935
Coherence and Cohesion	61	.664	.612	.795
Sociolinguistic Appropriateness	36	.832	.811	.986
Orthographic Control	61	.607	.575	.823

Note: All correlations and measures of agreement are significant ($p < .01$).

The Spearman's rho values in Table 5 indicate strong or at least moderate relationships between the ratings of the Czech speech samples on all scales. This finding is corroborated by the two measures of agreement, which both lead to the conclusion that the two raters agreed to a large extent in their ratings. (Kendall's tau is typically lower than Goodman Kruskal's gamma due to the computation method.) All three parameters of correspondence and agreement allow for the conclusion that inter-rater reliability between the raters of the Czech speech sample is generally high. As a consequence, the assignment of CEFR levels to the speech samples can be considered highly reliable, particularly when the results in Tables 3 and 4 are considered.

The MFRM analysis provides a short summary from the perspective of probabilistic test theory. All the facets involved in the tests are displayed in the form of a map as well as their relationships between each other. As mentioned above, all facets are measured with the same metric, the logit scale. Figure 1 renders the map for the Czech data.

Figure 1
FACETS Summary for the Czech Writing Samples

Measr	+examinee	-Rater	-Criterion	Scale
6	+	+	+	+(9)
	.			
5	+	+	+	+
	.			8
4	+	+	+	+
	*			---
3	+	+	+	+
	.			---
2	+	+	+	+
	*			
	*			
	****.			6
1	+	+	+	+
	.		Sociolinguistic Appropriateness	+
	*****.		Grammatical Accuracy	---
* 0	* *****.	* A B	* Vocabulary Control	* 5
	***.		Cohesion and Coherence	---
	**.		Vocabulary Range	---
	****.		General Linguistic Range	---
	****.		Orthographic Control	---
-1	+	+	+	+
	****.			
	****.			4
	*			
-2	+	+	+	+
	*****.			---
	*****.			3
	*****.			---
	*****.			---
-3	+	+	+	+
	****.			---
	****.			---
	***.			
-4	+	+	+	+
	*			2
	.			
	*			
-5	+	+	+	+
	.			
	.			
-6	+	+	+	+
	.			
	.			
-7	+	+	+	+
	.			---
	.			
-8	+	+	+	+(1)
Measr	* = 5	-Rater	-Criterion	Scale

The first column in Figure 1 represents the logit scale, ranging from -8 to +6. This is the metric by which the three facets are measured. The second column stands for the examinee facet. Examinees with a higher logit score and, by implication, a higher degree of ability, appear at the top of the column; examinees with a lower ability are listed at the bottom. For example, an examinee with a logit value of +1 has a chance greater than 50% to receive a B2 rating, which is equivalent to a scale value of 6. Column 3 represents the rater facet, indexing the judges' relative severity or leniency on the logit scale. As can be inferred from Figure 1, there is virtually no difference between the two raters in terms of severity. The rating criteria are scaled in column 4. The Orthographic Control scale is the easiest one, followed by Cohesion and Coherence and General Linguistic Range. Somewhat more difficult are the Vocabulary Control and the Vocabulary Range scales, followed by the Grammatical Accuracy scale. The most difficult criterion is Sociolinguistic Appropriateness. Owing to a considerable number of missing data, this observation is not reliable, however. It is important to note that the rating criteria cluster more or less at the same level, no criterion being extremely more difficult or easy than the other levels. The final scale column represents the CEFR levels. To receive a B1 rating, which is equivalent to the scale point 4, an examinee needs to have an ability of approximately -2 logits.

Whereas the FACETS summary provides an overview of the analysis, the software renders detailed information about the individual facets. For the purpose of this study, it is particularly valuable to have

logit values for the person measures, as well as dispersion parameters. Discrimination and reliability estimates are available, too. Finally, FACETS provides fit statistics for each facet indicating how the chosen measurement model matches the data. These results are reported in the following sections.

Table 6
Summary Statistics for Examinee Ability and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
Mean Score	-1.28	.97
Standard Deviation	1.93	.77
Range	13.55	
Maximum	5.83	
Minimum	-7.72	
Separation	3.99	
Strata	5.65	
Reliability of separation	.94	
Chi-square (df)	6755.9 (410)	
Significance	.00	

The descriptive statistics in Table 6 show that the tests cover a broad range of ability levels. More interesting are the separation and reliability estimates. A separation ratio of 3.18 indicates that the elements of the examinee facet are spread widely. Given that the Czech tests range from the A2 to the B2 level, this could have been expected. The strata value stands for the groups of examinees which can be discerned reliably within the facet. A strata value of 4.57 means that almost 5 groups (or ability levels) can be identified within the facet. The reliability of separation parameter is similar to Cronbach's alpha in the case of the examinee facet. A reliability of separation value of .91 can be interpreted as a substantially high degree of internal rating consistency. The chi-square statistic as a further analysis tests the null hypothesis that there is no difference between examinees regarding their writing ability. In this case, where there is a significant chi-square statistic, the null hypothesis can be rejected. Finally, the infit statistic highlights patterns of randomness in the examinee facet. An infit mean-square value of .98 indicates that the empirical data produced almost the same amount of variance as expected from the Rasch model. As for the model fit for individual examinees, according to McNamarra (1996) threshold values of ± 2 standard deviations were used. None of the examinees had an individual infit mean-square value of 0 ($.98 - .79 \times 2$); hence, there is no overfit in the data. As of yet, 16 examinees (i.e. a proportion of ca. 4%) exceeded the threshold level of 2.41 ($.97 + .77 \times 2$), indicating inconsistencies in the ratings. According to Myford & Wolfe (2003), the Rasch model encompasses a degree of misfit, which means that these data do not have to be excluded from the analysis. The analysis of the examinee facet shows that the Czech tests discriminate well between participants of different ability.

Another important feature of MFRM is that it calculates a fair average for all facets included in the analysis. The fair average for the examinee facet diverges from the average of the raw scores insofar as it takes into account rater severity and the rating criteria. As can be seen from Table 7, in some cases

the fair average differs from the raw scores. For instance, examinee 11 (LON0611002, last column, second last line) reached a raw score of 2.55; his fair average would still be 2.44. This observation has critical consequences for assigning a final rating. Whereas examinee 11 would have received an A2+ rating on the basis of his raw scores, he would only have been awarded an A2 rating based on his fair average. The complete list with fair averages for the Czech speech sample is rendered in Appendix 1.

Table 7
Summary Statistics for Examinee Ability and Fit

Total Score	Total Count	Obsvd Average	Fair-M Average	Model Measure	Model S.E.	Infit MnSq	Infit ZStd	Outfit MnSq	Outfit ZStd	Estim. Discrm	Correlation PtMea	Correlation PtExp	Num examinee
8	6	1.33	1.30	-7.72	.88	.85	-.4	.80	-.4	1.56	.58	.20	53 PHA1109010
12	7	1.71	1.73	-5.92	.83	.81	-.2	.77	-.2	1.28	.49	.27	9999 9999
35	20	1.75	1.75	-5.81	.50	3.75	4.6	4.16	4.6	-.89	.33	.23	35 PHA0411010
34	19	1.79	1.77	-5.70	.53	.96	.0	.95	.0	1.01	-.03	.22	4 KYJ0611006
25	14	1.79	1.79	-5.58	.61	.58	-.7	.50	-.8	1.39	.81	.24	929 929
24	13	1.85	1.84	-5.30	.66	.51	-.6	.44	-.7	1.31	.74	.21	44 PHA0510004
13	7	1.86	1.86	-5.18	.89	.47	-.3	.41	-.3	1.31	.69	.24	66 PHA1111009
13	7	1.86	1.86	-5.18	.89	.47	-.3	.41	-.3	1.31	.69	.24	608 608
25	13	1.92	1.91	-4.89	.64	.40	-.5	.45	-.4	1.22	.00	.19	3 KYJ0611005
37	19	1.95	1.93	-4.79	.51	3.35	2.2	3.85	2.5	.22	.13	.18	45 PHA0510010
12	6	2.00	1.97	-4.58	.84	.03	-1.1	.03	-1.1	1.40	.00	.19	38 PHA0509002
12	6	2.00	1.97	-4.58	.84	.03	-1.1	.03	-1.1	1.40	.00	.19	40 PHA0509013
12	6	2.00	1.97	-4.58	.84	.03	-1.1	.03	-1.1	1.40	.00	.19	52 PHA1109008
26	13	2.00	1.98	-4.52	.56	1.71	.9	1.55	.8	.80	.40	.20	47 PHA0610005
27	13	2.08	2.04	-4.25	.49	1.07	.3	.86	.0	1.01	.26	.21	12 LON0611004
28	13	2.15	2.10	-4.03	.43	.79	-.1	.93	.1	1.22	-.03	.23	63 PHA1111004
44	20	2.20	2.14	-3.93	.33	1.09	.3	1.11	.3	.99	.62	.25	6 LIB0611001
44	20	2.20	2.14	-3.93	.33	1.29	.7	2.04	1.6	.85	.30	.25	7 LIB0611002
29	13	2.23	2.16	-3.86	.39	1.34	.7	1.72	1.1	.88	.18	.26	48 PHA0610006
29	13	2.23	2.16	-3.86	.39	1.06	.2	.81	.0	.98	.40	.26	58 PHA1110003
29	13	2.23	2.16	-3.86	.39	1.05	.2	1.06	.3	1.03	.52	.26	64 PHA1111006
46	20	2.30	2.22	-3.74	.30	.80	-.4	.67	-.5	1.27	.30	.28	21 PHA0112003
44	19	2.32	2.22	-3.73	.30	.92	.0	1.01	.1	.88	.43	.27	42 PHA0510003
30	13	2.31	2.22	-3.72	.37	.70	-.6	.49	-.8	1.33	.44	.28	15 PHA0111001
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	28 PHA0209013
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	29 PHA0210001
14	6	2.33	2.23	-3.72	.53	1.10	.3	1.26	.5	1.11	-.14	.28	32 PHA0210008
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	39 PHA0509007
14	6	2.33	2.23	-3.72	.53	1.07	.3	1.15	.4	1.13	-.08	.28	55 PHA1109025
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	67 ST071122B0
16	7	2.29	2.23	-3.72	.51	.68	-.3	.46	-.5	1.33	.44	.32	1 KYJ0611003
16	7	2.29	2.23	-3.72	.51	.68	-.3	.46	-.5	1.33	.44	.32	2 KYJ0611004
16	7	2.29	2.23	-3.72	.51	.82	.0	.61	-.2	1.27	.30	.32	8 LIB0611003
30	13	2.31	2.23	-3.71	.37	1.00	.1	1.66	1.1	1.11	-.09	.28	61 PHA1111002
33	14	2.36	2.28	-3.61	.34	.57	-1.2	.40	-1.1	1.09	.53	.32	632 632
31	13	2.38	2.29	-3.60	.34	.90	-.1	1.47	.9	.82	-.01	.30	17 PHA0111003
48	20	2.40	2.31	-3.56	.28	.97	.0	1.04	.2	.85	.40	.31	23 PHA0112007
48	20	2.40	2.32	-3.55	.28	.98	.0	.81	-.2	.83	.36	.32	5 KYJ0611009
34	14	2.43	2.35	-3.50	.33	.54	-1.5	.41	-1.2	.78	.54	.34	641 641
49	20	2.45	2.36	-3.49	.27	2.00	2.9	1.45	1.0	.44	.39	.32	36 PHA0411011
32	13	2.46	2.36	-3.48	.33	1.54	1.4	1.14	.4	.86	.41	.32	18 PHA0111004
32	13	2.46	2.37	-3.47	.33	.73	-.7	.57	-.8	1.36	.51	.32	37 PHA0411012
50	20	2.50	2.40	-3.43	.26	1.24	.9	.94	.0	1.04	.45	.33	9 LIB0611004
35	14	2.50	2.42	-3.40	.31	.74	-.8	.83	-.2	.46	.65	.36	630 630
35	14	2.50	2.42	-3.40	.31	.72	-.9	.59	-.8	1.03	.47	.36	922 922
33	13	2.54	2.44	-3.37	.32	1.95	2.5	2.10	1.9	.34	.35	.34	49 PHA0610007
51	20	2.55	2.44	-3.36	.26	1.12	.5	1.24	.7	.92	.26	.34	11 LON0611002
51	20	2.55	2.45	-3.35	.26	1.05	.2	1.65	1.5	.84	.00	.35	34 PHA0411009

Table 8 renders the most important information about the rater facet.

Table 8
Summary Statistics for Rater Severity and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
Rater 1	-.02	.96
Rater 2	.02	1.27
Mean	.0	1.11
Standard Deviation	.03	.22
Range	0.04	
Maximum	.02	
Minimum	-.02	
Separation	.00	
Strata	.33	
Reliability of separation	.00	
Chi-square (df)	.5 (1)	
Significance	.5	

As could be inferred from the summary in Figure 1, both raters of the Czech speech sample showed approximately the same degree of severity. The separation value of .00 in Table 8 is a strong indicator that it does not matter which rater judges a sample. This is also reflected by the strata value, which is close to .0. Also, the chi-square statistic shows that the raters can be used interchangeably. As for the fit statistics, rater 1 displays an almost perfect model fit, whereas rater 2 has slightly more random rating patterns than the model predicted. The infit value of rater two remains within acceptable limits, however. To conclude, the two raters of the Czech speech sample showed a consistent and similar rating behavior. In this respect, Table 8 corroborates the good inter-rater reliability and agreement data from classical test theory reported in Table 5.

The final facet that was analyzed are the rating criteria. The results of the MFRM analysis are depicted in Table 9.

Table 9
Summary Statistics for Rating Criteria and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
General Linguistic Range	-.45	.36
Vocabulary Range	-.08	1.00
Vocabulary Control	-.02	1.16
Grammatical Accuracy	.61	1.11
Cohesion and Coherence	-.37	.82
Sociolinguistic Appropriateness	.84	.95
Orthographic Control	-.54	1.55
Mean	.00	.99
Standard Deviation	.53	.36
Range	1.38	
Maximum	.84	
Minimum	-.54	
Separation	9.27	
Strata	12.69	
Reliability of separation	.99	
Chi-square (df)	453.3 (6)	
Significance	.00	

Table 9 suggests that the rating criteria used to rate the Czech speech sample differ in difficulty. The most difficult scale was the Sociolinguistic Appropriateness scale with a logit value of .84. Since many speech samples at the B2 level were not ratable by means of this scale, this observation is probably an artifact. In any case, the Grammatical Accuracy scale is more difficult than the two Vocabulary scales in the middle range or the Cohesion and Coherence, General Linguistic Range or Orthographic Control scales. The separation and reliability of separation statistics provide evidence that the rating scales are well suited to discriminate between examinees with different degrees of ability. Also the chi-square statistics can be interpreted in this direction. The rating criteria led to almost exactly the same amount of variance that was predicted from the model. It must be noted that the General Linguistic Range scale tends to overfit the model and is already below the limit of .6 and 1.4. The high infit value of the Orthographic Control scale indicates that the raters did not use this scale as consistently as the other scales. In general, the analysis of the scale facet points to a good functionality.

3.2 Data Analysis of the German Speech Sample

Table 10 displays the distribution of ratings for the German tests by each test individually.

Table 10
Distribution of Ratings in the German Speech Sample

		A1	A2	A2+	B1	B1+	B2	B2+	C1	C2
Start Deutsch 1 (A1 Level) (n = 229)	General Linguistic Range	24.5%	51.1%	12.2%	11.8%					
	Vocabulary Range	20.5%	52.4%	n.a.	25.3%	n.a.		n.a.		
	Vocabulary Control	31.9%	52.0%	n.a.	14.8%	n.a.	0.4%	n.a.		
	Grammatical Accuracy	33.2%	48.9%	n.a.	15.7%	n.a.		n.a.		
	Cohesion and Coherence	29.7%	52.8%	n.a.	15.3%	n.a.		n.a.		
	Sociolinguistic Appropriateness	21.0%	55.9%	n.a.	18.8%	n.a.	1.3%	n.a.		
	Orthographic Control	7.9%	46.7%	n.a.	36.2%	n.a.	7.0%	n.a.	0.4%	0.4%
Start Deutsch 2 (A2 Level) (n = 228)	General Linguistic Range	4.8%	26.3%	23.7%	36.4%	7.9%				
	Vocabulary Range	5.7%	34.2%	n.a.	55.7%	n.a.	3.9%	n.a.		
	Vocabulary Control	7.5%	42.5%	n.a.	43.4%	n.a.	6.1%	n.a.		
	Grammatical Accuracy	6.6%	45.6%	n.a.	40.8%	n.a.	3.5%	n.a.		
	Cohesion and Coherence	6.1%	35.5%	n.a.	54.4%	n.a.	3.1%	n.a.		
	Sociolinguistic Appropriateness	4.4%	42.5%	n.a.	39.0%	n.a.	10.5%	n.a.		
	Orthographic Control		20.2%	n.a.	53.9%	n.a.	22.8%	n.a.	0.9%	

Zertifikat Deutsch (B1 Level) (n = 223)	General Linguistic Range	1.7%	9.5%	17.3%	45.0%	20.3%	5.2%			
	Vocabulary Range	1.3%	14.3%	n.a.	70.1%	n.a.	13.4%	n.a.		
	Vocabulary Control	1.7%	26.0%	n.a.	57.6%	n.a.	13.4%	n.a.	0.4%	
	Grammatical Accuracy	1.7%	38.1%	n.a.	46.8%	n.a.	9.1%	n.a.		
	Cohesion and Coherence	2.2%	22.1%	n.a.	61.5%	n.a.	11.3%	n.a.	0.4%	
	Sociolinguistic Appropriateness	1.7%	21.6%	n.a.	48.5%	n.a.	26.8%	n.a.		
	Orthographic Control	0.4%	10.0%	n.a.	46.3%	n.a.	32.9%	n.a.	7.4%	
Deutsch B2 (n = 225)	General Linguistic Range			0.9%	7.6%	21.8%	52.4%	14.2%	2.2%	
	Vocabulary Range			n.a.	11.6%	n.a.	78.2%	n.a.	10.2%	
	Vocabulary Control		0.9%	n.a.	30.7%	n.a.	54.2%	n.a.	9.8%	4.0%
	Grammatical Accuracy		2.2%	n.a.	40.0%	n.a.	48.0%	n.a.	4.0%	
	Cohesion and Coherence		0.4%	n.a.	31.1%	n.a.	58.7%	n.a.	6.7%	0.4%
	Sociolinguistic Appropriateness		0.4%	n.a.	24.0%	n.a.	63.6%	n.a.	9.8%	
	Orthographic Control			n.a.	11.1%	n.a.	47.1%	n.a.	31.1%	8.0%

	General Linguistic Range	n.a.	0.4%	6.2%	24.3%	30.1%	34.5%	2.7%
	Vocabulary Range	n.a.	0.4%	n.a.	35.0%	n.a.	59.7%	4.9%
Deutsch C1 (n = 226)	Vocabulary Control	n.a.	5.8%	n.a.	58.0%	n.a.	32.3%	2.7%
	Grammatical Accuracy	n.a.	12.8%	n.a.	62.4%	n.a.	19.0%	1.3%
	Cohesion and Coherence	n.a.	3.5%	n.a.	54.4%	n.a.	35.4%	4.9%
	Sociolinguistic Appropriateness	n.a.	9.7%	n.a.	58.8%	n.a.	27.9%	1.3%
	Orthographic Control	n.a.	3.5%	n.a.	45.6%	n.a.	37.6%	10.2%

Note: Owing to missing or invalid data, not all values in a row add up to 100%.

As can be seen from *Table 10*, the two judges rated most examinees of the Start Deutsch 1 test on all scales one level higher than one would assume from the intended level of the test. Astonishingly, 11.8% even reached the B1 level on the General Linguistic Range scale, and one third of the A1 examinees received a B1 score on the Orthographic Control scale. This trend also holds for the Start Deutsch 2 test. Most of the ratings on the General Linguistic Range scale tend to be somewhat higher than implied by the A2 nature of the test. In line with this observation, four of the remaining rating scales have their peak at the B1 level. As for the Zertifikat Deutsch B1 test, the majority of ratings are centered at the intended level. Interestingly, 7.4% were able to score at the C1 level on the Orthographic Control scale. As is the case with the Zertifikat Deutsch Test, most of the ratings of the Deutsch B2 test reflect the intended levels. Whereas most ratings of the Deutsch C1 test are positioned at the C1 level of the General Linguistic Range Scale, substantial proportions of examinees received B2+ and B2 ratings. Since many ratings on the other scales, with the exception of the Vocabulary Range scale, were below the C1 level, it can be concluded that the larger part of the Deutsch C1 test performances reflect a weak version of this level.

To summarize, the ratings at the A1 and A2 levels are higher than expected. Whether these tests discriminate well enough between the A1, A2 and B1 level is questionable. Participants in these tests may have possessed a higher degree of proficiency than the test covered. In the case of the Zertifikat Deutsch, Deutsch B2 and Deutsch C1 tests, however, the ratings cover the intended levels.

Table 11
Correlations between Rating Criteria in the German Speech Sample

	General Linguistic Range	Vocabulary Range	Vocabulary Control	Grammatical Accuracy	Cohesion and Coherence	Soc. Appropriateness	Orthographic Control	
Start Deutsch 1 (A1 Level) (n = 229)	General Linguistic Range	1.000	.823	.296	.762	.759	.766	.656
	Vocabulary Range		1.000	.737	.627	.658	.640	.608
	Vocabulary Control			1.000	.724	.654	.655	.625
	Grammatical Accuracy				1.000	.637	.641	.632
	Cohesion and Coherence					1.000	.589	.620
	Sociolinguistic Appropriateness						1.000	.572
	Orthographic Control							1.000
Start Deutsch 2 (A2 Level) (n = 228)	General Linguistic Range	1.000	.835	.810	.699	.763	.678	.652
	Vocabulary Range		1.000	.737	.562	.755	.645	.574
	Vocabulary Control			1.000	.563	.627	.560	.642
	Grammatical Accuracy				1.000	.601	.594	.537
	Cohesion and Coherence					1.000	.646	.612
	Sociolinguistic Appropriateness						1.000	.592
	Orthographic Control							1.000

Zertifikat Deutsch (B1 Level) (n = 223)	General Linguistic Range	1.000	.735	.797	.747	.693	.738	.639
	Vocabulary Range		1.000	.694	.600	.697	.595	.516
	Vocabulary Control			1.000	.683	.601	.664	.546
	Grammatical Accuracy				1.000	.567	.668	.612
	Cohesion and Coherence					1.000	.602	.560
	Sociolinguistic Appropriateness						1.000	.584
	Orthographic Control							1.000
Deutsch B2 (n = 225)	General Linguistic Range	1.000	.629	.636	.567	.728	.612	.352
	Vocabulary Range		1.000	.581	.463	.540	.467	.233
	Vocabulary Control			1.000	.529	.465	.430	.350
	Grammatical Accuracy				1.000	.508	.414	.275
	Cohesion and Coherence					1.000	.579	.276
	Sociolinguistic Appropriateness						1.000	.329
	Orthographic Control							1.000

	General Linguistic Range	1.000	.772	.700	.696	.655	.631	.536
	Vocabulary Range		1.000	.631	.621	.547	.577	.506
Deutsch C1	Vocabulary Control			1.000	.586	.516	.568	.458
(n = 226)	Grammatical Accuracy				1.000	.550	.601	.514
	Cohesion and Coherence					1.000	.604	.446
	Sociolinguistic Appropriateness						1.000	.446
	Orthographic Control							1.000

Note: All correlations are significant at $p < .05$ if not marked as non-significant (n.s.).

Table 11 displays a number of relationships between the rating criteria for all participants of the German tests. As was already the case with the Czech tests, the majority of correlations are medium-sized. This can be considered one important indicator of test validity, each scale representing one facet of the General Linguistic Range scale.

With respect to the quality of ratings, the Spearman's rho values in *Table 12* are very high for all rating scales. Whereas this statistic only refers to similar patterns of variance, Kendall's tau and Goodman Kruskal's gamma account for the agreement between raters. Again, the tau and gamma values are close to 1.0. All three statistical parameters demonstrate that inter-rater reliability between the two raters of the German speech sample is excellent. As a consequence, the speech samples are most likely representative for the CEFR levels at which they are rated. This assumption needs to be confirmed by FACETS analyses again.

Table 12
Inter-rater Reliability and Agreement Parameters of the German Sample

	<i>n</i>	Spearman's <i>rho</i>	Kendall's <i>tau</i>	Goodman-Kruskal's <i>gamma</i>
General Linguistic range	101	.959	.894	.966
Vocabulary Range	101	.938	.880	.894
Vocabulary Control	101	.904	.832	.962
Grammatical Accuracy	95	.880	.808	.956
Coherence and Cohesion	98	.908	.851	.981
Sociolinguistic Appropriateness	98	.847	.780	.936
Orthographic Control	81	.863	.781	.928

Note: All correlations and measures of agreement are significant ($p < .01$).

The MFRM analysis provides a short summary in Figure 2 of all facets and their relationships, measured by means of the logit scale.

Figure 2
 FACETS Summary for the German Writing Samples

Measr	+examinee	-Rater	-Criterion	Scale	
10	+	.	+	+	(9)
9	+	.	+	+	
8	+	.	+	+	
7	+	.	+	+	---
6	+	*.	+	+	
5	+	.	+	+	8
4	+	**.	+	+	---
3	+	*****.	+	+	7
2	+	*****.	+	+	---
1	+	*****.	+	+	6
0	+	*****.	+	+	5
-1	+	*****.	+	+	---
-2	+	*****.	+	+	4
-3	+	*****.	+	+	---
-4	+	*****.	+	+	3
-5	+	*****.	+	+	---
-6	+	*****.	+	+	2
-7	+	***.	+	+	
-8	+	***.	+	+	
-9	+	*.	+	+	---
-10	+	.	+	+	
-11	+	.	+	+	
-12	+	**.	+	+	(1)
Measr	* = 7	-Rater	-Criterion	Scale	

The first column in Figure 2 represents the logit scale, ranging from -12 to +10. This larger range mirrors the fact that a broader spectrum of language ability was tested than in the Czech tests. While the second column stands for the examinee facet, column 3 refers the rater facet. By far the largest proportion of examinees clusters at the intermediate levels. Figure 2 also suggests that the two raters hardly differ in difficulty. The rating criteria are scaled in column 4, and column 5 represents the rating scale structure.

Analogous to the Czech results, the MRFM analysis provides comprehensive information on the individual facets, e.g logit values for the person measures, dispersion parameters, discrimination and reliability estimates, and fit statistics. These results are reported in the following sections.

Table 13
Summary Statistics for Examinee Ability and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
Mean Score	-1.46	.92
Standard Deviation	4.21	.75
Range	23.31	
Maximum	10.61	
Minimum	-12.70	
Separation	4.16	
Strata	6.09	
Reliability of separation	.97	
Chi-square (df)	42961.2 (1034)	
Significance	.00	

The descriptive statistics in Table 13 show that the spectrum of examinee ability is in fact greater than in the Czech sample. Also the separation ratio of 4.16 indicates that the elements of the examinee facet are spread widely over the facet. A strata value of 6.09 means that approximately six groups or ability levels can be identified within the facet. Since the CEFR scale comprises six major levels from A1 to C2, the scale obviously functions as expected. A reliability of separation value of .95 indicates a high degree of rating consistency. The chi-square statistic shows that there is a significant difference between examinees' writing abilities. Finally, an infit mean-square value of .92 indicates that the empirical data accounts for almost the same amount of variance that was expected from the Rasch model. As for the model fit for individual examinees, according to McNamara (1996) threshold values of ± 2 standard deviations were used again. None of the examinees had an individual infit mean-square value of 0 ($.92 - .75 \times 2$); hence, there is no overfit in the data. As of yet, 29 examinees (i.e. a proportion of ca. 3%) exceeded the threshold level of 2.42 ($.92 + .75 \times 2$), indicating inconsistencies in the ratings. Altogether, the analysis of the examinee facet points to the conclusion that the German tests discriminated well between participants of different ability.

For the German speech sample, a fair average for each examinee was calculated as well. The complete list of fair averages is rendered in Appendix 2.

As for the rater facet, Table 14 contains detailed information about the logit measures, its discrimination and reliability, and its model fit.

Table 14
Summary Statistics for Rater Severity and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
Rater 1	-.22	.98
Rater 2	.22	1.30
Mean	.00	1.14
Standard Deviation	.31	.22
Range	.44	
Maximum	.22	
Minimum	-.22	
Separation	7.80	
Strata	10.74	
Reliability of separation	.98	
Chi-square (df)	61.9 (1)	
Significance	.00	

The raters of the German speech sample showed a slightly different degree of severity. Hence, the separation ratio of 7.80 shows that it makes no difference which judge rates a sample. This is also reflected by the strata value of 10.74 and the reliability of separation value of .98. The chi-square statistic supports the validity of the model. Rater 1 displays a nearly perfect model fit, whereas rater 2 produces considerably more random rating patterns than predicted from the model. According to the research literature, the infit value of rater two is, however, still acceptable. Yet, the chi-square statistic is significant. Thus, the final rating depends on the fact which rater actually assesses a speech production. In order to account for this observation, the fair average adjusts the raw scores for rater severity.

The final facet that was analyzed for the German speech sample were the rating criteria. The results of the MFRM analysis are summarized in table 15.

Table 15
Summary Statistics for Rating Criteria and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
General Linguistic Range	-.03	.34
Vocabulary Range	-.37	.77
Vocabulary Control	.34	1.02
Grammatical Accuracy	1.00	.99
Cohesion and Coherence	.29	.95
Sociolinguistic Appropriateness	.12	1.17
Orthographic Control	-1.36	2.06
Mean	.00	1.04
Standard Deviation	.73	.52
Range	2.37	
Maximum	1.01	
Minimum	-1.36	
Separation	16.87	
Strata	22.82	
Reliability of separation	1.0	
Chi-square (df)	1530.5 (6)	
Significance	.00	

Table 15 suggests that the rating criteria used to rate the German speech sample differ in difficulty. The most difficult scale was the Grammatical Accuracy scale with a logit value of 1.01. The Grammatical Accuracy scale is more difficult than the Vocabulary Control scale in the middle range or the Cohesion and Coherence and the Sociolinguistic Appropriateness scales. The General Linguistic Range and Vocabulary Range scales follow these in difficulty. The Orthographic Control scale was the easiest one. The separation and reliability of separation statistics show that the rating scales are well suited to discriminate between examinees with different degrees of ability. The rating criteria produced exactly the same amount of variance as predicted from the model. It has to be noted that the General Linguistic Range scale tends to overfit the model again (this was also the case in the Czech data). The high infit value of the Orthographic Control scale indicates that the raters did not use this scale as consistently as all the other scales. The chi-square statistics allows from another perspective for the conclusion the

rating criteria generally discriminate well between examinees. In short, the scale functionality can be considered good.

