NUTRITION

REPUBLIC OF NAMIBIA

MINISTRY OF
HEALTH AND SOCIAL SERVICES

Nation-wide follow-up survey on Iodine Deficiency Disorders (IDD) in Namibia 1998/99

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FOREWORD

The virtual elimination of iodine deficiency disorders (IDD) by the year 2000 is one of the major goals of the World Summit for Children issued in September 1991. The Plan of Action for Children committed governments to prepare national programmes to implement the Summit's decisions. This commitment has been reaffirmed at the Policy Conference on Micronutrient Malnutrition in Montreal 1991 and is included in the World Declaration on Nutrition, held in Rome, December 1992.

Namibia is a signatory to the World Summit for Children and is therefore committed to the implementation of the Summit's decisions. In 1992, the Ministry of Health and Social Services, in collaboration with UNICEF assessed the magnitude of iodine, vitamin A and iron deficiency disorders, which resulted in the establishment of a National Control Programme for Micronutrient Deficiencies. Two major strategies were introduced, including short-term iodine capsule supplementation and long-term salt iodization. The salt iodization legislation was passed in 1994.

Follow-up and sentinel surveys are tools to monitor and evaluate the impact and progress of IDD control programmes. This IDD follow-up survey was carried out to assess whether Namibia has succeeded in eliminating IDD as a significant public health problem.

DR LIBERTINE AMATHILA
MINISTER

We would also like to extend our sincere appreciation to the staff of the Medical Laboratory at Central Hospital Complex for their technical expertise and assistance with the urinary analysis.

The Ministry of Health and Social Services would like to pay tribute to the late Mr. A.I. Abisai, who was responsible for the logistics of the survey.

Last, but not least, we would like to thank the health workers at regional and district level who assisted us to achieve the survey objectives.

DR KALUMBI SHANGULA
PERMANENT SECRETARY

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EXECUTIVE SUMMARY

Prevention, control and eventual elimination of IDD at a country level require long-term action. In Namibia, as in most countries, the use of iodized salt is the primary intervention for eliminating IDD. This requires continuous monitoring to ensure that salt is adequately iodized and reaches the entire population. However, since 1992, the progress of Iodine Deficiency Disorders (IDD) control interventions in Namibia has not been systematically assessed.

The purpose of this study was to evaluate the progress/impact of the IDD Control Programme on the prevalence of IDD in Namibia. The methods applied were ultrasonographic measurement of thyroid volume, determination of iodine concentration in spot urine samples by wet digestion method and determination of the iodine content of salt used for cooking at household levels with field-testing kits for the determination of potassium iodate in iodized salt.

A cross-sectional survey was conducted in 19 primary schools nationwide, examining 1646 children between the ages of 8 and 12 years during the periods October-November 1998 and July-August 1999. A thyroid volume above the 97th percentile was regarded as enlarged, a median urinary iodine concentration below 10 μg/dl as iodine deficient and iodine content of salt below 50 ppm as salt not adequately iodized.

The results showed a median urinary iodine concentration of 21.63 μg/dl, and that 0.2% (4) of examined children had enlarged thyroid. This indicates that elimination of iodine deficiency disorders has been possible. The four school children with enlarged thyroid were found in Katima Mulilo District. However, 28.7% of Namibian school children have urinary iodine concentration below 10 μg/dl. This indicates that there are still areas with low urinary iodine concentration due to poor dietary intake of iodine. Nankudu, Onandjokwe and Rundu are the districts with urinary iodine concentration below 2 μg/dl, indicating severe iodine deficiency. Countrywide, 90.3% of households used adequately iodized salt, but regional and rural/urban variations in the use of adequately iodized salt exist. Less than 90% of households in Onandjokwe, Rundu and Outapi districts consumed adequately iodised salt.

This survey provides quantitative data for assessing progress towards meeting IDD Control Programme goals. The magnitude and distribution of IDD prevalence within and between rural and urban populations is of concern. Extensive efforts need to be made to advocate for, educate about and market iodized salt in Namibia. In addition, the National Iodine Deficiency Disorders Control Programme need to be strengthened sustained and continually monitored.

CHAPTER 1

BACKGROUND

It is estimated that over 1,570 million people in the world live in areas that are deficient in iodine and therefore are at risk of suffering from iodine deficiency disorders. Globally, the prevalence of goitre is estimated at 13%. In Africa, an estimated 181 million people are at risk of iodine deficiency disorders and 124 million people are affected by goitre (WHO, UNICEF and ICCIDD, 1999).

Iodine deficiency is responsible for a number of public health problems. These include: endemic goitre, cretinism, deaf mutism, impairment of human reproduction (increased rates of abortion, still births, congenital anomalies, perinatal and infant mortality), poor physical and intellectual development and work performance, which are a range of effects known as iodine deficiency disorders (IDD). These constitute a major health burden and threat to socio-economic development in affected communities and for the nation as a whole. The most cost effective and sustainable intervention to eliminate IDD is the iodization of all edible salt, with the target of 90% and more of all households consuming adequately iodized salt.

In Namibia, a nation wide study on the prevalence of iodine deficiency disorders (IDD) was carried out in 1992 (Ministry of Health and Social Services, 1992), among 1830 school children aged 8-12 years, from 19 randomly selected schools. IDD in the Caprivi region was found to be severe (goitre rate 55%; urinary iodine excretion 2.5 μg/dl). In the Northwest Regions of Namibia the population is moderately affected by IDD (goitre rate 15-25%; urinary iodine excretion 4.6 μg/dl). The populations of the Central and South Regions are mildly to marginally affected (goitre rate 0-7%; urinary iodine excretion 7.7-13.7 μg/dl). The 1992 IDD Survey reported that goitre is endemic in Namibia since the 1940's and that another study conducted in 1991 by the South African Research Institute for Nutritional Diseases also found a goitre prevalence of 34.5%.

The 1992 IDD survey findings justified the need for a national control programme aimed at virtual elimination of iodine deficiency disorders by the year 2000. The Ministry of Health and Social Services developed a short-term strategy where iodine oil capsules were supplemented to severely affected populations. The Foodstuffs, Cosmetics and Disinfectants Ordinance, 1979 (Ordinance 18 of 1979) was amended to include the salt iodization legislation in 1994 (Government of the Republic of Namibia, 1994). Some of the provisions of the salt iodization legislation (Government of the Republic of Namibia, 1994) are that all salt produced, imported and sold in Namibia for human consumption have to be iodized and the iodine content should not be less than 50 parts per million (ppm) and not more than 80 ppm of potassium iodate. Provision has also been made for the label to disclose the month and year of manufacture, net weight of the salt, iodine compound used (namely potassium iodate or the abbreviation thereof) and level of iodine (ppm). The packaging unit of this salt should be moisture-proof. Provision has also been made for fines in case this regulation is contravened.

General Objective

The overall objective of this survey was to evaluate the progress and impact of the iodization of salt, which is the primary intervention of the Iodine Deficiency Disorders Control Programme, on the prevalence of iodine deficiency disorders in Namibia in the quest to achieve virtual elimination of iodine deficiency by the year 2000.

Specific Objectives

1. To determine the proportion of primary school children with an enlarged thyroid by ultrasound.

2. To determine urinary iodine levels of primary school children in Namibia.

3. To determine the percentage household consuming adequately iodized salt in Namibia.

CHAPTER 2

METHODOLOGY

2.1 Study Design and Population

A nation-wide cross-sectional school-based study to determine the goitre rate, urinary iodine concentration and iodine content of salt among 1646 school children aged 8-12 years was carried out to quantify the extent of iodine deficiency disorders in Namibia. The sample of 8-12 years old children were obtained from 19 randomly selected schools, based on the 1992 IDD survey.

2.2 Study Area

The following map shows the regions and areas where the current IDD survey was conducted.

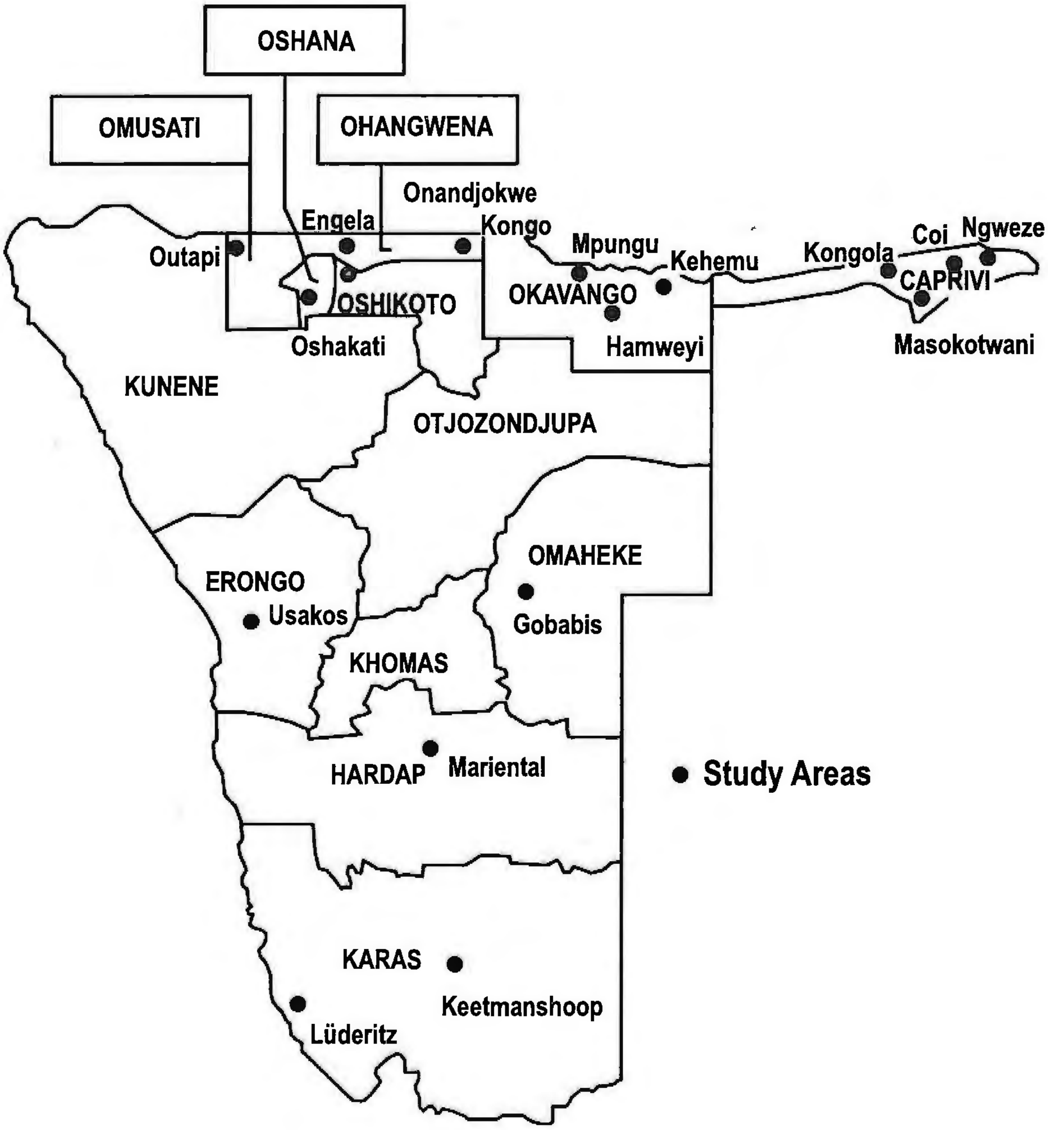


Figure 2.1: Map of Namibia, showing regions and study areas.

2.4.3 Iodine content in household salt

The iodine content of household salt was measured with the field-testing kit, UNICEF Stock Number 05-860-01 (Mannar M.G.V. and Dunn J.T. 1995). A drop of the test solution was discharged on the surface of the salt. The salt then changed colour depending on the iodine content of the salt. The colour chart was then used to determine the iodine range in the iodized salt. The estimated iodine content of the salt in parts per million was then recorded on the data collection form, Appendix II.

2.5 Data Collection

Data collection took place in October-November 1998 and July-August 1999. The research team consisted of two medical doctors, a nutritionist, a health worker and a driver from national level. In addition, each health region provided one health worker to assist. Data were collected in 8 primary schools, 4 junior primary schools, 5 combined schools and 2 junior secondary schools. These were all government schools. Information collected was age, sex, cluster number, district, area, region, urinary iodine concentration, thyroid volume by ultra-sonography and iodine content in salt. The individual data collected are shown in Appendix III.

2.6 Data Processing and Analysis

The data were cleaned and entered into EPI Info Version 6c in duplicate (Dean A.G., Dean J.A., Coulombier D. *et al.* 1995). Further verification of data was done by validating the duplicate entry of data. The summary statistics were calculated for all variables to describe their characteristics and to identify any outlying values. These outlying values were then checked against the field records to ensure that no data entry errors were made. The data are presented as the proportion of study participants with a thyroid volume above the 97^{th} centile, as well as the mean, median, standard deviation and range of thyroid volume. Urinary iodine concentrations were grouped to show the percentage of samples with concentrations below 2 μg/dl, between 2.0 – 4.9 μg/dl, between 5.0 – 9.9 μg/dl and concentrations equal to and above 10 μg/dl. Presentation of data in this way was thought to provide a complete picture of the true extent of the iodine deficiency and the degree of urgency for corrective measures. Urinary iodine was also presented as a median for the whole population, age groups, sex, area, district and regions. The main study areas were Caprivi, Kavango, Northwest and South-Central to make the results of the current survey comparable with the 1992 IDD survey. The country was divided into these areas in terms of severity of IDD in the areas. The frequency and percentage of consumption of adequately iodized salt at household levels are also presented.

CHAPTER 3

RESULTS

Based on the set objectives, the findings of the survey are presented in this section.

3.1 Demographic Information

Figures 3.1, 3.2, 3.3 and 3.4 present the demographic characteristics of the study population. Figure 3.1 shows the age distribution of the study population. As shown in Figure 3.1, most of the study participants (438) were 8 years old, the least number (259) of participants were 12 years old, 346 were 9 years old, 295 were 10 years old and 308 were 11 years old.

Figure 3.1: The age distribution of learners for IDD survey in Namibia, 1998, 1999.

Figure 3.2 shows the sex distribution of the study population. As shown in Figure 3.2, the sample contained more females (893) than males (753).

Figure 3.2: Sex distribution of learners for IDD survey in Namibia, 1998, 1999.

