Evaluation of Thyroid Radioactivity Measurement Data from Hanford Workers, 1944-1946

T. A. Ikenberry

May 1991

Prepared for the Technical Steering Panel

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MEASUREMENT DATA FROM
HANFORD WORKERS, 1944-1946

Hanford Environmental Dose Reconstruction Project

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the Technical Steering Panel

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This document has been reviewed
and approved for by the Technical
Steering Panel.

J. E. Till, Chairman
Technical Steering Panel
Hanford Environmental
Dose Reconstruction Project

April 19, 1991
Date

FOREWORD

Appendix B is a record of TSP comments and Battelle's responses to those comments; the TSP has reviewed and approved Battelle's responses. The comment numbers appear in this document in the left margin next to the paragraphs in which the corresponding comments are addressed. Any text that has been changed is shown in italics. In addition to changes to address TSP comments, some text has been changed for correction of errors and for further clarification.

PREFACE

This report describes the preliminary results of an evaluation conducted in support of the Hanford Environmental Dose Reconstruction (HEDR) Project. The primary objective of the HEDR Project is to estimate the radiation doses that populations could have received from nuclear operations at the Hanford Site since 1944. A secondary objective is to make information that HEDR staff members used to estimate radiation doses available to the public.

The objectives of this report were to make available thyroid measurement data from Hanford workers for the years 1944 through 1946, and to investigate the suitability of those data for use in the HEDR dose estimation process. An important part of this investigation was to provide a description of the uncertainty associated with the data. Lack of documentation on thyroid measurements from this period required that assumptions be made to perform data evaluations. These assumptions introduce uncertainty into the evaluations that could be significant. It is important to recognize the nature of these assumptions, the inherent uncertainty, and the propagation of this uncertainty through data evaluations to any conclusions that can be made by using the data.

Because the current objective is to make the historic thyroid measurement data publicly available, future work may be needed to quantitatively determine the overall measurement and calculational uncertainty, and therefore to determine if these data are sufficiently reliable to contribute to the HEDR dose estimation process. If questions on measurement uncertainty can be satisfactorily resolved, the potential for these Hanford worker data to provide thyroid dose information or act as a bounding case for general population thyroid doses may be addressed in a subsequent report.

SUMMARY

Thousands of thyroid radioactivity measurements were made on Hanford workers employed in nuclear fuel reprocessing facilities during the years 1944 through 1946. These measurements were used at that time as a qualitative measure of radioactive iodine in worker thyroid glands. Called "thyroid checks," the measurements were performed in the general plant environment using portable radiation detection instruments. Results of the thyroid check measurements were compared to a screening level for tolerable thyroid exposure from iodine-131 to assure that workers did not receive excessive iodine-131 exposures.

Results of 7933 thyroid check measurements made on nearly 1600 individual workers were collected from personnel survey summary records and evaluated. Measurement dates ranged from October 1944 to September 1946, with more than 99% of the results from June 1945 through August 1946. These measurement results represent more than 96% of the 8211 thyroid checks known to have been made during this period.

Observed measurement count rate results and estimated iodine-131 thyroid burdens were low. The highest observed thyroid check result was 49 net counts per minute (cpm). More than 36% of all results were zero, and 98% of the results were less than 20 net cpm. Using a historically determined calibration factor for iodine-131 in the thyroid, the highest count rate result was estimated to represent a point-in-time thyroid burden of 130 nCi. More than 98% of the point-in-time thyroid burdens estimated from count rate results were less than 50 nCi of iodine-131. The established screening level during most of this time period was 750 cpm, which corresponded to an iodine-131 thyroid burden of 2 μ Ci. This 2- μ Ci thyroid burden was based on a stated long-term "thyroid radiation tolerance" of "1 r/day," which is approximately equal to 1.2 rad/day.