3.3 Data Analysis of the Italian Speech Sample

Table 16 shows the distribution of ratings for the four Italian writing tests.

Table 16
Relative Frequency of Ratings in the Italian Speech Sample

		A1	A2	A2+	B1	B1+	B2	B2+	C1	C2
Italiano A1 (n = 229)	General Linguistic Range	15.7%	38.4%	38%	6.6%					
	Vocabulary Range	10%	72.1%	n.a.	16.2%	n.a.		n.a.		
	Vocabulary Control	16.6%	57.2%	n.a.	23.1%	n.a.		n.a.		
	Grammatical Accuracy	20.1%	47.6%	n.a.	28.8%	n.a.	0.9%	n.a.		
	Cohesion and Coherence	25.8%	69%	n.a.	2.2%	n.a.		n.a.		
	Sociolinguistic Appropriateness	17%	61.6%	n.a.	17.9%	n.a.		n.a.		
	Orthographic Control	5.2%	39.3%	n.a.	54.1%	n.a.		n.a.		
Italiano A2 (n = 229)	General Linguistic Range	10%	31.9%	21.8%	27.5%	6.6%	0.4%			
	Vocabulary Range	7.4%	41%	n.a.	46.7%	n.a.	3.1%	n.a.		
	Vocabulary Control	14.8%	41%	n.a.	39.3%	n.a.	3.1%	n.a.		
	Grammatical Accuracy	12.2%	52%	n.a.	30.6%	n.a.	3.5%	n.a.		
	Cohesion and Coherence	25.3%	59.4%	n.a.	12.7%	n.a.	0.9%	n.a.		
	Sociolinguistic Appropriateness	8.3%	73.4%	n.a.	16.2%	n.a.	0.4%	n.a.		
	Orthographic Control	4.8%	29.3%	n.a.	46.3%	n.a.	7.4%	n.a.	5.7%	4.8%

Italiano B1 (n = 228)	General Linguistic Range		0.9%	6.1%	32.5%	45.6%	12.7%	2.2%	
	Vocabulary Range		2.6%	n.a.	82.9%	n.a.	14.5%	n.a.	
	Vocabulary Control		4.8%	n.a.	67.1%	n.a.	28.1%	n.a.	
	Grammatical Accuracy	0.4%	18.4%	n.a.	63.6%	n.a.	17.5%	n.a.	
	Cohesion and Coherence	1.3%	33.3%	n.a.	60.1%	n.a.	5.3%	n.a.	
	Sociolinguistic Appropriateness		25.4%	n.a.	71.5%	n.a.	3.1%	n.a.	
	Orthographic Control		1.3%	n.a.	10.1%	n.a.	21.1%	n.a.	49.6% 18%
Italiano B2 (n = 218)	General Linguistic Range		0.5%	0.9%	8.7%	50.9%	28.9%	8.3%	1.4%
	Vocabulary Range		0.5%	n.a.	21.6%	n.a.	75.2%	n.a.	2.8%
	Vocabulary Control		0.9%	n.a.	34.9%	n.a.	61%	n.a.	3.2%
	Grammatical Accuracy		6%	n.a.	61%	n.a.	32.1%	n.a.	0.9%
	Cohesion and Coherence	0.5%	4.1%	n.a.	72.9%	n.a.	21.1%	n.a.	0.9%
	Sociolinguistic Appropriateness		9.2%	n.a.	74.3%	n.a.	15.6%	n.a.	
Orthographic Control		0.5%	n.a.	2.8%	n.a.	17.9%	n.a.	67.4% 11.5%	

Surprisingly, in Table 16 most of the ratings of the Italiano A1 test have their peak at the A2 level; the peak of the Orthographic Control scale is at B1. Most of the ratings on the General Linguistic Range scale which provides a comprehensive assessment of a learner's performance are at the A2+ level. It can thus be concluded that either the Italiano A1 test is too easy for the test takers or that a majority of test takers have a higher ability than measured by the Italiano A1 test. At least this observation replicates findings from the Czech and the German speech samples.

By contrast, most of the ratings in the Italiano A2 test are located at the A2 level, the only two exceptions being the Vocabulary Control scale (B1) and again the Orthographic Control scale (B1). The General Linguistic Range (A2+) scale is still to be considered inline with the expectations towards an A2 test. A

little bit odd is the fact that 5.7% of participants received a C1 rating and 4.6% even a C2 rating. However, in general the Italiano A2 seems to capture typical A2 test taker behavior well.

The same holds for the Italiano B1 test. Apart from the Orthographic Control scale with a peak at C1 all other scales have their maximum distribution at B1 or B1+ respectively. Again, it comes as a surprise that 18% of test takers receive a C2 rating on the Orthographic Control scale. This number is even larger than the proportion of test takers receiving a C2 rating in the B2 test. This observation adds further evidence to the conclusion that the Orthographic Control scale does not function as intended.

As for the Italiano B2 test, most of the ratings on the General Linguistic scale are situated at the B1+ level. Whereas test takers performed on average below the B2 level on the Grammatical Accuracy, Cohesion and Coherence and Sociolinguistic Appropriateness scales, they received average ratings at the B2 level on the two vocabulary scales and overperformed on the Orthographic Control scale.

In general, the ratings in the Italian tests reflect more or less the intended levels. While the A2 and B1 test prototypically reflect the A2 and B1 test taker behavior, the A1 test leads to higher ratings and the B2 test to slightly lower ratings than the nature of the test. The ratings in all four tests on the Orthographic Control scale raise doubt about its functionality.

Table 17
Correlations between Rating Criteria in the Italian Speech Sample

	General Linguistic Range	Vocabulary Range	Vocabulary Control	Grammatical Accuracy	Cohesion and Coherence	Soc. Appropriateness	Orthographic Control
General Linguistic Range	1.000	0.698	0.739	0.764	0.705	0.657	0.696
Vocabulary Range		1.000	0.720	0.526	0.536	0.429	0.568
Italiano A1 (A1 Level)			1.000	0.587	0.590	0.475	0.608
(n = 228)				1.000	0.564	0.595	0.622
					1.000	0.481	0.582
						1.000	0.573
							1.000

	General Linguistic Range	1.000	0.840	0.853	0.822	0.768	0.644	0.802
	Vocabulary Range		1.000	0.798	0.683	0.669	0.525	0.731
Italiano A2 (A2 Level) (n = 229)	Vocabulary Control			1.000	0.723	0.697	0.578	0.750
	Grammatical Accuracy				1.000	0.693	0.600	0.745
	Cohesion and Coherence					1.000	0.522	0.711
	Sociolinguistic Appropriateness						1.000	0.574
	Orthographic Control							1.000
		General Linguistic Range	1.000	0.578	0.582	0.558	0.652	0.475
	Vocabulary Range		1.000	0.557	0.502	0.467	0.351	0.300
Italiano B1 (B1 Level) (n = 228)	Vocabulary Control			1.000	0.523	0.516	0.338	0.297
	Grammatical Accuracy				1.000	0.522	0.373	0.399
	Cohesion and Coherence					1.000	0.418	0.357
	Sociolinguistic Appropriateness						1.000	0.311
	Orthographic Control							1.000
		General Linguistic Range	1.000	0.578	0.582	0.558	0.652	0.475

	General Linguistic Range	1.000	0.528	0.606	0.705	0.693	0.527	0.172
	Vocabulary Range		1.000	0.456	0.463	0.405	0.340	0.054 (n.s.)
Italiano B2 (B2 Level) (n = 215)	Vocabulary Control			1.000	0.445	0.495	0.396	0.193
	Grammatical Accuracy				1.000	0.608	0.425	0.079 (n.s.)
	Cohesion and Coherence					1.000	0.551	0.109 (n.s.)
	Sociolinguistic Appropriateness						1.000	0.099 (n.s.)
	Orthographic Control							1.000

Note: All correlations are significant at $p < .05$ if not marked as non-significant (n.s.).

The Spearman's rho correlations in Table 17 suggest that both raters used the rating scales relatively consistently within one level. Particularly the moderate correlations between the General Linguistic Range scale and its six subscales show that the latter incorporates different aspects of the same construct. Other than in the Czech and German speech samples, the Orthographic Control scale in the Italiano B2 test did not correlate with some of the other scales. This finding poses a threat to the reliability and validity of Orthographic Control scale. Since the other scales show a similar correlation patterns as the Czech and the German ratings, this yields further evidence for the validity of the Italian ratings.

Table 18 highlights the correlations between the two Italian raters and their agreement. As the table illustrates, there are generally high correlations between the two raters. Correlations on the Vocabulary Control and Sociolinguistic Appropriateness scales are a slightly lower than in the other scales. The fact that correlations on the Orthographic Control scale are high points to the conclusion that the observed problems with this criterion are not due to inter-rater effects. More likely, either properties of the tests or the validity of the scale is the source of unexpected ratings.

Table 18
Inter-rater Reliability and Agreement Parameters of the Italian Sample

	<i>n</i>	<i>Spearman's rho</i>	<i>Kendall's tau-b</i>	<i>Goodman-Kruskal's gamma</i>
General Linguistic range	81	.908	.842	.985
Vocabulary Range	81	.837	.814	.990
Vocabulary Control	81	.663	.621	.912
Grammatical Accuracy	81	.722	.692	.952
Coherence and Cohesion	81	.796	.761	.986
Sociolinguistic Appropriateness	82	.615	.591	.932
Orthographic Control	81	.878	.805	.975

Note: All correlations and measures of agreement are significant ($p < .01$).

Again, as depicted in Figure 3 the MFRM analysis provides a short summary of all facets and their relationships.

Figure 3

FACETS Summary for the Italian Writing Samples

Measr	+examinee	-Rater	-Criterion	Scale
5	+	+	+	+(9)
4	+	+	+	---
3	+. **.	+	+	---
2	+. *****.	+	+	---
1	+. *****.	B	Cohesion and Coherence	Sociolinguistic Appropriateness
0	+. *****.	+	+	---
* 0	* **.	*	* Grammatical Accuracy	Vocabulary Range
-1	+. *****.	+	+	---
-2	+. *****.	A	* Vocabulary Control	General Linguistic Range
-3	+. *****.	+	+	---
-4	+. *****.	+	+	---
-5	+. *****.	+	+	---
-6	+. *****.	+	+	---
-7	+. *****.	+	+	---
-8	+. *****.	+	+	---
-9	+. *****.	+	+	---
-10	+. *****.	+	+	---
-11	+. *****.	+	+	---
-12	+. *****.	+	+	---
-13	+. *****.	+	+	---
Measr	* = 12	-Rater	-Criterion	Scale

The first column in Figure 3 represents the logit scale, ranging from -13 to +5. While the second column stands for the examinee facet, column 3 refers the rater facet. Clearly the two raters differ in severity, rater A being more lenient and rater B being more severe. The rating criteria which span a range from ca. -3 logits to ca. +2 logits are scaled in column 4, and column 5 represents the rating scale structure.

Analogous to the Czech and German results, the MRFM analysis provides comprehensive information about the individual facets, e.g logit values for the person measures, dispersion parameters, discrimination and reliability estimates, and fit statistics. These results are reported in the following sections.

Table 19
Summary Statistics for Examinee Ability and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
Mean Score	-1.16	1.01
Standard Deviation	3.28	.95
Range	21.38	
Maximum	4.14	
Minimum	-17.24	
Separation	4.89	
Strata	6.85	
Reliability of separation	.96	
Chi-square (df)	15431.0 (822)	
Significance	.00	

The descriptive statistics in Table 19 show the wide spectrum of ability for the Italian speech sample. Also, the separation ratio of 4.89 indicates that the elements of the examinee facet are spread widely. A strata value of 6.85 means that approximately seven groups (or ability levels) can be identified within the facet. The reliability of separation value of .96 suggests a very high degree of rating consistency and thus corroborates the high inter-rater reliability estimates in Table 18. Also the chi-square statistic shows that there is a significant difference between examinees' writing ability. Finally, an infit mean-square value of 1.01 indicates that the empirical data accounted for almost the same amount of variance as expected from the Rasch model. As to the model fit for individual examinees, none of the examinees had an individual infit mean-square value of 0 ($1.01 - .95 \times 2$); hence, there is no overfit in the data. As of yet, 37 examinees (i.e. a proportion of ca. 5%) exceeded the threshold level of 2.91 MNSQ ($1.01 + .95 \times 2$), indicating inconsistencies in the ratings. The analysis of the examinee facet shows that the tests discriminated well among participants of different ability. Again, a fair average for all examinees was calculated. The complete list with fair averages is in Appendix 3.

As for the rater facet, Table 20 contains detailed information about the logit measures, its discrimination and reliability, as well as of its model fit.

Table 20
Summary Statistics for Rater Severity and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
Rater 1	-1.52	.93
Rater 2	1.52	1.18
Mean	.00	1.05
Standard Deviation	2.15	.18
Range	3.04	
Maximum	1.52	
Minimum	-1.52	
Separation	48.61	
Strata	65.15	
Reliability of separation	1.0	
Chi-square (df)	2364.3 (1.0)	
Significance	.00	

The raters of the Italian speech sample showed a clearly different degree of severity. The separation value of 48.61 also points to the fact that it definitely makes a difference which judge rates a sample for the Italian speech sample. This is also reflected by the strata value of 65.15 and the reliability of separation value of 1.0. The chi-square statistics provides evidence for the validity of the model. As for the fit statistics, rater 1 slightly overfits the model, whereas rater 2 produces more random rating patterns than predicted from the model. According to the research literature, this infit value is still acceptable (cf. e.g. Bond & Fox, 2007).

The final facet that was analyzed were the rating criteria. The results of the MFRM analysis are in table 21.

Table 21
Summary Statistics for Rating Criteria and Fit

	<i>Measure Logit</i>	<i>Infit Mean Square</i>
General Linguistic Range	-.31	.30
Vocabulary Range	-.13	.68
Vocabulary Control	-.11	.72
Grammatical Accuracy	.50	1.14
Cohesion and Coherence	1.69	.99
Sociolinguistic Appropriateness	1.31	1.44
Orthographic Control	-2.94	1.10
Mean	.00	.95
Standard Deviation	1.50	32
Range	4.62	
Maximum	1.68	
Minimum	-2.94	
Separation	30.29	
Strata	40.72	
Reliability of separation	1.0	
Chi-square (df)	5844.4 (6)	
Significance	.00	

Table 21 suggests that the rating criteria used to rate the Italian speech sample differ in difficulty. The most difficult rating criterion was the Cohesion and Coherence scale with a logit value of 1.68. The Grammatical Accuracy scale is more difficult than the General Linguistic Range and the Sociolinguistic Appropriateness scale in the middle range or the Vocabulary Range and the Vocabulary Control scales. The Orthographic Control scale was by far the easiest one. The separation and reliability of separation statistics show that the rating scales generally function well. As was also the case with the Czech and the German data, the General Linguistic Range scale considerably overfits the model. Even worse, the infit values of the Sociolinguistic Appropriateness scale indicate severe problems of this criterion. The chi-square statistics allows for the conclusion yet that the rating criteria generally discriminate well between examinees.

4 Conclusion

In the present study, the quality of a large number of Czech, German and Italian ratings was analyzed according to the distribution of ratings, correlations between rating criteria, and measures of correspondence and agreement between raters. MFRM was used to gain further insights into the examinee facet, the rater facet, and the rating criteria facet. In the case of the all three speech samples the ratings reliably reflect the intended levels. An issue of concern is the Rasch model overfit in the case of the General Linguistic scale and the poor model fit in the case of the Orthographic Control and Sociolinguistic Appropriateness scales. Apart from these two scales, scale functionality can be considered good.

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Appendix 1: Fair Average Czech Examinees

Total Score	Total Count	Obsvd Average	Fair-M Average	Measure	Model S.E.	Infit Mnsq	ZStd	Outfit MnSq	ZStd	Estim. Discrm	Correlation PtMea	PtExp	Num	examinee
8	6	1.33	1.30	-7.72	.88	.85	-.4	.80	-.4	1.56	.58	.20	53	PHA1109010
12	7	1.71	1.73	-5.92	.83	.81	-.2	.77	-.2	1.28	.49	.27	9999	9999
35	20	1.75	1.75	-5.81	.50	3.75	4.6	4.16	4.6	-.89	.33	.23	35	PHA0411010
34	19	1.79	1.77	-5.70	.53	.96	.0	.95	.0	1.01	-.03	.22	4	KYJ0611006
25	14	1.79	1.79	-5.58	.61	.58	-.7	.50	-.8	1.39	.81	.24	929	929
24	13	1.85	1.84	-5.30	.66	.51	-.6	.44	-.7	1.31	.74	.21	44	PHA0510004
13	7	1.86	1.86	-5.18	.89	.47	-.3	.41	-.3	1.31	.69	.24	66	PHA1111009
13	7	1.86	1.86	-5.18	.89	.47	-.3	.41	-.3	1.31	.69	.24	608	608
25	13	1.92	1.91	-4.89	.64	.40	-.5	.45	-.4	1.22	.00	.19	3	KYJ0611005
37	19	1.95	1.93	-4.79	.51	3.35	2.2	3.85	2.5	.22	.13	.18	45	PHA0510010
12	6	2.00	1.97	-4.58	.84	.03	-1.1	.03	-1.1	1.40	.00	.19	38	PHA0509002
12	6	2.00	1.97	-4.58	.84	.03	-1.1	.03	-1.1	1.40	.00	.19	40	PHA0509013
12	6	2.00	1.97	-4.58	.84	.03	-1.1	.03	-1.1	1.40	.00	.19	52	PHA1109008
26	13	2.00	1.98	-4.52	.56	1.71	.9	1.55	.8	.80	.40	.20	47	PHA0610005
27	13	2.08	2.04	-4.25	.49	1.07	.3	.86	.0	1.01	.26	.21	12	LON0611004
28	13	2.15	2.10	-4.03	.43	.79	-.1	.93	.1	1.22	-.03	.23	63	PHA1111004
44	20	2.20	2.14	-3.93	.33	1.09	.3	1.11	.3	.99	.62	.25	6	LIB0611001
44	20	2.20	2.14	-3.93	.33	1.29	.7	2.04	1.6	.85	.30	.25	7	LIB0611002
29	13	2.23	2.16	-3.86	.39	1.34	.7	1.72	1.1	.88	.18	.26	48	PHA0610006
29	13	2.23	2.16	-3.86	.39	1.06	.2	.81	.0	.98	.40	.26	58	PHA1110003
29	13	2.23	2.16	-3.86	.39	1.05	.2	1.06	.3	1.03	.52	.26	64	PHA1111006
46	20	2.30	2.22	-3.74	.30	.80	-.4	.67	-.5	1.27	.30	.28	21	PHA0112003
44	19	2.32	2.22	-3.73	.30	.92	.0	1.01	.1	.88	.43	.27	42	PHA0510003
30	13	2.31	2.22	-3.72	.37	.70	-.6	.49	-.8	1.33	.44	.28	15	PHA0111001
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	28	PHA0209013
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	29	PHA0210001
14	6	2.33	2.23	-3.72	.53	1.10	.3	1.26	.5	1.11	-.14	.28	32	PHA0210008
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	39	PHA0509007
14	6	2.33	2.23	-3.72	.53	1.07	.3	1.15	.4	1.13	-.08	.28	55	PHA1109025
14	6	2.33	2.23	-3.72	.53	.72	-.2	.53	-.4	1.32	.46	.28	67	ST071122B0
16	7	2.29	2.23	-3.72	.51	.68	-.3	.46	-.5	1.33	.44	.32	1	KYJ0611003
16	7	2.29	2.23	-3.72	.51	.68	-.3	.46	-.5	1.33	.44	.32	2	KYJ0611004
16	7	2.29	2.23	-3.72	.51	.82	.0	.61	-.2	1.27	.30	.32	8	LIB0611003
30	13	2.31	2.23	-3.71	.37	1.00	.1	1.66	1.1	1.11	-.09	.28	61	PHA1111002
33	14	2.36	2.28	-3.61	.34	.57	-1.2	.40	-1.1	1.09	.53	.32	632	632
31	13	2.38	2.29	-3.60	.34	.90	-1.1	1.47	.9	.82	-.01	.30	17	PHA0111003
48	20	2.40	2.31	-3.56	.28	.97	.0	1.04	.2	.85	.40	.31	23	PHA0112007
48	20	2.40	2.32	-3.55	.28	.98	.0	.81	-.2	.83	.36	.32	5	KYJ0611009
34	14	2.43	2.35	-3.50	.33	.54	-1.5	.41	-1.2	.78	.54	.34	641	641
49	20	2.45	2.36	-3.49	.27	2.00	2.9	1.45	1.0	.44	.39	.32	36	PHA0411011
32	13	2.46	2.36	-3.48	.33	1.54	1.4	1.14	.4	.86	.41	.32	18	PHA0111004
32	13	2.46	2.37	-3.47	.33	.73	-.7	.57	-.8	1.36	.51	.32	37	PHA0411012
50	20	2.50	2.40	-3.43	.26	1.24	.9	.94	.0	1.04	.45	.33	9	LIB0611004
35	14	2.50	2.42	-3.40	.31	.74	-.8	.83	-.2	.46	.65	.36	630	630
35	14	2.50	2.42	-3.40	.31	.72	-.9	.59	-.8	1.03	.47	.36	922	922
33	13	2.54	2.44	-3.37	.32	1.95	2.5	2.10	1.9	.34	.35	.34	49	PHA0610007
51	20	2.55	2.44	-3.36	.26	1.12	.5	1.24	.7	.92	.26	.34	11	LON0611002
51	20	2.55	2.45	-3.35	.26	1.05	.2	1.65	1.5	.84	.00	.35	34	PHA0411009
36	14	2.57	2.49	-3.30	.31	.50	-2.1	.40	-1.5	.80	.66	.38	639	639
36	14	2.57	2.49	-3.30	.31	.83	-.5	.71	-.5	.61	.33	.38	1003	1003
18	7	2.57	2.51	-3.28	.43	.95	.0	.81	-.1	1.25	.36	.41	59	PHA1110004
18	7	2.57	2.51	-3.28	.43	.77	-.5	1.01	.2	.20	.85	.41	617	617
18	7	2.57	2.51	-3.28	.43	.71	-.6	.56	-.6	1.40	.58	.41	622	622
18	7	2.57	2.51	-3.28	.43	1.27	.7	2.32	1.7	.89	-.19	.41	910	910
16	6	2.67	2.52	-3.27	.44	.99	.1	.94	.0	1.22	.25	.36	27	PHA0209008
16	6	2.67	2.52	-3.27	.44	.99	.1	.94	.0	1.22	.25	.36	30	PHA0210004
37	14	2.64	2.57	-3.21	.30	1.14	.5	1.25	.6	.73	.08	.40	820	820
35	13	2.69	2.59	-3.18	.30	.87	-.4	1.07	.2	.85	.29	.37	46	PHA0510013
38	14	2.71	2.64	-3.12	.29	.74	-1.0	.85	-.2	.62	.42	.41	822	822
55	20	2.75	2.66	-3.11	.24	1.40	1.7	1.51	1.5	.57	.24	.39	62	PHA1111003
19	7	2.71	2.66	-3.10	.42	.82	-.4	1.01	.1	.84	.88	.45	613	613
19	7	2.71	2.66	-3.10	.42	.66	-.9	.57	-.7	.70	.55	.45	904	904
19	7	2.71	2.66	-3.10	.42	.66	-.9	.57	-.7	.70	.55	.45	924	924
19	7	2.71	2.66	-3.10	.42	.46	-1.7	.40	-1.2	.83	.74	.45	1107	1107
36	13	2.77	2.67	-3.09	.30	.91	-.2	.98	.0	.59	.60	.39	33	PHA0411008
36	13	2.77	2.67	-3.09	.30	.94	-1.1	.84	-.3	1.27	.39	.39	60	PHA1111001
17	6	2.83	2.68	-3.08	.43	.74	-.7	.70	-.6	.49	.42	.39	31	PHA0210007
17	6	2.83	2.68	-3.08	.43	.74	-.7	.70	-.6	.49	.42	.39	68	TIO71122B0
17	6	2.83	2.68	-3.08	.43	1.09	.3	1.02	.1	.23	-.03	.39	112	MOS0611014
17	6	2.83	2.68	-3.08	.43	.83	-.4	.77	-.4	.43	.31	.39	123	PHA0111014
37	13	2.85	2.75	-3.01	.29	.95	-1.1	1.05	.2	.81	.26	.40	10	LON0610002
20	7	2.86	2.83	-2.93	.41	.77	-.5	.68	-.5	1.37	.59	.47	814	814
20	7	2.86	2.83	-2.93	.41	.74	-.6	.65	-.6	1.39	.62	.47	818	818
20	7	2.86	2.83	-2.93	.41	.77	-.5	.68	-.5	1.37	.59	.47	916	916
20	7	2.86	2.83	-2.93	.41	.85	-.3	.75	-.4	1.32	.52	.47	1012	1012
20	7	2.86	2.83	-2.93	.41	.77	-.5	.68	-.5	1.37	.59	.47	1106	1106
38	13	2.92	2.84	-2.91	.29	1.01	.1	1.05	.2	1.19	.31	.42	65	PHA1111008
59	20	2.95	2.88	-2.88	.24	.97	.0	.94	-.1	.96	.34	.42	25	PHA0112012
39	13	3.00	2.92	-2.84	.29	1.42	1.4	1.44	1.3	.39	.41	.42	19	PHA0111005
39	13	3.00	2.93	-2.83	.29	.90	-.3	.92	-.1	.87	.36	.43	56	PHA1110001
40	13	3.08	3.01	-2.75	.29	1.29	1.0	1.43	1.3	.96	.00	.43	14	PAR1011009
59	19	3.11	3.01	-2.75	.24	1.23	.9	1.32	1.2	.30	.14	.41	41	PHA0510002
19	6	3.17	3.05	-2.72	.43	.57	-1.0	.54	-1.1	.65	.64	.43	26	PHA0209001
19	6	3.17	3.05	-2.72	.43	.57	-1.0	.54	-1.1	.65	.64	.43	51	PHA1109001
19	6	3.17	3.05	-2.72	.43	.78	-.4	.75	-.4	.50	.35	.43	54	PHA1109023
19	6	3.17	3.05	-2.72	.43	.89	-.1	.90	.0	.42	.19	.43	254	PHA0909032
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	601	601
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	609	609
22	7	3.14	3.17	-2.60	.41	1.06	.2	1.12	.3	1.13	.30	.51	612	612
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	615	615
22	7	3.14	3.17	-2.60	.41	1.06	.2	1.12	.3	1.13	.30	.51	616	616
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	620	620
22	7	3.14	3.17	-2.60	.41	1.13	.4	1.09	.3	1.10	.27	.51	625	625
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	644	644
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	717	717
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	718	718
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	725	725