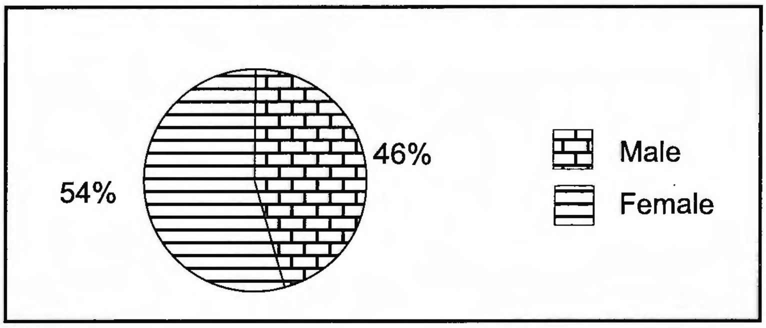


Figure 3.3 shows the rural and urban distribution of the study population. As indicated in Figure 3.3, most participants were sampled from rural areas (876), with 770 study participants from urban areas.

Figure 3.3: Rural / urban distribution of learners for IDD survey in Namibia, 1998, 1999.

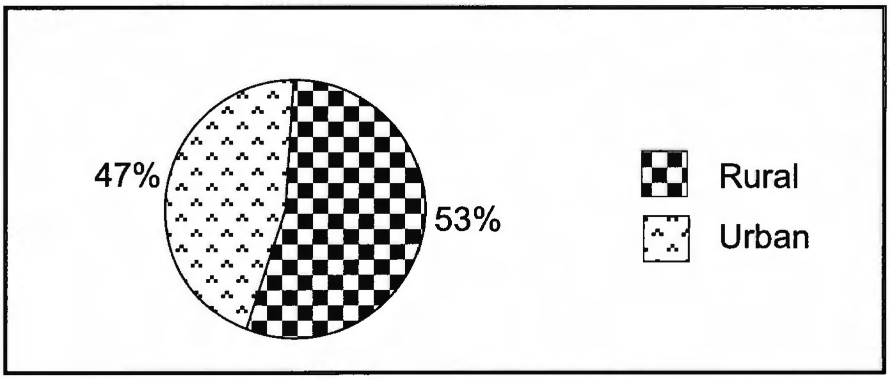
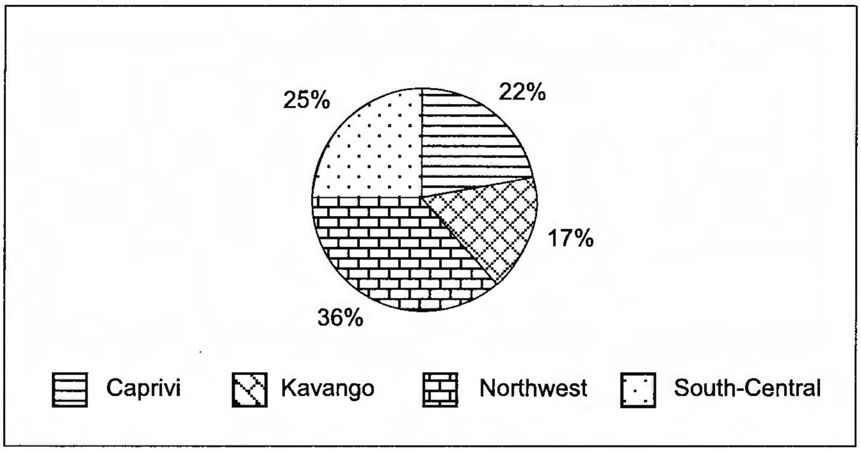


Figure 3.4 shows the regional distribution of the study population. As seen in Figure 3.4, about 17% (278) of the total sample was from the Kavango Region, which is the lowest. On the other hand, 36% (591), the highest, were from the Northwest Region, while 25% (409) was from the Central-South Region and 22% (368) from the Caprivi Region.

Figure 3.4: Distribution of learners in the main study areas for IDD survey in Namibia, 1998, 1999.



3.2 Urinary Iodine

Urinary iodine concentration is a good indicator of a previous day's iodine intake as most of the iodine absorbed is excreted in the urine. Urinary iodine values from populations are usually not normally distributed and therefore the median value should be used instead of the mean. The indicator for the elimination of iodine deficiency disorders is a median value for urinary iodine concentration of 10 µg/dl and above. Table 3.1 shows the mean, median, standard deviation and range for urinary iodine concentration in µg/dl by age and sex of learners. The median urinary concentration of children in the various age groups was above the cut-off point of 10 µg/dl, but the 11 years old group had the lowest median urinary concentration compared to the other age groups, as seen in Table 3.1. Female children had a lower median urinary iodine concentration compared to male children.

Table 3.1: Summary statistics of urinary iodine concentration in µg/dl by age and sex of learners for IDD survey in Namibia, 1998, 1999.

	Sample	Mean	Median	SD	Range
Age: 8	429	22.4	24.9	12.5	0.00 – 71.50
9	335	19.6	21.6	13.5	0.00 – 66.00
10	286	19.9	21.5	13.2	0.01 – 57.60
11	300	17.2	16.7	14.0	0.00 – 85.50
12	252	20.1	21.1	14.2	0.01 – 91.50
Sex:					
Male	741	20.4	22.5	13.3	0.00 – 85.50
Female	861	19.7	21.1	13.7	0.00 – 91.50

Table 3.2 shows the mean, median, standard deviation and range for urinary iodine concentration in µg/dl by region, district, and area and at national level. As seen in Table 3.2, the median urinary iodine concentration in Nankudu is below 2 µg/dl, indicating that iodine deficiency is severe in that district. The median urinary iodine concentration in Onandjokwe and Rundu is between 5.0 to 9.9 µg/dl, indicating mild iodine deficiency in those districts. The median urinary iodine concentration in the Kavango Region is between 2.0 to 4.9 µg/dl, indicating moderate iodine deficiency in that Region. This shows that although the median urinary iodine concentration at national level is above 10 µg/dl, there are districts in the Kavango Region that are still severely deficient in iodine.

Table 3.2: Summary statistics of urinary iodine concentration in μg/dl of learners for IDD survey by main study areas, district and rural/urban in Namibia, 1998, 1999.

	Sample	Mean	Median	SD	Range
National	**1602**	**20.01**	**21.63**	**13.50**	**0.00 – 91.50**
Main study areas:					
Caprivi	350	19.6	19.9	14.1	0.10 – 91.50
Kavango	277	8.9	2.8	13.2	0.00 – 85.50
Northwest	566	19.6	21.4	11.9	0.00 – 40.13
South-Central	409	28.4	30.1	8.6	1.29 – 40.07
Districts:					
Engela	99	20.6	22.5	10.9	0.01 – 39.29
Gobabis	51	32.6	34.2	6.3	13.84 – 39.29
Katima Mulilo	350	19.6	19.9	14.1	0.10 – 91.50
Keetmanshoop	74	25.3	26.3	8.1	5.48 – 39.35
Kongo	98	19.2	20.5	9.6	0.10 – 36.40
Luderitz	99	26.0	27.4	7.8	1.29 – 39.12
Mariental	99	25.2	26.6	9.6	3.33 – 40.07
Nankudu	100	5.8	0.9	11.9	0.10 – 66.00
Onandjokwe	78	7.8	6.4	9.6	0.01 – 40.13
Oshakati	192	25.9	27.2	9.3	0.00 – 39.71
Outapi	99	16.1	13.4	12.9	0.01 – 40.07
Rundu	177	10.6	6.2	13.6	0.00 – 85.50
Usakos	86	35.1	36.3	3.8	21.41 – 39.18
Area:					
Rural	844	15.6	14.6	12.2	0.00 – 66.00
Urban	758	24.9	27.5	13.2	0.00 – 91.50

Table 3.3 shows the severity of iodine deficiency in learners according to urinary iodine concentrations in μg/dl by age and sex. In order to classify iodine deficiency into different degrees of severity, the urinary iodine data were grouped to show the proportion of samples with concentrations below 2 μg/dl, which shows severe iodine deficiency, 2.0 – 4.9 μg/dl, which indicates moderate, 5.0 – 9.9 μg/dl that shows mild iodine deficiency and equal to and above 10 μg/dl, which shows no iodine deficiency. As seen in Table 3.3, most of the children had low urinary iodine concentrations ranging from mild to moderate, but 22% of the 11 years old children had urinary iodine concentrations below 2 μg/dl. Both males and females had mild to severe iodine deficiency, but more females had urinary iodine concentrations below 2 μg/dl.

Table 3.3: Distribution of iodine deficiency in urinary iodine concentrations in μg/dl by age and sex of learners for IDD survey in Namibia, 1998, 1999.

	Sample	Severe (<2μg/dl)		Moderate (2-4.9μg/dl)		Mild (5-9.9μg/dl)		No deficiency (≥10μg/dl)	
Age: 8	429	41	(9.6%)	18	(4.2%)	30	(7.0%)	340	(79.3%)
Age: 9	335	51	(15.2%)	19	(5.7%)	33	(9.9%)	232	(69.3%)
Age: 10	286	42	(14.7%)	14	(4.9%)	29	(10.1)	201	(70.3%)
Age: 11	300	67	(22.3%)	14	(4.7%)	29	(9.7%)	190	(63.3%)
Age: 12	252	38	(15.1%)	12	(4.8%)	23	(9.1%)	179	(71.0%)
Sex:									
Male	741	105	(14.2%)	34	(4.6%)	65	(8.8%)	537	(72.5%)
Female	861	134	(15.6%)	43	(5.0%)	79	(9.2%)	605	(70.3%)

Table 3.4 shows the severity of iodine deficiency disorders in learners according to urinary iodine concentrations in µg/dl, by regions, district, area and nationally. According to Table 3.4, Nankudu, Onandjokwe and Rundu are the districts with urinary iodine concentrations below 2 µg/dl, indicating severe iodine deficiency. Gobabis and Usakos had urinary iodine concentrations above 10 µg/dl, indicating no deficiency. Districts such as Keetmanshoop, Mariental, Luderitz and Oshakati were moderately to mildly affected. The Kavango Region had 47% of its population severely affected with urinary iodine concentrations below 2 µg/dl. Although South-Central had the highest proportion with no deficiency, the region is also affected by iodine deficiency. The levels of urinary iodine concentration in rural areas were less than those in urban areas. About 15% of learners have urinary iodine concentrations of below 2 µg/dl, which indicates that the need for correction is critical.

Table 3.4: Distribution of Iodine Deficiency in urinary iodine concentrations in µg/dl of learners for IDD survey by main study areas, district and rural/urban in Namibia, 1998, 1999.

	Sample	Severe (<2µg/dl)		Moderate (2-4.9µg/dl)		Mild (5-9.9µg/dl)		No deficiency (≥10µg/dl)	
Namibia	**1602**	**239**	**(14.9%)**	**77**	**(4.8%)**	**144**	**(9.0%)**	**1142**	**(71.3%)**
Main study areas:									
Caprivi	350	38	(10.9%)	23	(6.6%)	42	(12.0%)	247	(70.6%)
Kavango	277	129	(46.6%)	30	(10.8%)	37	(13.4%)	81	(29.2%)
Northwest	566	71	(12.5%)	21	(3.7%)	53	(9.4%)	421	(74.4%)
South-Central	409	1	(0.2%)	3	(0.7%)	12	(2.9%)	393	(96.1%)
Districts:									
Engela	99	10	(10.1%)	3	(3.0%)	7	(7.1%)	79	(79.8%)
Gobabis	51	0	(0.0%)	0	(0.0%)	0	(0.0%)	51	(100%)
Katima Mulilo	350	38	(10.9%)	23	(6.6%)	42	(12.0%)	247	(70.6%)
Keetmanshoop	74	0	(0.0%)	0	(0.0%)	5	(6.8%)	69	(93.2%)
Kongo	98	3	(3.1%)	7	(7.1%)	9	(9.2%)	79	(80.6%)
Luderitz	99	1	(1.0%)	1	(1.0%)	2	(2.0%)	95	(96.0%)
Mariental	99	0	(0.0%)	2	(2.0%)	5	(5.1%)	92	(92.9%)
Nankudu	100	65	(65.0%)	11	(11.0%)	8	(8.0%)	16	(16.0%)
Onandjokwe	78	33	(42.3%)	4	(5.1%)	16	(20.5%)	25	(32.1%)
Oshakati	192	4	(2.1%)	2	(1.0%)	8	(4.2%)	178	(92.7%)
Outapi	99	21	(21.2%)	5	(5.1%)	13	(13.1%)	60	(60.6%)
Rundu	177	64	(36.2%)	19	(10.7%)	29	(16.4%)	65	(36.7%)
Usakos	86	0	(0.0%)	0	(0.0%)	0	(0.0%)	86	(100%)
Area:									
Rural	844	174	(20.6%)	59	(7.0%)	103	(12.2%)	508	(60.2%)
Urban	758	65	(8.6%)	18	(2.4%)	41	(5.4%)	634	(83.6%)

The recommended criteria to use as indicator for monitoring progress towards eliminating iodine deficiency disorders as a public health problem state that the proportion of school children with urinary iodine concentration below 10 µg/dl is set at less than 5% and the proportion of school children that should have a urinary iodine concentration below 5 µg/dl is set at 2%.

Table 3.5: Comparison between 1992 and 1998/99 of median urinary iodine concentration in µg/dl of learners for IDD survey.

Study Areas	Median urinary iodine concentration in µg/dl	
	1992	1998/99
Caprivi	2.5	19.9
Kavango	4.6	2.8
Northwest	4.6	21.4
South-Central	9.5	30.1
National	**5.81**	**21.63**

Table 3.5 shows the severity of iodine deficiency in learners according to median urinary iodine concentration in µg/dl by year and study areas. In order to compare the current survey findings with those of 1992, the data were grouped according to study areas. As shown in Table 3.5, there was a remarkable improvement in urinary iodine concentration in learners in 1998/99 compared to 1992. However, the median urinary iodine concentration in Kavango Region has deteriorated, which indicate a critical need for correction. Figures 3.5 and 3.6 show the percentages of learners with urinary iodine concentration above and below 10 µg/dl and above and below 5 µg/dl, respectively.

Figure 3.5: Percentage of learners for IDD survey with urinary iodine concentrations above and below 10 µg/dl in Namibia, 1998, 1999.