The thyroid radioactivity measurement data are subject to uncertainty that may limit their usefulness to the HEDR dose estimation process. Uncertainties associated with the measurement process must be better defined for available data and related information to be used for drawing definitive

conclusions about thyroid doses or acting as a bounding case for general population doses. Sources of uncertainty include

- the qualitative nature of the thyroid checks; the checks were intended only as part of a screening program for worker exposure to the tolerance amount of radioactive iodine, not as quantitative determinations of worker thyroid dose
- the small amount of detailed information available on thyroid check measurement procedures, data recording or interpretation, or worker selection and sampling
- infrequent sampling on an individual basis for a short-lived radionuclide like iodine-131 at inconsistent intervals
- the fact that more than 98% of the results were within a factor of two of the normal instrument background levels, resulting in a rather high statistical uncertainty
- use of portable or semiportable detection instrumentation
- lack of information on the exposure pathway of the radioactive iodine
- lack of differentiation between relative contribution of occupational or environmental sources of radioactive iodine
- only inferential evidence that iodine-131 was the radionuclide being measured; apparent sources of radiation other than iodine-131 were discovered in the data.

CONTENTS

<i>FOREWORD</i>	<i>iii</i>
PREFACE	v
SUMMARY	vii
INTRODUCTION	1
THYROID RADIOACTIVITY MEASUREMENTS	3
THYROID CHECKS	3
WORKERS RECEIVING THYROID CHECKS	4
THYROID CHECK DETECTION INSTRUMENTS	5
BEGINNING OF ROUTINE THYROID CHECK PROGRAM	7
THYROID RADIATION TOLERANCE LEVELS	8
RECORDS	13
SOURCES OF MEASUREMENT UNCERTAINTY	15
RECORDS AND MEASUREMENT DATA	15
PROCEDURES.	16
USE OF PORTABLE INSTRUMENTS	17
COUNTING STATISTICS	18
EVALUATION	23
RESULTS AND DISCUSSION	25
QUALITY ASSURANCE	35
REFERENCES	37
APPENDIX A - THYROID MEASUREMENT DATA	A.1
APPENDIX B - SUMMARY OF TSP COMMENTS AND BATTELLE RESPONSES	B.1

FIGURES

1	Relative Counting Error of Thyroid Measurements	21
A.1	Typical Personnel Meters Summary Record Sheet	A.2

TABLES

1	Thyroid Checks Performed in the Separations Plants, 1945-1946	8
2	Early Evolution of the Thyroid Radiation Tolerance Level for Iodine-131 at the Hanford Engineering Works	10
3	Number of Thyroid Check Measurements Performed Per Month	26
4	Distribution of Thyroid Check Observed Net Count Rate Results	28
5	Distribution of Estimated Iodine-131 Thyroid Burdens	31
A.1	Listing of Thyroid Measurement Data from Hanford Workers, 1944-1946	A.3

INTRODUCTION

In recent years concern has been mounting about possible health effects to the public from more than 40 years of operations at the Hanford Site. These operations have resulted in the release of radioactive airborne emissions and liquid effluents to the environment. In 1986, following a review of epidemiological and environmental data relevant to Hanford operations, the Hanford Health Effects Review Panel recommended that a study be conducted to reconstruct potential radiation doses to the general public.

The Hanford Environmental Dose Reconstruction (HEDR) Project was begun to develop estimates of the radiation doses that populations could have received from Hanford operations, along with descriptions of the uncertainties inherent in such estimates. Of particular interest is the development of radiation doses for the period before 1957, when the first historical radiation dose estimates were reported in annual environmental monitoring reports. Battelle staff at the Pacific Northwest Laboratory conduct the project under the direction of an independent Technical Steering Panel.

The period of study for the HEDR Project begins in September 1944, when the first reactor, B Reactor, went into operation. The nuclear industry was in its early infancy, and the Hanford facilities were the first of their kind in the world. Radiation in large doses was known to be harmful to humans, and the large quantities of radioactive material being produced and processed caused concern about radiation health effects on workers. Actions were taken to control and monitor worker radiation exposure; one of these exposure monitoring actions was a periodic check for the presence of radioactive iodine in the thyroid.

Iodine-131 was one of the radionuclides first known to be a potentially significant hazard to workers involved with Hanford fuel reprocessing operations. A beta-gamma radiation emitter, iodine-131 concentrates in the thyroid gland, which is the critical organ for evaluating radiation dose from radioiodines. Iodine-131 is created in large quantities in nuclear reactor

fuel and is intensely radioactive because of its relatively short half-life of 8 days. During 1944 through 1946, iodine-131 was present in fuel sent to the reprocessing plants.