22	7	3.14	3.17	-2.60	.41	.72	-.5	.69	-.5	1.35	.63	.51	801	801
22	7	3.14	3.17	-2.60	.41	1.17	.5	1.13	.4	1.08	.23	.51	802	802
22	7	3.14	3.17	-2.60	.41	1.17	.5	1.13	.4	1.08	.23	.51	803	803
22	7	3.14	3.17	-2.60	.41	1.06	.2	1.12	.3	1.13	.30	.51	804	804
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	808	808
22	7	3.14	3.17	-2.60	.41	1.13	.4	1.09	.3	1.10	.27	.51	812	812
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	817	817
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	825	825
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	829	829
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	903	903
22	7	3.14	3.17	-2.60	.41	1.06	.2	1.12	.3	1.13	.30	.51	917	917
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	918	918
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1001	1001
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1004	1004
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1005	1005
22	7	3.14	3.17	-2.60	.41	1.22	.6	1.23	.6	1.04	.17	.51	1008	1008
22	7	3.14	3.17	-2.60	.41	.72	-.5	.69	-.5	1.35	.63	.51	1010	1010
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	1011	1011
22	7	3.14	3.17	-2.60	.41	1.06	.2	1.12	.3	1.13	.30	.51	1013	1013
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1015	1015
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	1016	1016
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	1017	1017
22	7	3.14	3.17	-2.60	.41	.53	-1.1	.49	-1.1	1.46	.80	.51	1018	1018
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1102	1102
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1109	1109
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1110	1110
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1111	1111
22	7	3.14	3.17	-2.60	.41	.50	-1.2	.46	-1.3	1.49	.84	.51	1112	1112
22	7	3.14	3.17	-2.60	.41	.94	.0	.89	.0	1.22	.44	.51	1117	1117
42	13	3.23	3.20	-2.57	.30	1.37	1.1	1.42	1.1	.33	.12	.45	50	PHA0610019
20	6	3.33	3.24	-2.53	.44	.89	.0	.97	.1	1.21	.32	.43	106	LIB0611011
22	7	3.14	3.27	-2.49	.41	1.15	.4	1.21	.5	1.07	.27	.55	13	PAR1011008
46	14	3.29	3.31	-2.45	.29	1.11	.4	1.10	.3	1.10	.24	.48	911	911
46	14	3.29	3.31	-2.45	.29	.64	-1.0	.58	-1.2	1.37	.69	.48	914	914
46	14	3.29	3.31	-2.45	.29	.78	-.5	.75	-.6	1.29	.55	.48	930	930
66	20	3.30	3.32	-2.44	.25	1.40	1.3	1.42	1.2	.91	.36	.47	20	PHA0112002
23	7	3.29	3.33	-2.43	.41	1.09	.3	1.04	.2	.66	.62	.51	623	623
42	12	3.50	3.41	-2.35	.32	1.51	1.2	1.70	1.4	.80	.33	.39	143	PHA0411034
42	12	3.50	3.41	-2.35	.32	1.01	.1	1.10	.3	1.12	.05	.39	182	PHA0509033
48	14	3.43	3.47	-2.28	.30	.31	-2.3	.27	-2.3	1.50	.93	.47	1113	1113
48	14	3.43	3.47	-2.28	.30	.31	-2.3	.27	-2.3	1.50	.93	.47	1116	1116
24	7	3.43	3.49	-2.26	.42	.75	-.3	.67	-.4	1.28	.53	.51	602	602
24	7	3.43	3.49	-2.26	.42	.75	-.3	.67	-.4	1.28	.53	.51	610	610
24	7	3.43	3.49	-2.26	.42	.92	.0	.82	-.1	1.21	.38	.51	618	618
24	7	3.43	3.49	-2.26	.42	.95	.0	.86	.0	1.19	.34	.51	635	635
24	7	3.43	3.49	-2.26	.42	.79	-.2	.71	-.3	1.26	.49	.51	638	638
24	7	3.43	3.49	-2.26	.42	.92	.0	.82	-.1	1.21	.38	.51	642	642
24	7	3.43	3.49	-2.26	.42	.92	.0	.82	-.1	1.21	.38	.51	720	720
24	7	3.43	3.49	-2.26	.42	1.59	1.1	1.57	1.0	.86	-.28	.51	723	723
24	7	3.43	3.49	-2.26	.42	.95	.0	.86	.0	1.19	.34	.51	806	806
24	7	3.43	3.49	-2.26	.42	.75	-.3	.67	-.4	1.28	.53	.51	810	810
24	7	3.43	3.49	-2.26	.42	.92	.0	.82	-.1	1.21	.38	.51	813	813
24	7	3.43	3.49	-2.26	.42	.75	-.3	.67	-.4	1.28	.53	.51	824	824
24	7	3.43	3.49	-2.26	.42	.95	.0	.86	.0	1.19	.34	.51	826	826
24	7	3.43	3.49	-2.26	.42	.95	.0	.86	.0	1.19	.34	.51	827	827
24	7	3.43	3.49	-2.26	.42	.79	-.2	.71	-.3	1.26	.49	.51	908	908
24	7	3.43	3.49	-2.26	.42	.95	.0	.86	.0	1.19	.34	.51	919	919
24	7	3.43	3.49	-2.26	.42	.92	.0	.82	-.1	1.21	.38	.51	921	921
24	7	3.43	3.49	-2.26	.42	.31	-1.6	.27	-1.5	1.50	.93	.51	1019	1019
24	7	3.43	3.49	-2.26	.42	.31	-1.6	.27	-1.5	1.50	.93	.51	1021	1021
24	7	3.43	3.49	-2.26	.42	.31	-1.6	.27	-1.5	1.50	.93	.51	1023	1023
24	7	3.43	3.49	-2.26	.42	.31	-1.6	.27	-1.5	1.50	.93	.51	1101	1101
24	7	3.43	3.49	-2.26	.42	.31	-1.6	.27	-1.5	1.50	.93	.51	1103	1103
24	7	3.43	3.49	-2.26	.42	.31	-1.6	.27	-1.5	1.50	.93	.51	1105	1105
24	7	3.43	3.49	-2.26	.42	.31	-1.6	.27	-1.5	1.50	.93	.51	1115	1115
71	20	3.55	3.60	-2.13	.25	2.94	3.9	2.80	3.2	-.39	.05	.45	16	PHA0111002
22	6	3.67	3.61	-2.11	.47	.30	-1.2	.23	-1.2	1.43	.87	.41	108	MOS0509001
22	6	3.67	3.61	-2.11	.47	.30	-1.2	.23	-1.2	1.43	.87	.41	204	PHA0510037
22	6	3.67	3.61	-2.11	.47	.30	-1.2	.23	-1.2	1.43	.87	.41	256	PHA1109003
47	13	3.62	3.63	-2.09	.32	.67	-.6	.62	-.6	1.00	.32	.43	57	PHA1110002
52	14	3.71	3.77	-1.91	.31	.95	.0	.95	.0	1.15	-.06	.44	923	923
52	14	3.71	3.77	-1.91	.31	1.80	1.6	1.87	1.5	.77	.51	.44	928	928
75	20	3.75	3.77	-1.90	.26	.78	-.4	.76	-.4	1.04	-.06	.41	24	PHA0112009
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	604	604
26	7	3.71	3.78	-1.88	.44	.51	-.7	.38	-.9	1.36	.50	.47	606	606
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	611	611
26	7	3.71	3.78	-1.88	.44	.51	-.7	.38	-.9	1.36	.50	.47	614	614
26	7	3.71	3.78	-1.88	.44	.92	.0	.89	.0	1.17	-.01	.47	619	619
26	7	3.71	3.78	-1.88	.44	.92	.0	.89	.0	1.17	-.01	.47	621	621
26	7	3.71	3.78	-1.88	.44	.95	.1	.95	.1	1.15	-.06	.47	628	628
26	7	3.71	3.78	-1.88	.44	.95	.1	.95	.1	1.15	-.06	.47	629	629
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	643	643
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	719	719
26	7	3.71	3.78	-1.88	.44	.95	.1	.95	.1	1.15	-.06	.47	805	805
26	7	3.71	3.78	-1.88	.44	.92	.0	.89	.0	1.17	-.01	.47	821	821
26	7	3.71	3.78	-1.88	.44	1.62	1.0	1.74	1.0	.84	.62	.47	823	823
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	828	828
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	905	905
26	7	3.71	3.78	-1.88	.44	.95	.1	.95	.1	1.15	-.06	.47	925	925
26	7	3.71	3.78	-1.88	.44	1.83	1.2	1.93	1.2	.75	.48	.47	927	927
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	1002	1002
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	1006	1006
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	1007	1007
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	1020	1020
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	1022	1022
26	7	3.71	3.78	-1.88	.44	.32	-1.2	.24	-1.3	1.43	.69	.47	1104	1104
23	6	3.83	3.78	-1.88	.49	.62	-.3	.54	-.3	.75	.87	.38	209	PHA0510047
23	6	3.83	3.78	-1.88	.49	2.83	1.8	2.94	1.8	-.21	.26	.38	268	PHA1110016
47	12	3.92	3.85	-1.78	.35	1.02	.2	.95	.1	.86	.80	.34	187	PHA0509038
54	14	3.86	3.89	-1.71	.31	1.23	.6	1.34	.7	1.01	.15	.41	912	912
27	7	3.86	3.91	-1.69	.44	.51	-.7	.43	-.7	.87	.74	.44	809	809
48	12	4.00	3.92	-1.66	.35	4.59								

24	6	4.00	3.94	-1.64	.50	1.59	.8	1.59	.8	.88	.51	.36	253	PHA0811020
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	603	603
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	605	605
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	631	631
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	637	637
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	640	640
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	714	714
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	715	715
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	716	716
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	722	722
28	7	4.00	4.03	-1.49	.44	1.49	.8	1.62	.9	.89	.25	.42	902	902
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	907	907
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	1009	1009
28	7	4.00	4.03	-1.49	.44	.97	.1	.86	.0	1.16	.75	.42	1014	1014
28	7	4.00	4.03	-1.49	.44	.16	-1.8	.14	-1.8	1.48	.00	.42	1108	1108
50	12	4.17	4.07	-1.42	.34	1.83	1.4	1.85	1.4	.79	.63	.31	194	PHA0509045
25	6	4.17	4.08	-1.39	.48	1.65	.9	1.74	1.0	.31	.60	.35	177	PHA0509027
25	6	4.17	4.08	-1.39	.48	1.69	1.0	1.79	1.0	.29	.56	.35	260	PHA1109007
58	14	4.14	4.13	-1.32	.31	.36	-1.7	.33	-1.8	1.42	.29	.38	920	920
51	12	4.25	4.14	-1.30	.33	1.78	1.4	1.85	1.5	.50	.67	.31	141	PHA0411032
29	7	4.14	4.14	-1.30	.44	.19	-1.7	.18	-1.7	1.01	.37	.41	627	627
29	7	4.14	4.14	-1.30	.44	.19	-1.7	.18	-1.7	1.01	.37	.41	913	913
52	12	4.33	4.21	-1.19	.33	2.39	2.4	2.38	2.2	.40	.19	.32	152	PHA0411043
52	12	4.33	4.21	-1.19	.33	1.26	.6	1.29	.7	1.02	.55	.32	180	PHA0509031
26	6	4.33	4.23	-1.17	.46	1.93	1.3	2.11	1.4	.67	.65	.35	172	PHA0509021
26	6	4.33	4.23	-1.17	.46	2.02	1.4	2.19	1.5	.63	.58	.35	196	PHA0510027
60	14	4.29	4.25	-1.13	.30	1.15	.4	1.20	.5	1.07	.41	.39	1114	1114
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	624	624
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	626	626
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	633	633
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	636	636
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	645	645
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	721	721
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	807	807
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	811	811
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	815	815
30	7	4.29	4.27	-1.11	.43	.48	-.9	.41	-1.0	1.41	.44	.42	906	906
53	12	4.42	4.28	-1.09	.32	1.33	.8	1.44	1.0	.64	.43	.32	183	PHA0509034
27	6	4.50	4.37	-.97	.44	3.72	3.3	3.84	3.1	-1.37	.26	.36	127	PHA0209024
27	6	4.50	4.37	-.97	.44	.56	-.8	.51	-.8	.75	.43	.36	135	PHA0411027
27	6	4.50	4.37	-.97	.44	.76	-.3	.76	-.2	.62	.10	.36	147	PHA0411037
27	6	4.50	4.37	-.97	.44	.76	-.3	.76	-.2	.62	.10	.36	208	PHA0510046
27	6	4.50	4.37	-.97	.44	.80	-.2	.82	-.1	.59	.04	.36	233	PHA0809010
27	6	4.50	4.37	-.97	.44	1.78	1.4	2.06	1.5	-.04	.67	.36	235	PHA0810002
27	6	4.50	4.37	-.97	.44	1.81	1.4	2.12	1.6	-.07	.63	.36	258	PHA1109005
27	6	4.50	4.37	-.97	.44	.43	-1.2	.38	-1.2	.82	.63	.36	259	PHA1109006
27	6	4.50	4.37	-.97	.44	1.78	1.4	2.06	1.5	-.04	.67	.36	277	VAR0909005
31	7	4.43	4.40	-.93	.42	.38	-1.4	.33	-1.4	.95	.61	.43	926	926
64	14	4.57	4.52	-.79	.29	.70	-.9	.65	-.9	.75	.37	.42	915	915
28	6	4.67	4.53	-.77	.43	1.88	1.7	2.19	1.9	.47	.71	.38	248	PHA0811014
28	6	4.67	4.53	-.77	.43	1.88	1.7	2.19	1.9	.47	.71	.38	269	PHA1110017
29	6	4.83	4.65	-.64	.43	1.06	.2	1.01	.1	.30	-.03	.40	138	PHA0411029
33	7	4.71	4.69	-.60	.40	.66	-.8	.60	-.7	.77	.51	.47	607	607
33	7	4.71	4.69	-.60	.40	.43	-1.6	.39	-1.4	.92	.74	.47	901	901
29	6	4.83	4.70	-.59	.43	.48	-1.6	.45	-1.4	.76	.76	.40	102	BER0611003
29	6	4.83	4.70	-.59	.43	.69	-.8	.65	-.7	.59	.47	.40	116	PAR1011015
29	6	4.83	4.70	-.59	.43	.81	-.4	.77	-.4	.50	.31	.40	142	PHA0411033
29	6	4.83	4.70	-.59	.43	.81	-.4	.77	-.4	.50	.31	.40	193	PHA0509044
29	6	4.83	4.70	-.59	.43	.81	-.4	.77	-.4	.50	.31	.40	232	PHA0809009
30	6	5.00	4.87	-.41	.43	2.75	3.3	2.83	3.2	-.43	-.03	.42	105	BER0611007
30	6	5.00	4.87	-.41	.43	.96	.0	.94	.0	1.26	.36	.42	115	PAR1011014
30	6	5.00	4.87	-.41	.43	.92	-.1	.90	-.1	1.29	.41	.42	132	PHA0209034
30	6	5.00	4.87	-.41	.43	.92	-.1	.90	-.1	1.29	.41	.42	189	PHA0509040
30	6	5.00	4.87	-.41	.43	1.97	2.1	2.19	2.3	.23	.62	.42	210	PHA0510048
30	6	5.00	4.87	-.41	.43	1.97	2.1	2.19	2.3	.23	.62	.42	237	PHA0810004
30	6	5.00	4.87	-.41	.43	.92	-.1	.90	-.1	1.29	.41	.42	238	PHA0810006
30	6	5.00	4.87	-.41	.43	.92	-.1	.90	-.1	1.29	.41	.42	242	PHA0810011
30	6	5.00	4.87	-.41	.43	.92	-.1	.90	-.1	1.29	.41	.42	245	PHA0811010
30	6	5.00	4.87	-.41	.43	1.97	2.1	2.19	2.3	.23	.62	.42	249	PHA0811016
30	6	5.00	4.87	-.41	.43	1.97	2.1	2.19	2.3	.23	.62	.42	282	VAR0909010
30	6	5.00	4.87	-.41	.43	.92	-.1	.90	-.1	1.29	.41	.42	286	VAR0910007
35	7	5.00	5.01	-.27	.41	1.28	.7	1.35	.8	.30	-.04	.50	634	634
35	7	5.00	5.01	-.27	.41	.54	-1.2	.50	-1.2	.83	.72	.50	724	724
35	7	5.00	5.01	-.27	.41	1.28	.7	1.35	.8	.30	-.04	.50	816	816
62	12	5.17	5.04	-.25	.31	1.09	.4	1.15	.5	1.12	.20	.39	149	PHA0411039
31	6	5.17	5.06	-.22	.44	.61	-1.0	.57	-1.0	.64	.64	.43	103	BER0611005
31	6	5.17	5.06	-.22	.44	.61	-1.0	.57	-1.0	.64	.64	.43	104	BER0611006
31	6	5.17	5.06	-.22	.44	1.32	.8	1.31	.8	.10	-.31	.43	274	VAR0209036
105	20	5.25	5.25	-.03	.25	1.41	1.4	1.36	1.2	.24	-.17	.45	22	PHA0112006
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	101	BER0609003
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	110	MOS0611012
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	111	MOS0611013
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	113	MOS0611015
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	114	PAR1011013
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	121	PHA0111011
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	130	PHA0209028
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	134	PHA0209039
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	137	PHA0411029
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	154	PHA0411045
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	155	PHA0411047
32	6	5.33	5.26	-.02	.46	.67	-.6	.61	-.7	1.41	.75	.43	164	PHA0411060
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	166	PHA0411062
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	168	PHA0509017
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	170	PHA0509019
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	174	PHA0509024
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	181	PHA0509032
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	184	PHA0509035
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	198	PHA0510030
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	199	PHA0510031
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	206	PHA0510039
32	6	5.33	5.26											

32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	239	PHA0810008
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	241	PHA0810010
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	243	PHA0810012
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	264	PHA1109028
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	265	PHA1110013
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	266	PHA1110014
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	271	PHA1110019
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	272	PHA1110021
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	275	VAR0909003
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	276	VAR0909004
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	279	VAR0909007
32	6	5.33	5.26	-.02	.46	.96	.0	1.12	.3	1.18	.32	.43	280	VAR0909008
32	6	5.33	5.26	-.02	.46	3.52	3.4	4.36	3.8	-.63	-.46	.43	284	VAR0910005
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	285	VAR0910006
32	6	5.33	5.26	-.02	.46	1.48	1.0	1.56	1.1	.86	-.25	.43	289	VAR0910011
32	6	5.33	5.26	-.02	.46	.62	-.7	.56	-.8	1.44	.80	.43	2012	PHA0510050
66	12	5.50	5.44	.18	.35	.76	-.5	.91	.0	1.26	.54	.38	190	PHA0509041
67	12	5.58	5.54	.31	.37	1.49	1.0	2.00	1.5	.49	.06	.37	192	PHA0509043
68	12	5.67	5.63	.46	.39	1.16	.4	1.02	.2	1.09	.08	.35	186	PHA0509037
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	107	LON0611003
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	117	PAR1011016
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	129	PHA0209026
34	6	5.67	5.65	.48	.55	1.16	.4	1.02	.3	1.09	.08	.38	145	PHA0411035
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	146	PHA0411036
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	150	PHA0411041
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	163	PHA0411059
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	165	PHA0411061
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	167	PHA0509015
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	178	PHA0509028
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	179	PHA0509030
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	185	PHA0509036
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	197	PHA0510029
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	200	PHA0510032
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	202	PHA0510035
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	214	PHA0610016
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	216	PHA0610018
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	217	PHA0610025
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	218	PHA0610026
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	219	PHA0709008
34	6	5.67	5.65	.48	.55	.49	-.6	.31	-.7	1.35	.87	.38	226	PHA0710015
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	228	PHA0710017
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	234	PHA0810001
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	240	PHA0810009
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	257	PHA1109004
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	262	PHA1109026
34	6	5.67	5.65	.48	.55	1.11	.3	.93	.2	1.11	.14	.38	278	VAR0909006
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	281	VAR0909009
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	283	VAR0910004
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	287	VAR0910009
34	6	5.67	5.65	.48	.55	1.41	.7	2.00	1.1	.91	-.46	.38	288	VAR0910010
39	7	5.57	5.66	.50	.49	1.34	.7	1.35	.6	.41	-.24	.47	819	819
72	12	6.00	5.97	1.30	.52	.04	-1.8	.04	-1.8	1.32	.00	.23	140	PHA0411031
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	118	PAR1011017
36	6	6.00	5.98	1.33	.73	4.58	1.9	4.99	2.0	.08	-.35	.25	119	PAR1011018
36	6	6.00	5.98	1.33	.73	4.34	1.9	5.21	2.0	.21	-.04	.25	120	PHA0111010
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	148	PHA0411038
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	158	PHA0411054
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	162	PHA0411058
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	191	PHA0509042
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	201	PHA0510034
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	205	PHA0510038
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	215	PHA0610017
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	222	PHA0710011
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	223	PHA0710012
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	225	PHA0710014
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	227	PHA0710016
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	229	PHA0710018
36	6	6.00	5.98	1.33	.73	4.61	1.9	4.99	2.0	.06	-.39	.25	230	PHA0710019
72	12	6.00	5.98	1.33	.52	6.14	3.0	6.45	3.0	-.18	.27	.22	231	PHA0710021
36	6	6.00	5.98	1.33	.73	4.00	1.8	4.37	1.8	.39	.39	.25	244	PHA0810015
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	255	PHA1109002
36	6	6.00	5.98	1.33	.73	4.61	1.9	4.99	2.0	.06	-.39	.25	263	PHA1109027
36	6	6.00	5.98	1.33	.73	.04	-1.0	.04	-1.0	1.32	.00	.25	267	PHA1110015
74	12	6.17	6.10	1.79	.45	.98	.2	1.36	.6	1.04	-.57	.22	159	PHA0411055
74	12	6.17	6.10	1.79	.45	2.66	1.8	2.72	1.7	.24	.28	.22	188	PHA0509039
37	6	6.17	6.11	1.81	.64	.30	-.6	.24	-.6	.85	.36	.24	169	PHA0509018
37	6	6.17	6.11	1.81	.64	.30	-.6	.24	-.6	.85	.36	.24	171	PHA0509020
37	6	6.17	6.11	1.81	.64	.30	-.6	.24	-.6	.85	.36	.24	203	PHA0510036
76	12	6.33	6.23	2.14	.38	1.15	.4	1.34	.6	1.07	-.14	.25	160	PHA0411056
38	6	6.33	6.24	2.16	.54	1.15	.4	1.34	.6	1.07	-.14	.27	125	PHA0111016
38	6	6.33	6.24	2.16	.54	.77	-.1	.58	-.2	1.27	.46	.27	139	PHA0411030
38	6	6.33	6.24	2.16	.54	1.12	.4	1.23	.5	1.09	-.08	.27	156	PHA0411051
38	6	6.33	6.24	2.16	.54	1.12	.4	1.23	.5	1.09	-.08	.27	157	PHA0411053
38	6	6.33	6.24	2.16	.54	1.15	.4	1.34	.6	1.07	-.14	.27	176	PHA0509026
38	6	6.33	6.24	2.16	.54	1.15	.4	1.34	.6	1.07	-.14	.27	195	PHA0510023
38	6	6.33	6.24	2.16	.54	1.12	.4	1.23	.5	1.09	-.08	.27	247	PHA0811013
39	6	6.50	6.38	2.42	.48	.68	-.5	.58	-.4	.77	.43	.31	250	PHA0811017
39	6	6.50	6.38	2.42	.48	.89	.0	.89	.0	.64	.10	.31	252	PHA0811019
39	6	6.50	6.38	2.42	.48	.68	-.5	.58	-.4	.77	.43	.31	273	PHA1110022
40	6	6.67	6.53	2.64	.45	1.03	.2	.98	.1	1.23	.25	.35	175	PHA0509025
41	6	6.83	6.69	2.83	.44	.90	-.2	.85	-.2	.60	.25	.38	124	PHA0111015
41	6	6.83	6.69	2.83	.44	.77	-.6	.73	-.5	.69	.42	.38	246	PHA0811012
41	6	6.83	6.69	2.83	.44	1.48	1.3	1.90	1.7	.04	-.69	.38	261	PHA1109024
86	12	7.17	7.03	3.19	.31	4.01	6.9	4.06	6.5	-1.87	-.34	.38	131	PHA0209031
43	6	7.17	7.05	3.21	.44	1.61	1.5	1.70	1.6	.05	-.76	.42	133	PHA0209038
43	6	7.17	7.05	3.21	.44	.56	-1.3	.53	-1.3	.88	.69	.42	153	PHA0411044
44	6	7.33	7.24	3.40	.45	1.68	1.4	1.80	1.5	.80	-.58	.43	173	PHA0509022
44	6	7.33	7.24	3.40	.45	1.68	1.4	1.80	1.5	.80	-.58	.43	224	PHA0710013
46	6	7.67	7.63	3.86	.52	1.04	.2	.89	.1	1.24	.08	.40		

Appendix 2: Fair Average German Examinees

Total Score	Total Count	Obsvd Average	Fair-M Avrage	Measure	Model S.E.	Infit MnSq ZStd	Outfit MnSq ZStd	Estim. Discrm	Correlation PtMea PtExp	Num examinee
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	48 1071_0024774
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	49 1071_0024775
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	55 1071_0024782
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	103 1071_0024849
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	143 1071_0242071
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	144 1071_0242072
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	147 1071_0242092
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	148 1071_0242093
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	163 1071_0248305
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	172 1071_0248315
7	7	1.00	1.03	(-12.70	1.89)	Minimum			.00 .00	181 1071_0248324
5	5	1.00	1.03	(-12.54	1.91)	Minimum			.00 .00	175 1071_0248318
5	5	1.00	1.03	(-12.54	1.91)	Minimum			.00 .00	177 1071_0248320
3	3	1.00	1.05	(-12.16	1.96)	Minimum			.00 .00	56 1071_0024783
6	6	1.00	1.05	(-12.15	1.87)	Minimum			.00 .00	258 1091_0000052
6	6	1.00	1.05	(-12.15	1.87)	Minimum			.00 .00	392 1091_0000253
2	2	1.00	1.06	(-11.94	2.02)	Minimum			.00 .00	438 1061_0120295
13	12	1.08	1.09	-11.41	1.05	1.02	.3 .94 .2	.99	.10 .13	216 1091_0000009
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	36 1071_0024759
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	46 1071_0024772
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	50 1071_0024776
8	7	1.14	1.10	-11.32	1.12	1.08	.3 .85 .1	.98	.22 .30	52 1071_0024778
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	58 1071_0024797
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	106 1071_0024852
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	114 1071_0024861
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	117 1071_0024864
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	142 1071_0242043
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	174 1071_0248317
8	7	1.14	1.10	-11.32	1.12	1.08	.3 .85 .1	.98	.22 .30	184 1071_0248327
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	197 1071_0248340
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	428 1061_0120282
8	7	1.14	1.10	-11.32	1.12	.62	-.3 .36 -.5	1.36	.82 .30	430 1061_0120284
14	12	1.17	1.19	-10.60	.78	.98	.1 1.14 .4	.98	.12 .18	213 1091_0000006
14	12	1.17	1.19	-10.60	.78	1.04	.2 .99 .1	.97	.10 .18	221 1091_0000014
9	7	1.29	1.23	-10.36	.88	.80	-.3 .76 -.3	1.37	.58 .36	40 1071_0024765
9	7	1.29	1.23	-10.36	.88	.64	-.8 .56 -.8	1.68	.81 .36	88 1071_0024831
9	7	1.29	1.23	-10.36	.88	.80	-.3 .76 -.3	1.37	.58 .36	93 1071_0024837
9	7	1.29	1.23	-10.36	.88	.80	-.3 .76 -.3	1.37	.58 .36	94 1071_0024838
9	7	1.29	1.23	-10.36	.88	.80	-.3 .76 -.3	1.37	.58 .36	99 1071_0024845
9	7	1.29	1.23	-10.36	.88	.80	-.3 .76 -.3	1.37	.58 .36	108 1071_0024854
9	7	1.29	1.23	-10.36	.88	.64	-.8 .56 -.8	1.68	.81 .36	176 1071_0248319
9	7	1.29	1.23	-10.36	.88	.80	-.3 .76 -.3	1.37	.58 .36	182 1071_0248325
9	7	1.29	1.23	-10.36	.88	1.00	.1 1.41 .8	.81	.17 .36	185 1071_0248328
9	7	1.29	1.23	-10.36	.88	.85	-.2 .85 -.1	1.26	.50 .36	549 1061_0120443
18	14	1.29	1.27	-10.16	.62	1.21	.7 1.55 1.4	.49	-.05 .34	73 1071_0024813
9	7	1.29	1.31	-9.93	.88	.85	-.2 .85 -.1	1.26	.50 .36	6 1071_0024683
8	6	1.33	1.33	-9.86	.88	.96	.0 .91 -.1	1.18	.30 .22	235 1091_0000028
8	6	1.33	1.33	-9.86	.88	.78	-.6 .73 -.7	1.80	.72 .22	248 1091_0000042
8	6	1.33	1.33	-9.86	.88	.83	-.4 .79 -.5	1.61	.59 .22	257 1091_0000051
19	14	1.36	1.35	-9.79	.59	.70	-1.3 .65 -1.3	1.84	.73 .35	80 1071_0024820
19	14	1.36	1.35	-9.79	.59	.78	-.9 .76 -.8	1.59	.61 .35	82 1071_0024822
10	7	1.43	1.37	-9.67	.80	.94	-.1 .90 -.2	1.27	.40 .36	44 1071_0024769
10	7	1.43	1.37	-9.67	.80	1.13	.5 1.21 .7	.42	.10 .36	59 1071_0024798
10	7	1.43	1.37	-9.67	.80	.73	-1.0 .70 -1.0	2.07	.69 .36	96 1071_0024841
10	7	1.43	1.37	-9.67	.80	.96	.0 .92 -.1	1.21	.38 .36	138 1071_0242022
20	14	1.43	1.42	-9.45	.57	.71	-1.6 .67 -1.6	2.11	.72 .35	75 1071_0024815
17	12	1.42	1.47	-9.28	.60	1.08	.5 1.05 .3	.57	.06 .24	223 1091_0000016
9	6	1.50	1.50	-9.14	.83	.98	.0 .98 .0	1.16	.23 .25	232 1091_0000025
9	6	1.50	1.50	-9.14	.83	.76	-1.4 .75 -1.4	3.14	.76 .25	302 1091_0000146
21	14	1.50	1.50	-9.13	.56	.78	-1.3 .76 -1.2	1.95	.61 .34	72 1071_0024812
21	14	1.50	1.50	-9.13	.56	.86	-.8 .83 -.8	1.63	.51 .34	81 1071_0024821
21	14	1.50	1.50	-9.13	.56	.87	-.7 .82 -.8	1.61	.50 .34	85 1071_0024825
11	7	1.57	1.53	-9.04	.80	.71	-1.2 .67 -1.0	2.19	.70 .34	38 1071_0024762
11	7	1.57	1.53	-9.04	.80	1.14	.6 1.10 .3	.52	.11 .34	61 1071_0024800
11	7	1.57	1.53	-9.04	.80	1.14	.6 1.39 1.1	.19	-.01 .34	100 1071_0024846
11	7	1.57	1.53	-9.04	.80	.71	-1.2 .67 -1.0	2.19	.70 .34	104 1071_0024850
11	7	1.57	1.53	-9.04	.80	.81	-.7 .76 -.6	1.80	.56 .34	141 1071_0242042
22	14	1.57	1.58	-8.82	.57	.76	-1.4 .71 -1.2	1.95	.63 .33	513 1061_0120386
11	7	1.57	1.63	-8.60	.80	.78	-.9 .73 -.7	1.92	.60 .34	9 1071_0024687
23	14	1.64	1.66	-8.49	.58	.89	-.4 .81 -.5	1.36	.45 .31	62 1071_0024801
23	14	1.64	1.66	-8.49	.58	.99	.0 .92 -.1	1.09	.31 .31	77 1071_0024817
10	6	1.67	1.67	-8.42	.88	.78	-.6 .74 -.6	1.64	.71 .24	256 1091_0000050
10	6	1.67	1.67	-8.42	.88	1.11	.4 1.07 .3	.76	-.03 .24	300 1091_0000144
10	6	1.67	1.67	-8.42	.88	.84	-.4 .82 -.4	1.47	.57 .24	364 1091_0000225
12	7	1.71	1.69	-8.36	.86	.73	-.6 .64 -.5	1.51	.63 .30	54 1071_0024781
12	7	1.71	1.69	-8.36	.86	.99	.0 .86 .0	1.09	.30 .30	65 1071_0024804
12	7	1.71	1.69	-8.36	.86	.75	-.5 .66 -.4	1.48	.61 .30	67 1071_0024807
12	7	1.71	1.69	-8.36	.86	.73	-.6 .64 -.5	1.51	.63 .30	69 1071_0024809
12	7	1.71	1.69	-8.36	.86	.75	-.5 .66 -.4	1.48	.61 .30	97 1071_0024843
12	7	1.71	1.69	-8.36	.86	4.83	5.3 8.47 5.6	-3.96	.71 .30	107 1071_0024853
12	7	1.71	1.69	-8.36	.86	.73	-.6 .64 -.5	1.51	.63 .30	111 1071_0024857
12	7	1.71	1.69	-8.36	.86	4.72	5.2 8.49 5.6	-3.83	.75 .30	123 1071_0024873
12	7	1.71	1.69	-8.36	.86	.75	-.5 .66 -.4	1.48	.61 .30	151 1071_0243581
12	7	1.71	1.69	-8.36	.86	.75	-.5 .66 -.4	1.48	.61 .30	161 1071_0248303
12	7	1.71	1.69	-8.36	.86	.73	-.6 .64 -.5	1.51	.63 .30	199 1071_0248342
12	7	1.71	1.69	-8.36	.86	.80	-.3 .72 -.3	1.38	.53 .30	203 1071_0248346
12	7	1.71	1.69	-8.36	.86	1.18	.5 1.17 .4	.71	-.01 .30	206 1071_0248349
12	7	1.71	1.69	-8.36	.86	.75	-.5 .66 -.4	1.48	.61 .30	429 1061_0120283
12	7	1.71	1.69	-8.36	.86	.75	-.5 .66 -.4	1.48	.61 .30	446 1061_0120303
12	7	1.71	1.69	-8.36	.86	.73	-.6 .64 -.5	1.51	.63 .30	619 1061_1202911
20	12	1.67	1.72	-8.20	.63	1.10	.4 1.08 .3	.77	.01 .24	219 1091_0000012
24	14	1.71	1.73	-8.14	.61	.86	-.4 .77 -.4	1.28	.45 .29	64 1071_0024803
24	14	1.71	1.73	-8.14	.61	.86	-.4 .78 -.4	1.28	.45 .29	74 1071_0024814
12	7	1.71	1.77	-7.93	.86	.99	.0 .86 .0	1.09	.30 .30	26 1071_0024710
11	6	1.83	1.84	-7.49	1.09	1.06	.3 1.11 .4	.95	-.11 .20	245 1091_0000038
11	6	1.83	1.84	-7.49	1.09	.99	.2 .92 .1	1.03	.12 .20	246 1091_0000039
11	6	1.83	1.84	-7.49	1.09	1.01	.2 .96 .2	1.01	.07 .20	254 1091_0000048
11	6	1.83	1.84	-7.49	1.09	.99	.2 .92 .1	1.03	.12 .20	276 1091_0000070