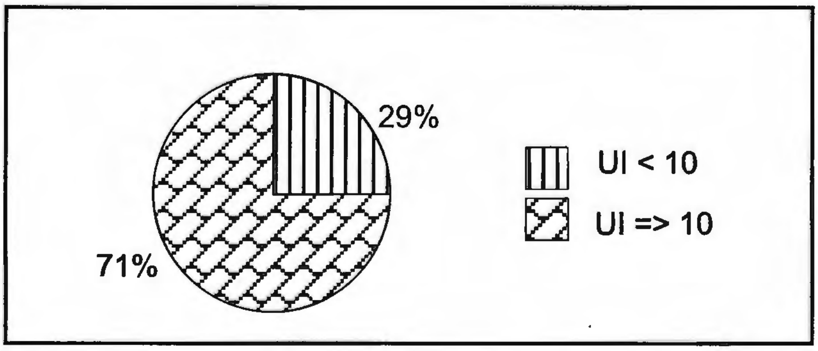
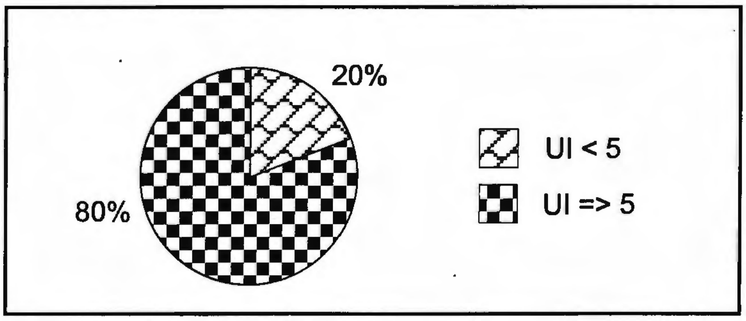


Figure 3.6: Percentage of learners for IDD survey with urinary iodine concentrations above and below 5 µg/dl in Namibia, 1998, 1999.



As indicated in Figures 3.5 and 3.6, the proportion of school children 8 to 12 years with urinary iodine below 10 µg/dl is 28.7%. The goal for eliminating iodine deficiency is set at less than 5%. The proportion of school children 8 to 12 years with urinary iodine below 5 µg/dl is 19.7%, which is higher than the goal of less than 2%.

3.3 Thyroid Volume

Ultrasonography is a safe and non-invasive technique providing a more accurate and objective method to determine thyroid volume than palpation. The current normative values are based on pooled samples of school children living in Europe, whose iodine status is known to be adequate. Evidence has emerged that some populations of school-age children with adequate median urinary iodine have thyroid volumes much lower than the normative values adopted by the WHO. Currently, there are no adequate reference values available for children of small body size, since it is possible that normal thyroid size in these subjects would be smaller (WHO, UNICEF, ICCIDD, 1994). Thus, although ultrasonography is very precise, its correct interpretation relies on the availability of appropriate standardized reference criteria.

The size of the thyroid gland changes inversely in response to changes in iodine intake. This normally takes place over a period of 6 to 12 months in children and young adults i.e. less than 30 years of age (WHO, UNICEF, ICCIDD, 1994). The results of the ultrasound examination of the study population were compared to normative data from populations with sufficient iodine intake. An enlarged thyroid is defined as a thyroid volume above the 97th percentile. The goal for the elimination of iodine deficiency states that the proportion of children 6 – 12 years of age with enlarged thyroid by palpation or ultra-sound should be less than 5%. Table 3.6 shows the number and percentages of children with thyroid volumes below and equal to and above the 97th percentile.

Table 3.6: Number and percentages of thyroid volume of learners for IDD survey in Namibia, 1998, 1999.

Characteristic	Number	Percentage
Thyroid volume ≤ 97th centile	1616	99.8%
Thyroid volume > 97th centile	4	0.2%

As seen in Table 3.6, only four study participants had thyroid volumes above the 97th centile, indicating an enlarged thyroid. Of these, one was 8 years old, two were 9 years old and the other one was 11 years old. Three of the study participants were male, and all four of them were from the Caprivi Region, Katima Mulilo district. The proportion of school children with thyroid volume above the 97th centile is 0.2%, which meets the goal for iodine deficiency elimination.

3.4 Iodized Salt

The use of iodized salt is the primary intervention for eliminating iodine deficiency disorders in Namibia. For universal or nationwide iodization to be effective, the salt reaching the household must contain adequate iodine and the salt should be used by the entire population. The goal for monitoring progress towards the elimination of iodine deficiency disorders as a public health problems states that more than 90% of households should consume effectively iodized salt (WHO, UNICEF, ICCIDD, 1994). Table 3.7 shows the number and percentage of households consuming adequately iodized salt by region, district, and area of learners, as well as nationally. Table 3.7 shows that nationally, 90.3% of the surveyed households consume adequately iodized salt. Districts such as Onandjokwe, Rundu and Outapi have less than 90% of households consuming adequately iodized salt. Comparing urban and rural households the study shows that only 87.3% of households in rural areas use adequately iodized salt. In Kavango and Northwest Regions, less than 90% of households use adequately iodized salt.

Table 3.7: Number and percentage of households consuming adequately iodized salt by main study area, district and rural/urban area of learners for IDD survey in Namibia, 1998, 1999.

	Adequately iodized salt	Not adequately iodized salt	Total
Namibia	**809 (90.3%)**	**86 (9.7%)**	**887**
Main study areas:			
Caprivi	149 (90.3%)	16 (9.7%)	165
Kavango	46 (55.4%)	37 (44.6%)	83
Northwest	241 (89.6%)	28 (10.4%)	269
South-Central	365 (98.6%)	5 (1.4%)	370
Districts:			
Engela	Salt not tested		
Gobabis	48 (96.0%)	2 (4.0%)	50
Katima Mulilo	149 (90.3%)	16 (9.7%)	165
Keetmanshoop	73 (100.0%)	0 (0.0%)	73
Kongo	60 (98.4%)	1 (1.6%)	61
Luderitz	74 (100.0%)	0 (0.0%)	74
Mariental	95 (96.9%)	3 (3.1%)	98
Nankudu	Salt not tested		
Onandjokwe	39 (79.6%)	10 (20.4%)	49
Oshakati	83 (91.2%)	8 (8.8%)	91
Outapi	59 (86.8%)	9 (13.2%)	68
Rundu	46 (55.4%)	37 (44.6%)	83
Usakos	75 (100.0%)	0 (0.0%)	75
Area:			
Rural	241 (87.3%)	35 (12.7%)	276
Urban	560 (91.7%)	51 (8.3%)	611

CHAPTER 4

DISCUSSION

Iodine deficiency is the world's major cause of preventable brain damage and mental retardation. In addition to mental retardation, goitre is an important consequence of iodine deficiency. All iodine deficiency disorders can be prevented by sufficient iodine in the diet (WHO, UNICEF, ICCIDD, 1993; Sullivan, Houston, Gorstein *et al.*, 1995). Namibia is working towards the goal of eliminating IDD as a significant public health problem, with the iodization of salt as the primary control intervention and enforcing legislation.

This study shows that 0.2% of Namibian children have a thyroid volume above the 97^{th} percentile, which meets the international criteria for elimination of goitre. There was an improvement in the status of iodine deficiency disorders as compared to the first survey conducted in 1992. The goitre rate has dropped from 22% to 0.2%, with the total proportion of children with goitre found in the Caprivi region. The Caprivi region was severely affected according to the previous survey, with a goitre rate of 55% (Ministry of Health and Social Services, 1992). The need for correction of IDD was regarded as critical and a short-term iodine oil capsule supplementation was provided in the Caprivi region. Extensive social mobilization and education was done to advocate for the use of iodized salt at household level in this region after the first survey. These activities have contributed to the improvement of IDD status in the Caprivi region.

The median urinary iodine concentration in Namibia is found to be 21.63 µg/dl, which indicates that there is no iodine deficiency. The proportion of Namibian children with urinary iodine concentration below 10 µg/dl is reported 28.7%. Although the overall status of IDD has improved in Namibia, there are still areas with low urinary iodine concentrations, because of inadequate dietary intake of iodine.

Compared to the findings of the 1992 survey (Ministry of Health and Social Services, 1992), there was an improvement in the median urinary iodine concentration for all the regions, except the Kavango. The median urinary iodine concentration for Kavango Region has decreased from 4.6 µg/dl to 2.8 µg/dl, whereas there was an increase in the median urinary iodine concentrations in the other regions. Although no children with an enlarged goitre was found in Kavango Region, the high proportion of children with urinary iodine concentrations below 2 µg/dl signify a severe iodine deficiency problem in that region. Thus, concerted efforts to eliminate iodine deficiency disorders should be directed towards the Kavango Region.

Nationally, 90% of households are using adequately iodized salt. However, there is a variation between rural and urban areas where only 87.3% of rural households are using salt that is adequately iodized. In the mid-decade goals survey (Mufune P. and Namfua P., 1996), it was found that only 57.3% of households use adequately iodized salt. According to the mid-decade goals survey, salt in blocks, which is either not adequately iodized or not iodized at all, is used in rural areas and in almost half the households in Kavango region. In the current survey, Kavango Region has the highest proportion of salt not adequately iodized, as well as low urinary iodine concentrations. There is no legislation in Namibia that requires salt for animal consumption to be iodized, as this is regarded as the mandate of the Ministry of Agriculture, Water and Rural Development and not that of the Ministry of Health and Social Services. In Namibia, iodization of salt is universal, i.e. nationwide, rather than targeted. But the elimination of iodine deficiency disorders will not be achieved unless Namibia starts to iodise salt for animal consumption, too. This would require extensive advocacy and lobbying for Ministry of Agriculture, Water and Rural Development to regulate the iodization of salt for animal consumption.

The fact that the salt is not iodized at the required level when it reaches the household shows that there are losses of iodine at any point between production and consumption. Although some of these losses are inevitable, good quality assurance mechanisms and appropriate packaging and storage procedures can prevent it. In addition, salt may also not be used and stored appropriately at the household level to prevent loss of iodine. Information and education about iodine deficiency disorders and the appropriate use of iodized salt would help to create a demand and preference for iodized salt at household level.

This survey indicates that there are still areas in the country where the monitoring of iodized salt is not done effectively. This could be due to lack of staff, high staff turnover and lack of awareness, which may especially be true in the Kavango Region. The salt producers do internal quality assurance, but this is not complemented by periodic inspection by a government regulatory body (external quality assurance) to confirm that the products meet the provisions of the salt iodization legislation. Without effective enforcement of the legal requirements, the Namibian government cannot ensure the universal availability of properly iodized salt. There is a need to evaluate the needs of the National Iodine Deficiency Disorders Control Programme and capacities and resources in institutions to develop a salt monitoring system that is efficient, sustainable and provide timely information to make appropriate decisions about programme activities.

Strategy for Information Dissemination

The information dissemination strategy is an important aspect resulting from this survey. Firstly, immediate feedback of survey results will be given to the schools that participated in the survey. This will involve presenting each school with a copy of the survey report, as well as requesting their participation in an information dissemination workshop. Health workers at district level will continue raising awareness when visiting schools and during any other outreach services activities.

Secondly, the results of this survey will be disseminated in those areas worst affected by iodine deficiency disorders. The findings indicated that the Kavango Region has very low urinary iodine concentrations, suggesting that salt consumed at household level is either not iodised or not adequately iodised. Casual observation during fieldwork also showed that most of the shops in the Kavango Region were stocking salt that is not iodised. An information dissemination workshop will be organized for the various stakeholders in the Kavango Region to present and discuss the results of the survey, as well as proposing initiatives to inform and involve the communities. This exercise will include discussions on the monitoring and evaluation of the availability of iodised salt and the level of iodization at both household and retail levels with the relevant partners.

By strengthening information dissemination about the health and social consequences of iodine deficiency disorders, as well as the simple solution of consuming iodised salt, it is hoped that a demand for iodised salt would be created. The currently available information, education and communication (IEC) in the form of posters and pamphlets on iodine deficiency disorders are in the process of being translated into local languages. These materials will be widely distributed to facilitate their use by health workers, agricultural extension officers, community liaison officers, teachers and other partners in the development field and the community itself.

The Ministry of Health and Social Services are currently developing an integrated school health package, which will include a component on iodine deficiency disorders and iodized salt. This initiative will provide an opportunity for monitoring the iodine content of salt at household level. The schools that participated in the survey will be used as sentinel sites.

In addition to the above, efforts will be made to strengthen coordination and collaboration with health inspector officials of the Ministry of Health and Social Services and the municipalities where applicable, for the strict enforcement of the salt iodization legislation.

CHAPTER 5

CONCLUSION AND RECOMMENDATIONS

There was a remarkable improvement in the status of iodine deficiency disorders in Namibia since the implementation of the National Iodine Deficiency Disorders Control Programme. However, the variation in median urinary iodine concentrations and use of adequately iodized salt at regional, district, rural and urban areas indicate that the National Iodine Deficiency Disorders Control Programme should focus on advocacy activities to create awareness about iodine deficiency disorders and its adverse health and social consequences. Extensive information dissemination and social mobilisation should be embarked upon in the Northwest and Kavango, focusing on Onandjokwe, Nankudu and Rundu districts as priority areas. These activities should then also be extended to the other areas. At the same time, iodized salt should be available for consumption, hand in hand with close monitoring to ensure that salt labelled as iodized actually contains an adequate concentration and is reaching the entire Namibian population. The continued enforcement of the salt iodization legislation is imperative to sustain current activities for the elimination of iodine deficiency disorders.

Further research in Namibia on iodine deficiency disorders should include the investigation of thyroid volumes to establish standard reference values for thyroid size in Namibia. Monitoring is essential for the success and sustainability of salt iodization programmes and also so that the necessary adjustments could be made to the current strategy. One of the monitoring and evaluation activities is the monitoring of the impact of IDD interventions on the population. Therefore, this survey should be repeated in 5 years time, to ensure that the expected changes in goitre rates, urinary iodine and thyroid function, are actually occurring.

In order to effectively address iodine deficiency disorders in Namibia, the following are recommended:

- Continue the awareness campaign of IDD, especially in the districts with low urinary iodine through ongoing health education. Inform and educate the general population about iodine deficiency and its health consequences.

- IDD is most severe in Kavango Region. There is an urgent need of distributing lipiodol, especially to women of child-bearing age (15 – 49) and to infants and young children and school children. The distribution can be coupled with the routine immunization. It is important to conduct awareness campaigns before mass iodine prophylaxis is done in order to allay fears and misconceptions.

- Develop social marketing strategies for iodized salt. Information dissemination and education efforts should mobilise the Namibian population to demand and use only iodized salt.

- Institute a regular system for salt quality control and monitoring to periodically check salt iodine levels from production to consumption. Only through continuous monitoring can Namibia ensure that salt is adequately iodized.

- The results of this survey should also serve as an advocacy tool to highlightthe extent of IDD problems, and stimulate action including the appropriate allocation of resources for eliminating IDD. This should include advocacy for the iodization of salt for animal consumption.