During fuel reprocessing, transuranic radionuclides were recovered from the irradiated reactor fuel. Other radionuclides were generally treated as waste material. Reprocessing released the radioactive iodine from the fuel, mainly in a volatile form that was transportable. Fuel reprocessing plant workers could be exposed from leaks in process lines or vessels, or from stack emissions containing iodine-131. These emissions could be present in the processing plant environment, as well as at locations off the Hanford Site as a result of environmental dispersion. Fuel reprocessing plant workers could be exposed to iodine-131, therefore, in two distinctly different ways: 1) in the workplace, as part of their normal jobs; or 2) from the environment, as part of the general public during those hours when they were not working at Hanford.

The thyroid measurements made on these Hanford workers may therefore provide information on iodine-131 in the thyroid gland resulting from environmental as well as occupational exposures to iodine-131. It may be possible to use measurements made for occupational purposes to estimate worker environmental exposures to iodine-131, and to further extrapolate to thyroid exposures to the general public near the Hanford Site.

This report presents the available thyroid measurement data from Hanford workers for the years 1944 through 1946. It also investigates the suitability of that data for use in the HEDR dose estimation process, and provides a description of the uncertainties associated with the data. Additionally, estimates of point-in-time worker thyroid burdens of iodine-131, derived from the measurement data, are presented.

THYROID RADIOACTIVITY MEASUREMENTS

Thyroid radioactivity measurements on workers at the Hanford Engineering Works were closely tied to the beginning of fuel reprocessing operations. The T-Plant separations facility began reprocessing operations in December 1944, and a second plant, B-Plant, began operation in April 1945 (Stainken 1948). These two plants accounted for essentially all of the radioactive iodine emissions at Hanford during the 1944 through 1946 time period.

THYROID CHECKS

The only thyroid monitoring done during this period was called a thyroid check. Thyroid checks were a quick, simple, non-invasive technique for qualitatively measuring the amount of radioactive iodine in the thyroid of a worker. They were used as a screening technique, with results compared to a thyroid radiation tolerance level to assure that a thyroid overexposure did not occur. Thyroid checks were apparently not considered to be part of an official bioassay program, and a historical review of personnel dosimetry programs at Hanford makes no mention of them (Wilson 1987).

The thyroid checking technique used a portable Geiger-Mueller (GM) detector to measure the gamma radiation being emitted from radioactive iodine in the thyroid gland. The detector was placed lightly against a worker's neck near the thyroid, which is bi-lobed and located in front of and on either side of the trachea roughly halfway between the larynx and the clavicle. Performed by a Health Instruments Inspector (modern day equivalent to a health physics technician), two readings were taken, one each on the right and left lobes of the thyroid gland. Results of both right and left measurements were then recorded, apparently as net counts per minute above background.

The first documentation of thyroid checks being performed is found on Personnel Meters Summary record sheets (Figure A.1, appendix), which are the source of measurement data evaluated as part of this study. These records indicate that the first thyroid checks were performed in late September or October 1944, well before the first reprocessing plant became operational in December 1944. It is possible that these early checks were unique, nonroutine

measurements taken, for example, on workers in experimental or developmental laboratories. Early thyroid check data may also be a result of transcription errors on the Personnel Meters Summary sheets, as numerous date errors and inconsistencies have been identified. In any event, these early checks (before May 1945) are few and represent a small fraction of the total records examined. Formal Hanford Works reports do not indicate thyroid checks being performed until late May 1945 with the implementation of a routine thyroid check program.

As part of a routine program, thyroid checks were performed "...as a part of the periodic medical examination done in the area." (Cantril and Healy 1945). The scheduled frequency of the examination is not known, but it appears that the counts would have been taken not in the radiation work areas but in the general plant area, perhaps in a designated medical or first aid office. This is important because the GM detectors used detected any incident gamma radiation; they were not specific to the gamma radiation being emitted by iodine-131. Therefore, any other radiation present, such as high background radiation, external skin or clothing contamination, or internal contamination by radionuclides other than iodine-131 could contribute to the reading assumed to be entirely iodine-131. By taking the thyroid checks in a plant area isolated from process operations, contribution from these other sources of radiation could have been more easily avoided and detected if they existed.