11	6	1.83	1.84	-7.49	1.09	1.06	.3	1.11	.4	.95	-.11	.20	327	1091_0000174
11	6	1.83	1.84	-7.49	1.09	1.01	.2	.96	.2	1.01	.07	.20	380	1091_0000241
11	6	1.83	1.84	-7.49	1.09	1.06	.3	1.11	.4	.95	-.11	.20	393	1091_0000254
13	7	1.86	1.84	-7.48	1.04	.93	.1	.83	.1	1.07	.18	.24	41	1071_0024766
13	7	1.86	1.84	-7.48	1.04	.93	.1	.83	.1	1.07	.18	.24	43	1071_0024768
13	7	1.86	1.84	-7.48	1.04	.66	-.2	.45	-.3	1.28	.61	.24	68	1071_0024808
13	7	1.86	1.84	-7.48	1.04	.93	.1	.83	.1	1.07	.18	.24	132	1071_0241832
13	7	1.86	1.84	-7.48	1.04	.93	.1	.83	.1	1.07	.18	.24	139	1071_0242023
13	7	1.86	1.84	-7.48	1.04	.93	.1	.83	.1	1.07	.18	.24	146	1071_0242091
13	7	1.86	1.84	-7.48	1.04	.66	-.2	.45	-.3	1.28	.61	.24	152	1071_0243582
13	7	1.86	1.84	-7.48	1.04	.93	.1	.83	.1	1.07	.18	.24	157	1071_0243622
13	7	1.86	1.84	-7.48	1.04	.66	-.2	.45	-.3	1.28	.61	.24	160	1071_0248302
13	7	1.86	1.84	-7.48	1.04	.93	.1	.83	.1	1.07	.18	.24	162	1071_0248304
13	7	1.86	1.84	-7.48	1.04	.66	-.2	.45	-.3	1.28	.61	.24	167	1071_0248310
13	7	1.86	1.84	-7.48	1.04	.66	-.2	.45	-.3	1.28	.61	.24	198	1071_0248341
13	7	1.86	1.84	-7.48	1.04	.66	-.2	.45	-.3	1.28	.61	.24	432	1061_0120286
26	14	1.86	1.87	-7.25	.74	.96	.1	.94	.1	1.03	.12	.24	76	1071_0024816
27	14	1.93	1.93	-6.63	.83	4.29	2.3	3.49	1.9	.22	.56	.22	87	1071_0024827
23	12	1.92	1.94	-6.55	.94	.89	.1	1.10	.4	1.01	-.24	.16	211	1091_0000004
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	1	1071_0020001
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	39	1071_0024763
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	45	1071_0024770
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	47	1071_0024773
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	51	1071_0024777
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	57	1071_0024784
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	66	1071_0024806
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	98	1071_0024844
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	102	1071_0024848
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	110	1071_0024856
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	131	1071_0241831
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	140	1071_0242041
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	145	1071_0242073
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	169	1071_0248312
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	171	1071_0248314
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	173	1071_0248316
14	7	2.00	1.97	-6.17	1.11	6.12	2.1	4.40	1.7	-.14	.93	.27	180	1071_0248323
14	7	2.00	1.97	-6.17	1.11	6.13	2.1	4.43	1.7	-.15	.91	.27	193	1071_0248336
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	204	1071_0248347
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	472	1061_0120331
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	489	1061_0120352
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	490	1061_0120353
14	7	2.00	1.97	-6.17	1.11	.06	-.6	.04	-.6	1.32	.00	.27	543	1061_0120433
28	14	2.00	1.98	-5.97	.77	3.27	1.7	2.80	1.4	.46	.41	.27	71	1071_0024811
28	14	2.00	1.98	-5.97	.77	.07	-1.3	.04	-1.3	1.33	.00	.27	518	1061_0120391
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	230	1091_0000023
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	231	1091_0000024
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	233	1091_0000026
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	236	1091_0000029
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	237	1091_0000030
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	238	1091_0000031
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	241	1091_0000034
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	242	1091_0000035
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	244	1091_0000037
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	247	1091_0000041
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	252	1091_0000046
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	253	1091_0000047
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	255	1091_0000049
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	260	1091_0000054
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	263	1091_0000057
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	283	1091_0000077
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	286	1091_0000086
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	290	1091_0000101
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	299	1091_0000140
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	301	1091_0000145
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	304	1091_0000151
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	328	1091_0000185
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	332	1091_0000193
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	334	1091_0000195
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	343	1091_0000204
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	348	1091_0000209
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	357	1091_0000218
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	363	1091_0000224
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	379	1091_0000240
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	382	1091_0000243
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	406	1091_0000267
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	409	1091_0000270
12	6	2.00	2.00	-5.79	1.34	.01	-.4	.01	-.5	1.29	.00	.14	410	1091_0000271
24	12	2.00	2.01	-5.58	.93	.02	-1.1	.02	-1.1	1.29	.00	.15	220	1091_0000013
29	14	2.07	2.02	-5.48	.63	1.95	1.1	1.93	1.0	.83	.41	.35	79	1071_0024819
29	14	2.07	2.02	-5.48	.63	1.25	.5	1.17	.5	.95	.63	.35	83	1071_0024823
15	7	2.14	2.04	-5.33	.76	1.58	.8	2.21	1.1	.67	.94	.44	91	1071_0024835
15	7	2.14	2.04	-5.33	.76	1.67	.9	1.47	.7	.51	.72	.44	113	1071_0024860
15	7	2.14	2.04	-5.33	.76	1.64	.8	1.75	.9	.55	.77	.44	124	1071_0024874
15	7	2.14	2.04	-5.33	.76	1.65	.8	1.69	.8	.54	.76	.44	150	1071_0243502
15	7	2.14	2.04	-5.33	.76	1.65	.8	1.69	.8	.54	.76	.44	155	1071_0243593
15	7	2.14	2.04	-5.33	.76	1.65	.8	1.69	.8	.54	.76	.44	179	1071_0248322
15	7	2.14	2.04	-5.33	.76	1.58	.8	2.21	1.1	.67	.94	.44	188	1071_0248331
15	7	2.14	2.04	-5.33	.76	.79	.0	.83	.3	.70	.02	.44	485	1061_0120348
30	14	2.14	2.07	-5.13	.54	1.64	1.0	1.98	1.0	.62	.84	.42	84	1071_0024824
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	2	1071_0024678
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	15	1071_0024693
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	20	1071_0024703
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	21	1071_0024704
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	23	1071_0024706
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	28	1071_0024712
16	7	2.29	2.12	-4.85										

16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	165	1071_0248308
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	183	1071_0248326
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	186	1071_0248329
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	192	1071_0248335
16	7	2.29	2.12	-4.85	.63	2.14	1.3	6.73	2.5	.54	-.61	.53	200	1071_0248343
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	423	1061_0120277
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	426	1061_0120280
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	433	1061_0120287
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	437	1061_0120291
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	454	1061_0120312
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	486	1061_0120349
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	604	1061_0120889
16	7	2.29	2.12	-4.85	.63	.38	-.8	.19	-.6	1.39	.82	.53	623	1061_1202915
13	6	2.17	2.14	-4.78	.75	.46	-.2	.36	-.1	.81	.27	.23	284	1091_0000078
13	6	2.17	2.14	-4.78	.75	.46	-.2	.36	-.1	.81	.27	.23	303	1091_0000148
13	6	2.17	2.14	-4.78	.75	.46	-.2	.36	-.1	.81	.27	.23	353	1091_0000214
32	14	2.29	2.18	-4.65	.45	1.61	1.1	4.32	2.4	.36	.59	.50	70	1071_0024810
17	7	2.43	2.23	-4.51	.55	.38	-1.0	.30	-.7	.99	.79	.57	445	1061_0120302
17	7	2.43	2.23	-4.51	.55	.38	-1.0	.30	-.7	.99	.79	.57	477	1061_0120336
17	7	2.43	2.23	-4.51	.55	.38	-1.0	.30	-.7	.99	.79	.57	492	1061_0120355
17	7	2.43	2.23	-4.51	.55	.38	-1.0	.30	-.7	.99	.79	.57	546	1061_0120440
17	7	2.43	2.23	-4.51	.55	.38	-1.0	.30	-.7	.99	.79	.57	613	1061_1029116
16	7	2.29	2.26	-4.42	.63	1.62	.9	.99	.4	1.03	.22	.53	17	1071_0024699
14	6	2.33	2.29	-4.35	.58	1.56	.9	4.26	2.2	.74	-.83	.30	272	1091_0000066
14	6	2.33	2.29	-4.35	.58	1.19	.4	1.07	.3	1.13	.11	.30	331	1091_0000192
14	6	2.33	2.29	-4.35	.58	1.19	.4	1.07	.3	1.13	.11	.30	349	1091_0000210
14	6	2.33	2.29	-4.35	.58	1.19	.4	1.07	.3	1.13	.11	.30	356	1091_0000217
14	6	2.33	2.29	-4.35	.58	1.30	.6	1.40	.6	1.05	-.07	.30	372	1091_0000233
14	6	2.33	2.29	-4.35	.58	1.19	.4	1.07	.3	1.13	.11	.30	411	1091_0000272
27	12	2.25	2.29	-4.35	.46	1.10	.3	3.72	2.2	.73	-.45	.28	208	1091_0000001
32	13	2.46	2.32	-4.29	.40	1.09	.3	.89	.0	1.18	.50	.54	86	1071_0024826
18	7	2.57	2.35	-4.23	.50	.95	.0	.84	.0	1.26	.58	.58	24	1071_0024708
18	7	2.57	2.35	-4.23	.50	1.75	1.2	1.61	.9	.32	.82	.58	32	1071_0024716
18	7	2.57	2.35	-4.23	.50	.57	-.7	.42	-.7	1.45	.81	.58	33	1071_0024756
18	7	2.57	2.35	-4.23	.50	.57	-.7	.42	-.7	1.45	.81	.58	112	1071_0024859
18	7	2.57	2.35	-4.23	.50	1.78	1.3	1.56	.8	.86	.12	.58	116	1071_0024863
18	7	2.57	2.35	-4.23	.50	1.75	1.2	1.61	.9	.32	.82	.58	121	1071_0024871
18	7	2.57	2.35	-4.23	.50	1.75	1.2	1.61	.9	.32	.82	.58	125	1071_0024875
18	7	2.57	2.35	-4.23	.50	1.75	1.2	1.61	.9	.32	.82	.58	129	1071_0024879
18	7	2.57	2.35	-4.23	.50	1.27	.6	3.13	2.0	.91	.17	.58	149	1071_0243501
18	7	2.57	2.35	-4.23	.50	1.88	1.4	1.80	1.0	.80	.04	.58	201	1071_0248344
18	7	2.57	2.35	-4.23	.50	1.27	.6	3.13	2.0	.91	.17	.58	205	1071_0248348
18	7	2.57	2.35	-4.23	.50	.85	.0	.68	-.2	1.31	.65	.58	495	1061_0120358
18	7	2.57	2.35	-4.23	.50	1.04	.2	1.07	.3	1.19	.50	.58	605	1061_0120890
29	12	2.42	2.37	-4.20	.38	1.15	.4	1.17	.4	.85	.00	.29	226	1091_0000019
17	7	2.43	2.45	-4.07	.55	1.79	1.1	1.58	.8	.44	-.06	.57	11	1071_0024689
15	6	2.50	2.45	-4.06	.51	1.06	.2	1.07	.3	.58	.01	.35	268	1091_0000062
15	6	2.50	2.45	-4.06	.51	1.32	.7	2.85	1.9	.23	-.68	.35	269	1091_0000063
15	6	2.50	2.45	-4.06	.51	.48	-1.1	.39	-.8	.96	.76	.35	305	1091_0000152
15	6	2.50	2.45	-4.06	.51	1.32	.7	2.85	1.9	.23	-.68	.35	318	1091_0000165
15	6	2.50	2.45	-4.06	.51	.48	-1.1	.39	-.8	.96	.76	.35	342	1091_0000203
15	6	2.50	2.45	-4.06	.51	.48	-1.1	.39	-.8	.96	.76	.35	345	1091_0000206
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	53	1071_0024779
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	170	1071_0248313
19	7	2.71	2.50	-4.00	.47	.90	.0	.83	.0	.79	.52	.57	194	1071_0248337
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	427	1061_0120281
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	436	1061_0120290
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	451	1061_0120309
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	464	1061_0120323
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	469	1061_0120328
19	7	2.71	2.50	-4.00	.47	1.44	1.0	1.59	.9	.43	.13	.57	491	1061_0120354
19	7	2.71	2.50	-4.00	.47	.90	.0	.83	.0	.79	.52	.57	529	1061_0120413
19	7	2.71	2.50	-4.00	.47	.90	.0	.83	.0	.79	.52	.57	611	1061_1029114
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	622	1061_1202914
19	7	2.71	2.50	-4.00	.47	.42	-1.5	.35	-1.1	1.08	.84	.57	687	1023_0103828
16	6	2.67	2.63	-3.82	.47	1.35	.9	1.23	.5	1.07	.03	.38	259	1091_0000053
16	6	2.67	2.63	-3.82	.47	1.27	.7	1.17	.4	1.13	.12	.38	317	1091_0000164
38	14	2.71	2.66	-3.79	.34	1.18	.6	1.37	.8	.53	.60	.55	512	1061_0120384
20	7	2.86	2.66	-3.78	.45	1.56	1.3	2.07	1.6	.81	.10	.56	134	1071_0242011
20	7	2.86	2.66	-3.78	.45	.76	-.5	.63	-.5	1.48	.69	.56	135	1071_0242012
20	7	2.86	2.66	-3.78	.45	1.71	1.6	2.23	1.7	.70	.01	.56	196	1071_0248339
20	7	2.86	2.66	-3.78	.45	1.24	.7	1.05	.2	1.16	.40	.56	420	1061_0120274
17	6	2.83	2.81	-3.61	.45	.73	-.8	.69	-.6	.80	.54	.41	267	1091_0000061
17	6	2.83	2.81	-3.61	.45	1.62	1.7	2.08	2.1	-.15	-.68	.41	279	1091_0000073
17	6	2.83	2.81	-3.61	.45	.69	-.9	.66	-.7	.84	.58	.41	298	1091_0000127
17	6	2.83	2.81	-3.61	.45	.57	-1.5	.53	-1.2	.96	.74	.41	316	1091_0000163
17	6	2.83	2.81	-3.61	.45	.69	-.9	.66	-.7	.84	.58	.41	329	1091_0000190
17	6	2.83	2.81	-3.61	.45	.57	-1.5	.53	-1.2	.96	.74	.41	339	1091_0000200
17	6	2.83	2.81	-3.61	.45	.73	-.8	.69	-.6	.80	.54	.41	340	1091_0000201
17	6	2.83	2.81	-3.61	.45	.73	-.8	.69	-.6	.80	.54	.41	365	1091_0000226
17	6	2.83	2.81	-3.61	.45	.69	-.9	.66	-.7	.84	.58	.41	375	1091_0000236
17	6	2.83	2.81	-3.61	.45	.69	-.9	.66	-.7	.84	.58	.41	377	1091_0000238
17	6	2.83	2.81	-3.61	.45	.69	-.9	.66	-.7	.84	.58	.41	387	1091_0000248
17	6	2.83	2.81	-3.61	.45	.69	-.9	.66	-.7	.84	.58	.41	394	1091_0000255
17	6	2.83	2.81	-3.61	.45	1.06	.3	1.01	.1	.49	.15	.41	414	1091_0000275
21	7	3.00	2.83	-3.59	.44	.54	-1.5	.46	-.9	1.06	.74	.54	13	1071_0024691
21	7	3.00	2.83	-3.59	.44	.66	-1.0	.57	-.7	.97	.66	.54	22	1071_0024705
21	7	3.00	2.83	-3.59	.44	.54	-1.5	.46	-.9	1.06	.74	.54	29	1071_0024713
21	7	3.00	2.83	-3.59	.44	.54	-1.5	.46	-.9	1.06	.74	.54	89	1071_0024833
21	7	3.00	2.83	-3.59	.44	.54	-1.5	.46	-.9	1.06	.74	.54	101	1071_0024847
21	7	3.00	2.83	-3.59	.44	.69	-.9	.60	-.6	.95	.64	.54	418	1061_0120272
21	7	3.00	2.83	-3.59	.44	.66	-1.0	.57	-.7	.97	.66	.54	425	1061_0120279
21	7	3.00	2.83	-3.59	.44	1.04	.2	.90	.0	.69	.41	.54	594	1061_0120878
21	7	3.00	2.83	-3.59	.44	.54	-1.5	.46	-.9	1.06	.74	.54	603	1061_0120888
21	7	3.00	2.83	-3.59	.44	.54	-1.5	.46	-.9	1.06	.74	.54	615	1061_1029118
19	7	2.71	2.86	-3.56	.47	1.44	1.0	1.59	.9	.43	.13	.57	10	1071_0024688
19	7													

19	6	3.17	3.19	-3.20	.46	.63	-1.1	.58	-1.0	.90	.68	.43	249	1091_0000043
19	6	3.17	3.19	-3.20	.46	1.57	1.5	1.79	1.7	.01	-.54	.43	250	1091_0000044
19	6	3.17	3.19	-3.20	.46	1.57	1.5	1.79	1.7	.01	-.54	.43	275	1091_0000069
19	6	3.17	3.19	-3.20	.46	.63	-1.1	.58	-1.0	.90	.68	.43	313	1091_0000160
19	6	3.17	3.19	-3.20	.46	.79	-.5	.74	-.5	.76	.48	.43	360	1091_0000221
19	6	3.17	3.19	-3.20	.46	.79	-.5	.74	-.5	.76	.48	.43	366	1091_0000227
19	6	3.17	3.19	-3.20	.46	1.74	1.8	1.95	1.9	-.13	-.74	.43	374	1091_0000235
19	6	3.17	3.19	-3.20	.46	.63	-1.1	.58	-1.0	.90	.68	.43	389	1091_0000250
19	6	3.17	3.19	-3.20	.46	1.31	.9	1.29	.8	.30	-.15	.43	401	1091_0000262
19	6	3.17	3.19	-3.20	.46	1.27	.8	1.26	.7	.33	-.10	.43	403	1091_0000264
23	7	3.29	3.19	-3.20	.45	.60	-1.1	.50	-.7	1.00	.64	.50	12	1071_0024690
23	7	3.29	3.19	-3.20	.45	.60	-1.1	.50	-.7	1.00	.64	.50	16	1071_0024694
23	7	3.29	3.19	-3.20	.45	1.26	.7	1.11	.3	.55	.19	.50	37	1071_0024761
23	7	3.29	3.19	-3.20	.45	1.81	1.8	3.64	2.6	-.15	-.52	.50	105	1071_0024851
23	7	3.29	3.19	-3.20	.45	.76	-.5	.63	-.4	.89	.53	.50	115	1071_0024862
23	7	3.29	3.19	-3.20	.45	2.43	2.8	4.50	3.1	-.70	.49	.50	178	1071_00248321
23	7	3.29	3.19	-3.20	.45	1.05	.2	1.09	.3	.66	.30	.50	195	1071_0248338
23	7	3.29	3.19	-3.20	.45	.60	-1.1	.50	-.7	1.00	.64	.50	202	1071_0248345
23	7	3.29	3.19	-3.20	.45	1.94	2.0	3.75	2.7	-.23	-.60	.50	207	1071_0248350
23	7	3.29	3.19	-3.20	.45	1.51	1.3	1.54	.9	.34	-.02	.50	419	1061_0120273
23	7	3.29	3.19	-3.20	.45	.60	-1.1	.50	-.7	1.00	.64	.50	435	1061_0120289
23	7	3.29	3.19	-3.20	.45	.76	-.5	.63	-.4	.89	.53	.50	473	1061_0120332
23	7	3.29	3.19	-3.20	.45	1.22	.6	1.08	.3	.58	.22	.50	545	1061_0120439
23	7	3.29	3.19	-3.20	.45	.76	-.5	.63	-.4	.89	.53	.50	585	1061_0120855
23	7	3.29	3.19	-3.20	.45	.60	-1.1	.50	-.7	1.00	.64	.50	602	1061_0120887
23	7	3.29	3.19	-3.20	.45	.64	-.9	.53	-.6	.98	.61	.50	614	1061_1029117
23	7	3.29	3.19	-3.20	.45	.60	-1.1	.50	-.7	1.00	.64	.50	626	1061_1202918
23	7	3.29	3.19	-3.20	.45	.60	-1.1	.50	-.7	1.00	.64	.50	771	1023_0109029
36	12	3.00	3.20	-3.19	.32	1.51	1.9	1.87	2.4	.01	-.36	.42	222	1091_0000015
44	14	3.14	3.22	-3.17	.31	.73	-1.0	.61	-.8	.92	.60	.51	19	1071_0024702
44	14	3.14	3.22	-3.17	.31	.57	-1.9	.48	-1.3	1.02	.70	.51	514	1061_0120387
45	14	3.21	3.30	-3.08	.32	1.03	.2	1.57	1.2	.89	.34	.50	510	1061_0120382
43	14	3.07	3.32	-3.06	.31	1.28	1.1	1.97	1.9	.67	.16	.50	31	1071_0024715
24	7	3.43	3.37	-2.99	.47	.71	-.5	.58	-.4	1.44	.61	.47	92	1071_0024836
24	7	3.43	3.37	-2.99	.47	.71	-.5	.58	-.4	1.44	.61	.47	168	1071_0248311
24	7	3.43	3.37	-2.99	.47	.71	-.5	.58	-.4	1.44	.61	.47	431	1061_0120285
24	7	3.43	3.37	-2.99	.47	1.39	.9	1.14	.4	1.06	.19	.47	479	1061_0120338
24	7	3.43	3.37	-2.99	.47	1.88	1.7	3.69	2.5	.43	-.50	.47	484	1061_0120347
24	7	3.43	3.37	-2.99	.47	.83	-.2	.71	-.2	1.37	.53	.47	496	1061_0120359
24	7	3.43	3.37	-2.99	.47	1.32	.7	3.25	2.2	.73	-.17	.47	521	1061_0120404
24	7	3.43	3.37	-2.99	.47	1.32	.7	3.25	2.2	.73	-.17	.47	586	1061_0120856
24	7	3.43	3.37	-2.99	.47	1.39	.9	1.14	.4	1.06	.19	.47	610	1061_1029113
24	7	3.43	3.37	-2.99	.47	1.92	1.7	3.69	2.5	.45	.85	.47	616	1061_1029119
24	7	3.43	3.37	-2.99	.47	1.32	.7	3.25	2.2	.73	-.17	.47	617	1061_1029120
24	7	3.43	3.37	-2.99	.47	.71	-.5	.58	-.4	1.44	.61	.47	625	1061_1202917
20	6	3.33	3.38	-2.99	.48	1.51	1.1	1.46	.9	.94	-.12	.43	270	1091_0000064
20	6	3.33	3.38	-2.99	.48	.70	-.6	.63	-.6	1.51	.75	.43	287	1091_0000087
20	6	3.33	3.38	-2.99	.48	.87	-.1	.83	-.1	1.39	.57	.43	291	1091_0000102
20	6	3.33	3.38	-2.99	.48	.96	.0	.99	.1	1.31	.44	.43	337	1091_0000198
20	6	3.33	3.38	-2.99	.48	1.41	.9	1.30	.6	1.02	.01	.43	352	1091_0000213
20	6	3.33	3.38	-2.99	.48	.70	-.6	.63	-.6	1.51	.75	.43	361	1091_0000222
20	6	3.33	3.38	-2.99	.48	.70	-.6	.63	-.6	1.51	.75	.43	404	1091_0000265
47	14	3.36	3.47	-2.87	.33	.93	-.1	1.69	1.3	.93	.33	.48	515	1061_0120388
23	7	3.29	3.54	-2.76	.45	.76	-.5	.63	-.4	.89	.53	.50	4	1071_0024681
23	7	3.29	3.54	-2.76	.45	.64	-.9	.53	-.6	.98	.61	.50	607	1061_0120989
48	14	3.43	3.54	-2.76	.33	1.39	1.1	2.22	1.9	.24	.19	.46	568	1061_0120486
25	7	3.57	3.54	-2.76	.50	1.86	1.4	3.14	2.0	.19	.88	.44	120	1071_0024867
25	7	3.57	3.54	-2.76	.50	1.10	.3	.88	.1	.73	.16	.44	156	1071_0243621
25	7	3.57	3.54	-2.76	.50	.49	-.9	.41	-.7	.99	.57	.44	166	1071_0248309
25	7	3.57	3.54	-2.76	.50	1.06	.2	.84	.0	.74	.19	.44	447	1061_0120304
25	7	3.57	3.54	-2.76	.50	1.86	1.4	3.14	2.0	.19	.88	.44	505	1061_0120372
40	12	3.33	3.54	-2.76	.34	.82	-.5	.83	-.3	.73	.41	.42	218	1091_0000011
21	6	3.50	3.55	-2.74	.51	1.13	.4	.98	.2	.60	-.01	.41	271	1091_0000065
21	6	3.50	3.55	-2.74	.51	1.13	.4	.98	.2	.60	-.01	.41	350	1091_0000211
21	6	3.50	3.55	-2.74	.51	1.13	.4	.98	.2	.60	-.01	.41	367	1091_0000228
21	6	3.50	3.55	-2.74	.51	1.13	.4	.98	.2	.60	-.01	.41	384	1091_0000245
21	6	3.50	3.55	-2.74	.51	1.13	.4	.98	.2	.60	-.01	.41	388	1091_0000249
21	6	3.50	3.55	-2.74	.51	1.13	.4	.98	.2	.60	-.01	.41	390	1091_0000251
21	6	3.50	3.55	-2.74	.51	1.17	.4	1.04	.2	.58	-.06	.41	395	1091_0000256
21	6	3.50	3.55	-2.74	.51	.52	-.8	.48	-.7	.91	.68	.41	398	1091_0000259
26	7	3.71	3.70	-2.49	.54	1.12	.3	.93	.2	1.15	.18	.41	118	1071_0024865
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	128	1071_0024878
26	7	3.71	3.70	-2.49	.54	1.22	.5	1.19	.5	1.10	.07	.41	187	1071_0248330
26	7	3.71	3.70	-2.49	.54	1.12	.3	.93	.2	1.15	.18	.41	191	1071_0248334
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	424	1061_0120278
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	439	1061_0120296
26	7	3.71	3.70	-2.49	.54	2.25	1.5	2.63	1.5	.68	.89	.41	440	1061_0120297
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	441	1061_0120298
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	455	1061_0120313
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	502	1061_0120369
26	7	3.71	3.70	-2.49	.54	1.22	.5	1.19	.5	1.10	.07	.41	531	1061_0120415
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	536	1061_0120426
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	540	1061_0120430
26	7	3.71	3.70	-2.49	.54	1.22	.5	1.19	.5	1.10	.07	.41	552	1061_0120450
26	7	3.71	3.70	-2.49	.54	1.22	.5	1.19	.5	1.10	.07	.41	555	1061_0120456
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	577	1061_0120494
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	579	1061_0120496
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	583	1061_0120500
26	7	3.71	3.70	-2.49	.54	2.89	2.0	3.25	1.9	.45	.66	.41	590	1061_0120874
26	7	3.71	3.70	-2.49	.54	1.22	.5	1.19	.5	1.10	.07	.41	621	1061_1202913
26	7	3.71	3.70	-2.49	.54	1.12	.3	.93	.2	1.15	.18	.41	624	1061_1202916
26	7	3.71	3.70	-2.49	.54	1.12	.3	.93	.2	1.15	.18	.41	627	1061_1202919
26	7	3.71	3.70	-2.49	.54	.48	-.7	.31	-.7	1.39	.61	.41	639	1023_0101689
26	7	3.71	3.70	-2.49	.54	2.29	1.6	2.69	1.6	.67	.88	.41	725	1023_0107784
22	6	3.67	3.72	-2.45	.58	1.36	.6	1.45	.7	1.03	-.11	.38	273	1091_0000067
22	6	3.67	3.72	-2.45	.58	.56	-.5	.36	-.6	1.38	.83	.		