- Periodic prevalence surveys representative of the population are necessary to measure progress towards achieving long-term micronutrient goals.

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APPENDICES

APPENDIX 1

METHOD FOR MEASURING IODINE IN URINE

Source: (Dunn, Crutchfield, Gutekunst, 1993; Ministry of Health and Social Services, 1992)

Reagents:

1. $KClO_3$ (potassium chlorate), dry powder
2. $KClO_4$ (perchloric acid, 70%) comes as 70% liquid solution, do not dilute
3. As_2O_3 (arsenic trioxide), dry powder
4. NaCl (sodium chloride), dry powder
5. H_2SO_4 (sulfuric acid, concentrated) ~ 100%, 36 N, liquid)
6. $Ce(NH_4)_4(SO_4)_4 \bullet 2H_20$ (ceric ammonium sulfate), dry powder
7. H_2O (deionized water)
8. KIO_3 (potassium iodate), dry powder

Solutions:

1. Chloric acid solution: in a 2000 ml Erlenmeyer flask dissolve 500 g $KClO_3$ in 910 ml H_2O; heat until goes into solution. Then add 375 ml $HclO_4$ slowly (about 15 ml/minute) with constant stirring. Store in freezer overnight. Next day filter with filter paper, on Buchner funnel. Volume of filtrate is approximately 850 ml. Store in refrigerator.
2. 5 N H_2OSO_4: slowly add 139 ml concentrated (36 N) H_2SO_4 to about 700 ml deionized water and when cool, adjust to final volume of 1 L with deionized water.
3. Arsenious acid solution: in a 2000 ml Erlenmeyer flask, place 20 g As_2O_3 and 50 g NaCl, then slowly add 400 ml 5 N H_2SO_4. Add water to about 1 L, heat gently to dissolve, cool to room temperature, dilute with water to 2 L, filter, store in dark bottle, away from light, at room temperature. Stable for months.
4. Ceric ammonium sulfate solution: dissolve 48 g ceric ammonium sulfate in 1 L 3.5 N H_2SO_4 (3.5 N H_2SO_4 is made by slowly adding 97 ml concentrated (36 N) H_2SO_4 to about 800 ml deionized water, and when cool, adjusting to final volume of 1 L with deionized water). Store in dark bottle away from light at room temperature. Stable for months.
5. Standard iodine solution, 1 μg iodine per ml: dissolve 0.168 mg KIO_3 in deionized water to final volume of 100 ml.

Generate standards:

Stock Standard A: 16.85 mg KIO_3 in 100 ml H_2O
Stock Standard B: 1 m 1 ml Std A in 100 ml H_2O
(= 100 μg I/100 ml)

To generate standard curves, sequential dilutions of standard B were made as follows:
Std 20 μg I / 100 ml = 20 ml Std B + 80 ml H_2O
Std 15 μg I / 100 ml = 15 ml Std B + 85 ml H_2O
Std 10 μg I / 100 ml = 10 ml Std B + 90 ml H_2O
Std 5 μg I / 100 ml = 5 ml Std B + 95 ml H_2O
Std 2 μg I / 100 ml = 2 ml Std B + 95 ml H_2O

Procedure:

1. Mix urine samples to evenly suspend any sediment.
2. Pipette 0.250 ml of each urine sample into a 13 x 100 mm test tube and 0.250 ml of H_2O into 13 x 100 mm test tube, for a blank.
3. Pipette into 13 x 100 mm test tubes, 250 μl of each iodine standard.
4. Add 750 μl of chloric acid solution to each tube (samples, blank and standards), mix gently.
5. Heat all tubes for 50-60minutes in a heating block at 110-115 °C, in a fume hood with trap.
6. Cool the tubes to room temperature, then add 3.5 ml arsenious acid solution to each tube, mix and stand for about 15 minutes.
7. Add 350 μl of ceric ammonium sulfate solution to each tube and quickly mix by vortex. Use a stopwatch or other precise timer to keep a constant interval between additions to successive tubes, usually 15-30 seconds.
8. Exactly 20 minutes after addition of ceric ammonium sulfate to first tube, read its absorbency at 405 nm in colorimeter and read successive tubes at the same interval as that used for addition of the ceric ammonium sulfate (i.e. 15-30 seconds), so that the time between addition of ceric sulfate and reading is exactly 20 minutes for each tube.

Calculation of results:

1. Construct a standard curve on graph paper by plotting iodine concentration of each standard (abscissa) against its spectrophotometer reading (ordinate).
2. For each sample, find its spectrophotometric absorption on the standard curve and then locate the corresponding iodine concentration on the abscissa. This is the urinary iodine concentrations in μg/dl.

APPENDIX II

DATA RECORDING FORMS

Iodine Deficiency Disorders in Namibia
Food and Nutrition Unit, Ministry of Health and Social Services, Private Bag 13198, WINDHOEK, NAMIBIA

Region: ____________________ **District:** ____________________ **Urban / Rural:** ____________________

School: ____

Name	Identification Number	Age	Sex: M / F	Iodine concentration in urine	Iodine Concentration in salt

					Thyroid	**Measurements**		
			Right Lobe			**Left Lobe**		
Patient Name	**ID**	**Age**	**Length (L) (mm)**	**Depth (D) (mm)**	**Breadth (B) (mm)**	**Length (L) (mm)**	**Depth (D) (mm)**	**Breadth (B) (mm)**

APPENDIX III

INDIVIDUAL DATA ON IDD

ID	AGE (Years)	SEX	Urinary iodine (µg/dl)	Thyroid volume (ml)	Salt Adequately Iodized
1	8	F	17.61	1.22	Y[1]
2	8	F	19.28	0.865	N[2]
3	8	F	28.01	1.144	Y
4	8	F	32.31	2.173	Y
5	8	M	34.04	1.674	Y
6	8	M	36.84	1.793	Y
7	8	M	36.73	1.843	Y
8	9	F	33.14	1.458	Y
9	8	F	28.54	0.99	Y
10	8	F	32.36	0.892	Y
11	9	M	28.24	1.173	Y
12	8	M	34.16	0.429	Y
13	8	F	34.75	0.843	Y
14	9	M	31.23	1.17	Y
15	9	M	38.22	0.907	Y
16	8	M	38.94	0.411	Y
17	9	F	38.76	1.981	Y
18	8	M	38.94	0.547	Y
19	9	M	37.56	1.664	Y
20	9	F	33.56	2.456	Y
21	9	M	28.59	1.91	Y
22	8	F	37.51	1.779	Y
23	9	F	34.46	0.986	Y
24	10	F	32.48	3.122	Y
25	9	M	36.13	1.506	Y
26	9	F	31.91	0.728	Y
27	9	M	39.29	1.389	N
28	10	F	38.76	1.006	Y
29	10	M	37.26	1.017	Y
30	10	M	37.56	0.604	Y
31	10	F	34.39	1.435	Y
32	10	F	36.79	0.752	Y
33	10	F	37.32	1.885	Y
34	10	F	36.12	0.958	Y
35	9	F	37.08	1.642	Y
36	10	F	36.43	1.193	Y
37	10	M	35.47	1.589	Y
38	10	M	36.13	1.243	Y
39	10	F	24.36	0.829	Y
40	11	F	33.56	1.035	Y
41	11	F	33.98	1.564	Y
42	11	M	37.98	2.331	Y
43	10	F	28.72	1.197	Y
44	12	F	33.86	0.791	Y
45	11	F	32.07	1.701	Y
46	12	F	23.58	1.762	Y
47	12	F	22.57	3.331	Y
48	12	M	14.49	1.393	Y
49	12	M	34.99	1.478	Y
50	12	M	13.84	1.772	.[3]
51	12	F	32.91	3.687	Y

[1] Y = Yes, salt is adequately iodized
[2] N = No, salt is not adequately iodized
.[3] = not tested / missing data

52	8	F	30.38		Y
53	8	F	36.92	0.511	Y
54	8	F	34.18	1.2	Y
55	8	F	28.84	1.326	Y
56	8	F	38.17	0.974	Y
57	8	F	37.99	0.793	Y
58	8	F	38.17	1.906	Y
59	8	F	27.71	1.053	Y
60	8	F	38.41	0.802	Y
61	8	F	35.97	1.952	Y
62	8	F	33.59	0.512	Y
63	8	M	38.34	1.478	Y
64	8	M	33.11	0.838	Y
65	8	M	38.11	0.848	Y
66	8	M	37.27	0.705	Y
67	8	M	35.49	0.649	Y
68	8	M	36.03	1.397	Y
69	8	M	36.79	0.792	.
70	8	F	28.36	2.56	Y
71	8	F	37.51	0.901	Y
72	9	F	30.38	1.272	Y
73	9	F	29.49	4.838	Y
74	8	F	37.16	1.342	Y
75	10	F	37.45	1.422	.
76	9	F	28.54	2.14	Y
77	9	F	35.37	1.031	Y
78	10	F	36.03	2.545	Y
79	8	F	29.19	0.969	Y
80	9	M	36.68	1.578	Y
81	9	M	36.98	0.64	Y
82	10	M	36.51	1.055	Y
83	9	M	37.63	1.846	Y
84	8	M	38.76	2.539	Y
85	8	M	21.41	2.007	Y
86	8	M	27.17	0.548	Y
87	8	M	29.37	0.684	Y
88	9	M	39.17	1.746	Y
89	11	M	34.54	0.851	Y
90	9	F	26.04	0.731	Y
91	9	F	34.18	1.03	Y
92	9	F	35.91	1.2	Y
93	10	F	39.12	2.641	Y
94	10	F	35.85	1.266	Y
95	10	F	38.64	0.829	Y
96	10	F	34.84	2.22	Y
97	11	F	29.07	1.592	Y
98	11	F	36.09	0.998	Y
99	9	M	38.05	3.692	Y
100	11	M	39.18	1.428	Y
101	9	M	37.81	2.093	Y
102	12	M	38.41	0.953	Y
103	10	M	35.37	1.361	.
104	12	M	30.74	2.077	Y
105	10	M	36.03	2.652	.
106	9	M	38.71	1.798	Y
107	10	M	37.63	1.038	.
108	11	M	29.31	1.078	.
109	10	M	30.68	1.523	.
110	10	F	37.33	1.326	Y
111	11	F	28.54	0.85	Y
112	11	F	38.94	1.561	Y
113	10	F	36.74	3.421	Y
114	10	F	37.93	3.248	Y
115	11	F	28.66	1.144	Y

116	11	F	38.11	1.332	Y
117	11	F	37.09	2.097	.
118	12	F	36.79	3.128	Y
119	11	M	36.79	2.187	Y
120	10	M	33.35	1.53	Y
121	11	M	38.82	2.339	Y
122	11	M	39.06	1.209	Y
123	12	M	39.07	1.214	Y
124	12	M	37.88	2.454	.
125	10	M	34.95	2.71	Y
126	12	M	36.14	1.911	Y
127	12	M	38.52	3.492	Y
128	10	M	38.41	1.021	.
129	12	M	32.99	1.826	Y
130	11	M	35.43	1.03	Y
131	12	F	37.69	1.539	Y
132	12	F	32.16	1.737	Y
133	12	F	34.36	1.809	Y
134	12	M	37.57	2.287	Y
135	12	M	35.61	1.457	Y
136	12	M	35.79	1.409	Y
137	12	M	38.41	2.099	.
138	12	M	24.24	1.352	Y
139	12	M	30.57	1.118	Y
140	11	M	17.07	0.55	Y
141	11	M	19.46	1.087	Y
142	11	M	40.07	1.677	Y
143	11	M	10.91	0.319	Y
144	12	M	19.22	0.644	Y
145	11	M	30.57	1.518	Y
146	12	M	38.22	1.492	Y
147	12	M	28.12	0.763	Y
148	12	M	32.01	1.164	Y
149	12	F	34.93	3.433	Y
150	11	F	40.07	2.006	.
151	11	F	32.07	0.855	Y
152	12	F	29.19	1.479	Y
153	12	F	39.35	1.658	Y
154	12	F	39.77	0.928	Y
155	12	F	26.63	0.586	Y
156	11	F	33.21	0.955	Y
157	12	F	33.68	1.713	Y
158	11	F	40.07	1.102	Y
159	11	M	34.99	1.45	Y
160	12	F	21.61	1.222	Y
161	12	M	36.73	1.321	Y
162	12	F	14.32	1.504	Y
163	11	F	27.76	0.925	N
164	8	F	39.59	0.941	Y
165	8	M	33.86	1.168	Y
166	11	M	23.28	1.386	Y
167	11	M	33.92	0.545	Y
168	11	M	25.07	0.722	Y
169	12	M	17.48	1.06	Y
170	11	F	14.14	2.266	Y
171	12	M	17.91	2.138	Y
172	10	F	14.74	2.278	Y
173	11	M	32.13	0.453	Y
174	9	M	34.34	2.007	Y
175	8	F	13.61	0.791	Y
176	8	F	19.34	0.201	N
177	11	M	27.23	0.694	Y
178	12	F	30.45	1.556	Y
179	12	M	35.47	0.717	Y

180	11	F	9.59	3.037	Y
181	9	F	27.17	1.101	Y
182	10	F	9.12	1.215	Y
183	10	F	35.83	0.888	Y
184	10	F	3.33	0.647	Y
185	9	F	6.43	1.37	N
186	12	F	4.87	0.703	Y
187	8	M	38.99	0.506	Y
188	12	F	17.67	1.113	Y
189	8	M	21.19	0.656	Y
190	9	F	14.85	2.213	Y
191	8	M	23.04	0.619	Y
192	12	F	8.34	2.443	Y
193	8	M	24.66	1.117	Y
194	11	F	12.48	1.69	Y
195	10	M	31.05	1.543	Y
196	10	F	26.45	0.487	Y
197	11	F	11.45	1.984	Y
198	10	M	22.45	0.577	Y
199	9	M	24.18	1.99	Y
200	10	M	23.76	0.378	Y
201	8	F	26.09	0.366	Y
202	8	M	25.13	0.556	Y
203	8	F	28.48	0.831	Y
204	8	F	19.16	0.773	Y
205	10	M	27.29	1.298	Y
206	8	M	14.74	1.027	Y
207	11	F	22.45	1.547	Y
208	9	F	33.68	0.754	Y
209	9	F	29.44	0.589	Y
210	8	F	26.57	0.685	Y
211	8	F	17.31	0.969	Y
212	8	F	28.42	0.588	Y
213	8	F	22.86	0.853	Y
214	8	F	30.21	0.621	Y
215	10	F	31.41	0.566	Y
216	8	M	28.78	0.504	Y
217	10	M	30.45	0.785	Y
218	9	M	40.07	1.007	Y
219	10	M	29.44	0.882	Y
220	8	M	37.44	0.491	Y
221	12	M	13.36	0.932	Y
222	10	F	28.96	1.069	Y
223	8	M	40.07	0.623	Y
224	8	M	32.01	0.824	Y
225	9	M	17.55	0.544	Y
226	9	M	28.84	0.664	Y
227	8	F	12.11	0.939	Y
228	10	F	11.33	0.568	Y
229	10	F	35.47	0.889	Y
230	10	F	7.27	0.825	Y
231	8	F	11.57	1.023	Y
232	9	M	24.89	0.655	Y
233	10	M	21.37	1.144	Y
234	10	M	19.88	1.792	Y
235	9	F	37.74	0.801	Y
236	12	M	15.75	1.338	Y
237	11	F	30.75	1.876	Y
238	11	F	30.87	1.995	Y
239	11	F	35.89	1.385	Y
240	10	F	25.07	1.696	Y
241	11	M	23.22	1.947	Y
242	12	M	26.33	2.495	Y
243	10	M	17.13	1.103	Y