WORKERS RECEIVING THYROID CHECKS

Thyroid check measurements were made on workers who had the highest potential exposure to radioactive iodine. Because the fuel reprocessing activities in the 200 Areas were known to be the greatest source of radioactive iodine, thyroid monitoring efforts were concentrated on workers in these areas. Summaries of the monthly thyroid checks (Operating History 1946) indicate T and U Plants in the 200 West Area, and B Plant in 200 East Area as the only locations where thyroid checks were taken. The Personnel Meters Summary record sheets very rarely indicate an individual who worked elsewhere; for example, in the 300 Area.

Thyroid check procedures from 1953 (Radiation Monitoring Sub-Section 1953) indicate that the people receiving thyroid checks were mostly those in the reprocessing facilities--sample collectors and canyon crane operators. They were checked weekly. Also checked were patrolmen, who received thyroid checks every 4 months. In the 1944 through 1946 time period, however, it appears that the scope of the thyroid checks was broader than in 1953. Evaluation of the summary sheets revealed that nearly 1600 individuals received thyroid checks, a larger number than would be expected for canyon workers and patrolmen alone. Very likely all of the individuals working in T, U, and B plants received thyroid checks during this time period.

THYROID CHECK DETECTION INSTRUMENTS

The earliest mention of the instruments used to make the thyroid checks was on June 5, 1945 (Parker and Gamertsfelder 1945). The use of "special thyroid counters" was noted, implying that something other than the normal survey detection instruments were used. Similarly, "A precise calibration of thyroid counters..." is noted in the June 30, 1945, monthly report (Parker 1945a). Not until October 1945 is the thyroid counter identified as "...a small brass Geiger-Müller counter..." (Cantril and Healy 1945). Brass-walled counters are again mentioned in December 1945, and a somewhat more detailed description of the brass-walled counter is given in the July 1946 report (Healy 1946) on calibration of detector readings to thyroid iodine-131 activity. It is assumed that all these references describe the same brass-walled GM detectors.

From descriptions in the referenced reports and anecdotal descriptions of the instruments, these thyroid detectors were simply a portable GM detector with a brass-walled probe. Healy (1946) described the detector probe as being 4.5 in. (11.4 cm) long and 0.75 in. (2 cm) in diameter, with a wall thickness of 1/32 in. (0.08 cm). His calibration studies indicated 375 counts per minute (cpm) for 1 μ Ci of iodine-131 in the thyroid, an efficiency of less than 0.02%.

Using a thyroid phantom, Healy checked the effect of counter and thyroid position on instrument readings. Measurements were made on the left lobe,

right lobe, and center of the thyroid. None were significantly different from one another, so an average value was used. Moving the detector as far as 20 mm either below or above the isthmus of the thyroid resulted in a reading approximately 83% of the maximum reading, which was taken on the thyroid isthmus. A reading taken 30 mm above the isthmus was 72% of maximum.

Also checked was the effect of thyroid depth on instrument readings. Healy assumed a thyroid depth of 4 mm, which gave 750 cpm per 2 μ Ci of iodine-131 in the thyroid. Thyroid depth effects up to 16 mm were checked, with a 16-mm depth resulting in a reading approximately 50% of that at 4 mm.

Only two reports (Cantril and Healy 1945; Parker 1945b) make any mention of the instrument background. Both these reports describe the normal background rate of this counter as being 20 cpm. It is possible that a normal background rate is mentioned so some measure of the detection limit can be made. In October 1945 the detectable level was "1/100th" of the tolerable amount of iodine-131 in the thyroid, while in December 1945 it was revised to "1/20th" of the tolerable amount.

All evaluations of thyroid check results done in this report assume that the particular brass-walled GM detectors were used for all measurements, although the instrument was not specifically identified until October 1945. Unfortunately, these counters apparently neither exist today nor apparently do any descriptions other than those referenced here. A detailed historical review of portable instruments used at Hanford since 1944 (Howell et al. 1989) does not make specific reference to the brass-walled GM detectors. It is possible that the brass-walled GM used was either a Victoreen GM or an Eltronics GM, with a specially modified probe. These were portable instruments with count rate meters rather than scalers.