22	6	3.67	3.72	-2.45	.58	1.26	.5	1.12	.4	1.10	.07	.38	378	1091_0000239
22	6	3.67	3.72	-2.45	.58	1.22	.5	1.04	.3	1.12	.12	.38	408	1091_0000269
22	6	3.67	3.72	-2.45	.58	.56	-.5	.36	-.6	1.38	.83	.38	415	1091_0000276
43	12	3.58	3.76	-2.37	.39	1.35	.8	1.47	.8	.77	-.13	.39	210	1091_0000003
52	14	3.71	3.80	-2.26	.38	.52	-1.0	.34	-1.1	1.38	.58	.41	564	1061_0120482
44	12	3.67	3.82	-2.21	.41	.74	-.4	.54	-.5	1.30	.60	.37	209	1091_0000002
27	7	3.86	3.83	-2.16	.61	.49	-.4	.59	-.1	.89	-.02	.39	457	1061_0120315
53	14	3.79	3.85	-2.10	.40	2.02	1.6	2.56	1.8	.56	.29	.39	78	1071_0024818
53	14	3.79	3.85	-2.10	.40	1.31	.7	1.07	.3	.89	.73	.39	562	1061_0120480
26	7	3.71	3.87	-2.06	.54	.48	-.7	.31	-.7	1.39	.61	.41	7	1071_0024685
26	7	3.71	3.87	-2.06	.54	1.08	.3	.86	.1	1.17	.21	.41	572	1061_0120489
23	6	3.83	3.87	-2.05	.70	.58	-.1	.73	.1	.78	-.27	.31	396	1091_0000257
45	12	3.75	3.88	-2.03	.45	1.98	1.4	2.40	1.5	.48	.49	.34	212	1091_0000005
45	12	3.75	3.88	-2.03	.45	1.92	1.4	2.24	1.4	.51	.55	.34	215	1091_0000008
54	14	3.86	3.90	-1.93	.42	1.25	.5	.78	.0	1.13	.79	.39	566	1061_0120484
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	3	1071_0024680
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	30	1071_0024714
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	34	1071_0024757
28	7	4.00	3.94	-1.76	.65	2.63	1.4	2.78	1.3	.72	.65	.41	35	1071_0024758
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	42	1071_0024767
28	7	4.00	3.94	-1.76	.65	2.61	1.4	2.65	1.3	.74	.67	.41	130	1071_0024881
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	190	1071_0248333
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	434	1061_0120288
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	444	1061_0120301
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	456	1061_0120314
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	458	1061_0120316
28	7	4.00	3.94	-1.76	.65	2.61	1.4	2.65	1.3	.74	.67	.41	460	1061_0120318
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	463	1061_0120321
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	470	1061_0120329
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	488	1061_0120351
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	493	1061_0120356
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	503	1061_0120370
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	508	1061_0120375
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	509	1061_0120376
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	537	1061_0120427
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	542	1061_0120432
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	547	1061_0120441
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	559	1061_0120460
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	576	1061_0120493
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	584	1061_0120853
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	588	1061_0120858
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	598	1061_0120883
28	7	4.00	3.94	-1.76	.65	2.19	1.2	1.24	.5	.93	.93	.41	599	1061_0120884
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	601	1061_0120886
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	606	1061_0120894
28	7	4.00	3.94	-1.76	.65	2.61	1.4	2.65	1.3	.74	.67	.41	612	1061_1029115
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	640	1023_0101690
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	674	1023_0101904
28	7	4.00	3.94	-1.76	.65	.15	-1.1	.09	-.9	1.36	.00	.41	824	1023_0109915
47	12	3.92	3.99	-1.55	.54	3.76	2.2	5.02	2.4	.15	.10	.27	224	1091_0000017
56	14	4.00	3.99	-1.54	.46	2.18	1.5	1.58	.8	.90	.85	.41	519	1061_0120394
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	239	1091_0000032
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	251	1091_0000045
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	261	1091_0000055
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	262	1091_0000056
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	265	1091_0000059
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	274	1091_0000068
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	280	1091_0000074
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	281	1091_0000075
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	285	1091_0000079
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	293	1091_0000114
24	6	4.00	4.00	-1.45	.82	4.90	1.9	4.88	1.9	.31	.45	.24	306	1091_0000153
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	310	1091_0000157
24	6	4.00	4.00	-1.45	.82	5.04	2.0	5.21	1.9	.26	.34	.24	311	1091_0000158
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	312	1091_0000159
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	323	1091_0000170
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	324	1091_0000171
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	326	1091_0000173
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	330	1091_0000191
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	333	1091_0000194
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	335	1091_0000196
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	338	1091_0000199
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	347	1091_0000208
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	351	1091_0000212
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	358	1091_0000219
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	359	1091_0000220
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	370	1091_0000231
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	373	1091_0000234
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	381	1091_0000242
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	383	1091_0000244
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	386	1091_0000247
24	6	4.00	4.00	-1.45	.82	4.88	1.9	4.88	1.9	.33	.49	.24	397	1091_0000258
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	399	1091_0000260
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	405	1091_0000266
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	412	1091_0000273
24	6	4.00	4.00	-1.45	.82	.04	-.9	.03	-.9	1.31	.00	.24	413	1091_0000274
57	14	4.07	4.03	-1.33	.46	1.75	1.1	1.96	1.1	.73	.36	.43	569	1061_0120487
58	14	4.14	4.07	-1.13	.45	.31	-1.3	.14	-1.3	1.34	.61	.46	561	1061_0120479
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	5	1071_0024682
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	18	1071_0024701
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	90	1071_0024834
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	164	1071_0248307
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	189	1071_0248332
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	417	1061_0120271
30	7	4.29	4.12	-.96	.59	1.73	1.0	1.85	.9	.92	-.07	.55	421	1061_0120275
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55		

30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	554	1061_0120455
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	578	1061_0120495
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	587	1061_0120857
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	657	1023_0101848
30	7	4.29	4.12	-.96	.59	1.43	.7	.92	.2	1.08	.22	.55	663	1023_0101855
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	681	1023_0103822
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	754	1023_0108887
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	769	1023_0109026
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	788	1023_0109399
30	7	4.29	4.12	-.96	.59	.30	-.9	.17	-.8	1.38	.82	.55	811	1023_0109614
30	7	4.29	4.12	-.96	.59	1.79	1.0	2.29	1.2	.87	-.18	.55	952	1031_0003203
59	14	4.21	4.12	-.94	.43	1.18	.4	1.07	.3	.91	.08	.49	517	1061_0120390
59	14	4.21	4.12	-.94	.43	2.48	2.0	2.83	1.7	.49	.28	.49	570	1061_0120488
59	14	4.21	4.12	-.94	.43	1.21	.5	1.15	.4	.88	.02	.49	662	1023_0101854
25	6	4.17	4.14	-.88	.68	.38	-.4	.31	-.4	.86	.27	.26	336	1091_0000197
25	6	4.17	4.14	-.88	.68	.38	-.4	.31	-.4	.86	.27	.26	369	1091_0000230
50	12	4.17	4.21	-.68	.48	.84	.0	.67	-.1	1.20	.21	.27	225	1091_0000018
31	7	4.43	4.22	-.65	.54	.34	-1.0	.28	-.8	.99	.79	.58	532	1061_0120421
31	7	4.43	4.22	-.65	.54	1.70	1.0	1.52	.7	.51	-.06	.58	535	1061_0120425
31	7	4.43	4.22	-.65	.54	.34	-1.0	.28	-.8	.99	.79	.58	553	1061_0120453
31	7	4.43	4.22	-.65	.54	1.70	1.0	1.52	.7	.51	-.06	.58	592	1061_0120876
31	7	4.43	4.22	-.65	.54	1.78	1.1	1.85	1.0	.45	-.16	.58	715	1023_0107682
31	7	4.43	4.22	-.65	.54	.34	-1.0	.28	-.8	.99	.79	.58	799	1023_0109518
30	7	4.29	4.28	-.53	.59	1.81	1.1	2.42	1.3	.86	-.21	.55	8	1071_0024686
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	228	1091_0000021
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	234	1091_0000027
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	264	1091_0000058
26	6	4.33	4.29	-.50	.56	1.26	.5	1.43	.7	1.05	-.12	.31	341	1091_0000202
26	6	4.33	4.29	-.50	.56	1.26	.5	1.43	.7	1.05	-.12	.31	346	1091_0000207
26	6	4.33	4.29	-.50	.56	1.26	.5	1.43	.7	1.05	-.12	.31	354	1091_0000215
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	355	1091_0000216
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	362	1091_0000223
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	376	1091_0000237
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	402	1091_0000263
26	6	4.33	4.29	-.50	.56	1.12	.4	1.01	.3	1.14	.11	.31	407	1091_0000268
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	25	1071_0024709
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	60	1071_0024799
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	422	1061_0120276
32	7	4.57	4.35	-.38	.49	1.03	.2	1.11	.3	1.17	.47	.58	443	1061_0120300
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	449	1061_0120307
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	467	1061_0120326
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	481	1061_0120343
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	482	1061_0120345
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	571	1061_0120489
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	573	1061_0120490
32	7	4.57	4.35	-.38	.49	1.67	1.1	1.55	.8	.58	.82	.58	574	1061_0120491
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	581	1061_0120498
32	7	4.57	4.35	-.38	.49	1.67	1.1	1.55	.8	.58	.82	.58	582	1061_0120499
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	589	1061_0120859
32	7	4.57	4.35	-.38	.49	1.01	.2	1.04	.3	1.19	.50	.58	593	1061_0120877
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	600	1061_0120885
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	608	1061_1029111
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	620	1061_1202912
32	7	4.57	4.35	-.38	.49	.91	.0	.81	.0	1.25	.58	.58	780	1023_0109248
32	7	4.57	4.35	-.38	.49	.54	-.7	.40	-.7	1.42	.81	.58	786	1023_0109395
63	14	4.50	4.39	-.31	.36	1.72	1.4	2.38	1.8	.60	.64	.55	810	1023_0109609
52	12	4.33	4.40	-.30	.40	1.34	.7	1.90	1.2	.99	-.22	.32	214	1091_0000007
27	6	4.50	4.45	-.22	.50	.45	-1.2	.37	-.9	.95	.76	.35	292	1091_0000113
27	6	4.50	4.45	-.22	.50	.45	-1.2	.37	-.9	.95	.76	.35	295	1091_0000123
27	6	4.50	4.45	-.22	.50	.88	.0	.77	-.1	.71	.24	.35	385	1091_0000246
33	7	4.71	4.50	-.16	.46	2.73	2.6	3.51	2.6	-.63	.82	.58	119	1071_0024866
33	7	4.71	4.50	-.16	.46	1.53	1.1	1.71	1.1	.41	.05	.58	452	1061_0120310
33	7	4.71	4.50	-.16	.46	.78	-.3	.65	-.3	.87	.60	.58	468	1061_0120327
33	7	4.71	4.50	-.16	.46	.78	-.3	.65	-.3	.87	.60	.58	478	1061_0120337
33	7	4.71	4.50	-.16	.46	1.42	.9	1.55	.9	.48	.13	.58	522	1061_0120405
33	7	4.71	4.50	-.16	.46	1.93	1.7	2.09	1.4	.19	-.22	.58	548	1061_0120442
33	7	4.71	4.50	-.16	.46	.78	-.3	.65	-.3	.87	.60	.58	558	1061_0120459
33	7	4.71	4.50	-.16	.46	.78	-.3	.65	-.3	.87	.60	.58	560	1061_0120478
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	596	1061_0120881
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	637	1023_0101684
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	646	1023_0101701
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	653	1023_0101844
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	661	1023_0101853
33	7	4.71	4.50	-.16	.46	1.55	1.1	1.76	1.1	.39	.02	.58	664	1023_0101856
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	675	1023_0101906
33	7	4.71	4.50	-.16	.46	1.42	.9	1.55	.9	.48	.13	.58	712	1023_0107075
33	7	4.71	4.50	-.16	.46	.78	-.3	.65	-.3	.87	.60	.58	726	1023_0107787
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	734	1023_0108426
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	745	1023_0108766
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	782	1023_0109250
33	7	4.71	4.50	-.16	.46	1.47	1.0	1.81	1.2	.13	.83	.58	795	1023_0109500
33	7	4.71	4.50	-.16	.46	1.47	1.0	1.81	1.2	.13	.83	.58	800	1023_0109519
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	818	1023_0109721
33	7	4.71	4.50	-.16	.46	.78	-.3	.65	-.3	.87	.60	.58	823	1023_0109914
33	7	4.71	4.50	-.16	.46	1.55	1.1	1.76	1.1	.39	.02	.58	827	1023_0109946
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	838	1031_0000202
33	7	4.71	4.50	-.16	.46	1.53	1.1	1.71	1.1	.41	.05	.58	898	1031_0003091
33	7	4.71	4.50	-.16	.46	1.55	1.1	1.76	1.1	.39	.02	.58	899	1031_0003092
33	7	4.71	4.50	-.16	.46	1.53	1.1	1.71	1.1	.41	.05	.58	965	1031_0003221
33	7	4.71	4.50	-.16	.46	.40	-1.5	.33	-1.2	1.06	.84	.58	1026	1031_0003391
65	14	4.64	4.57	-.06	.34	1.59	1.4	2.67	2.4	.38	.89	.56	511	1061_0120383
65	14	4.64	4.57	-.06	.34	1.44	1.1	1.64	1.2	.74	.20	.56	567	1061_0120485
65	14	4.64	4.57	-.06	.34	1.64	1.5	1.77	1.4	.52	.53	.56	633	1023_0001423
28	6	4.67	4.63	.02	.47	1.33	.9	1.21	.5	1.07	.03	.39	266	1091_0000060
28	6	4.67	4.63	.02	.47	1.36	.9	1.26	.6	1.04	-.01	.39	391	1091_0000252
34	7	4.86	4.66	.05	.44	1.81	1.7	2.44	1.9	.41	.75	.56	14	1071_0024692
34	7	4.86	4.66	.05	.44	1.70</								

35	7	5.00	4.83	.24	.43	1.01	.1	.89	.0	.71	.41	.55	526	1061_0120409
35	7	5.00	4.83	.24	.43	.98	.0	.85	.0	.74	.44	.55	541	1061_0120431
35	7	5.00	4.83	.24	.43	1.77	1.8	2.72	2.2	-.14	.71	.55	544	1061_0120438
35	7	5.00	4.83	.24	.43	1.01	.1	.89	.0	.71	.41	.55	575	1061_0120492
35	7	5.00	4.83	.24	.43	1.01	.1	.89	.0	.71	.41	.55	618	1061_1202910
35	7	5.00	4.83	.24	.43	1.27	.8	2.28	1.8	.19	.93	.55	644	1023_0101695
35	7	5.00	4.83	.24	.43	.67	-.9	.58	-.6	.94	.64	.55	669	1023_0101897
35	7	5.00	4.83	.24	.43	.67	-.9	.58	-.6	.94	.64	.55	691	1023_0103832
35	7	5.00	4.83	.24	.43	.52	-1.5	.45	-1.0	1.04	.74	.55	707	1023_0104207
35	7	5.00	4.83	.24	.43	1.39	1.0	2.18	1.7	.29	-.01	.55	752	1023_0108885
35	7	5.00	4.83	.24	.43	1.62	1.5	2.58	2.1	-.04	.78	.55	763	1023_0108935
35	7	5.00	4.83	.24	.43	.52	-1.5	.45	-1.0	1.04	.74	.55	783	1023_0109267
35	7	5.00	4.83	.24	.43	1.62	1.5	2.58	2.1	-.04	.78	.55	784	1023_0109391
35	7	5.00	4.83	.24	.43	.52	-1.5	.45	-1.0	1.04	.74	.55	831	1023_0111896
35	7	5.00	4.83	.24	.43	.64	-1.0	.55	-.7	.96	.66	.55	932	1031_0003165
35	7	5.00	4.83	.24	.43	.67	-.9	.58	-.6	.94	.64	.55	933	1031_0003166
35	7	5.00	4.83	.24	.43	.64	-1.0	.55	-.7	.96	.66	.55	956	1031_0003211
35	7	5.00	4.83	.24	.43	.64	-1.0	.55	-.7	.96	.66	.55	972	1031_0003232
35	7	5.00	4.83	.24	.43	1.42	1.1	2.21	1.7	.26	-.03	.55	1030	1031_0003408
30	6	5.00	5.00	.42	.45	1.87	2.2	2.10	2.2	.52	-.63	.43	277	1091_0000071
30	6	5.00	5.00	.42	.45	1.87	2.2	2.10	2.2	.52	-.63	.43	400	1091_0000261
36	7	5.14	5.00	.43	.43	1.84	2.0	3.01	2.5	.46	-.31	.53	474	1061_0120333
36	7	5.14	5.00	.43	.43	1.58	1.4	2.55	2.1	.68	-.10	.53	668	1023_0101896
36	7	5.14	5.00	.43	.43	1.08	.3	1.00	.1	1.23	.41	.53	714	1023_0107672
36	7	5.14	5.00	.43	.43	.64	-1.0	.55	-.7	1.54	.70	.53	819	1023_0109878
36	7	5.14	5.00	.43	.43	.76	-.6	.64	-.5	1.46	.63	.53	835	1031_0001951
36	7	5.14	5.00	.43	.43	1.58	1.4	2.55	2.1	.68	-.10	.53	957	1031_0003212
36	7	5.14	5.00	.43	.43	1.58	1.4	2.55	2.1	.68	-.10	.53	999	1031_0003327
36	7	5.14	5.00	.43	.43	1.42	1.1	2.42	1.9	.78	-.01	.53	1020	1031_0003384
37	7	5.29	5.18	.62	.44	1.17	.5	1.07	.3	.62	.22	.51	450	1061_0120308
37	7	5.29	5.18	.62	.44	.73	-.6	.62	-.5	.91	.53	.51	459	1061_0120317
37	7	5.29	5.18	.62	.44	1.81	1.8	2.93	2.3	-.02	.71	.51	471	1061_0120330
37	7	5.29	5.18	.62	.44	1.49	1.2	1.54	.9	.39	-.05	.51	476	1061_0120335
37	7	5.29	5.18	.62	.44	.57	-1.1	.48	-.9	1.00	.64	.51	507	1061_0120374
37	7	5.29	5.18	.62	.44	1.81	1.8	2.93	2.3	-.02	.71	.51	530	1061_0120414
37	7	5.29	5.18	.62	.44	.57	-1.1	.48	-.9	1.00	.64	.51	533	1061_0120423
37	7	5.29	5.18	.62	.44	1.31	.8	2.39	1.9	.27	-.18	.51	539	1061_0120429
37	7	5.29	5.18	.62	.44	2.29	2.5	3.41	2.7	-.33	.49	.51	551	1061_0120449
37	7	5.29	5.18	.62	.44	1.49	1.2	1.54	.9	.39	-.05	.51	556	1061_0120457
37	7	5.29	5.18	.62	.44	1.05	.2	.96	.1	.69	.30	.51	671	1023_0101899
37	7	5.29	5.18	.62	.44	.61	-1.0	.51	-.8	.98	.61	.51	700	1023_0103843
37	7	5.29	5.18	.62	.44	.61	-1.0	.51	-.8	.98	.61	.51	716	1023_0107725
37	7	5.29	5.18	.62	.44	1.52	1.2	2.49	2.0	.19	.86	.51	744	1023_0108753
37	7	5.29	5.18	.62	.44	.57	-1.1	.48	-.9	1.00	.64	.51	760	1023_0108932
37	7	5.29	5.18	.62	.44	1.31	.8	2.39	1.9	.27	-.18	.51	770	1023_0109027
37	7	5.29	5.18	.62	.44	.57	-1.1	.48	-.9	1.00	.64	.51	980	1031_0003240
37	7	5.29	5.18	.62	.44	.57	-1.1	.48	-.9	1.00	.64	.51	1006	1031_0003352
31	6	5.17	5.19	.62	.45	.65	-.9	.60	-.9	.86	.63	.43	307	1091_0000154
31	6	5.17	5.19	.62	.45	1.29	.8	1.28	.7	.35	-.15	.43	320	1091_0000167
31	6	5.17	5.19	.62	.45	.77	-.5	.72	-.6	.76	.48	.43	321	1091_0000168
31	6	5.17	5.19	.62	.45	1.12	.4	1.12	.4	.48	.05	.43	371	1091_0000232
31	6	5.17	5.19	.62	.45	.61	-1.1	.56	-1.1	.89	.68	.43	959	1031_0003215
73	14	5.21	5.29	.74	.31	1.98	2.8	2.99	3.3	.13	-.43	.51	666	1023_0101894
38	7	5.43	5.36	.82	.45	1.96	1.8	2.80	2.2	.44	-.58	.49	632	1023_0001422
38	7	5.43	5.36	.82	.45	.66	-.7	.55	-.6	1.44	.61	.49	651	1023_0101841
38	7	5.43	5.36	.82	.45	.66	-.7	.55	-.6	1.44	.61	.49	721	1023_0107773
38	7	5.43	5.36	.82	.45	.78	-.3	.68	-.3	1.37	.53	.49	748	1023_0108812
38	7	5.43	5.36	.82	.45	.62	-.8	.52	-.7	1.46	.63	.49	765	1023_0108958
38	7	5.43	5.36	.82	.45	.66	-.7	.55	-.6	1.44	.61	.49	791	1023_0109402
38	7	5.43	5.36	.82	.45	.62	-.8	.52	-.7	1.46	.63	.49	801	1023_0109520
38	7	5.43	5.36	.82	.45	1.27	.7	1.09	.3	1.11	.22	.49	807	1023_0109590
38	7	5.43	5.36	.82	.45	.62	-.8	.52	-.7	1.46	.63	.49	828	1023_0109947
38	7	5.43	5.36	.82	.45	.66	-.7	.55	-.6	1.44	.61	.49	829	1023_0109951
38	7	5.43	5.36	.82	.45	.78	-.3	.68	-.3	1.37	.53	.49	871	1031_0002200
38	7	5.43	5.36	.82	.45	1.31	.7	1.12	.3	1.09	.19	.49	1007	1031_0003353
38	7	5.43	5.36	.82	.45	1.96	1.8	2.80	2.2	.44	-.58	.49	1013	1031_0003359
38	7	5.43	5.36	.82	.45	.78	-.3	.68	-.3	1.37	.53	.49	1021	1031_0003386
32	6	5.33	5.37	.84	.47	.84	-.2	.80	-.2	1.37	.57	.43	969	1031_0003228
62	12	5.17	5.38	.85	.32	1.55	1.8	1.84	2.1	.12	-.42	.43	217	1091_0000010
39	7	5.57	5.52	1.03	.47	2.50	2.1	3.27	2.3	-.06	.41	.47	448	1061_0120306
39	7	5.57	5.52	1.03	.47	2.50	2.1	3.27	2.3	-.06	.41	.47	520	1061_0120403
39	7	5.57	5.52	1.03	.47	1.56	1.0	1.89	1.2	.44	.88	.47	580	1061_0120497
39	7	5.57	5.52	1.03	.47	.44	-1.1	.39	-.9	1.02	.57	.47	591	1061_0120875
39	7	5.57	5.52	1.03	.47	1.56	1.0	1.89	1.2	.44	.88	.47	645	1023_0101700
39	7	5.57	5.52	1.03	.47	2.28	1.9	2.55	1.8	.11	.57	.47	652	1023_0101843
39	7	5.57	5.52	1.03	.47	1.01	.2	.85	.0	.77	.16	.47	659	1023_0101851
39	7	5.57	5.52	1.03	.47	1.60	1.1	1.93	1.3	.42	.86	.47	678	1023_0102117
39	7	5.57	5.52	1.03	.47	1.01	.2	.85	.0	.77	.16	.47	679	1023_0102118
39	7	5.57	5.52	1.03	.47	2.28	1.9	2.55	1.8	.11	.57	.47	684	1023_0103825
39	7	5.57	5.52	1.03	.47	1.56	1.0	1.89	1.2	.44	.88	.47	705	1023_0104203
33	6	5.50	5.55	1.07	.50	1.49	.9	2.07	1.4	.33	-.76	.42	229	1091_0000022
33	6	5.50	5.55	1.07	.50	.49	-.9	.45	-.7	.92	.68	.42	282	1091_0000076
78	14	5.57	5.67	1.26	.33	2.50	2.9	3.10	2.9	-.31	-.07	.47	654	1023_0101845
78	14	5.57	5.67	1.26	.33	1.89	1.9	2.37	2.2	.53	-.65	.47	658	1023_0101849
78	14	5.57	5.67	1.26	.33	1.01	.1	.93	.0	1.21	.31	.47	717	1023_0107726
78	14	5.57	5.67	1.26	.33	.67	-.8	.59	-.8	1.37	.52	.47	781	1023_0109249
40	7	5.71	5.67	1.26	.50	1.08	.3	1.07	.3	1.15	.07	.46	453	1061_0120311
40	7	5.71	5.67	1.26	.50	.98	.1	.85	.0	1.21	.18	.46	494	1061_0120357
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	500	1061_0120367
40	7	5.71	5.67	1.26	.50	.98	.1	.85	.0	1.21	.18	.46	636	1023_0101683
40	7	5.71	5.67	1.26	.50	.95	.1	.79	.0	1.22	.21	.46	643	1023_0101694
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	649	1023_0101752
40	7	5.71	5.67	1.26	.50	1.63	1.0	1.68	.9	.68	-.82	.46	656	1023_0101847
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	703	1023_0103883
40	7	5.71	5.67	1.26	.50	1.08	.3	1.07	.3	1.15	.07	.46	706	1023_0104206
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	727	1023_0107788
40	7	5.71	5.											

40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	785	1023_0109392
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	790	1023_0109401
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	793	1023_0109495
40	7	5.71	5.67	1.26	.50	1.08	.3	1.07	.3	1.15	.07	.46	806	1023_0109588
40	7	5.71	5.67	1.26	.50	3.11	2.3	2.90	1.9	.07	.02	.46	808	1023_0109591
40	7	5.71	5.67	1.26	.50	3.02	2.3	3.12	2.0	-.34	.89	.46	809	1023_0109606
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	812	1023_0109649
40	7	5.71	5.67	1.26	.50	.95	.1	.79	.0	1.22	.21	.46	814	1023_0109671
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	815	1023_0109674
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	839	1031_0002003
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	900	1031_0003095
40	7	5.71	5.67	1.26	.50	.95	.1	.79	.0	1.22	.21	.46	958	1031_0003214
40	7	5.71	5.67	1.26	.50	1.08	.3	1.07	.3	1.15	.07	.46	966	1031_0003224
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	973	1031_0003233
40	7	5.71	5.67	1.26	.50	1.08	.3	1.07	.3	1.15	.07	.46	974	1031_0003234
40	7	5.71	5.67	1.26	.50	1.08	.3	1.07	.3	1.15	.07	.46	982	1031_0003242
40	7	5.71	5.67	1.26	.50	.40	-1.0	.29	-1.0	1.43	.61	.46	1001	1031_0003331
40	7	5.71	5.67	1.26	.50	.98	.1	.85	.0	1.21	.18	.46	1029	1031_0003407
41	7	5.86	5.81	1.53	.53	4.35	2.8	4.64	2.5	-.60	.38	.46	416	1061_0012029
41	7	5.86	5.81	1.53	.53	.46	-.6	.50	-.3	.94	-.02	.46	504	1061_0120371
41	7	5.86	5.81	1.53	.53	1.98	1.2	1.93	1.1	.44	.61	.46	550	1061_0120448
41	7	5.86	5.81	1.53	.53	1.44	.7	1.17	.4	.65	.88	.46	595	1061_0120880
41	7	5.86	5.81	1.53	.53	1.44	.7	1.17	.4	.65	.88	.46	713	1023_0107244
41	7	5.86	5.81	1.53	.53	.91	.1	.86	.1	.76	.52	.46	853	1031_0002083
82	14	5.86	5.89	1.76	.37	1.72	1.3	1.50	.8	.54	.72	.45	563	1061_0120481
82	14	5.86	5.89	1.76	.37	.90	.0	.65	-.4	1.23	.74	.45	753	1023_0108886
82	14	5.86	5.89	1.76	.37	1.45	.9	1.72	1.1	.57	.52	.45	951	1031_0003191
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	462	1061_0120320
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	497	1061_0120360
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	499	1061_0120366
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	524	1061_0120407
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	597	1061_0120882
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	609	1061_1029112
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	686	1023_0103827
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	689	1023_0103830
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	697	1023_0103839
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	708	1023_0104209
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	719	1023_0107729
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	720	1023_0107740
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	723	1023_0107781
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	724	1023_0107783
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	729	1023_0108305
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	735	1023_0108510
42	7	6.00	5.92	1.83	.56	1.72	1.0	1.74	.9	.94	.67	.48	739	1023_0108648
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	741	1023_0108650
42	7	6.00	5.92	1.83	.56	1.81	1.0	2.10	1.1	.88	.58	.48	749	1023_0108813
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	756	1023_0108889
42	7	6.00	5.92	1.83	.56	1.74	1.0	1.82	.9	.92	.65	.48	759	1023_0108931
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	761	1023_0108933
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	778	1023_0109192
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	789	1023_0109400
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	796	1023_0109505
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	802	1023_0109522
42	7	6.00	5.92	1.83	.56	1.72	1.0	1.74	.9	.94	.67	.48	803	1023_0109524
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	805	1023_0109528
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	817	1023_0109717
42	7	6.00	5.92	1.83	.56	1.74	1.0	1.82	.9	.92	.65	.48	822	1023_0109891
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	830	1023_0109954
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	844	1031_0002010
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	862	1031_0002131
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	930	1031_0003163
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	934	1031_0003167
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	935	1031_0003169
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	936	1031_0003170
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	937	1031_0003172
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	946	1031_0003185
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	954	1031_0003206
42	7	6.00	5.92	1.83	.56	1.81	1.0	2.10	1.1	.88	.58	.48	960	1031_0003216
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	963	1031_0003219
42	7	6.00	5.92	1.83	.56	1.29	.6	.79	.1	1.12	.93	.48	964	1031_0003220
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	983	1031_0003243
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	989	1031_0003261
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	991	1031_0003272
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	992	1031_0003273
42	7	6.00	5.92	1.83	.56	.22	-1.2	.13	-1.1	1.40	.00	.48	1008	1031_0003354
84	14	6.00	5.99	2.05	.39	.25	-1.8	.15	-1.7	1.40	.00	.47	746	1023_0108810
84	14	6.00	5.99	2.05	.39	.81	-.1	.70	-.2	1.23	.57	.47	757	1023_0108890
84	14	6.00	5.99	2.05	.39	.25	-1.8	.15	-1.7	1.40	.00	.47	927	1031_0003160
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	648	1023_0101751
43	7	6.14	6.01	2.14	.56	2.67	1.7	2.60	1.4	.32	.67	.52	731	1023_0108307
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	794	1023_0109496
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	878	1031_0003042
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	887	1031_0003065
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	990	1031_0003262
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	994	1031_0003309
43	7	6.14	6.01	2.14	.56	2.27	1.4	1.46	.7	.57	.95	.52	1002	1031_0003336
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	1015	1031_0003366
43	7	6.14	6.01	2.14	.56	.59	-.3	.53	-.2	.91	.02	.52	1017	1031_0003368
85	14	6.07	6.03	2.20	.39	3.20	2.7	3.15	2.2	.08	-.17	.48	629	1023_0001418
86	14	6.14	6.08	2.36	.39	.25	-1.8	.15	-1.7	1.39	.61	.50	696	1023_0103838
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	557	1061_0120458
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	630	1023_0001419
44	7	6.29	6.11	2.45	.54	1.63	.9	1.98	1.1	.93	-.21	.56	631	1023_0001420
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	635	1023_0101675
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	650	1023_0101753
44	7	6.29	6.11	2.45										