244	11	F	28.66	3.638	Y
245	11	F	26.99	1.712	Y
246	10	M	18.56	1.209	Y
247	10	F	7.57	2.307	Y
248	11	F	23.22	1.086	Y
249	11	F	21.97	2.874	Y
250	10	M	26.39	2.131	Y
251	9	M	30.45	1.485	Y
252	10	M	16.95	0.833	Y
253	10	M	31.17	2.132	Y
254	10	M	30.93	1.612	.
255	10	F	18.86	1.998	Y
256	9	F	27.35	2.198	Y
257	10	F	37.14	1.463	Y
258	10	F	26.99	1.347	Y
259	10	F	28.24	1.222	Y
260	10	F	38.45	2.405	Y
261	10	F	30.27	1.126	.
262	10	F	28.54	1.162	.
263	10	M	31.77	0.833	Y
264	10	M	22.81	1.98	.
265	9	M	15.81	1.124	Y
266	10	M	31.29	1.667	Y
267	10	M	33.86	1.186	.
268	11	M	27.64	1.383	Y
269	9	M	33.74	0.851	.
270	8	F	21.13	1.57	Y
271	9	F	15.09	2.424	Y
272	9	F	30.39	0.817	Y
273	8	F	33.32	1.111	Y
274	9	F	34.57	1.572	Y
275	9	F	32.78	1.342	Y
276	9	F	14.92	2.87	Y
277	9	F	30.69	1.97	Y
278	9	F	27.05	2.469	Y
279	8	F	28.48	2.493	Y
280	9	M	31.65	1.315	Y
281	9	M	22.09	0.925	Y
282	9	M	36.19	1.791	Y
283	9	M	35.83	0.556	Y
284	10	M	26.39	1.573	Y
285	9	M	39.12	0.761	Y
286	9	M	32.24	2.082	Y
287	9	M	31.11	1.028	Y
288	8	M	23.71	0.723	Y
289	8	M	30.09	1.584	Y
290	8	M	26.03	1.623	Y
291	8	M	19.34	0.959	Y
292	8	M	32.13	2.283	Y
293	8	M	26.93	1.866	Y
294	8	F	17.13	1.855	Y
295	8	F	18.86	1.561	Y
296	8	F	28.48	2.572	Y
297	8	F	32.31	1.294	Y
298	9	F	36.31	1.65	Y
299	8	F	29.91	0.544	Y
300	8	F	29.19	1.644	Y
301	8	F	36.91	1.884	Y
302	8	M	33.21	2.325	Y
303	8	F	34.28	0.816	Y
304	8	F	12.83	1.26	Y
305	8	F	20.23	1.235	Y
306	8	F	24.48	0.766	Y
307	8	M	22.81	1.201	Y

308	8	M	21.67	0.799	Y
309	8	F	19.69	1.044	Y
310	8	F	30.03	0.723	Y
311	8	M	35.35	1.278	Y
312	8	M	28.48	1.413	Y
313	8	F	22.86	1.105	Y
314	8	F	25.19	2.376	Y
315	8	F	14.38	1.46	Y
316	8	F	19.04	1.41	Y
317	8	F	36.96	2.691	.
318	8	F	30.57	0.832	.
319	8	F	30.99	1.417	.
320	8	F	12.59	0.916	.
321	8	F	25.31	0.882	.
322	8	F	16.29	1.565	.
323	8	F	1.29	1.141	.
324	9	F	7.09	0.944	.
325	8	M	16.77	0.734	.
326	8	M	21.19	1.35	.
327	8	M	2.01	0.651	.
328	8	M	15.81	0.92	.
329	8	M	20.89	0.661	.
330	8	M	32.01	0.913	.
331	8	M	25.37	1.211	.
332	8	M	26.45	1.353	.
333	8	M	34.87	0.586	.
334	8	M	27.94	0.919	.
335	8	M	29.85	1.261	.
336	10	F	21.23	1.274	Y
337	10	F	36.09	1.072	Y
338	10	F	33.83	1.721	Y
339	10	F	29.61	0.964	Y
340	9	F	27.71	0.518	Y
341	10	F	29.91	0.646	Y
342	9	F	32.34	0.826	Y
343	9	F	18.91	1.08	Y
344	10	F	19.03	1.812	Y
345	10	F	33.95	0.337	Y
346	10	F	12.61	0.871	Y
347	10	M	7.08	1.018	Y
348	11	M	23.55	0.439	Y
349	11	M	25.98	1.175	Y
350	9	M	28.12	0.667	Y
351	8	M	36.09	0.254	Y
352	10	M	28.72	0.762	Y
353	11	M	21.23	1.289	Y
354	11	M	21.05	1.86	Y
355	9	M	8.87	0.872	Y
356	10	M	29.07	0.388	Y
357	10	M	29.55	1.172	Y
358	10	M	22.01	0.845	.
359	10	M	29.01	0.962	Y
360	9	M	28.06	0.695	Y
361	10	M	24.44	1.055	Y
362	9	M	20.81	1.036	Y
363	9	M	34.31	0.887	Y
364	9	M	32.22	0.633	Y
365	9	M	28.12	0.795	Y
366	10	M	35.91	0.611	Y
367	9	M	24.56	0.692	Y
368	11	M	13.32	0.778	Y
369	9	M	8.57	0.864	Y
370	10	F	22.95	0.371	Y
371	10	F	29.91	0.42	Y

372	9	F	28.78	0.842	Y
373	10	F	27.41	0.83	Y
374	12	F	6.73	3.355	Y
375	11	F	34.61	0.932	Y
376	11	F	27.59	1.083	Y
377	11	F	39.35	2.097	Y
378	11	F	24.91	1.814	Y
379	10	F	20.33	0.938	Y
380	9	F	13.86	0.893	Y
381	9	F	31.81	0.713	Y
382	9	F	14.39	0.474	Y
383	11	F	34.96	0.905	Y
384	11	F	25.21	0.682	Y
385	11	F	32.41	0.991	Y
386	10	F	14.09	0.968	Y
387	11	F	34.12	1.268	Y
388	10	F	21.47	0.963	Y
389	9	F	13.2	0.868	Y
390	9	F	24.79	0.547	Y
391	10	F	34.48	0.546	Y
392	10	F	38.34	0.915	Y
393	9	F	21.64	0.435	Y
394	12	F	20.57	1.527	Y
395	9	F	30.14	1.22	Y
396	11	F	30.14	1.116	Y
397	11	F	19.74	0.528	Y
398	11	F	32.88	1.323	Y
399	11	F	26.58	0.517	Y
400	11	F	33.77	0.954	Y
401	9	M	24.79	0.542	Y
402	10	M	36.86	1.522	Y
403	12	M	23.07	4.402	Y
404	10	M	20.57	1.217	Y
405	10	M	5.48	2.344	Y
406	10	M	20.16	0.835	Y
407	9	M	20.28	0.778	Y
408	9	M	31.87	0.457	Y
409	9	M	23.91	0.328	Y
410	9	M	12.43	0.695	.
411	8	M	22.71	0.312	.
412	9	F	25.09	1.313	.
413	8	F	6.13	1.778	.
414	8	F	29.43	2.162	.
415	8	F	9.93	0.283	.
416	8	M	20.57	0.561	.
417	8	F	7.13	0.265	.
418	8	F	7.98	1.577	.
419	11	F	22.54	0.718	.
420	9	M	29.91	0.525	.
421	9	M	18.38	0.766	.
422	9	M	29.13	0.735	.
423	9	F	28.12	0.864	.
424	8	F	12.91	2.841	.
425	8	M	32.88	1.768	.
426	8	M	18.32	0.284	.
427	8	F	15.29	0.482	.
428	8	F	7.21	0.695	.
429	9	F	22.42	1.602	.
430	8	F	20.09	0.571	.
431	8	F	4.71	0.649	.
432	9	M	11.96	0.441	.
433	8	M	33.95	1.619	.
434	9	M	27.29	0.93	.
435	9	M	17.19	2.053	.

436	9	M	29.91	0.792	.
437	8	M	39.29	0.434	.
438	10	M	27.05	0.386	.
439	8	M	24.85	1.927	.
440	8	M	33.35	0.554	.
441	8	M	10.95	1.156	.
442	9	F	15.23	2.798	.
443	8	F	30.38	1.25	.
444	9	F	30.92	1.183	.
445	8	F	26.81	0.865	.
446	10	F	21.53	0.689	.
447	9	F	33.89	0.902	.
448	8	F	34.89	1.694	.
449	8	F	21.71	0.884	.
450	8	F	28.01	0.587	.
451	8	F	31.57	0.669	.
452	8	M	29.25	1.602	.
453	8	F	28.24	1.595	.
454	8	F	27.94	0.845	.
455	8	F	28.95	1.552	.
456	8	F	35.02	0.809	.
457	8	F	20.16	0.926	.
458	8	F	19.56	1.509	.
459	8	M	37.87	1.797	.
460	8	F	37.99	0.36	.
461	8	M	20.46	1.358	.
462	8	M	25.68	1.282	.
463	8	F	29.91	0.967	.
464	9	F	33.05	1.664	.
465	9	F	34.01	0.825	.
466	10	F	26.99	0.679	.
467	10	M	26.52	0.867	.
468	11	F	21.29	2.835	.
469	11	M	25.03	0.921	.
470	12	M	31.09	1.272	.
471	10	M	21.17	1.397	.
472	10	M	31.21	0.504	.
473	10	M	29.54	2.39	.
474	11	M	24.97	0.823	.
475	11	M	34.61	1.034	.
476	10	M	18.08	1.245	.
477	12	M	21.05	3.262	.
478	8	M	37.75	1.382	.
479	10	F	30.21	1.941	.
480	10	F	23.43	0.544	.
481	12	F	31.87	0.914	.
482	9	F	23.96	0.885	.
483	9	F	16.65	0.714	.
484	12	F	25.21	3.016	.
485	9	F	10.94	0.681	.
486	8	F	0.01	1.923	.
487	10	F	0.01	1.132	.
488	9	F	0.01	1.475	.
489	8	F	0.01	2.298	.
490	9	M	11.89	1.131	.
491	8	M	4.71	2.313	.
492	10	M	0.01	0.831	.
493	8	F	21.58	1.225	.
494	9	F	0.01	1.083	.
495	10	F	0.01	0.672	.
496	9	F	9.52	2.146	.
497	11	F	0.01	0.907	.
498	8	F	23.84	2.391	.
499	8	M	1.97	1.078	.

500	11	F	6.01	1.257	.
501	8	M	18.38	1.272	.
502	8	M	24.73	0.428	.
503	11	M	24.49	1.049	.
504	12	M	2.45	1.401	.
505	9	F	11.71	2.035	.
506	9	F	0.01	0.341	.
507	11	F	11.84	0.645	.
508	10	F	13.32	1.93	.
509	8	F	.	1.312	.
510	11	M	.	0.97	.
511	12	F	9.31	3.019	.
512	9	M	33.98	0.459	.
513	12	F	0.01	0.572	.
514	9	F	0.01	1.915	Y
515	11	M	4.34	0.715	Y
516	12	M	23.76	0.646	Y
517	9	M	26.93	1.58	Y
518	11	M	19.69	1.082	Y
519	12	M	31.77	1.321	.
520	12	M	7.93	1.401	.
521	12	M	9.84	2.781	.
522	10	M	40.07	1.098	.
523	12	M	12.65	0.835	.
524	8	M	22.51	0.609	Y
525	10	M	13.36	0.478	Y
526	8	M	0.01	0.848	Y
527	11	M	25.31	0.726	Y
528	11	M	0.01	0.349	Y
529	12	M	12.35	2.671	Y
530	11	M	0.01	1.247	Y
531	11	F	0.01	1.743	Y
532	11	F	11.99	1.03	Y
533	9	F	13.35	0.406	Y
534	12	F	21.25	1.412	Y
535	12	F	0.01	1.05	N
536	9	F	5.54	1.463	.
537	12	F	35.29	2.153	Y
538	11	F	0.01	1.593	Y
539	10	F	0.01	0.526	Y
540	12	F	8.64	1.273	Y
541	12	F	26.39	1.147	Y
542	9	F	2.73	2.653	.
543	10	F	32.96	0.655	Y
544	9	F	8.52	1.228	.
545	11	F	18.21	1.351	.
546	11	F	1.35	0.733	.
547	12	F	10.79	1.377	.
548	11	F	0.01	1.095	Y
549	12	F	33.92	1.008	.
550	11	F	0.01	1.876	Y
551	8	F	37.98	1.425	N
552	8	F	25.73	1.058	Y
553	10	F	32.96	1.854	Y
554	10	F	29.08	1.624	Y
555	12	F	15.63	1.081	Y
556	9	F	22.57	2.972	Y
557	9	F	14.38	1.131	Y
558	11	F	21.73	0.77	Y
559	12	F	32.13	0.733	Y
560	11	F	27.58	1.197	Y
561	10	F	14.32	1.113	Y
562	12	F	31.29	0.638	Y
563	9	F	0.01	1.647	Y

564	12	F	0.29	0.427	Y
565	9	F	20.18	0.417	N
566	8	F	27.11	0.368	Y
567	11	F	38.28	0.974	Y
568	9	F	36.55	1.897	.
569	8	F	9.84	1.766	.
570	9	F	10.85	1.015	N
571	8	M	5.71	0.449	N
572	9	M	12.83	1.09	.
573	11	M	0.01	0.821	.
574	11	M	16.05	0.605	.
575	11	M	24.36	1.953	.
576	12	M	6.79	1.502	.
577	12	M	33.21	1.354	Y
578	9	M	38.04	1.682	.
579	12	M	0.01	1.588	Y
580	11	M	23.58	0.746	Y
581	11	M	25.85	1.815	Y
582	10	M	29.68	1.35	.
583	8	M	2.13	0.756	Y
584	12	M	6.31	0.642	.
585	8	M	36.79	2.052	N
586	8	M	10.44	0.599	Y
587	9	M	13.18	0.579	Y
588	8	M	0.01	1.192	Y
589	9	M	14.08	0.487	.
590	10	M	4.76	0.366	Y
591	8	M	13.12	0.856	Y
592	8	M	28.31	.	N
593	9	M	12.77	0.576	Y
594	8	M	37.44	0.733	Y
595	11	M	38.76	1.183	.
596	12	M	14.62	0.986	Y
597	9	M	7.27	0.881	Y
598	9	M	37.26	0.585	.
599	8	M	8.94	0.694	Y
600	9	M	4.22	0.589	Y
601	10	M	21.79	0.432	.
602	9	M	21.19	1.087	Y
603	8	M	35.05	1.701	N
604	9	M	0.01	0.542	.
605	9	M	7.6	1.106	.
606	9	M	0.01	0.787	Y
607	8	M	27.64	0.826	.
608	9	F	9.06	1.537	Y
609	11	F	0.01	0.836	Y
610	11	F	.	0.872	N
611	8	F	30.93	1.435	.
612	8	M	7.87	1.696	.
613	8	M	10.13	1.533	.
614	9	M	0.01	1.694	.
615	10	M	20.18	2.749	.
616	10	F	19.28	4.916	.
617	11	F	8.52	1.429	.
618	11	F	20.95	2.718	.
619	8	F	30.57	1.691	.
620	11	F	22.81	2.347	.
621	11	M	22.92	4.699	.
622	10	M	29.14	3.021	.
623	11	M	32.07	2.874	.
624	10	M	25.31	4.429	.
625	11	M	8.52	1.118	.
626	11	M	33.79	3.005	.
627	8	M	22.86	2.172	.