44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	775	1023_0109039
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	776	1023_0109096
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	813	1023_0109651
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	846	1031_0002032
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	851	1031_0002061
44	7	6.29	6.11	2.45	.54	1.25	.5	.86	.1	1.13	.22	.56	866	1031_0002195
44	7	6.29	6.11	2.45	.54	1.25	.5	.86	.1	1.13	.22	.56	893	1031_0003077
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	895	1031_0003085
44	7	6.29	6.11	2.45	.54	1.25	.5	.86	.1	1.13	.22	.56	950	1031_0003190
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	976	1031_0003236
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	977	1031_0003237
44	7	6.29	6.11	2.45	.54	.24	-1.2	.16	-1.1	1.41	.82	.56	1010	1031_0003356
44	7	6.29	6.11	2.45	.54	1.61	.9	1.90	1.0	.94	-.18	.56	1033	1031_0003414
87	14	6.21	6.13	2.51	.39	.62	-.6	.35	-1.0	1.15	.61	.52	695	1023_0103837
87	14	6.21	6.13	2.51	.39	.62	-.6	.35	-1.0	1.15	.61	.52	816	1023_0109716
87	14	6.21	6.13	2.51	.39	1.06	.2	.99	.2	.96	.02	.52	918	1031_0003144
88	14	6.29	6.19	2.66	.38	1.24	.5	.93	.1	1.12	.21	.53	925	1031_0003156
45	7	6.43	6.22	2.73	.51	1.92	1.2	2.55	1.6	.35	-.57	.58	693	1023_0103834
45	7	6.43	6.22	2.73	.51	.76	-.1	.55	-.3	.98	.82	.58	798	1023_0109516
45	7	6.43	6.22	2.73	.51	3.57	2.5	4.68	2.7	-.29	.32	.58	825	1023_0109917
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	856	1031_0002086
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	888	1031_0003071
45	7	6.43	6.22	2.73	.51	.76	-.1	.55	-.3	.98	.82	.58	889	1031_0003072
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	894	1031_0003078
45	7	6.43	6.22	2.73	.51	1.67	1.0	1.72	.9	.56	-.16	.58	903	1031_0003099
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	904	1031_0003106
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	938	1031_0003173
45	7	6.43	6.22	2.73	.51	.76	-.1	.55	-.3	.98	.82	.58	967	1031_0003225
45	7	6.43	6.22	2.73	.51	1.73	1.1	2.30	1.4	.47	.90	.58	970	1031_0003230
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	985	1031_0003245
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	1011	1031_0003357
45	7	6.43	6.22	2.73	.51	1.25	.5	.90	.1	.76	.22	.58	1014	1031_0003365
45	7	6.43	6.22	2.73	.51	.31	-1.1	.25	-1.0	1.05	.79	.58	1024	1031_0003389
90	14	6.43	6.32	2.93	.36	.57	-.9	.45	-1.0	1.35	.70	.56	685	1023_0103826
90	14	6.43	6.32	2.93	.36	1.17	.5	1.18	.4	1.12	.33	.56	740	1023_0108649
90	14	6.43	6.32	2.93	.36	.97	.0	.82	-.1	.83	.37	.56	917	1031_0003141
46	7	6.57	6.35	2.97	.48	.96	.1	.99	.2	1.21	.50	.59	528	1061_0120411
46	7	6.57	6.35	2.97	.48	.70	-.3	.64	-.3	.61	.82	.59	634	1023_0001575
46	7	6.57	6.35	2.97	.48	.98	.1	1.06	.3	1.20	.47	.59	638	1023_0101688
46	7	6.57	6.35	2.97	.48	2.67	2.1	2.67	1.8	-.55	.52	.59	694	1023_0103836
46	7	6.57	6.35	2.97	.48	.86	.0	.78	.0	1.27	.58	.59	698	1023_0103840
46	7	6.57	6.35	2.97	.48	.70	-.3	.64	-.3	.61	.82	.59	709	1023_0106816
46	7	6.57	6.35	2.97	.48	.98	.1	1.06	.3	1.20	.47	.59	797	1023_0109515
46	7	6.57	6.35	2.97	.48	1.77	1.2	1.78	1.1	.88	.01	.59	1000	1031_0003330
91	14	6.50	6.40	3.06	.35	1.86	1.7	1.81	1.3	.67	-.10	.56	986	1031_0003246
92	14	6.57	6.48	3.18	.34	.95	.0	1.01	.1	.81	.41	.56	914	1031_0003135
47	7	6.71	6.49	3.19	.46	2.00	1.7	2.22	1.6	.26	-.30	.58	641	1023_0101691
47	7	6.71	6.49	3.19	.46	2.26	2.0	3.24	2.4	.02	-.61	.58	667	1023_0101895
47	7	6.71	6.49	3.19	.46	.37	-1.5	.31	-1.3	1.11	.84	.58	673	1023_0101901
47	7	6.71	6.49	3.19	.46	.75	-.4	.63	-.4	.93	.60	.58	728	1023_0108304
47	7	6.71	6.49	3.19	.46	.75	-.4	.63	-.4	.93	.60	.58	732	1023_0108422
47	7	6.71	6.49	3.19	.46	1.12	.4	1.11	.3	.84	.70	.58	743	1023_0108752
47	7	6.71	6.49	3.19	.46	.75	-.4	.63	-.4	.93	.60	.58	767	1023_0108993
47	7	6.71	6.49	3.19	.46	1.12	.4	1.11	.3	.84	.70	.58	774	1023_0109038
47	7	6.71	6.49	3.19	.46	4.17	3.8	5.24	3.6	-1.23	-.42	.58	777	1023_0109151
47	7	6.71	6.49	3.19	.46	1.26	.6	1.32	.6	.76	.62	.58	792	1023_0109422
47	7	6.71	6.49	3.19	.46	1.26	.6	1.32	.6	.76	.62	.58	804	1023_0109527
47	7	6.71	6.49	3.19	.46	1.49	1.0	1.69	1.1	.52	.05	.58	836	1031_0001997
47	7	6.71	6.49	3.19	.46	.37	-1.5	.31	-1.3	1.11	.84	.58	863	1031_0002184
47	7	6.71	6.49	3.19	.46	1.52	1.0	1.74	1.1	.50	.02	.58	874	1031_0003023
47	7	6.71	6.49	3.19	.46	1.52	1.0	1.74	1.1	.50	.02	.58	876	1031_0003029
47	7	6.71	6.49	3.19	.46	1.49	1.0	1.69	1.1	.52	.05	.58	877	1031_0003035
47	7	6.71	6.49	3.19	.46	1.52	1.0	1.74	1.1	.50	.02	.58	885	1031_0003054
47	7	6.71	6.49	3.19	.46	1.52	1.0	1.74	1.1	.50	.02	.58	948	1031_0003187
47	7	6.71	6.49	3.19	.46	.37	-1.5	.31	-1.3	1.11	.84	.58	953	1031_0003205
47	7	6.71	6.49	3.19	.46	1.52	1.0	1.74	1.1	.50	.02	.58	971	1031_0003231
47	7	6.71	6.49	3.19	.46	1.87	1.5	2.01	1.4	.34	-.19	.58	987	1031_0003249
47	7	6.71	6.49	3.19	.46	.85	-.1	.79	-.1	.87	.52	.58	993	1031_0003274
47	7	6.71	6.49	3.19	.46	.37	-1.5	.31	-1.3	1.11	.84	.58	995	1031_0003310
47	7	6.71	6.49	3.19	.46	1.87	1.5	2.01	1.4	.34	-.19	.58	998	1031_0003315
47	7	6.71	6.49	3.19	.46	.75	-.3	.79	-.1	1.02	.88	.58	1005	1031_0003339
47	7	6.71	6.49	3.19	.46	1.49	1.0	1.69	1.1	.52	.05	.58	1009	1031_0003355
47	7	6.71	6.49	3.19	.46	1.49	1.0	1.69	1.1	.52	.05	.58	1019	1031_0003383
47	7	6.71	6.49	3.19	.46	1.39	.8	1.53	.9	.58	.13	.58	1023	1031_0003388
47	7	6.71	6.49	3.19	.46	.37	-1.5	.31	-1.3	1.11	.84	.58	1032	1031_0003410
47	7	6.71	6.49	3.19	.46	.37	-1.5	.31	-1.3	1.11	.84	.58	1035	1031_0003419
93	14	6.64	6.57	3.29	.33	.66	-.9	.75	-.4	1.15	.64	.56	820	1023_0109880
48	7	6.86	6.65	3.39	.44	.60	-.9	.50	-.8	1.51	.75	.57	855	1031_0002085
48	7	6.86	6.65	3.39	.44	1.62	1.4	2.10	1.6	.83	.02	.57	858	1031_0002088
48	7	6.86	6.65	3.39	.44	1.62	1.4	2.10	1.6	.83	.02	.57	860	1031_0002091
48	7	6.86	6.65	3.39	.44	.60	-.9	.50	-.8	1.51	.75	.57	865	1031_0002187
48	7	6.86	6.65	3.39	.44	1.48	1.1	1.94	1.4	.92	.12	.57	872	1031_0003012
48	7	6.86	6.65	3.39	.44	1.59	1.3	2.06	1.6	.85	.05	.57	884	1031_0003053
48	7	6.86	6.65	3.39	.44	.60	-.9	.50	-.8	1.51	.75	.57	978	1031_0003238
48	7	6.86	6.65	3.39	.44	1.59	1.3	2.06	1.6	.85	.05	.57	1003	1031_0003337
48	7	6.86	6.65	3.39	.44	.60	-.9	.77	-.2	.64	.91	.57	1025	1031_0003390
94	14	6.71	6.66	3.40	.32	1.99	2.3	2.40	2.3	.30	.00	.56	665	1023_0101893
95	14	6.79	6.75	3.50	.32	1.75	2.0	2.14	2.1	.56	-.05	.56	909	1031_0003129
49	7	7.00	6.82	3.58	.43	2.36	2.8	2.44	2.0	-.06	-.06	.55	628	1023_0001416
49	7	7.00	6.82	3.58	.43	1.38	1.0	2.26	1.8	.39	-.01	.55	642	1023_0101693
49	7	7.00	6.82	3.58	.43	1.90	2.0	3.12	2.7	-.01	-.44	.55	670	1023_0101898
49	7	7.00	6.82	3.58	.43	.65	-.9	.57	-.7	1.00	.64	.55	676	1023_0101907
49	7	7.00	6.82	3.58	.43	1.81	1.9	1.90	1.4	-.55	.50	.55	699	1023_0103841
49	7	7.00	6.82	3.58	.43	1.53	1.3	2.40	2.0	.30	-.11	.55	704	1023_0103955
49	7	7.00	6.82	3.58	.43	1.41	1.1	2.30	1.9	.37	-.03	.55	711	1023_0107074
49														

49	7	7.00	6.82	3.58	.43	.62	-1.0	.53	-.8	1.03	.66	.55	1028	1031_0003393
96	14	6.86	6.84	3.60	.31	1.74	2.1	2.34	2.4	.28	-.14	.55	924	1031_0003155
97	14	6.93	6.93	3.70	.31	1.89	2.5	2.58	2.8	.40	-.18	.55	923	1031_0003154
50	7	7.14	7.00	3.76	.43	.87	-.2	1.11	.3	.51	.78	.54	682	1023_0103823
50	7	7.14	7.00	3.76	.43	1.15	.5	1.43	.8	.32	.61	.54	764	1023_0108955
50	7	7.14	7.00	3.76	.43	.74	-.6	.62	-.6	1.49	.63	.54	833	1031_0001949
50	7	7.14	7.00	3.76	.43	.78	-.5	.65	-.5	1.47	.60	.54	854	1031_0002084
50	7	7.14	7.00	3.76	.43	1.99	2.3	3.39	2.9	.43	-.40	.54	868	1031_0002197
50	7	7.14	7.00	3.76	.43	.74	-.6	.62	-.6	1.49	.63	.54	869	1031_0002198
50	7	7.14	7.00	3.76	.43	.83	-.3	1.08	.3	.54	.80	.54	891	1031_0003074
50	7	7.14	7.00	3.76	.43	1.26	.7	1.66	1.1	.22	.53	.54	905	1031_0003121
50	7	7.14	7.00	3.76	.43	1.41	1.1	2.68	2.3	.84	-.01	.54	906	1031_0003126
50	7	7.14	7.00	3.76	.43	.74	-.6	.62	-.6	1.49	.63	.54	962	1031_0003218
50	7	7.14	7.00	3.76	.43	.74	-.6	.62	-.6	1.49	.63	.54	975	1031_0003235
50	7	7.14	7.00	3.76	.43	1.41	1.1	2.68	2.3	.84	-.01	.54	1022	1031_0003387
98	14	7.00	7.03	3.79	.31	.77	-.8	.67	-.8	.93	.57	.54	916	1031_0003140
99	14	7.07	7.12	3.89	.31	1.51	1.7	2.57	2.9	.55	-.03	.53	912	1031_0003132
51	7	7.29	7.18	3.95	.43	1.20	.6	1.08	.3	.66	.19	.52	647	1023_0101749
51	7	7.29	7.18	3.95	.43	2.42	2.8	2.66	2.2	-.91	.18	.52	718	1023_0107727
51	7	7.29	7.18	3.95	.43	.56	-1.2	.46	-1.0	1.07	.64	.52	821	1023_0109890
51	7	7.29	7.18	3.95	.43	1.30	.8	2.96	2.5	.33	-.18	.52	841	1031_0002005
51	7	7.29	7.18	3.95	.43	.56	-1.2	.46	-1.0	1.07	.64	.52	949	1031_0003189
100	14	7.14	7.21	3.98	.31	1.59	1.9	2.52	2.8	.78	-.03	.52	911	1031_0003131
101	14	7.21	7.30	4.08	.31	1.21	.8	1.18	.5	.90	.27	.51	922	1031_0003150
52	7	7.43	7.36	4.14	.45	1.83	1.7	1.50	.9	-.09	.09	.49	826	1023_0109945
52	7	7.43	7.36	4.14	.45	.77	-.4	.65	-.4	1.44	.53	.49	834	1031_0001950
52	7	7.43	7.36	4.14	.45	1.29	.7	3.24	2.6	.83	-.17	.49	840	1031_0002004
52	7	7.43	7.36	4.14	.45	.77	-.4	.65	-.4	1.44	.53	.49	849	1031_0002042
52	7	7.43	7.36	4.14	.45	1.29	.7	3.24	2.6	.83	-.17	.49	857	1031_0002087
52	7	7.43	7.36	4.14	.45	.77	-.4	.65	-.4	1.44	.53	.49	859	1031_0002089
52	7	7.43	7.36	4.14	.45	.77	-.4	.65	-.4	1.44	.53	.49	864	1031_0002185
52	7	7.43	7.36	4.14	.45	1.31	.7	1.09	.3	1.15	.19	.49	867	1031_0002196
52	7	7.43	7.36	4.14	.45	.65	-.8	.53	-.7	1.51	.61	.49	870	1031_0002199
52	7	7.43	7.36	4.14	.45	.77	-.4	.65	-.4	1.44	.53	.49	883	1031_0003052
52	7	7.43	7.36	4.14	.45	.65	-.8	.53	-.7	1.51	.61	.49	897	1031_0003090
52	7	7.43	7.36	4.14	.45	.65	-.8	.53	-.7	1.51	.61	.49	931	1031_0003164
52	7	7.43	7.36	4.14	.45	1.79	1.6	3.65	2.9	.56	-.47	.49	939	1031_0003174
52	7	7.43	7.36	4.14	.45	.84	-.2	1.11	.3	.62	.79	.49	947	1031_0003186
52	7	7.43	7.36	4.14	.45	1.29	.7	3.24	2.6	.83	-.17	.49	997	1031_0003314
52	7	7.43	7.36	4.14	.45	1.31	.7	1.09	.3	1.15	.19	.49	1016	1031_0003367
52	7	7.43	7.36	4.14	.45	.61	-.9	.50	-.8	1.53	.63	.49	1018	1031_0003369
52	7	7.43	7.36	4.14	.45	1.29	.7	3.24	2.6	.83	-.17	.49	1027	1031_0003392
103	14	7.36	7.46	4.27	.32	.77	-.7	.66	-.8	1.19	.53	.49	919	1031_0003145
53	7	7.57	7.53	4.36	.47	.44	-1.2	.37	-1.0	1.08	.57	.46	677	1023_0101909
53	7	7.57	7.53	4.36	.47	.91	.0	1.10	.3	1.12	.81	.46	738	1023_0108641
53	7	7.57	7.53	4.36	.47	1.06	.2	1.30	.6	1.03	.72	.46	845	1031_0002011
53	7	7.57	7.53	4.36	.47	.44	-1.2	.37	-1.0	1.08	.57	.46	942	1031_0003181
104	14	7.43	7.54	4.37	.32	.90	-.2	.79	-.3	1.35	.45	.48	915	1031_0003136
106	14	7.57	7.69	4.59	.34	1.20	.6	1.11	.3	1.18	.19	.46	908	1031_0003128
54	7	7.71	7.69	4.60	.51	1.14	.4	1.05	.3	1.20	.07	.43	832	1031_0001703
54	7	7.71	7.69	4.60	.51	.40	-1.1	.27	-1.1	1.52	.61	.43	850	1031_0002043
54	7	7.71	7.69	4.60	.51	1.14	.4	1.05	.3	1.20	.07	.43	861	1031_0002092
54	7	7.71	7.69	4.60	.51	1.14	.4	1.05	.3	1.20	.07	.43	892	1031_0003076
54	7	7.71	7.69	4.60	.51	.40	-1.1	.27	-1.1	1.52	.61	.43	941	1031_0003180
54	7	7.71	7.69	4.60	.51	1.00	.1	.76	-.1	1.28	.21	.43	944	1031_0003183
54	7	7.71	7.69	4.60	.51	.40	-1.1	.27	-1.1	1.52	.61	.43	961	1031_0003217
54	7	7.71	7.69	4.60	.51	1.00	.1	.76	-.1	1.28	.21	.43	984	1031_0003244
55	7	7.86	7.84	4.89	.58	2.31	1.5	2.61	1.6	-.11	.26	.40	692	1023_0103833
55	7	7.86	7.84	4.89	.58	1.42	.7	1.40	.7	.99	.52	.40	890	1031_0003073
110	14	7.86	7.93	5.13	.41	.68	-.5	.47	-.8	1.37	.22	.39	907	1031_0003127
110	14	7.86	7.93	5.13	.41	1.06	.2	1.08	.3	1.08	.64	.39	910	1031_0003130
56	7	8.00	7.98	5.28	.67	.12	-1.3	.11	-1.3	1.49	.00	.37	655	1023_0101846
56	7	8.00	7.98	5.28	.67	.12	-1.3	.11	-1.3	1.49	.00	.37	837	1031_0001998
56	7	8.00	7.98	5.28	.67	.12	-1.3	.11	-1.3	1.49	.00	.37	882	1031_0003048
56	7	8.00	7.98	5.28	.67	.12	-1.3	.11	-1.3	1.49	.00	.37	896	1031_0003088
56	7	8.00	7.98	5.28	.67	.12	-1.3	.11	-1.3	1.49	.00	.37	945	1031_0003184
56	7	8.00	7.98	5.28	.67	.12	-1.3	.11	-1.3	1.49	.00	.37	955	1031_0003207
111	14	7.93	7.98	5.31	.44	.93	.0	.63	-.4	1.14	.18	.37	773	1023_0109033
112	14	8.00	8.04	5.52	.47	1.03	.2	.81	.0	1.01	.32	.36	913	1031_0003133
113	14	8.07	8.09	5.76	.51	.42	-.9	.40	-.9	1.28	-.20	.35	926	1031_0003157
57	7	8.14	8.10	5.81	.77	.70	.0	.75	.0	1.11	-.21	.36	701	1023_0103844
57	7	8.14	8.10	5.81	.77	.69	.0	.75	.0	1.12	-.18	.36	842	1031_0002006
57	7	8.14	8.10	5.81	.77	.24	-.8	.24	-.9	1.47	.82	.36	847	1031_0002036
57	7	8.14	8.10	5.81	.77	.24	-.8	.24	-.9	1.47	.82	.36	873	1031_0003013
57	7	8.14	8.10	5.81	.77	.24	-.8	.24	-.9	1.47	.82	.36	943	1031_0003182
57	7	8.14	8.10	5.81	.77	.24	-.8	.24	-.9	1.47	.82	.36	979	1031_0003239
57	7	8.14	8.10	5.81	.77	.24	-.8	.24	-.9	1.47	.82	.36	1012	1031_0003358
57	7	8.14	8.10	5.81	.77	.69	.0	.75	.0	1.12	-.18	.36	1034	1031_0003415
115	14	8.21	8.21	6.34	.56	.75	-.2	.77	-.2	1.15	.18	.35	920	1031_0003146
58	7	8.29	8.23	6.44	.80	.69	-.2	.71	-.2	1.30	.50	.37	848	1031_0002040
58	7	8.29	8.23	6.44	.80	1.01	.2	1.00	.2	.97	.04	.37	886	1031_0003063
58	7	8.29	8.23	6.44	.80	.92	.0	.88	.0	1.08	.19	.37	902	1031_0003098
58	7	8.29	8.23	6.44	.80	1.22	.5	1.25	.5	.72	-.30	.37	1031	1031_0003409
59	7	8.43	8.37	7.06	.78	1.14	.4	1.18	.5	.68	.02	.36	852	1031_0002079
59	7	8.43	8.37	7.06	.78	.75	-.5	.73	-.5	1.55	.59	.36	879	1031_0003043
60	7	8.57	8.53	7.67	.79	.75	-.7	.71	-.7	1.80	.63	.34	875	1031_0003028
62	7	8.86	8.85	9.27	1.10	1.02	.2	.85	.1	1.01	.21	.23	880	1031_0003044
63	7	9.00	8.96	(10.61 1.88)	Maximum						.00	.00	843	1031_0002007
63	7	9.00	8.96	(10.61 1.88)	Maximum						.00	.00	881	1031_0003045

Appendix 3: Fair Average Italian Examinees

Total Score	Total Count	Obsv'd Average	Fair-M Average	Measure	Model S.E.	Infit MnSq ZStd	Outfit MnSq ZStd	Estim. Discrm	Correlation PtMea PtExp	Num examinee
0	7	.00	.07	(-17.24	2.01)	Minimum			.00 .00	177 1385_0001743
0	7	.00	.07	(-17.24	2.01)	Minimum			.00 .00	179 1385_0001745
0	7	.00	.07	(-17.24	2.01)	Minimum			.00 .00	207 1385_0001769
0	7	.00	.07	(-17.24	2.01)	Minimum			.00 .00	345 1395_0000590
0	7	.00	.07	(-17.24	2.01)	Minimum			.00 .00	356 1395_0000605
0	7	.00	.07	(-17.24	2.01)	Minimum			.00 .00	372 1395_0000637
0	7	.00	.07	(-17.24	2.01)	Minimum			.00 .00	373 1395_0000638
4	7	.57	.89	-12.61	.86	1.14 .5	1.07 .3	.74	.35 .52	178 1385_0001744
5	7	.71	.95	-11.85	.90	1.45 1.0	1.28 .6	.46	.09 .46	146 1385_0001526
5	7	.71	.95	-11.85	.90	.95 .0	.75 -.1	1.16	.41 .46	172 1385_0001738
5	7	.71	.95	-11.85	.90	.99 .1	.92 .1	1.04	.36 .46	176 1385_0001742
5	7	.71	.95	-11.85	.90	.48 -1.3	.39 -.8	1.75	.68 .46	201 1385_0001765
8	7	1.14	.99	-11.11	1.20	.22 -1.0	.12 -.8	1.43	.86 .60	50 1385_0000120
6	7	.86	1.00	-10.94	1.03	1.18 .4	1.51 .8	.80	-.04 .40	184 1385_0001750
9	7	1.29	1.06	-9.92	.99	1.12 .3	1.70 .9	.77	.37 .61	80 1385_0001126
9	7	1.29	1.06	-9.92	.99	.74 -.2	.56 -.3	1.29	.69 .61	249 1395_0000368
7	7	1.00	1.08	-9.64	1.25	.17 -1.0	.10 -.8	1.41	.00 .44	123 1385_0001173
7	7	1.00	1.08	-9.64	1.25	4.79 2.4	5.26 2.1	-.88	.82 .44	126 1385_0001178
7	7	1.00	1.08	-9.64	1.25	.17 -1.0	.10 -.8	1.41	.00 .44	158 1385_0001723
7	7	1.00	1.08	-9.64	1.25	.17 -1.0	.10 -.8	1.41	.00 .44	344 1395_0000587
7	7	1.00	1.08	-9.64	1.25	.17 -1.0	.10 -.8	1.41	.00 .44	346 1395_0000591
7	7	1.00	1.08	-9.64	1.25	.17 -1.0	.10 -.8	1.41	.00 .44	446 1395_0001146
10	7	1.43	1.14	-9.07	.88	1.22 .6	1.20 .5	.65	.36 .57	1 1385_0000011
11	7	1.57	1.26	-8.32	.86	1.11 .4	.98 .2	.84	.39 .52	82 1385_0001128
11	7	1.57	1.26	-8.32	.86	1.11 .4	.98 .2	.84	.39 .52	258 1395_0000389
7	6	1.17	1.31	-8.09	1.25	3.34 1.9	3.62 1.7	-.98	.50 .61	199 1385_0001763
8	7	1.14	1.32	-8.06	1.20	.22 -1.0	.12 -.8	1.43	.86 .60	157 1385_0001720
8	7	1.14	1.32	-8.06	1.20	.22 -1.0	.12 -.8	1.43	.86 .60	162 1385_0001727
8	7	1.14	1.32	-8.06	1.20	.22 -1.0	.12 -.8	1.43	.86 .60	175 1385_0001741
8	7	1.14	1.32	-8.06	1.20	.22 -1.0	.12 -.8	1.43	.86 .60	189 1385_0001755
8	7	1.14	1.32	-8.06	1.20	.22 -1.0	.12 -.8	1.43	.86 .60	211 1385_0001774
8	7	1.14	1.32	-8.06	1.20	2.09 1.2	3.21 1.5	.25	-.38 .60	340 1395_0000582
8	7	1.14	1.32	-8.06	1.20	1.82 1.0	1.50 .7	.65	.04 .60	342 1395_0000584
8	7	1.14	1.32	-8.06	1.20	1.82 1.0	1.50 .7	.65	.04 .60	348 1395_0000595
8	7	1.14	1.32	-8.06	1.20	.22 -1.0	.12 -.8	1.43	.86 .60	435 1395_0001121
12	7	1.71	1.43	-7.56	.90	1.19 .5	1.17 .4	.73	.23 .45	3 1385_0000013
12	7	1.71	1.43	-7.56	.90	.80 -.2	.65 .0	1.32	.49 .45	231 1395_0000337
9	7	1.29	1.60	-6.88	.99	1.12 .3	1.70 .9	.77	.37 .61	125 1385_0001175
9	7	1.29	1.60	-6.88	.99	.73 -.2	.56 -.3	1.29	.70 .61	128 1385_0001189
9	7	1.29	1.60	-6.88	.99	.73 -.2	.56 -.3	1.29	.70 .61	129 1385_0001190
9	7	1.29	1.60	-6.88	.99	1.12 .3	1.70 .9	.77	.37 .61	155 1385_0001718
9	7	1.29	1.60	-6.88	.99	1.12 .3	1.70 .9	.77	.37 .61	210 1385_0001773
9	7	1.29	1.60	-6.88	.99	.74 -.2	.56 -.3	1.29	.69 .61	215 1385_0001787
9	7	1.29	1.60	-6.88	.99	.94 .0	.90 .1	1.07	.56 .61	355 1395_0000604
9	7	1.29	1.60	-6.88	.99	2.48 1.9	3.23 2.0	-.47	-.41 .61	357 1395_0000606
9	7	1.29	1.60	-6.88	.99	.94 .0	.90 .1	1.07	.56 .61	358 1395_0000607
9	7	1.29	1.60	-6.88	.99	1.12 .3	1.70 .9	.77	.37 .61	393 1395_0001040
9	7	1.29	1.60	-6.88	.99	2.27 1.7	2.89 1.8	-.25	-.27 .61	426 1395_0001109
9	7	1.29	1.60	-6.88	.99	1.12 .3	1.70 .9	.77	.37 .61	440 1395_0001131
13	7	1.86	1.65	-6.68	.98	.95 .2	.93 .2	1.00	.15 .40	40 1385_0000099
13	7	1.86	1.65	-6.68	.98	.51 -.3	.36 -.5	1.38	.49 .40	62 1385_0001104
13	7	1.86	1.65	-6.68	.98	.51 -.3	.36 -.5	1.38	.49 .40	83 1385_0001129
13	7	1.86	1.65	-6.68	.98	.67 -.1	.49 -.3	1.27	.38 .40	237 1395_0000354
13	7	1.86	1.65	-6.68	.98	.51 -.3	.36 -.5	1.38	.49 .40	305 1395_0000527
13	7	1.86	1.65	-6.68	.98	.51 -.3	.36 -.5	1.38	.49 .40	765 1325_1001097
10	7	1.43	1.78	-6.03	.88	.98 .0	.79 -.1	1.13	.53 .57	120 1385_0001170
10	7	1.43	1.78	-6.03	.88	1.44 1.1	1.40 .7	.30	.23 .57	121 1385_0001171
10	7	1.43	1.78	-6.03	.88	1.21 .6	1.20 .5	.66	.36 .57	122 1385_0001172
10	7	1.43	1.78	-6.03	.88	1.21 .6	1.20 .5	.66	.36 .57	124 1385_0001174
10	7	1.43	1.78	-6.03	.88	1.22 .6	1.21 .5	.65	.36 .57	142 1385_0001522
10	7	1.43	1.78	-6.03	.88	1.77 1.8	1.89 1.2	-1.78	.68 .57	213 1385_0001785
10	7	1.43	1.78	-6.03	.88	1.44 1.1	1.40 .7	.30	.23 .57	223 1385_0001795
10	7	1.43	1.78	-6.03	.88	2.70 3.3	4.28 2.9	-2.34	-.72 .57	364 1395_0000612
10	7	1.43	1.78	-6.03	.88	1.21 .6	1.20 .5	.66	.36 .57	370 1395_0000635
10	7	1.43	1.78	-6.03	.88	1.21 .6	1.20 .5	.66	.36 .57	371 1395_0000636
10	7	1.43	1.78	-6.03	.88	1.21 .6	1.20 .5	.66	.36 .57	423 1395_0001104
10	7	1.43	1.78	-6.03	.88	1.21 .6	1.20 .5	.66	.36 .57	425 1395_0001108
10	7	1.43	1.78	-6.03	.88	1.44 1.1	1.40 .7	.30	.23 .57	436 1395_0001122
10	7	1.43	1.78	-6.03	.88	1.94 2.1	3.42 2.4	-1.05	-.26 .57	438 1395_0001124
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	6 1385_0000017
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	19 1385_0000040
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	37 1385_0000095
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	42 1385_0000101
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	70 1385_0001113
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	84 1385_0001130
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	112 1385_0001162
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	114 1385_0001164
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	228 1385_0001800
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	259 1395_0000390
14	7	2.00	1.83	-5.73	.92	.26 -.9	.13 -.5	1.45	.00 .50	301 1395_0000516
11	7	1.57	1.88	-5.28	.86	.82 -.4	.72 .0	1.39	.56 .52	140 1385_0001501
11	7	1.57	1.88	-5.28	.86	1.25 .7	3.57 2.1	-.37	.01 .52	181 1385_0001747
11	7	1.57	1.88	-5.28	.86	1.04 .2	.91 .1	.98	.43 .52	196 1385_0001761
11	7	1.57	1.88	-5.28	.86	1.04 .2	.91 .1	.98	.43 .52	204 1385_0001767
11	7	1.57	1.88	-5.28	.86	1.72 1.8	1.59 .8	-.36	.02 .52	219 1385_0001791
11	7	1.57	1.88	-5.28	.86	1.33 .9	1.16 .4	.44	.26 .52	221 1385_0001793
11	7	1.57	1.88	-5.28	.86	1.75 1.8	4.01 2.3	-1.33	-.28 .52	347 1395_0000593
11	7	1.57	1.88	-5.28	.86	1.04 .2	.91 .1	.98	.43 .52	367 1395_0000628
11	7	1.57	1.88	-5.28	.86	.76 -.6	.65 -.1	1.53	.60 .52	374 1395_0000639
11	7	1.57	1.88	-5.28	.86	.76 -.6	.65 -.1	1.53	.60 .52	404 1395_0001068
11	7	1.57	1.88	-5.28	.86	1.04 .2	.91 .1	.98	.43 .52	432 1395_0001118
15	7	2.14	1.92	-4.94	.89	1.23 .5	1.88 .9	.70	.89 .69	16 1385_0000037
15	7	2.14	1.92	-4.94	.89	1.84 1.2	2.62 1.2	.21	.09 .69	58 1385_0000128
15	7	2.14	1.92	-4.94	.89	1.84 1.2	2.62 1.2	.21	.09 .69	338 1395_0000579
12	7	1.71	1.95	-4.52	.90	1.49 1.0	3.03 1.6	-.58	-.37 .45	9 1385_0000022
12	7	1.71	1.95	-4.52	.90	.80 -.2	.65 .0	1.32	.49 .45	144 1385_0001524
12	7	1.71	1.95	-4.52	.90	1.14 .4	1.05 .3	.83	.27 .45	151 1385_0001714