628	10	F	4.58	3.523	.
629	11	F	19.22	3.019	.
630	11	F	0.01	2.466	.
631	10	F	21.37	3.807	.
632	10	F	10.38	2.873	.
633	10	F	14.98	1.992	.
634	11	F	24.78	2.312	.
635	11	F	34.34	2.418	.
636	11	F	12.11	1.71	.
637	10	F	10.26	2.543	.
638	11	F	10.19	1.902	.
639	8	F	33.32	1.072	.
640	8	F	21.37	1.528	.
641	8	M	34.04	0.257	.
642	8	M	37.92	0.954	.
643	8	F	28.95	0.706	.
644	8	F	38.69	1.506	.
645	8	M	25.19	2.242	.
646	8	M	18.38	0.907	.
647	8	M	25.55	0.535	.
648	8	M	16.05	1.352	.
649	8	M	27.17	1.556	.
650	8	M	8.41	0.54	.
651	8	F	23.34	1.513	.
652	8	F	22.81	0.715	.
653	8	F	39.71	0.728	.
654	8	F	27.46	0.785	.
655	8	F	26.75	3.041	.
656	8	M	32.48	0.749	.
657	8	M	33.67	0.172	.
658	8	M	29.32	1.565	.
659	8	F	15.69	0.369	.
660	8	M	39.47	1.759	.
661	8	M	20.35	1.033	.
662	8	M	38.99	1.171	.
663	8	M	39.12	2.061	.
664	8	F	24.48	1.181	.
665	8	F	21.01	1.338	.
666	8	F	16.89	0.622	.
667	8	F	22.62	0.997	.
668	8	F	30.81	2.108	.
669	8	F	16.53	1.49	.
670	8	F	28.06	1.169	.
671	10	F	33.02	0.462	.
672	8	F	36.85	2.793	.
673	8	F	27.11	1.029	.
674	8	F	22.81	0.588	.
675	8	F	29.56	0.763	.
676	8	F	25.31	0.843	.
677	8	F	25.01	0.292	.
678	8	F	36.19	1.16	.
679	8	F	26.03	1.164	.
680	8	F	30.39	1.079	.
681	8	F	24.96	0.58	.
682	8	M	26.33	0.679	.
683	8	M	26.75	1.547	.
684	8	M	35.89	1.538	.
685	8	M	37.81	1.255	.
686	8	M	26.75	0.488	.
687	8	F	29.02	0.913	.
688	8	F	34.28	0.711	.
689	8	F	13.06	1.146	.
690	8	F	20.59	2.805	.
691	8	F	38.16	0.935	.

692	8	F	24.89	1.366	.
693	8	M	39.18	1.64	.
694	8	M	34.46	1.514	.
695	8	M	35.05	0.947	.
696	11	M	34.16	1.785	.
697	8	M	27.05	1.253	.
698	10	M	29.74	0.663	.
699	8	M	26.51	1.047	.
700	10	M	25.61	1.516	.
701	10	M	26.21	1.037	.
702	10	F	23.46	1.522	.
703	9	F	23.71	2.529	.
704	8	M	31.77	1.983	.
705	9	M	37.56	1.326	.
706	10	F	38.39	0.902	.
707	10	F	27.41	1.568	.
708	9	M	16.05	0.777	.
709	9	M	26.21	0.764	.
710	10	M	20.77	0.799	.
711	8	F	30.87	2.089	Y
712	8	F	32.72	1.167	N
713	8	F	0	1.219	N
714	8	F	29.43	1.141	Y
715	9	M	31.65	1.055	Y
716	8	F	6.31	2.094	Y
717	8	F	7.27	1.195	N
718	9	F	22.33	4.863	Y
719	8	F	0	2.652	Y
720	8	F	11.87	1.881	Y
721	11	M	24.06	1.332	Y
722	8	M	31.41	1.107	Y
723	9	M	9.24	0.966	Y
724	9	M	27.46	1.55	Y
725	9	F	19.39	1.896	Y
726	8	M	38.04	2.025	N
727	8	F	28.66	0.68	Y
728	8	F	17.55	0.822	Y
729	8	M	34.28	1.136	Y
730	8	M	23.64	0.567	Y
731	10	M	5.89	1.297	Y
732	9	M	24.06	1.184	Y
733	9	M	30.45	0.654	Y
734	8	F	38.82	3.328	Y
735	8	M	30.03	0.767	Y
736	9	M	30.81	0.773	Y
737	8	F	23.52	2.371	Y
738	8	F	4.41	1.215	Y
739	8	F	21.31	1.894	Y
740	12	M	19.82	1.507	Y
741	12	F	32.78	1.257	Y
742	8	F	12.83	0.531	Y
743	9	F	17.37	2.672	Y
744	8	F	35.29	1.238	Y
745	9	F	23.58	1.675	Y
746	9	M	16.11	2.675	Y
747	8	M	26.81	1.711	N
748	8	F	32.36	0.902	Y
749	8	M	36.67	1.149	Y
750	12	M	27.64	2.217	Y
751	12	M	33.14	2.011	Y
752	12	M	35.77	0.743	Y
753	10	F	36.31	3.297	Y
754	8	M	28.06	1.468	Y
755	9	M	33.14	1.101	Y

756	10	F	30.15	4.161	.
757	8	M	27.28	0.647	Y
758	8	M	34.81	1.011	N
759	10	M	29.62	1.076	Y
760	8	M	38.34	2.011	Y
761	8	F	29.91	2.089	Y
762	12	F	33.08	1.779	Y
763	12	F	34.39	1.174	Y
764	8	F	32.42	1.2	Y
765	9	M	38.04	1.836	Y
766	9	M	37.26	0.916	Y
767	9	M	34.46	0.648	Y
768	9	F	23.52	1.846	Y
769	9	F	36.01	0.962	Y
770	9	F	38.39	1.127	Y
771	8	F	11.39	2.284	Y
772	8	M	32.96	1.714	Y
773	8	M	35.82	0.863	Y
774	12	F	33.32	2.116	Y
775	12	F	39.12	1.649	Y
776	9	F	38.28	2.128	N
777	8	M	28.18	0.62	Y
778	8	F	33.38	0.618	Y
779	8	F	31.05	0.381	Y
780	8	M	31.53	1.615	N
781	8	M	38.52	1.34	Y
782	8	F	32.07	2.087	Y
783	9	M	28.48	1.29	Y
784	12	M	26.63	2.066	Y
785	11	M	26.81	4.222	Y
786	8	M	27.94	0.614	Y
787	8	F	33.98	1.85	Y
788	9	F	27.52	1.441	Y
789	8	F	16.65	0.833	Y
790	8	F	35.83	1.71	Y
791	8	F	11.69	0.804	Y
792	8	F	28.42	0.878	Y
793	8	M	24.42	1.917	Y
794	9	F	27.76	1.157	Y
795	9	F	31.89	1.03	Y
796	9	F	22.15	1.022	Y
797	8	F	17.07	1.722	Y
798	8	M	19.09	2.087	Y
799	8	M	19.04	1.263	Y
800	8	M	18.62	0.889	Y
801	8	M	17.31	0.48	Y
802	8	M	15.57	0.591	Y
803	11	M	9.58	0.476	Y
804	8	M	17.67	1.847	.
805	9	M	6.49	0.956	.
806	8	M	15.63	0.698	.
807	9	M	3.21	1.529	N
808	8	M	0.01	2.354	.
809	9	M	0.01	1.052	.
810	9	M	8.34	0.305	.
811	11	M	8.41	0.576	.
812	11	M	14.67	0.78	.
813	8	F	40.13	0.931	.
814	8	F	6.37	1.749	.
815	8	F	0.01	1.046	.
816	8	F	0.01	1.006	.
817	8	F	0.01	1.164	.
818	8	F	10.62	1.796	Y
819	8	F	25.07	0.711	.

820	8	F	6.37	1.14	.
821	8	F	8.41	0.815	.
822	9	F	37.44	0.789	.
823	11	M	38.11	0.706	Y
824	10	M	17.31	0.866	Y
825	9	M	16.35	0.53	.
826	10	M	11.33	1.432	.
827	10	M	16.77	1.325	Y
828	10	M	11.93	1.889	.
829	8	M	14.49	1.961	Y
830	11	M	3.39	1.702	.
831	9	M	30.75	1.21	Y
832	8	M	11.51	1.2	.
833	10	M	12.23	1.615	Y
834	11	M	14.68	1.84	N
835	9	M	3.31	0.716	.
836	10	M	9.31	0.828	Y
837	12	M	10.55	0.666	.
838	11	M	0.01	2.097	Y
839	11	M	20.89	1.256	Y
840	11	M	0.21	1.689	.
841	12	M	28.18	1.302	.
842	12	M	9.18	0.455	.
843	8	F	12.65	2.145	.
844	8	F	7.44	0.959	.
845	9	F	6.37	1.187	Y
846	11	F	0.01	2.518	.
847	12	F	18.68	1.735	Y
848	12	F	0.01	1.04	Y
849	11	F	0.01	0.744	Y
850	11	F	0.01	0.812	Y
851	11	F	0.01	0.476	Y
852	12	F	9.37	1.845	Y
853	12	F	0.01	1.005	Y
854	11	F	0.01	1.473	Y
855	11	F	3.81	5.01	Y
856	11	F	0.01	2.363	Y
857	11	F	6.01	1.281	Y
858	11	F	0.01	2.208	Y
859	11	F	0.01	2.432	Y
860	10	F	11.87	0.385	Y
861	12	F	0.01	2.912	Y
862	10	F	0.69	1.08	Y
863	10	M	8.04	1.444	.
864	11	M	0.01	1.741	.
865	11	M	0.01	0.907	.
866	11	M	11.69	1.284	N
867	11	M	0.01	1.208	.
868	10	M	0.01	2.646	.
869	12	M	0.01	1.335	.
870	12	M	0.01	1.286	.
871	12	M	0.01	1.134	.
872	12	M	0.01	0.862	N
873	11	M	0.01	1.73	.
874	11	M	0.01	1.158	Y
875	11	M	6.73	2.705	.
876	9	M	0.01	0.831	.
877	10	M	0.01	1.273	N
878	11	M	0.01	1.567	.
879	12	M	8.64	1.148	.
880	12	M	0.01	0.857	.
881	10	M	.	1.566	Y
882	12	M	.	2.096	.
883	10	F	.	0.742	.

884	12	F	.	2.117	Y
885	8	F	.	0.986	.
886	9	F	.	0.789	N
887	10	F	.	0.957	Y
888	9	F	.	0.827	N
889	9	F	.	1.393	Y
890	9	F	.	2.257	Y
891	8	F	.	0.924	.
892	10	F	.	1.121	Y
893	8	F	.	1.907	Y
894	9	F	.	1.195	N
895	8	F	.	0.778	Y
896	11	F	.	0.72	.
897	10	F	.	1.015	Y
898	9	F	.	1.313	Y
899	12	F	.	2.454	N
900	10	F	.	0.994	N
901	11	F	.	1.059	.
902	11	F	.	0.822	.
903	10	F	5.7	0.322	Y
904	11	F	2.64	0.572	.
905	11	F	11.1	0.729	.
906	10	F	15.9	0.27	Y
907	10	F	15.6	1.311	Y
908	11	F	12.9	1.64	.
909	11	F	20.5	1.638	Y
910	11	F	23.4	1.052	Y
911	10	M	14.7	1.166	.
912	10	M	27.2	0.355	Y
913	10	M	18.5	0.515	.
914	10	M	33.9	0.491	Y
915	11	M	10	0.551	.
916	10	M	24.8	1.546	.
917	9	F	11.8	1.153	Y
918	10	F	33.4	1.017	.
919	11	F	12.4	0.304	.
920	11	F	25.9	1.882	.
921	10	F	6.7	1.497	.
922	11	F	35.6	2.365	.
923	10	F	23.9	2.132	.
924	11	F	27.1	4.118	.
925	11	F	26.1	0.86	.
926	10	F	24.7	3.478	.
927	11	M	35.5	1.179	.
928	11	M	22.5	1.225	.
929	12	M	18	0.492	.
930	11	F	20.9	1.396	.
931	12	F	15.1	0.561	.
932	11	M	7.7	0.495	.
933	12	F	24.7	0.783	.
934	12	F	17.8	4.03	.
935	11	M	36.1	2.115	Y
936	12	F	36.4	0.706	.
937	10	F	36.2	2.003	.
938	11	F	6.3	6.236	Y
939	12	F	36.4	1.627	Y
940	12	F	6	0.968	.
941	12	F	24.1	0.627	.
942	12	F	24.6	0.736	.
943	12	M	6.4	0.531	Y
944	12	M	6.8	1.294	Y
945	12	F	34.3	0.74	Y
946	12	M	27.8	2.133	.
947	12	F	33.7	.	Y