12	7	1.71	1.95	-4.52	.90	1.14	.4	1.04	.3	.83	.27	.45	152	1385_0001715
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	166	1385_0001732
12	7	1.71	1.95	-4.52	.90	.95	.0	.76	.0	1.14	.41	.45	173	1385_0001739
12	7	1.71	1.95	-4.52	.90	.49	-1.1	.39	-.4	1.73	.68	.45	183	1385_0001749
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	185	1385_0001751
12	7	1.71	1.95	-4.52	.90	.95	.0	.76	.0	1.14	.41	.45	186	1385_0001752
12	7	1.71	1.95	-4.52	.90	.49	-1.1	.39	-.4	1.73	.68	.45	188	1385_0001754
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	193	1385_0001758
12	7	1.71	1.95	-4.52	.90	1.46	.9	1.29	.6	.43	.09	.45	194	1385_0001759
12	7	1.71	1.95	-4.52	.90	1.49	1.0	3.03	1.6	-.58	-.37	.45	195	1385_0001760
12	7	1.71	1.95	-4.52	.90	.80	-.2	.65	.0	1.32	.49	.45	200	1385_0001764
12	7	1.71	1.95	-4.52	.90	.80	-.2	.65	.0	1.32	.49	.45	208	1385_0001771
12	7	1.71	1.95	-4.52	.90	.95	.0	.76	.0	1.14	.41	.45	209	1385_0001772
12	7	1.71	1.95	-4.52	.90	.49	-1.1	.39	-.4	1.73	.68	.45	216	1385_0001788
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	343	1395_0000585
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	359	1395_0000608
12	7	1.71	1.95	-4.52	.90	.95	.0	.76	.0	1.14	.41	.45	360	1395_0000609
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	363	1395_0000611
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	368	1395_0000630
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	369	1395_0000631
12	7	1.71	1.95	-4.52	.90	.80	-.2	.65	.0	1.32	.49	.45	375	1395_0000642
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	403	1395_0001067
12	7	1.71	1.95	-4.52	.90	.99	.1	.93	.2	1.02	.36	.45	412	1395_0001075
12	7	1.71	1.95	-4.52	.90	1.46	.9	1.29	.6	.43	.09	.45	413	1395_0001076
12	7	1.71	1.95	-4.52	.90	5.00	4.5	9.00	4.0	-2.59	.76	.45	414	1395_0001078
12	7	1.71	1.95	-4.52	.90	1.00	.1	.94	.2	1.01	.35	.45	427	1395_0001114
12	7	1.71	1.95	-4.52	.90	.49	-1.1	.39	-.4	1.73	.68	.45	437	1395_0001123
12	7	1.71	1.95	-4.52	.90	.80	-.2	.65	.0	1.32	.49	.45	448	1395_0001149
12	7	1.71	1.95	-4.52	.90	1.00	.1	.94	.2	1.01	.35	.45	449	1395_0001150
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	14	1385_0000036
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	18	1385_0000039
16	7	2.29	1.97	-4.06	.97	6.81	2.2	9.00	3.0	-.28	-.38	.79	33	1385_0000057
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	52	1385_0000123
16	7	2.29	1.97	-4.06	.97	6.45	2.2	4.84	1.7	.25	.03	.79	78	1385_0001124
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	85	1385_0001131
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	88	1385_0001134
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	89	1385_0001135
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	92	1385_0001138
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	236	1395_0000353
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	240	1395_0000356
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	289	1395_0000465
16	7	2.29	1.97	-4.06	.97	.07	-.6	.04	-.5	1.31	.86	.79	304	1395_0000526
13	7	1.86	1.99	-3.63	.98	.67	-.1	.49	-.3	1.27	.38	.40	131	1385_0001192
13	7	1.86	1.99	-3.63	.98	.95	.2	.93	.2	1.00	.15	.40	156	1385_0001719
13	7	1.86	1.99	-3.63	.98	.51	-.3	.36	-.5	1.38	.49	.40	160	1385_0001725
13	7	1.86	1.99	-3.63	.98	.67	-.1	.49	-.3	1.27	.38	.40	161	1385_0001726
13	7	1.86	1.99	-3.63	.98	.95	.2	.93	.2	1.00	.15	.40	180	1385_0001746
13	7	1.86	1.99	-3.63	.98	.95	.2	.93	.2	1.00	.15	.40	220	1385_0001792
13	7	1.86	1.99	-3.63	.98	.95	.2	.93	.2	1.00	.15	.40	222	1385_0001794
13	7	1.86	1.99	-3.63	.98	1.08	.3	1.53	.7	.80	-.03	.40	352	1395_0000598
13	7	1.86	1.99	-3.63	.98	5.43	2.8	5.29	2.6	-.95	.80	.40	384	1395_0001019
13	7	1.86	1.99	-3.63	.98	.51	-.3	.36	-.5	1.38	.49	.40	401	1395_0001065
13	7	1.86	1.99	-3.63	.98	.51	-.3	.36	-.5	1.38	.49	.40	402	1395_0001066
13	7	1.86	1.99	-3.63	.98	.51	-.3	.36	-.5	1.38	.49	.40	422	1395_0001103
13	7	1.86	1.99	-3.63	.98	.51	-.3	.36	-.5	1.38	.49	.40	424	1365_100102
13	7	1.86	1.99	-3.63	.98	.51	-.3	.36	-.5	1.38	.49	.40	431	1395_0001117
13	7	1.86	1.99	-3.63	.98	.51	-.3	.36	-.5	1.38	.49	.40	434	1395_0001120
13	7	1.86	1.99	-3.63	.98	.95	.2	.93	.2	1.00	.15	.40	442	1395_0001133
17	7	2.43	2.00	-3.33	.73	4.34	2.1	5.53	1.9	-.28	-.10	.78	4	1385_0000016
17	7	2.43	2.00	-3.33	.73	3.99	2.0	3.50	1.5	-.06	.08	.78	11	1385_0000033
17	7	2.43	2.00	-3.33	.73	4.51	2.2	9.00	2.9	-.56	-.33	.78	30	1385_0000052
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	86	1385_0001132
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	90	1385_0001136
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	93	1385_0001147
17	7	2.43	2.00	-3.33	.73	4.51	2.2	9.00	2.9	-.56	-.33	.78	109	1385_0001159
17	7	2.43	2.00	-3.33	.73	4.34	2.1	5.53	1.9	-.28	-.10	.78	113	1385_0001163
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	118	1385_0001169
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	280	1395_0000450
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	282	1395_0000452
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	287	1395_0000460
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	313	1395_0000535
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	327	1395_0000556
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	336	1395_0000572
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	337	1395_0000575
17	7	2.43	2.00	-3.33	.73	4.51	2.2	9.00	2.9	-.56	-.33	.78	488	1365_100029
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	500	1365_100065
17	7	2.43	2.00	-3.33	.73	.30	-.5	.17	-.3	.93	.87	.78	653	1365_100280
18	7	2.57	2.03	-2.91	.58	1.42	.7	1.65	.8	.99	.56	.75	2	1385_0000012
18	7	2.57	2.03	-2.91	.58	1.42	.7	1.65	.8	.99	.56	.75	10	1385_0000023
18	7	2.57	2.03	-2.91	.58	1.02	.2	.63	.1	1.23	.69	.75	79	1385_0001125
18	7	2.57	2.03	-2.91	.58	3.23	2.3	3.22	1.5	.13	.05	.75	253	1395_0000379
18	7	2.57	2.03	-2.91	.58	1.02	.2	.63	.1	1.23	.69	.75	295	1395_0000500
18	7	2.57	2.03	-2.91	.58	3.04	2.2	3.06	1.4	.20	.10	.75	339	1395_0000581
18	7	2.57	2.03	-2.91	.58	1.63	1.0	5.95	2.2	.67	.37	.75	596	1365_100193
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	150	1385_0001712
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	187	1385_0001753
14	7	2.00	2.05	-2.69	.92	3.54	2.0	5.15	2.0	-.46	.69	.50	212	1385_0001775
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	225	1385_0001798
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	341	1395_0000583
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	351	1395_0000597
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	353	1395_0000599
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	354	1395_0000602
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	366	1395_0000627
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	385	1395_0001020
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	411	1395_0001074
14	7	2.00	2.05	-2.69	.92	.26	-.9	.13	-.5	1.45	.00	.50	439	1395_0001126
14	7	2.00	2.05	-2.69	.92	4.90	2.6							

19	7	2.71	2.05	-2.61	.52	.63	-.7	.42	-.3	.97	.75	.74	41	1385_0000100
19	7	2.71	2.05	-2.61	.52	.63	-.7	.42	-.3	.97	.75	.74	44	1385_0000103
19	7	2.71	2.05	-2.61	.52	1.06	.2	1.05	.4	.70	.61	.74	51	1385_0000122
19	7	2.71	2.05	-2.61	.52	1.06	.2	1.05	.4	.70	.61	.74	56	1385_0000126
19	7	2.71	2.05	-2.61	.52	1.06	.2	1.05	.4	.70	.61	.74	63	1385_0001105
19	7	2.71	2.05	-2.61	.52	.63	-.7	.42	-.3	.97	.75	.74	91	1385_0001137
19	7	2.71	2.05	-2.61	.52	1.31	.7	3.83	1.8	.35	.42	.74	106	1385_0001157
19	7	2.71	2.05	-2.61	.52	1.31	.7	3.83	1.8	.35	.42	.74	107	1385_0001158
19	7	2.71	2.05	-2.61	.52	5.25	4.7	6.03	2.5	-2.41	-.12	.74	110	1385_0001160
19	7	2.71	2.05	-2.61	.52	.63	-.7	.42	-.3	.97	.75	.74	190	1385_0001756
19	7	2.71	2.05	-2.61	.52	.63	-.7	.42	-.3	.97	.75	.74	197	1385_0001762
19	7	2.71	2.05	-2.61	.52	.61	-.7	.41	-.3	.98	.75	.74	226	1385_0001799
19	7	2.71	2.05	-2.61	.52	1.06	.2	1.05	.4	.70	.61	.74	230	1395_0000333
19	7	2.71	2.05	-2.61	.52	.61	-.7	.41	-.3	.98	.75	.74	266	1395_0000402
19	7	2.71	2.05	-2.61	.52	.61	-.7	.41	-.3	.98	.75	.74	272	1395_0000415
19	7	2.71	2.05	-2.61	.52	.61	-.7	.41	-.3	.98	.75	.74	290	1395_0000469
19	7	2.71	2.05	-2.61	.52	.61	-.7	.41	-.3	.98	.75	.74	294	1395_0000499
19	7	2.71	2.05	-2.61	.52	1.31	.7	3.83	1.8	.35	.42	.74	326	1395_0000555
19	7	2.71	2.05	-2.61	.52	.61	-.7	.41	-.3	.98	.75	.74	334	1395_0000564
19	7	2.71	2.05	-2.61	.52	.63	-.7	.42	-.3	.97	.75	.74	335	1395_0000565
19	7	2.71	2.05	-2.61	.52	.61	-.7	.41	-.3	.98	.75	.74	420	1395_0001101
19	7	2.71	2.05	-2.61	.52	2.22	2.0	2.37	1.2	-.26	.09	.74	467	1365_100010
20	7	2.86	2.09	-2.36	.48	1.37	.9	1.09	.4	1.09	.53	.73	61	1385_0001103
20	7	2.86	2.09	-2.36	.48	.73	-.5	.52	-.3	1.47	.70	.73	464	1365_100007
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	7	1385_0000020
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	20	1385_0000041
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	21	1385_0000042
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	22	1385_0000043
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	26	1385_0000048
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	27	1385_0000049
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	28	1385_0000050
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	34	1385_0000058
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	39	1385_0000098
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	43	1385_0000102
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	48	1385_0000119
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	54	1385_0000125
21	7	3.00	2.13	-2.13	.47	.96	.0	.77	.0	.82	.60	.73	65	1385_0001108
21	7	3.00	2.13	-2.13	.47	.96	.0	.77	.0	.82	.60	.73	66	1385_0001109
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	71	1385_0001118
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	72	1385_0001119
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	73	1385_0001120
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	74	1385_0001121
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	75	1385_0001122
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	98	1385_0001150
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	103	1385_0001154
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	104	1385_0001155
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	105	1385_0001156
21	7	3.00	2.13	-2.13	.47	1.81	1.7	2.43	1.6	.15	.29	.73	111	1385_0001161
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	147	1385_0001527
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	205	1385_0001768
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	234	1395_0000341
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	246	1395_0000364
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	252	1395_0000378
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	265	1395_0000399
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	278	1395_0000448
21	7	3.00	2.13	-2.13	.47	.96	.0	.77	.0	.82	.60	.73	286	1395_0000458
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	291	1395_0000470
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	296	1395_0000504
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	408	1395_0001071
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	443	1395_0001141
21	7	3.00	2.13	-2.13	.47	.81	-.3	1.43	.7	.42	.74	.73	492	1365_100051
21	7	3.00	2.13	-2.13	.47	.47	-1.4	.38	-.8	1.12	.74	.73	564	1365_100167
16	5	3.20	2.16	-1.99	.53	.53	-1.1	.46	-.6	1.68	.69	.77	794	1325_1001137
22	7	3.14	2.18	-1.92	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	232	1395_0000338
22	7	3.14	2.18	-1.92	.46	.94	.0	.77	-.1	1.36	.60	.74	263	1395_0000396
22	7	3.14	2.18	-1.92	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	277	1395_0000447
22	7	3.14	2.18	-1.92	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	285	1395_0000455
22	7	3.14	2.18	-1.92	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	293	1395_0000471
22	7	3.14	2.18	-1.92	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	314	1395_0000537
22	7	3.14	2.18	-1.92	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	319	1395_0000550
15	7	2.14	2.19	-1.90	.89	1.30	.6	3.18	1.3	.49	.79	.69	116	1385_0001166
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	117	1385_0001167
15	7	2.14	2.19	-1.90	.89	1.35	.6	3.04	1.3	.34	.71	.69	127	1385_0001188
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	136	1385_0001196
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	137	1385_0001197
15	7	2.14	2.19	-1.90	.89	1.23	.5	1.88	.9	.70	.89	.69	139	1385_0001199
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	163	1385_0001728
15	7	2.14	2.19	-1.90	.89	4.92	3.3	9.00	2.9	-.95	.08	.69	167	1385_0001733
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	168	1385_0001734
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	377	1395_0000646
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	381	1395_0001015
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	383	1395_0001017
15	7	2.14	2.19	-1.90	.89	1.23	.5	1.88	.9	.70	.89	.69	388	1395_0001023
15	7	2.14	2.19	-1.90	.89	4.88	3.2	9.00	2.8	-.73	.19	.69	389	1395_0001024
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	392	1395_0001034
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	417	1395_0001084
15	7	2.14	2.19	-1.90	.89	1.19	.4	1.37	.8	.79	.93	.69	419	1395_0001093
23	7	3.29	2.26	-1.70	.46	1.57	1.1	1.61	1.0	.44	.33	.75	36	1385_0000059
23	7	3.29	2.26	-1.70	.46	.58	-.9	.51	-.8	1.05	.66	.75	45	1385_0000104
23	7	3.29	2.26	-1.70	.46	.58	-.9	.51	-.8	1.05	.66	.75	57	1385_0000127
23	7	3.29	2.26	-1.70	.46	1.57	1.1	1.61	1.0	.44	.33	.75	59	1385_0000129
23	7	3.29	2.26	-1.70	.46	1.57	1.1	1.61	1.0	.44	.33	.75	60	1385_0000130
23	7	3.29	2.26	-1.70	.46	1.57	1.1	1.61	1.0	.44	.33	.75	64	1385_0001107
23	7	3.29	2.26	-1.70	.46	.58	-.9	.51	-.8	1.05	.66	.75	67	1385_0001110
23	7	3.29	2.26	-1.70	.46	.58	-.9	.51	-.8	1.05	.66	.75	77	1385_0001123
23	7	3.29	2.26	-1.70	.46	.58	-.9	.51	-.8	1.05	.66	.75	87	1385_0001133

24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	238	1395_0000355
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	270	1395_0000413
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	271	1395_0000414
24	7	3.43	2.36	-1.49	.47	1.50	1.0	1.48	.9	1.00	.36	.76	281	1395_0000451
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	312	1395_0000534
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	317	1395_0000548
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	318	1395_0000549
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	322	1395_0000553
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	329	1395_0000558
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	330	1395_0000559
24	7	3.43	2.36	-1.49	.47	1.10	.3	.96	.1	1.24	.49	.76	333	1395_0000563
24	7	3.43	2.36	-1.49	.47	1.10	.3	.96	.1	1.24	.49	.76	415	1395_0001080
24	7	3.43	2.36	-1.49	.47	1.10	.3	.96	.1	1.24	.49	.76	460	1365_100003
24	7	3.43	2.36	-1.49	.47	.50	-1.0	.41	-1.1	1.56	.68	.76	481	1365_100023
24	7	3.43	2.36	-1.49	.47	1.10	.3	.96	.1	1.24	.49	.76	483	1365_100026
24	7	3.43	2.36	-1.49	.47	.66	-.5	.53	-.7	1.47	.94	.76	501	1365_100066
24	7	3.43	2.36	-1.49	.47	.66	-.5	.53	-.7	1.47	.94	.76	509	1365_100078
24	7	3.43	2.36	-1.49	.47	1.10	.3	.96	.1	1.24	.49	.76	512	1365_100089
24	7	3.43	2.36	-1.49	.47	1.10	.3	.96	.1	1.24	.49	.76	519	1365_100098
24	7	3.43	2.36	-1.49	.47	.66	-.5	.53	-.7	1.47	.94	.76	657	1365_100286
24	7	3.43	2.36	-1.49	.47	1.10	.3	.96	.1	1.24	.49	.76	664	1365_100448
24	7	3.43	2.36	-1.49	.47	.66	-.5	.53	-.7	1.47	.94	.76	786	1325_1001129
25	7	3.57	2.50	-1.27	.47	1.05	.2	.96	.1	.80	.43	.78	47	1385_0000114
25	7	3.57	2.50	-1.27	.47	1.05	.2	.96	.1	.80	.43	.78	101	1385_0001152
25	7	3.57	2.50	-1.27	.47	1.03	.2	1.10	.3	.72	.90	.78	585	1365_100181
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	23	1385_0000044
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	24	1385_0000045
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	29	1385_0000051
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	32	1385_0000054
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	68	1385_0001111
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	96	1385_0001149
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	100	1385_0001151
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	202	1385_0001766
26	7	3.71	2.67	-1.04	.48	.38	-1.2	.28	-1.0	1.52	.95	.79	242	1395_0000359
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	283	1395_0000454
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	308	1395_0000529
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	309	1395_0000531
26	7	3.71	2.67	-1.04	.48	.38	-1.2	.28	-1.0	1.52	.95	.79	316	1395_0000547
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	324	1395_0000554
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	361	1395_0000610
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	394	1395_0001045
26	7	3.71	2.67	-1.04	.48	1.21	.5	.90	.1	1.19	.38	.79	405	1395_0001069
26	7	3.71	2.67	-1.04	.48	.92	.0	.64	-.2	1.32	.49	.79	429	1395_0001116
26	7	3.71	2.67	-1.04	.48	1.32	.6	1.76	1.0	1.02	.72	.79	462	1365_100005
26	7	3.71	2.67	-1.04	.48	2.36	1.9	1.68	.9	.76	.97	.79	476	1365_100019
26	7	3.71	2.67	-1.04	.48	2.36	1.9	1.68	.9	.76	.97	.79	490	1365_100030
26	7	3.71	2.67	-1.04	.48	.38	-1.2	.28	-1.0	1.52	.95	.79	502	1365_100067
26	7	3.71	2.67	-1.04	.48	.38	-1.2	.28	-1.0	1.52	.95	.79	577	1365_100174
26	7	3.71	2.67	-1.04	.48	1.03	.2	.84	.0	1.24	.82	.79	589	1365_100185
26	7	3.71	2.67	-1.04	.48	2.36	1.9	1.68	.9	.76	.97	.79	598	1365_100195
26	7	3.71	2.67	-1.04	.48	2.36	1.9	1.68	.9	.76	.97	.79	599	1365_100196
26	7	3.71	2.67	-1.04	.48	1.03	.2	.84	.0	1.24	.82	.79	604	1365_100202
26	7	3.71	2.67	-1.04	.48	1.03	.2	.84	.0	1.24	.82	.79	623	1365_100228
26	7	3.71	2.67	-1.04	.48	.38	-1.2	.28	-1.0	1.52	.95	.79	631	1365_100253
26	7	3.71	2.67	-1.04	.48	.38	-1.2	.28	-1.0	1.52	.95	.79	632	1365_100255
26	7	3.71	2.67	-1.04	.48	1.21	.5	.90	.1	1.19	.38	.79	666	1365_100453
26	7	3.71	2.67	-1.04	.48	1.03	.2	.84	.0	1.24	.82	.79	743	1325_1001075
26	7	3.71	2.67	-1.04	.48	1.21	.5	.90	.1	1.19	.38	.79	797	1325_1001141
26	7	3.71	2.67	-1.04	.48	.38	-1.2	.28	-1.0	1.52	.95	.79	851	1325_9000210
26	7	3.71	2.67	-1.04	.48	1.21	.5	.90	.1	1.19	.38	.79	891	1325_9000612
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	130	1385_0001191
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	133	1385_0001194
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	141	1385_0001503
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	145	1385_0001525
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	153	1385_0001716
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	174	1385_0001740
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	214	1385_0001786
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	217	1385_0001789
16	7	2.29	2.68	-1.02	.97	8.30	2.5	9.00	2.9	-1.23	.07	.79	224	1385_0001796
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	376	1395_0000644
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	380	1395_0001013
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	386	1395_0001021
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	387	1395_0001022
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	390	1395_0001028
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	391	1395_0001033
16	7	2.29	2.68	-1.02	.97	.07	-.6	.04	-.5	1.31	.86	.79	396	1395_0001058
27	7	3.86	2.88	-.80	.50	.64	-.4	.81	.0	.91	.81	.80	297	1395_0000512
27	7	3.86	2.88	-.80	.50	2.74	2.1	2.48	1.4	.20	.96	.80	482	1365_100024
27	7	3.86	2.88	-.80	.50	2.51	1.9	3.65	2.1	.06	.53	.80	497	1365_100062
27	7	3.86	2.88	-.80	.50	2.03	1.5	1.69	.9	.46	.95	.80	572	1365_100171
27	7	3.86	2.88	-.80	.50	3.88	3.0	2.78	1.6	.13	.97	.80	584	1365_100180
28	7	4.00	3.11	-.54	.51	1.85	1.2	1.13	.4	1.02	.98	.80	245	1395_0000361
28	7	4.00	3.11	-.54	.51	1.85	1.2	1.13	.4	1.02	.98	.80	268	1395_0000404
28	7	4.00	3.11	-.54	.51	.38	-1.0	.24	-.8	1.44	.89	.80	321	1395_0000552
28	7	4.00	3.11	-.54	.51	.73	-.2	.46	-.3	1.33	.82	.80	331	1395_0000560
28	7	4.00	3.11	-.54	.51	.38	-1.0	.24	-.8	1.44	.89	.80	466	1365_100009
28	7	4.00	3.11	-.54	.51	3.44	2.5	4.38	2.3	.21	.69	.80	472	1365_100015
28	7	4.00	3.11	-.54	.51	1.26	.5	1.43	.7	1.07	.66	.80	475	1365_100018
28	7	4.00	3.11	-.54	.51	.73	-.2	.46	-.3	1.33	.82	.80	529	1365_100106
28	7	4.00	3.11	-.54	.51	.38	-1.0	.24	-.8	1.44	.89	.80	562	1365_100166
28	7	4.00	3.11	-.54	.51	2.72	2.0	2.32	1.3	.65	.85	.80	570	1365_100170
28	7	4.00	3.11	-.54	.51	.73	-.2	.46	-.3	1.33	.82	.80	594	1365_100191
28	7	4.00	3.11	-.54	.51	1.85	1.2	1.13	.4	1.02	.98	.80	600	1365_100198
28	7	4.00	3.11	-.54	.51	.38	-1.0	.24	-.8	1.44	.89	.80	644	1365_100268
28	7	4.00	3.11	-.54	.51	.38	-1.0	.24	-.8	1.44	.89	.80	675	1365_100471
28	7	4.00	3.11	-.54	.51	2.37	1.7	2.10	1.1	.76	.89	.80	681	1365_100477
28	7	4.00	3.11	-.54	.									

29	7	4.14	3.35	-.28	.52	3.23	2.2	1.90	1.0	.53	.98	.80	255	1395_0000383
29	7	4.14	3.35	-.28	.52	3.23	2.2	1.90	1.0	.53	.98	.80	262	1395_0000392
29	7	4.14	3.35	-.28	.52	3.23	2.2	1.90	1.0	.53	.98	.80	267	1395_0000403
29	7	4.14	3.35	-.28	.52	3.23	2.2	1.90	1.0	.53	.98	.80	273	1395_0000432
29	7	4.14	3.35	-.28	.52	1.00	.2	.95	.2	.88	.80	.80	461	1365_100004
29	7	4.14	3.35	-.28	.52	2.91	2.0	3.15	1.7	.24	.85	.80	465	1365_100008
29	7	4.14	3.35	-.28	.52	1.00	.2	.95	.2	.88	.80	.80	508	1365_100074
29	7	4.14	3.35	-.28	.52	.68	-.2	.67	.0	.99	.87	.80	520	1365_100099
29	7	4.14	3.35	-.28	.52	1.00	.2	.95	.2	.88	.80	.80	527	1365_100104
29	7	4.14	3.35	-.28	.52	1.74	1.0	1.40	.6	.58	.88	.80	554	1365_100151
29	7	4.14	3.35	-.28	.52	1.00	.2	.95	.2	.88	.80	.80	869	1325_9000315
30	7	4.29	3.55	-.01	.52	2.85	1.9	3.18	1.8	.47	-.15	.80	102	1385_0001153
30	7	4.29	3.55	-.01	.52	1.55	.8	1.16	.4	1.07	.89	.80	257	1395_0000388
30	7	4.29	3.55	-.01	.52	.18	-1.5	.14	-1.2	1.46	.86	.80	276	1395_0000446
30	7	4.29	3.55	-.01	.52	1.55	.8	1.16	.4	1.07	.89	.80	279	1395_0000449
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	288	1395_0000462
30	7	4.29	3.55	-.01	.52	1.55	.8	1.16	.4	1.07	.89	.80	298	1395_0000513
30	7	4.29	3.55	-.01	.52	1.55	.8	1.16	.4	1.07	.89	.80	300	1395_0000515
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	302	1395_0000518
30	7	4.29	3.55	-.01	.52	.18	-1.5	.14	-1.2	1.46	.86	.80	320	1395_0000551
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	469	1365_100012
30	7	4.29	3.55	-.01	.52	1.55	.8	1.16	.4	1.07	.89	.80	473	1365_100016
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	487	1365_100028
30	7	4.29	3.55	-.01	.52	1.55	.8	1.16	.4	1.07	.89	.80	494	1365_100057
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	514	1365_100093
30	7	4.29	3.55	-.01	.52	3.32	2.2	2.25	1.3	.17	.99	.80	576	1365_100173
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	582	1365_100178
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	588	1365_100184
30	7	4.29	3.55	-.01	.52	3.32	2.2	2.25	1.3	.17	.99	.80	606	1365_100204
30	7	4.29	3.55	-.01	.52	2.04	1.3	3.15	1.8	.64	.60	.80	642	1365_100266
30	7	4.29	3.55	-.01	.52	1.88	1.2	2.63	1.5	.83	.79	.80	652	1365_100279
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	659	1365_100288
30	7	4.29	3.55	-.01	.52	2.67	1.8	2.46	1.4	.65	.03	.80	665	1365_100451
30	7	4.29	3.55	-.01	.52	2.67	1.8	2.46	1.4	.65	.03	.80	668	1365_100456
30	7	4.29	3.55	-.01	.52	2.67	1.8	2.46	1.4	.65	.03	.80	669	1365_100457
30	7	4.29	3.55	-.01	.52	2.67	1.8	2.46	1.4	.65	.03	.80	672	1365_100461
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	674	1365_100470
30	7	4.29	3.55	-.01	.52	1.29	.6	.77	.0	1.17	.93	.80	682	1365_100478
30	7	4.29	3.55	-.01	.52	3.29	2.2	4.50	2.4	.30	.85	.80	725	1325_1001047
30	7	4.29	3.55	-.01	.52	1.88	1.2	2.63	1.5	.83	.79	.80	726	1325_1001048
30	7	4.29	3.55	-.01	.52	.18	-1.5	.14	-1.2	1.46	.86	.80	783	1325_1001126
18	7	2.57	3.64	.13	.58	1.29	.6	2.21	1.1	-.08	.76	.75	365	1395_0000626
18	7	2.57	3.64	.13	.58	1.42	.7	1.65	.8	.99	.56	.75	382	1395_0001016
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	248	1395_0000366
31	7	4.43	3.71	.26	.51	2.30	1.6	1.87	1.1	.69	.89	.81	264	1395_0000398
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	269	1395_0000409
31	7	4.43	3.71	.26	.51	2.30	1.6	1.87	1.1	.69	.89	.81	275	1395_0000443
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	307	1395_0000528
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	349	1395_0000596
31	7	4.43	3.71	.26	.51	1.72	1.0	2.76	1.7	.51	.80	.81	468	1365_100011
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	477	1365_100020
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	479	1365_100021
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	480	1365_100022
31	7	4.43	3.71	.26	.51	2.30	1.6	1.87	1.1	.69	.89	.81	491	1365_100031
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	493	1365_100056
31	7	4.43	3.71	.26	.51	3.18	2.2	4.42	2.5	-.03	.86	.81	503	1365_100069
31	7	4.43	3.71	.26	.51	1.72	1.0	2.76	1.7	.51	.80	.81	538	1365_100122
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	544	1365_100135
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	545	1365_100136
31	7	4.43	3.71	.26	.51	2.11	1.4	1.32	.6	.80	.93	.81	546	1365_100137
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	548	1365_100139
31	7	4.43	3.71	.26	.51	1.99	1.3	2.49	1.5	.50	.72	.81	558	1365_100164
31	7	4.43	3.71	.26	.51	2.11	1.4	1.32	.6	.80	.93	.81	568	1365_100169
31	7	4.43	3.71	.26	.51	2.11	1.4	1.32	.6	.80	.93	.81	574	1365_100172
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	579	1365_100175
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	583	1365_100179
31	7	4.43	3.71	.26	.51	1.72	1.0	2.76	1.7	.51	.80	.81	587	1365_100183
31	7	4.43	3.71	.26	.51	2.30	1.6	1.87	1.1	.69	.89	.81	592	1365_100188
31	7	4.43	3.71	.26	.51	2.11	1.4	1.32	.6	.80	.93	.81	603	1365_100201
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	610	1365_100213
31	7	4.43	3.71	.26	.51	2.23	1.5	3.68	2.1	.26	.59	.81	617	1365_100222
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	634	1365_100257
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	637	1365_100260
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	646	1365_100270
31	7	4.43	3.71	.26	.51	2.55	1.8	3.08	1.8	.46	.81	.81	654	1365_100281
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	656	1365_100285
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	658	1365_100287
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	661	1365_100290
31	7	4.43	3.71	.26	.51	.34	-1.0	.28	-.9	1.15	.87	.81	676	1365_100472
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	685	1365_100481
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	724	1325_1001046
31	7	4.43	3.71	.26	.51	1.27	.5	.99	.2	.86	.94	.81	735	1325_1001057
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	742	1325_1001063
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	812	1325_1001163
31	7	4.43	3.71	.26	.51	1.47	.8	1.55	.8	.75	.90	.81	814	1325_1001165
31	7	4.43	3.71	.26	.51	1.72	1.0	2.76	1.7	.51	.80	.81	830	1325_9000105
31	7	4.43	3.71	.26	.51	1.79	1.1	1.91	1.1	.61	.78	.81	863	1325_9000296
19	7	2.71	3.79	.43	.52	1.06	.2	1.05	.4	.70	.61	.74	132	1385_0001193
19	7	2.71	3.79	.43	.52	1.06	.2	1.05	.4	.70	.61	.74	154	1385_0001717
19	7	2.71	3.79	.43	.52	1.36	.8	6.58	2.7	.18	.33	.74	159	1385_0001724
19	7	2.71	3.79	.43	.52	.63	-.7	.42	-.3	.97	.75	.74	165	1385_0001730
19	7	2.71	3.79	.43	.52	1.06	.2	1.05	.4	.70	.61	.74	169	1385_0001736
19	7	2.71	3.79	.43	.52	1.06	.2	1.05	.4	.70	.61	.74	192	1385_0001757
19	7	2.71	3.79	.43	.52	1.31	.7	3.83	1.8	.35	.42	.74	379	1395_0001010
19	7	2.71	3.79	.43	.52	.63	-.7	.42	-.3	.97	.75	.74	397	1395_0001060
19	7	2.71	3.79	.43	.52	2.67	2.5	3.01	1.5	-.54	-.05	.74	410	1395_0001073
19	7	2.71	3.79	.43	.52	1.06	.2	1.05	.4	.70	.61	.74	418	1395_0001090

32	7	4.57	3.82	.52	.50	3.96	2.9	3.65	2.2	.14	-.09	.81	667	1365_100455
32	7	4.57	3.82	.52	.50	.37	-1.1	.25	-1.0	1.47	.86	.81	677	1365_100473
32	7	4.57	3.82	.52	.50	.37	-1.1	.25	-1.0	1.47	.86	.81	678	1365_100474
32	7	4.57	3.82	.52	.50	1.85	1.2	1.55	.8	.51	.95	.81	684	1365_100480
32	7	4.57	3.82	.52	.50	.37	-1.1	.25	-1.0	1.47	.86	.81	686	1365_100482
32	7	4.57	3.82	.52	.50	1.98	1.4	2.26	1.4	.40	.91	.81	696	1325_1001016
32	7	4.57	3.82	.52	.50	.37	-1.1	.25	-1.0	1.47	.86	.81	756	1325_1001088
32	7	4.57	3.82	.52	.50	.37	-1.1	.25	-1.0	1.47	.86	.81	762	1325_1001094
32	7	4.57	3.82	.52	.50	1.88	1.3	2.57	1.6	.78	.85	.81	878	1325_9000323
32	7	4.57	3.82	.52	.50	1.04	.2	.93	.1	1.20	.70	.81	890	1325_9000611
33	7	4.71	3.90	.76	.48	1.04	.2	.79	.0	.96	.75	.82	247	1395_0000365
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	250	1395_0000369
33	7	4.71	3.90	.76	.48	.88	.0	.56	-.4	1.18	.86	.82	251	1395_0000376
33	7	4.71	3.90	.76	.48	1.03	.2	.77	.0	.97	.75	.82	315	1395_0000543
33	7	4.71	3.90	.76	.48	1.62	1.0	2.73	1.7	.51	.88	.82	459	1365_100002
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	463	1365_100006
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	471	1365_100014
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	474	1365_100017
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	504	1365_100070
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	506	1365_100072
33	7	4.71	3.90	.76	.48	1.04	.2	.79	.0	.96	.75	.82	507	1365_100073
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	511	1365_100080
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	513	1365_100092
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	516	1365_100095
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	518	1365_100097
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	539	1365_100123
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	580	1365_100176
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	586	1365_100182
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	601	1365_100199
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	605	1365_100203
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	614	1365_100219
33	7	4.71	3.90	.76	.48	1.64	1.1	2.25	1.4	.37	.33	.82	616	1365_100221
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	618	1365_100223
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	625	1365_100230
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	626	1365_100231
33	7	4.71	3.90	.76	.48	1.81	1.3	2.87	1.8	.43	.85	.82	627	1365_100232
33	7	4.71	3.90	.76	.48	1.04	.2	.79	.0	.96	.75	.82	629	1365_100251
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	636	1365_100259
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	643	1365_100267
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	670	1365_100458
33	7	4.71	3.90	.76	.48	.88	.0	.56	-.4	1.18	.86	.82	673	1365_100469
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	679	1365_100475
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	680	1365_100476
33	7	4.71	3.90	.76	.48	.88	.0	.56	-.4	1.18	.86	.82	729	1325_1001052
33	7	4.71	3.90	.76	.48	1.03	.2	.77	.0	.97	.75	.82	757	1325_1001089
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	760	1325_1001092
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	761	1325_1001093
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	772	1325_1001109
33	7	4.71	3.90	.76	.48	2.39	1.9	3.30	2.1	.22	.69	.82	781	1325_1001124
33	7	4.71	3.90	.76	.48	1.03	.2	.77	.0	.97	.75	.82	793	1325_1001136
33	7	4.71	3.90	.76	.48	.27	-1.6	.21	-1.2	1.25	.89	.82	795	1325_1001138
33	7	4.71	3.90	.76	.48	1.61	1.0	2.72	1.7	.51	.88	.82	798	1325_1001142
33	7	4.71	3.90	.76	.48	1.61	1.0	2.72	1.7	.51	.88	.82	817	1325_1001168
33	7	4.71	3.90	.76	.48	4.26	3.3	3.82	2.3	-.56	-.33	.82	859	1325_9000240
33	7	4.71	3.90	.76	.48	1.03	.2	.77	.0	.97	.75	.82	864	1325_9000302
33	7	4.71	3.90	.76	.48	2.60	2.1	3.05	1.9	-.05	.57	.82	870	1325_9000316
33	7	4.71	3.90	.76	.48	1.03	.2	.77	.0	.97	.75	.82	886	1325_9000554
21	7	3.00	3.95	.91	.47	1.88	1.8	3.86	2.5	-.02	.20	.73	378	1395_0000649
21	7	3.00	3.95	.91	.47	.47	-1.4	.38	-.8	1.12	.74	.73	433	1395_0001119
34	7	4.86	3.97	.98	.47	.55	-.8	.42	-.6	1.48	.87	.83	517	1365_100096
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	541	1365_100133
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	543	1365_100134
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	547	1365_100138
34	7	4.86	3.97	.98	.47	1.74	1.2	2.99	1.9	.68	.87	.83	553	1365_100148
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	624	1365_100229
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	635	1365_100258
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	638	1365_100261
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	655	1365_100282
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	660	1365_100289
34	7	4.86	3.97	.98	.47	.55	-.8	.42	-.6	1.48	.87	.83	706	1325_1001025
34	7	4.86	3.97	.98	.47	.70	-.4	.54	-.4	1.41	.85	.83	734	1325_1001056
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	763	1325_1001095
34	7	4.86	3.97	.98	.47	.68	-.4	.49	-.5	.97	.89	.83	821	1325_9000087
22	7	3.14	4.00	1.12	.46	1.97	1.8	3.08	2.3	.54	.22	.74	138	1385_0001198
22	7	3.14	4.00	1.12	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	398	1395_0001061
22	7	3.14	4.00	1.12	.46	.47	-1.3	.40	-1.0	1.64	.72	.74	407	1395_0001070
22	7	3.14	4.00	1.12	.46	2.58	2.6	3.65	2.7	-.46	-.23	.74	441	1395_0001132
22	7	3.14	4.00	1.12	.46	1.97	1.8	3.08	2.3	.54	.22	.74	450	1395_0001158
31	6	5.17	4.02	1.19	.47	1.30	.7	1.15	.4	.77	.67	.85	841	1325_9000141
35	7	5.00	4.02	1.20	.46	.87	.0	.87	.0	.99	.80	.84	328	1395_0000557
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	485	1365_100027
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	495	1365_100058
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	499	1365_100064
35	7	5.00	4.02	1.20	.46	.87	.0	.87	.0	1.22	.89	.84	515	1365_100094
35	7	5.00	4.02	1.20	.46	.87	.0	.87	.0	.99	.80	.84	534	1365_100118
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	551	1365_100146
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	552	1365_100147
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	555	1365_100162
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	593	1365_100190
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	620	1365_100225
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	630	1365_100252
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	647	1365_100274
35	7	5.00	4.02	1.20	.46	2.45	2.1	3.69	2.3	.07	.82	.84	662	1365_100299
35	7	5.00	4.02	1.20	.46	.87	.0	.87	.0	.99	.80	.84	683	1365_100479
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	695	1325_1001015
35	7	5.00	4.02	1.20	.46	1.50	.9	2.76	1.8	.38	.88	.84	697	1325_1001017
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	698	1325_1001018
35	7	5.00												

35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	755	1325_1001087
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	764	1325_1001096
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	768	1325_1001100
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	778	1325_1001121
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	779	1325_1001122
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	791	1325_1001134
35	7	5.00	4.02	1.20	.46	1.23	.5	.99	.2	.89	.74	.84	792	1325_1001135
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	802	1325_1001153
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	805	1325_1001156
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	806	1325_1001157
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	810	1325_1001161
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	811	1325_1001162
35	7	5.00	4.02	1.20	.46	1.23	.5	.99	.2	.89	.74	.84	813	1325_1001164
35	7	5.00	4.02	1.20	.46	.87	.0	.87	.0	.99	.80	.84	822	1325_9000088
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	824	1325_9000089
35	7	5.00	4.02	1.20	.46	.48	-1.0	.37	-.8	1.22	.89	.84	825	1325_9000090
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	826	1325_9000095
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	852	1325_9000211
35	7	5.00	4.02	1.20	.46	1.23	.5	.99	.2	.89	.74	.84	867	1325_9000304
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	868	1325_9000314
35	7	5.00	4.02	1.20	.46	.47	-1.0	.36	-.8	1.23	.89	.84	874	1325_9000319
35	7	5.00	4.02	1.20	.46	1.50	.9	2.76	1.8	.38	.88	.84	884	1325_9000534
31	6	5.17	4.03	1.22	.47	.50	-1.0	.42	-.7	1.20	.89	.85	882	1325_9000532
36	7	5.14	4.07	1.41	.45	.60	-.7	.45	-.6	1.52	.89	.85	521	1365_100100
36	7	5.14	4.07	1.41	.45	.74	-.3	.63	-.3	.96	.91	.85	550	1365_100145
36	7	5.14	4.07	1.41	.45	.74	-.3	.63	-.3	.96	.91	.85	591	1365_100187
36	7	5.14	4.07	1.41	.45	1.17	.4	1.04	.3	.73	.83	.85	607	1365_100205
36	7	5.14	4.07	1.41	.45	1.29	.6	1.20	.4	1.18	.72	.85	619	1365_100224
36	7	5.14	4.07	1.41	.45	.58	-.7	.44	-.6	1.52	.89	.85	710	1325_1001032
36	7	5.14	4.07	1.41	.45	.74	-.3	.63	-.3	.96	.91	.85	719	1325_1001042
36	7	5.14	4.07	1.41	.45	.73	-.3	.62	-.3	.97	.91	.85	750	1325_1001082
36	7	5.14	4.07	1.41	.45	.73	-.3	.62	-.3	.97	.91	.85	751	1325_1001083
36	7	5.14	4.07	1.41	.45	.60	-.7	.45	-.6	1.52	.89	.85	758	1325_1001090
36	7	5.14	4.07	1.41	.45	.58	-.7	.44	-.6	1.52	.89	.85	766	1325_1001098
36	7	5.14	4.07	1.41	.45	1.29	.6	1.20	.4	1.18	.72	.85	828	1325_9000102
36	7	5.14	4.07	1.41	.45	1.29	.6	1.20	.4	1.18	.72	.85	829	1325_9000104
36	7	5.14	4.07	1.41	.45	1.72	1.2	1.61	.9	.95	.60	.85	901	1325_9000686
24	7	3.43	4.11	1.55	.47	1.06	.2	1.05	.2	1.23	.85	.76	445	1395_0001145
37	7	5.29	4.13	1.61	.45	1.46	.9	1.60	.9	.73	.66	.86	244	1395_0000360
37	7	5.29	4.13	1.61	.45	1.40	.8	1.19	.4	.98	.82	.86	274	1395_0000438
37	7	5.29	4.13	1.61	.45	.84	-.1	.66	-.2	1.05	.84	.86	311	1395_0000533
37	7	5.29	4.13	1.61	.45	.83	-.1	.65	-.2	1.06	.84	.86	523	1365_100101
37	7	5.29	4.13	1.61	.45	.83	-.1	.65	-.2	1.06	.84	.86	524	1365_100102
37	7	5.29	4.13	1.61	.45	.84	-.1	.66	-.2	1.05	.84	.86	566	1365_100168
37	7	5.29	4.13	1.61	.45	.79	-.2	.71	-.1	1.28	.91	.86	581	1365_100177
37	7	5.29	4.13	1.61	.45	.84	-.1	.66	-.2	1.05	.84	.86	613	1365_100218
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	639	1365_100262
37	7	5.29	4.13	1.61	.45	.84	-.1	.66	-.2	1.05	.84	.86	641	1365_100265
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	651	1365_100278
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	671	1365_100459
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	699	1325_1001019
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	703	1325_1001022
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	704	1325_1001023
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	709	1325_1001029
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	720	1325_1001043
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	727	1325_1001050
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	741	1325_1001062
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	746	1325_1001078
37	7	5.29	4.13	1.61	.45	.83	-.1	.65	-.2	1.06	.84	.86	749	1325_1001081
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	752	1325_1001084
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	753	1325_1001085
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	785	1325_1001128
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	787	1325_1001130
37	7	5.29	4.13	1.61	.45	1.46	.9	1.60	.9	.73	.66	.86	788	1325_1001131
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	789	1325_1001132
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	796	1325_1001139
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	799	1325_1001143
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	801	1325_1001152
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	804	1325_1001155
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	807	1325_1001158
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	815	1325_1001166
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	818	1325_1001169
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	831	1325_9000106
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	835	1325_9000136
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	839	1325_9000139
37	7	5.29	4.13	1.61	.45	.37	-1.3	.29	-1.1	1.29	.93	.86	850	1325_9000209
37	7	5.29	4.13	1.61	.45	.83	-.1	.65	-.2	1.06	.84	.86	866	1325_9000303
38	7	5.43	4.20	1.81	.45	1.33	.6	1.79	1.1	1.08	.68	.86	241	1395_0000357
38	7	5.43	4.20	1.81	.45	.79	-.1	.62	-.3	1.40	.85	.86	470	1365_100013
38	7	5.43	4.20	1.81	.45	.32	-1.3	.26	-1.2	1.62	.94	.86	505	1365_100071
38	7	5.43	4.20	1.81	.45	1.00	.2	.90	.0	.87	.87	.86	526	1365_100103
38	7	5.43	4.20	1.81	.45	.80	-.1	.63	-.3	1.39	.85	.86	531	1365_100107
38	7	5.43	4.20	1.81	.45	.32	-1.3	.26	-1.2	1.62	.94	.86	532	1365_100116
38	7	5.43	4.20	1.81	.45	1.00	.2	.90	.0	.87	.87	.86	533	1365_100117
38	7	5.43	4.20	1.81	.45	.80	-.1	.63	-.3	1.39	.85	.86	537	1365_100121
38	7	5.43	4.20	1.81	.45	.80	-.1	.63	-.3	1.39	.85	.86	597	1365_100194
38	7	5.43	4.20	1.81	.45	.32	-1.3	.26	-1.2	1.62	.94	.86	615	1365_100220
38	7	5.43	4.20	1.81	.45	.80	-.1	.63	-.3	1.39	.85	.86	628	1365_100233
38	7	5.43	4.20	1.81	.45	.32	-1.3	.26	-1.2	1.62	.94	.86	648	1365_100275
38	7	5.43	4.20	1.81	.45	.52	-.7	.54	-.5	1.09	.95	.86	689	1325_1001010
38	7	5.43	4.20	1.81	.45	.32	-1.3	.26	-1.2	1.62	.94	.86	692	1325_1001012
38	7	5.43	4.20	1.81	.45	.52	-.7	.54	-.5	1.09	.95	.86	702	1325_1001021
38	7	5.43	4.20	1.81	.45	.52	-.7	.54	-.5	1.09	.95	.86	713	1325_1001036
38	7	5.43	4.20	1.81	.45	1.33	.6	1.79	1.1	1.08	.68	.86	721	1325_1001044
38	7	5.43	4.20	1.81	.45	.52	-.7	.54	-.5	1.09	.95	.86	722	1325_1001045
38	7	5.43	4.20	1.81	.45	.52	-.7	.54	-.5	1.09	.95	.86	733	1325_1001055

38	7	5.43	4.20	1.81	.45	.32	-1.3	.26	-1.2	1.62	.94	.86	902	1325_9000700
26	7	3.71	4.28	2.00	.48	.92	.0	.64	-.2	1.32	.49	.79	453	1395_0001164
39	7	5.57	4.28	2.01	.44	1.98	1.4	3.27	2.3	.30	.33	.86	261	1395_0000391
39	7	5.57	4.28	2.01	.44	.41	-1.0	.35	-1.0	1.24	.92	.86	299	1395_0000514
39	7	5.57	4.28	2.01	.44	1.06	.3	1.52	.8	.82	.73	.86	608	1365_100211
39	7	5.57	4.28	2.01	.44	.43	-.9	.49	-.7	1.45	.97	.86	621	1365_100226
39	7	5.57	4.28	2.01	.44	.41	-1.0	.35	-1.0	1.24	.92	.86	622	1365_100227
39	7	5.57	4.28	2.01	.44	.90	.0	.86	.0	1.24	.89	.86	663	1365_100447
39	7	5.57	4.28	2.01	.44	.43	-.9	.49	-.7	1.45	.97	.86	687	1325_1001008
39	7	5.57	4.28	2.01	.44	1.56	.9	2.03	1.3	.82	.75	.86	827	1325_9000099
39	7	5.57	4.28	2.01	.44	.41	-1.0	.35	-1.0	1.24	.92	.86	837	1325_9000137
39	7	5.57	4.28	2.01	.44	.41	-1.0	.35	-1.0	1.24	.92	.86	844	1325_9000152
39	7	5.57	4.28	2.01	.44	1.84	1.2	2.72	1.9	.43	.43	.86	858	1325_9000239
39	7	5.57	4.28	2.01	.44	.41	-1.0	.35	-1.0	1.24	.92	.86	896	1325_9000677
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	540	1365_100125
40	7	5.71	4.38	2.20	.44	.47	-.8	.53	-.6	1.13	.94	.86	602	1365_100200
40	7	5.71	4.38	2.20	.44	.75	-.2	.74	-.2	1.35	.82	.86	691	1325_1001011
40	7	5.71	4.38	2.20	.44	.75	-.2	.74	-.2	1.35	.82	.86	693	1325_1001013
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	716	1325_1001040
40	7	5.71	4.38	2.20	.44	.75	-.2	.74	-.2	1.35	.82	.86	732	1325_1001054
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	747	1325_1001079
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	770	1325_1001107
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	776	1325_1001119
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	780	1325_1001123
40	7	5.71	4.38	2.20	.44	.92	.0	1.17	.4	1.22	.76	.86	782	1325_1001125
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	800	1325_1001144
40	7	5.71	4.38	2.20	.44	.47	-.8	.53	-.6	1.13	.94	.86	808	1325_1001159
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	816	1325_1001167
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	819	1325_1001170
40	7	5.71	4.38	2.20	.44	.75	-.2	.74	-.2	1.35	.82	.86	832	1325_9000107
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	847	1325_9000187
40	7	5.71	4.38	2.20	.44	.92	.0	1.17	.4	1.22	.76	.86	854	1325_9000214
40	7	5.71	4.38	2.20	.44	1.71	1.1	3.13	2.3	.71	.38	.86	862	1325_9000279
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	880	1325_9000504
40	7	5.71	4.38	2.20	.44	.92	.0	1.17	.4	1.22	.76	.86	881	1325_9000505
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	883	1325_9000533
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	887	1325_9000601
40	7	5.71	4.38	2.20	.44	.20	-1.7	.21	-1.6	1.63	.95	.86	894	1325_9000675
40	7	5.71	4.38	2.20	.44	1.71	1.1	3.13	2.3	.71	.38	.86	895	1325_9000676
41	7	5.86	4.50	2.39	.42	.31	-1.3	.32	-1.3	1.06	.92	.85	498	1365_100063
41	7	5.86	4.50	2.39	.42	.25	-1.5	.35	-1.2	1.57	.98	.85	556	1365_100163
41	7	5.86	4.50	2.39	.42	.31	-1.3	.32	-1.3	1.06	.92	.85	560	1365_100165
41	7	5.86	4.50	2.39	.42	.99	.1	1.19	.4	1.16	.82	.85	688	1325_1001009
41	7	5.86	4.50	2.39	.42	.25	-1.5	.35	-1.2	1.57	.98	.85	711	1325_1001033
41	7	5.86	4.50	2.39	.42	.31	-1.3	.32	-1.3	1.06	.92	.85	773	1325_1001110
41	7	5.86	4.50	2.39	.42	.25	-1.5	.35	-1.2	1.57	.98	.85	777	1325_1001120
41	7	5.86	4.50	2.39	.42	1.42	.8	1.49	.9	.65	.60	.85	885	1325_9000536
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	649	1365_100276
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	650	1365_100277
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	694	1325_1001014
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	707	1325_1001027
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	771	1325_1001108
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	784	1325_1001127
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	855	1325_9000215
42	7	6.00	4.63	2.56	.41	1.66	1.1	3.43	2.8	.59	.00	.83	861	1325_9000278
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	872	1325_9000317
42	7	6.00	4.63	2.56	.41	.58	-.6	.68	-.4	1.43	.82	.83	873	1325_9000318
42	7	6.00	4.63	2.56	.41	1.66	1.1	3.43	2.8	.59	.00	.83	875	1325_9000320
42	7	6.00	4.63	2.56	.41	1.11	.3	1.17	.4	1.13	.66	.83	893	1325_9000674
43	7	6.14	4.77	2.73	.40	.59	-.7	.69	-.4	1.45	.87	.82	612	1365_100217
43	7	6.14	4.77	2.73	.40	.56	-.8	.64	-.6	.89	.80	.82	877	1325_9000322
43	7	6.14	4.77	2.73	.40	.56	-.8	.64	-.6	.89	.80	.82	899	1325_9000684
44	7	6.29	4.91	2.89	.39	.93	.0	.91	.0	.91	.75	.81	256	1395_0000387
44	7	6.29	4.91	2.89	.39	.55	-.9	.63	-.7	.90	.87	.81	536	1365_100120
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	595	1365_100192
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	640	1365_100263
44	7	6.29	4.91	2.89	.39	.55	-.9	.63	-.7	.90	.87	.81	715	1325_1001039
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	775	1325_1001113
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	840	1325_9000140
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	843	1325_9000144
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	845	1325_9000185
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	853	1325_9000213
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	860	1325_9000241
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	876	1325_9000321
44	7	6.29	4.91	2.89	.39	.55	-.9	.62	-.7	1.50	.86	.81	898	1325_9000678
45	7	6.43	5.06	3.04	.39	.55	-1.0	.58	-.9	1.57	.86	.79	528	1365_100105
45	7	6.43	5.06	3.04	.39	.55	-1.0	.58	-.9	1.57	.86	.79	609	1365_100212
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	717	1325_1001041
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	767	1325_1001099
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	769	1325_1001101
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	774	1325_1001111
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	803	1325_1001154
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	842	1325_9000143
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	846	1325_9000186
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	879	1325_9000503
45	7	6.43	5.06	3.04	.39	.44	-1.4	.53	-1.1	.95	.87	.79	904	1325_9000750
46	7	6.57	5.20	3.18	.38	.43	-1.5	.46	-1.4	1.02	.89	.78	496	1365_100061
46	7	6.57	5.20	3.18	.38	.43	-1.5	.46	-1.4	1.02	.89	.78	535	1365_100119
46	7	6.57	5.20	3.18	.38	.43	-1.5	.46	-1.4	1.02	.89	.78	712	1325_1001035
47	7	6.71	5.34	3.33	.38	.80	-.3	.92	.0	.66	.69	.77	888	1325_9000602
47	7	6.71	5.34	3.33	.38	.51	-1.2	.61	-.9	.89	.75	.77	900	1325_9000685
48	7	6.86	5.48	3.48	.39	.82	-.2	.99	.1	1.26	.68	.76	838	1325_9000138
52	7	7.43	6.10	4.14	.43	1.66	1.0	1.93	1.3	.76	.27	.72	833	1325_9000135
52	7	7.43	6.10	4.14	.43	.24	-1.5	.61	-.5	1.42	.68	.72	892	1325_9000613
25.9	7.0	3.71	3.08	-1.16	.61	1.01	-.1	1.11	.0		.66			Mean (Count: 823)
10.7	.1	1.53	1.10	3.28	.25	.95	1.2	1.40	1.1		.32			S.D. (Population)
10.7	.1	1.53												