948	12	F	33.8	2.317	Y
949	9	F	27.4	0.308	Y
950	10	F	6.4	1.079	Y
951	8	F	22.6	0.515	Y
952	11	F	25.5	3.023	Y
953	9	F	22	0.939	Y
954	11	F	16	1.308	Y
955	12	F	25.4	2.926	Y
956	8	F	26.2	2.143	Y
957	8	F	23.1	1.33	Y
958	8	M	27.4	1.733	Y
959	9	F	8.2	0.871	Y
960	10	M	2.2	2.295	Y
961	10	M	16	1.567	Y
962	12	M	4.6	2.044	Y
963	9	M	23.5	.	Y
964	8	M	4.3	1.513	Y
965	9	M	21.4	0.887	Y
966	9	M	12	1.324	Y
967	11	F	23.1	1.354	Y
968	12	F	27.3	1.912	Y
969	12	M	17.5	.	Y
970	12	F	26.9	0.862	Y
971	8	F	4.3	0.652	Y
972	8	F	22.6	2.616	Y
973	12	F	1.6	0.485	N
974	8	F	19.3	0.846	Y
975	8	F	27.2	1.193	Y
976	8	M	15.4	1.023	Y
977	9	M	11.8	0.805	Y
978	9	M	13.2	0.824	Y
979	9	M	4.8	0.802	Y
980	8	F	26.5	.	Y
981	10	F	0.2	4.023	Y
982	9	F	19.3	1.912	Y
983	10	F	20.5	0.7	Y
984	11	M	24	.	Y
985	8	M	11	0.944	Y
986	8	F	26.4	1.235	Y
987	11	M	0.1	0.699	Y
988	12	M	10.9	0.72	.
989	12	M	25.9	1.248	.
990	9	M	27.4	1.379	Y
991	10	F	13.4	0.92	Y
992	10	M	26.5	0.744	.
993	11	F	19.9	0.581	.
994	10	F	19.9	0.734	.
995	10	F	18.5	0.686	Y
996	12	F	4	0.847	Y
997	10	M	23.9	1.31	.
998	9	M	24.8	0.959	.
999	11	M	18.3	0.981	Y
1000	12	F	19.9	3.012	Y
1001	8	F	38.2	1.57	.
1002	9	F	66	1.209	.
1003	8	F	1.4	1.518	.
1004	9	F	25.1	1.88	.
1005	8	F	20.5	1.167	.
1006	8	F	0.5	1.981	.
1007	8	M	0.5	0.938	.
1008	8	F	1.8	2.438	.
1009	8	F	1.5	1.264	.
1010	9	F	1.5	2.327	.
1011	9	F	0.7	2.842	.

1012	9	F	0.3	1.882	.
1013	8	F	52.6	1.563	.
1014	9	M	4.1	1.52	.
1015	9	M	12.3	1.784	.
1016	11	M	0.8	1.708	.
1017	9	M	1.4	2.615	.
1018	10	M	1.8	1.972	.
1019	9	M	0.8	1.634	.
1020	9	M	0.8	1.518	.
1021	10	M	2.2	2.992	.
1022	9	M	1.2	1.451	.
1023	10	M	0.9	1.213	.
1024	8	M	6.3	1.103	.
1025	10	M	0.4	1.593	.
1026	9	M	2.4	2.591	.
1027	9	M	0.4	2.928	.
1028	11	M	5.8	1.62	.
1029	10	M	1.8	1.382	.
1030	9	M	5.6	3.779	.
1031	10	M	3.9	0.978	.
1032	9	F	17.2	1.492	.
1033	10	M	1.2	1.123	.
1034	9	F	2.9	0.496	.
1035	8	F	1.6	2.178	.
1036	8	F	53.4	1.669	.
1037	8	F	0.8	0.709	.
1038	8	F	3.7	2.167	.
1039	8	F	19.7	0.884	.
1040	10	F	0.1	2.346	.
1041	8	M	0.1	0.9	.
1042	8	M	0.1	1.515	.
1043	8	M	4.1	0.783	.
1044	9	M	0.1	1.21	.
1045	8	M	1.8	0.617	.
1046	8	M	0.3	0.972	.
1047	11	M	7.8	1.886	.
1048	12	M	0.1	0.906	.
1049	11	M	0.1	1.32	.
1050	12	F	1.4	1.857	.
1051	12	F	0.7	1.186	.
1052	12	F	5.7	1.851	.
1053	11	F	0.7	2.503	.
1054	12	F	3	0.52	.
1055	12	F	0.1	3.586	.
1056	12	F	0.2	0.864	.
1057	12	F	0.2	1.965	.
1058	11	F	0.5	2.72	.
1059	11	F	4.2	1.086	.
1060	10	M	0.2	1.196	.
1061	8	M	0.1	0.537	.
1062	12	F	0.6	0.895	.
1063	12	F	0.1	0.697	.
1064	11	F	1	1.276	.
1065	11	F	0.5	0.874	.
1066	11	F	0.1	1.727	.
1067	10	F	0.1	1.37	.
1068	11	F	0.1	4.962	.
1069	12	M	0.1	2.248	.
1070	10	M	3	1.318	.
1071	10	M	6.5	0.499	.
1072	11	M	7.7	1.293	.
1073	8	F	2.8	.	.
1074	10	F	1.1	1.813	.
1075	10	F	0.1	1.114	.

1076	11	M	0.1	0.935	.
1077	9	F	0.3	1.687	.
1078	8	M	0.1	2.945	.
1079	8	M	0.4	1.428	.
1080	12	M	10.8	2.124	.
1081	10	F	0.2	2.233	.
1082	11	F	0.1	2.437	.
1083	9	M	0.1	1.793	.
1084	11	F	0.8	1.918	.
1085	12	F	0.4	3.021	.
1086	10	M	23.9	1.538	.
1087	11	F	16.8	1.858	.
1088	10	M	0.1	1.753	.
1089	9	M	0.8	2.762	.
1090	8	M	0.9	1.414	.
1091	9	F	0.6	2.568	.
1092	10	F	0.1	4.463	.
1093	12	F	0.1	2.393	.
1094	10	F	0.1	2.24	.
1095	11	M	0.4	1.135	.
1096	9	M	9	0.943	.
1097	10	M	11.7	2.381	.
1098	10	M	22.2	2.329	.
1099	12	M	33	2.348	.
1100	10	M	32.3	1.41	.
1101	11	M	7.5	2.294	.
1102	9	M	13.2	1.375	.
1103	8	M	1.8	0.971	.
1104	9	M	45.9	1.904	.
1105	8	F	1.9	1.284	.
1106	12	F	25.2	1.427	.
1107	9	F	0.2	1.138	.
1108	10	F	3.2	1.127	.
1109	9	F	0	1.621	.
1110	11	F	9.9	1.12	.
1111	8	M	7.9	2.422	.
1112	8	F	9.7	1.802	.
1113	8	F	6.7	1.353	.
1114	10	F	10	0.922	.
1115	8	M	0	1.648	.
1116	8	M	13.6	1.559	.
1117	9	M	21.8	1.729	.
1118	8	M	0	1.087	.
1119	8	F	3	1.008	.
1120	8	M	3.8	0.652	.
1121	8	M	0.7	0.576	.
1122	9	M	4.1	0.475	.
1123	8	M	0.5	0.789	.
1124	8	F	3.2	0.537	.
1125	9	F	6.7	0.877	.
1126	8	F	10.1	1.533	.
1127	8	M	0	0.967	.
1128	8	M	12.6	0.705	.
1129	8	M	26.6	0.553	.
1130	8	M	7.4	0.501	.
1131	8	M	19.9	1.194	.
1132	8	F	28.6	0.9	.
1133	12	F	21.1	1.418	.
1134	9	M	1.6	1.325	.
1135	9	M	13.5	1.669	.
1136	9	M	10.5	1.374	.
1137	10	F	16.5	1.488	.
1138	8	F	13.1	0.521	.
1139	10	F	27.7	1.413	.

1140	8	F	24	0.859	.
1141	10	M	19.8	0.892	.
1142	10	M	27.8	0.802	.
1143	8	M	19.4	1.024	.
1144	11	M	13.9	1.008	.
1145	10	M	33.7	0.209	.
1146	11	M	7	0.995	.
1147	9	M	6.8	0.776	.
1148	12	M	9.4	2.82	.
1149	11	F	13.1	0.823	.
1150	10	M	34.1	1.051	.
1151	11	M	50.4	2.073	.
1152	10	M	25.5	0.391	.
1153	10	F	31.1	1.232	.
1154	10	F	55.8	1.441	.
1155	12	F	30.2	0.828	.
1156	9	F	23.6	0.694	.
1157	12	F	45.6	1.82	.
1158	8	F	18.3	2.069	.
1159	8	F	21.5	0.966	.
1160	10	M	10	1.521	.
1161	11	M	22.8	1.249	.
1162	12	M	23.5	1.346	.
1163	11	M	27.1	2.778	.
1164	11	F	44.2	3.472	.
1165	12	M	17.8	2.014	.
1166	10	F	9.1	1.468	.
1167	11	M	16.6	0.847	.
1168	11	M	8.1	1.941	.
1169	12	F	10.9	2.039	.
1170	11	F	10.1	0.941	.
1171	12	F	2.4	2.367	.
1172	11	F	0	0.676	.
1173	12	F	8.3	0.843	.
1174	12	M	7.7	1.087	.
1175	12	M	19.3	1.717	.
1176	11	F	22.7	1.397	.
1177	11	F	13	1.872	.
1178	12	F	.	1.284	.
1179	11	F	6.2	4.1	.
1180	11	M	0.1	1.171	.
1181	9	M	0.1	1.225	.
1182	10	M	2.1	1.108	.
1183	11	M	0.02	1.256	N
1184	10	M	57.6	1.808	.
1185	10	M	0.1	1.519	.
1186	11	M	26.1	2	.
1187	10	M	0.1	1.482	Y
1188	9	M	6.9	2.029	.
1189	10	F	0.1	2.019	.
1190	10	F	43.2	5.201	N
1191	10	F	0.1	1.531	N
1192	12	M	0.1	2.755	Y
1193	11	M	0.1	1.96	Y
1194	12	M	15.9	1.705	.
1195	10	M	0.1	0.852	N
1196	11	F	14.9	2.9	N
1197	9	F	2.4	4.446	Y
1198	11	F	0.1	2.019	N
1199	10	F	0.1	1.587	N
1200	10	F	4.4	0.944	Y
1201	8	F	0.9	1.346	.
1202	10	F	6.7	3.049	.
1203	8	F	0.1	1.27	Y

1204	9	F	0.1	0.948	.
1205	10	F	2.1	1.28	Y
1206	11	F	8	1.193	Y
1207	8	F	4.6	1.188	N
1208	11	F	33.7	1.462	.
1209	11	F	0.1	0.684	Y
1210	9	M	0.1	0.701	Y
1211	11	F	16.6	1.323	Y
1212	12	F	0.1	1.913	Y
1213	12	F	1.4	1.232	Y
1214	11	F	7.2	.	Y
1215	11	F	0.1	3.289	Y
1216	11	F	0.1	1.069	N
1217	11	F	0.1	0.856	N
1218	11	M	9.7	1.557	Y
1219	12	M	0.1	0.957	N
1220	11	F	0.1	1.568	N
1221	10	F	0.1	1.62	N
1222	11	M	17.1	1.053	N
1223	10	M	0.2	2.368	N
1224	8	M	21.6	1.685	N
1225	10	M	4.4	.	N
1226	12	M	2.1	.	.
1227	11	M	6.1	1.367	Y
1228	11	M	0.1	.	N
1229	9	M	0.1	1.456	N
1230	11	M	0.1	.	N
1231	9	M	0.1	.	N
1232	11	M	0.1	1.115	N
1233	9	M	4.3	0.568	N
1234	9	M	0.1	1.741	N
1235	11	M	0.1	.	N
1236	9	M	0.1	1.714	Y
1237	9	F	0.1	.	Y
1238	11	M	0.1	1.135	.
1239	9	F	0.1	0.982	N
1240	9	F	0.1	1.305	N
1241	10	F	0.1	.	Y
1242	11	F	0.1	.	N
1243	10	F	6.7	.	Y
1244	11	F	0.1	1.296	Y
1245	8	F	0.1	2.134	Y
1246	9	F	30.7	1.521	N
1247	9	F	28.8	0.602	N
1248	9	F	11.2	0.459	Y
1249	9	F	0.1	0.811	Y
1250	10	F	6.2	1.607	Y
1251	11	F	5.4	.	N
1252	11	F	2.3	1.498	Y
1253	11	F	2.8	.	N
1254	11	F	10.9	5.746	Y
1255	12	F	5.6	2.355	N
1256	11	F	42.8	2.725	Y
1257	12	F	7.6	4.344	.
1258	12	F	4.3	1.315	Y
1259	10	F	7.8	0.998	N
1260	11	F	14.6	1.894	Y
1261	11	F	17.3	1.006	Y
1262	11	F	6.1	2.013	Y
1263	11	F	4.2	1.89	Y
1264	12	F	8.2	2.182	Y
1265	11	M	13.5	0.455	Y
1266	11	M	85.5	1.281	Y
1267	12	M	23.6	0.893	Y

1268	12	F	4.1	1.531	Y
1269	11	F	1.6	1.588	Y
1270	12	F	1.5	4.209	Y
1271	11	F	0.7	2.377	Y
1272	11	F	0.5	3.569	Y
1273	11	F	0.5	1.672	N
1274	11	M	0.2	1.262	Y
1275	12	F	0.1	2.253	Y
1276	11	F	0.1	1.276	N
1277	10	F	0.6	1.035	N
1278	11	F	1.9	0.947	Y
1279	11	F	75	1.861	.
1280	11	F	20.1	2.218	.
1281	9	F	65.8	2.726	Y
1282	11	F	6.2	1.171	Y
1283	8	F	69.2	1.228	Y
1284	11	F	12	5.092	Y
1285	11	F	18.4	3.222	Y
1286	12	M	41.7	5.145	Y
1287	10	M	52.6	4.567	Y
1288	11	M	16.9	1.051	Y
1289	12	M	56.2	1.817	Y
1290	12	F	68.5	3.086	Y
1291	10	F	9.1	2.221	Y
1292	9	F	37.8	1.772	Y
1293	10	F	13.7	1.351	Y
1294	9	F	24.5	1.096	Y
1295	8	F	27.8	2.295	Y
1296	9	F	18.4	1.911	Y
1297	9	F	12.7	1.852	Y
1298	9	F	27.1	0.526	Y
1299	12	F	29.8	3.109	Y
1300	12	F	91.5	1.898	Y
1301	8	F	21.5	2.177	Y
1302	9	F	22	0.429	Y
1303	12	F	70.7	0.542	Y
1304	9	F	19.6	2.409	Y
1305	9	F	57.1	1.35	Y
1306	9	F	51.1	3.176	Y
1307	9	F	35.2	1.759	Y
1308	8	F	33	0.342	Y
1309	10	F	31	0.781	Y
1310	8	F	28.9	0.579	Y
1311	8	M	44.5	1.912	Y
1312	8	M	71.5	1.371	Y
1313	9	M	24.9	3.274	Y
1314	9	M	11.9	1.648	N
1315	9	M	0.1	1.048	Y
1316	8	M	21.8	2.055	Y
1317	10	M	10.5	0.718	Y
1318	9	M	8.9	0.663	Y
1319	9	M	0.1	1.638	Y
1320	12	M	0.1	1.631	Y
1321	8	M	18.5	2.248	Y
1322	8	M	0.6	2.013	Y
1323	10	M	8	.	Y
1324	9	M	29.9	1.101	Y
1325	8	F	1.1	1.95	Y
1326	8	F	46.5	0.79	Y
1327	8	F	31.3	1.849	Y
1328	12	F	11.3	3.735	Y
1329	9	M	31.2	.	Y
1330	9	F	6.8	1.49	Y
1331	9	F	0.3	0.587	Y

1332	10	M	14.9	1.732	Y
1333	10	F	19.1	.	Y
1334	10	F	5.6	1.854	Y
1335	10	F	0.1	1.59	Y
1336	10	F	.	1.721	Y
1337	11	F	.	3.367	Y
1338	10	F	.	2.366	Y
1339	10	F	.	1.524	Y
1340	11	F	.	1.794	Y
1341	9	F	.	5.482	Y
1342	12	F	.	2.709	Y
1343	9	M	.	1.768	Y
1344	9	M	.	1.511	Y
1345	11	M	.	1.289	Y
1346	8	M	.	3.184	Y
1347	9	M	.	1.722	Y
1348	11	F	8.6	2.666	.
1349	11	F	17.8	1.518	.
1350	12	F	21.1	2.473	.
1351	12	F	15.4	1.809	.
1352	12	F	24.4	2.992	.
1353	12	F	0.1	4.069	.
1354	12	F	4.7	3.523	.
1355	12	M	13.3	2.429	.
1356	12	M	24.5	2.084	.
1357	12	M	0.3	1.576	.
1358	12	M	0.2	4.165	.
1359	12	M	1.8	3.496	.
1360	11	M	3.9	3.142	.
1361	11	M	1	2.548	.
1362	12	M	0.9	2.094	.
1363	12	F	18	2.537	.
1364	10	F	0.3	2.273	.
1365	12	F	9.5	2.867	.
1366	12	F	0.1	1.39	Y
1367	11	F	0.8	1.646	N
1368	10	F	1.8	1.11	Y
1369	10	M	36.4	2.337	.
1370	10	M	0.1	1.661	.
1371	10	F	0.1	1.457	.
1372	10	F	0.6	1.921	.
1373	9	F	1.9	1.436	Y
1374	9	F	1.9	2.631	Y
1375	8	F	2.4	0.874	.
1376	8	F	24.3	1.099	.
1377	8	F	11.8	1.023	.
1378	8	F	2.7	1.524	.
1379	8	F	1.3	1.199	.
1380	8	F	24.4	0.97	.
1381	8	M	17.3	0.766	.
1382	8	F	8.7	1.778	.
1383	8	M	.	0.805	.
1384	8	M	0.5	1.227	.
1385	9	M	0.9	1.719	.
1386	9	M	0.1	1.601	.
1387	9	M	5.1	1.323	.
1388	9	M	5.3	0.584	.
1389	9	M	5.8	1.159	.
1390	9	M	34.8	1.432	.
1391	9	M	36.4	2.148	.
1392	9	F	3.9	0.988	.
1393	9	F	3.4	0.848	.
1394	9	F	21.7	1.818	.
1395	9	F	6.9	1.191	.

1396	10	M	0.3	1.706	.
1397	11	M	30.8	1.689	.
1398	11	M	10.1	2.377	.
1399	12	M	0.9	2.774	.
1400	12	F	2.9	1.338	.
1401	11	F	0.1	3.745	.
1402	11	M	3.2	3.395	.
1403	11	M	5.8	3.218	.
1404	11	F	20.4	1.896	.
1405	11	M	4.6	1.67	.
1406	12	M	27.3	4.202	.
1407	11	F	3.4	0.991	.
1408	12	F	4.5	1.645	.
1409	12	F	17	1.91	.
1410	11	M	28.8	6.014	.
1411	11	F	4.9	1.804	.
1412	8	M	31.9	7.393	.
1413	8	M	24	1.061	.
1414	8	F	27.8	1.454	.
1415	8	M	27.5	2.712	.
1416	8	M	15.7	1.804	.
1417	8	F	35.4	1.824	.
1418	8	F	2.9	1.106	.
1419	8	M	33.8	2.059	.
1420	9	F	25.8	1.434	.
1421	9	M	6.7	2.553	.
1422	9	M	17.3	2.453	.
1423	9	F	3.8	1.322	.
1424	9	M	30.5	3.839	.
1425	10	F	10.2	1.193	.
1426	10	F	16.4	4.129	.
1427	10	F	0.1	1.982	.
1428	10	F	9.2	2.29	.
1429	9	F	7	4.298	.
1430	11	M	36.4	2.895	.
1431	9	M	25	1.547	.
1432	10	M	26.4	1.207	.
1433	9	M	25.7	1.366	.
1434	10	F	8.8	0.98	.
1435	11	F	28.2	1.019	.
1436	11	F	28.1	1.986	.
1437	11	M	11.1	7.334	.
1438	9	M	6	2.666	.
1439	11	F	36.3	0.88	.
1440	9	M	25.3	0.994	.
1441	11	M	22.1	1.122	.
1442	10	M	27.3	2.901	.
1443	11	M	36.1	3.557	.
1444	12	M	31.4	1.552	.
1445	12	M	20.4	2.199	.
1446	12	F	33.6	2.063	.
1447	12	F	31.2	1.376	.
1448	11	F	23.41	3.214	Y
1449	11	F	25.97	4.342	Y
1450	12	F	22.92	3.487	Y
1451	12	M	23.16	0.509	Y
1452	12	F	31.95	3.209	Y
1453	11	M	29.68	1.55	Y
1454	12	F	33.62	1.938	Y
1455	12	M	24.54	1.365	Y
1456	12	F	23.94	1.43	Y
1457	12	F	6.67	1.919	Y
1458	12	F	33.08	1.538	Y
1459	11	M	38.58	3.059	Y

1460	12	M	10.62	2.512	Y
1461	12	F	19.09	3.318	Y
1462	12	M	10.26	1.987	Y
1463	12	M	12.65	2.53	Y
1464	10	F	0.39	2.068	Y
1465	9	F	13.24	0.518	Y
1466	10	F	25.55	2.307	N
1467	9	M	28.84	1.162	Y
1468	11	M	30.69	3.851	Y
1469	10	M	7.81	2.26	Y
1470	10	F	21.67	1.562	Y
1471	12	F	19.88	1.897	Y
1472	12	F	33.08	3.068	Y
1473	12	F	23.34	2.938	Y
1474	11	F	18.08	1.59	Y
1475	11	F	31.29	3.409	Y
1476	12	M	35.65	1.767	N
1477	10	M	22.81	1.177	N
1478	9	M	34.22	2.351	Y
1479	12	M	23.82	3.399	Y
1480	10	F	36.84	2.277	Y
1481	12	F	15.81	3.042	Y
1482	11	F	18.02	3.495	Y
1483	10	M	24.12	0.836	N
1484	10	M	32.96	0.91	Y
1485	8	F	18.32	0.274	N
1486	11	F	32.84	1.384	N
1487	11	M	24.24	2.356	.
1488	9	F	34.81	1.432	Y
1489	9	F	28.54	0.806	N
1490	10	M	28.72	1.364	Y
1491	9	F	30.63	1.267	.
1492	11	F	15.09	3.744	Y
1493	12	F	24.06	0.976	Y
1494	11	F	33.32	0.806	Y
1495	10	F	30.03	2.584	Y
1496	10	F	35.29	2.942	.
1497	9	F	26.45	2.149	.
1498	12	M	22.15	1.151	Y
1499	10	M	38.82	2.664	.
1500	12	M	38.46	0.938	Y
1501	12	M	32.42	2.086	Y
1502	12	M	37.38	1.363	Y
1503	9	M	28.96	1.76	Y
1504	11	M	26.63	1.67	.
1505	10	F	32.61	2.084	Y
1506	9	M	31.17	2.11	Y
1507	12	M	32.96	1.522	Y
1508	12	M	23.46	1.317	N
1509	9	M	23.94	0.713	N
1510	9	M	23.46	1.584	N
1511	9	M	32.36	2.082	Y
1512	12	M	14.49	3.081	Y
1513	9	F	30.33	1.6	N
1514	9	F	19.99	1.016	Y
1515	10	F	31.23	1.536	.
1516	12	F	19.22	1.671	Y
1517	9	M	24.36	0.907	Y
1518	12	M	31.35	2.369	Y
1519	12	M	18.74	1.704	Y
1520	11	F	14.44	3.273	Y
1521	12	M	24.36	6.178	Y
1522	12	F	18.56	3.336	Y
1523	11	F	11.69	3.113	Y

1524	9	F	29.56	2.063	Y
1525	11	F	26.75	2.142	Y
1526	11	F	20.71	1.577	Y
1527	9	F	37.14	1.787	Y
1528	10	F	28.31	1.368	Y
1529	9	M	33.86	1.989	.
1530	9	M	30.63	1.299	.
1531	9	M	17.79	0.838	.
1532	11	F	8.34	1.311	Y
1533	9	F	16.59	0.986	Y
1534	11	F	15.09	0.806	.
1535	9	M	16.23	1.981	N
1536	9	M	9.89	1.485	.
1537	11	F	14.62	.	Y
1538	8	F	9.72	3.257	Y
1539	12	M	28.72	6.6	Y
1540	11	M	21.67	1.734	Y
1541	9	M	34.57	0.504	N
1542	11	M	26.45	1.148	Y
1543	10	M	7.09	0.638	.
1544	8	F	26.45	0.521	Y
1545	10	F	20.12	1.017	Y
1546	10	F	25.13	1.929	Y
1547	8	F	28.12	1.331	Y
1548	9	F	4.3	1.709	.
1549	9	F	4.7	0.932	.
1550	9	F	27.1	0.866	.
1551	9	F	8.9	1.947	.
1552	8	F	18.1	1.233	.
1553	8	F	5.4	1.014	.
1554	8	F	5.8	0.887	.
1555	8	M	8.8	2.635	.
1556	8	M	.	0.497	.
1557	8	F	8.1	1.311	.
1558	8	M	8.3	0.343	.
1559	8	M	13.4	1.368	.
1560	9	F	0.2	1.689	.
1561	8	F	2.9	1.175	.
1562	9	F	26.7	1.099	.
1563	8	M	9.2	1.971	.
1564	8	M	26.6	0.873	.
1565	9	F	11.5	2.144	.
1566	9	M	4.6	1.28	.
1567	8	F	.	2.171	.
1568	8	F	26.6	1.805	.
1569	10	F	9.9	1.628	.
1570	10	F	9	2.584	.
1571	9	M	3.2	1.78	.
1572	9	F	20.4	1.184	.
1573	8	F	12.7	1.025	.
1574	10	F	9	1.666	.
1575	8	M	5	0.698	.
1576	10	F	10.5	3.388	.
1577	9	F	0.1	1.692	.
1578	9	F	6.7	0.804	.
1579	9	F	6.4	1.004	.
1580	8	F	27	1.163	.
1581	10	M	4.8	0.925	.
1582	10	M	7.9	0.824	.
1583	9	M	20	1.637	.
1584	11	F	19.3	1.631	.
1585	9	F	0.1	0.949	.
1586	9	F	0.1	0.487	.
1587	9	M	.	2.253	.

1588	12	M	.	0.78	.
1589	8	M	21	1.471	.
1590	8	F	24.3	1.415	.
1591	8	F	27.4	2.849	.
1592	9	M	1.9	5.713	.
1593	12	M	23.4	6.052	.
1594	9	M	23.8	1.453	.
1595	9	M	4.6	1.631	.
1596	8	F	25.3	1.761	.
1597	8	M	15.9	1.078	.
1598	10	M	13.2	1.457	.
1599	11	M	24.5	1.944	.
1600	10	M	4.7	2.954	.
1601	10	M	9.2	1.493	.
1602	12	M	25.6	3.013	.
1603	9	F	0.2	1.627	.
1604	9	M	27.2	1.633	.
1605	9	M	17	1.721	.
1606	12	M	21.4	1.598	.
1607	12	M	15.7	1.514	.
1608	9	M	19.5	1.809	.
1609	11	M	8.7	2.931	.
1610	12	M	23.2	1.73	.
1611	11	M	10.8	1.974	.
1612	11	M	11.9	0.973	.
1613	11	F	16.6	1.468	.
1614	12	F	14.7	2.079	.
1615	12	F	27.1	7.642	.
1616	9	F	23.2	3.404	.
1617	9	F	20.9	1.537	.
1618	9	F	24.5	2.815	.
1619	9	F	25.6	1.514	.
1620	10	F	27	1.125	.
1621	11	F	15.9	1.928	.
1622	12	F	24.5	5.22	.
1623	12	F	26.6	1.626	.
1624	9	M	11.3	2.879	.
1625	12	F	14	2.903	.
1626	10	F	0.1	1.908	.
1627	12	F	26.7	4.4	Y
1628	12	M	16.7	1.626	N
1629	11	M	22.1	3.01	.
1630	12	M	27.4	2.18	.
1631	12	M	23.6	3.307	.
1632	12	F	22.8	2.74	.
1633	12	F	.	1.082	.
1634	12	F	24.3	1.835	.
1635	11	F	3.2	2.614	.
1636	10	F	24.8	.	.
1637	12	F	19.5	0.983	.
1638	10	F	14.3	0.905	Y
1639	9	F	22.7	2.382	Y
1640	12	F	25.7	1.636	Y
1641	9	M	9.2	.	Y
1642	9	M	12	1.417	.
1643	10	F	22.2	2.323	.
1644	12	F	13.8	1.711	.
1645	11	M	27.4	1.469	.
1646	12	M	27.3	1.931	.