Anecdotal information, however, describes the brass-walled counters as a rather heavy instrument that was powered by regular 110 V. It used a binary scaler, with a movable brass-walled probe connected by cord to the body of the instrument. Because these instruments were somewhat cumbersome, they were usually left in the Health Inspector office, and thyroid checks were conducted there.

BEGINNING OF ROUTINE THYROID CHECK PROGRAM

A routine program of checking worker thyroids for the presence of radioactive iodine was not begun until late May or June 1945 (Parker and Gamertsfelder 1945). The impetus for implementing a routine program came from two separate events, occurring on May 27 and May 30, 1945. Changing meteorological conditions caused the plant emission plumes to downdraft from the stack and enter the facilities. The following description of the events is taken from the June 1, 1945, weekly report for the Health Instruments Section (Parker and Gamertsfelder 1945):

"Sudden wind changes brought active fumes to the ground within the plant areas on the day shifts on 5/27/45 and 5/30/45. The concentration of radioactive iodine was not accurately measured, but it was approximately 100 times the continuously tolerable value, and probably occurred with a dilution factor from the direct stack gas of between 100 and 200.

The atmospheric activity rapidly dispersed, but wherever the fumes had been, a coating of active iodine was left. Ground contamination of 0.8 mrep/hr and 2.5 mrep/hr was caused in the respective incidents. The fumes were sucked into the buildings 221 and 222 and indoor contamination was widespread. In the Control Laboratory, 222-T, the background on the four-fold hand counter rose to 17 registers from the normal of 3 to 4. The filters on all air conditioning systems functioned as iodine collectors, and became strongly active (≈ 28 mrep/hr). Dry filters as in Room 19, 222-T, were inefficient collectors and the indoor contamination in such areas was consequently higher.

In the B-Plant, the clothing of many employees became contaminated, but no garment was found to give a contact dosage-rate in excess of 1.5 mrep/hr. This was almost the same as the plant permissible level of hand contamination (one-third of the tolerable value $4.17 \text{ mrep/hr} = 1.4 \text{ mrep/hr}$). As the clothing was worn 16 hours a day against 24 hours for the hands, it was considered unnecessary to withdraw the personal clothing. Activity on the hands and face was readily removed by washing.

The most probable hazards from such depositions of radioactive iodine would be those of ingestion or inhalation, both of which send iodine to the thyroid. The tolerance dosage for such effects is known better than that for any other fission product, due to its prior use in therapy. The limiting dose gives a reading of about 2000 counts per minute on the special thyroid counters provided. To date no reading in excess of 20 counts per minute has been recorded, and this was probably partially due to contaminated

clothing. Nevertheless, a regular program of thyroid checks has been developed [emphasis added]."

Routine thyroid checks began almost immediately, with 160 checks performed in June 1945 and nearly 800 performed in July 1945. Between 450 and 800 thyroid checks were performed monthly from July 1945 through August 1946. Table 1 shows the summary of monthly thyroid checks performed during this time period.

THYROID RADIATION TOLERANCE LEVELS

The June 1, 1945, weekly report that documented the beginning of the routine thyroid check program also indicated that Hanford personnel were aware of radioactive iodine in the emission plume and considered it to be the

TABLE 1. Thyroid Checks Performed in the Separations Plants, 1945-1946
(from Operating History 1946)

<u>Month</u>	<u>T, U(a) Plants</u>	<u>B Plant</u>	<u>Total</u>
June 1945	150	10	160
July	450	306	756
August	416	235	651
September	300	164	464
October	320	202	522
November	343	179	522
December	283	205	488
January 1946	255	232	487
February	343	287	630
March	318	231	549
April	352	251	603
May	331	243	574
June	301	263	564
July	329	221	550
August	<u>409</u>	<u>282</u>	<u>691</u>
Totals	4900	3311	8211

(a) U Plant was never used for fuel reprocessing.
It was later used for uranium recovery
operations.

main radioactive hazard. There was also an awareness of ingestion and inhalation as potential exposure pathways, although absorption through the skin had apparently not yet been considered.

The concept of a thyroid radiation tolerance level for radioactive iodine was also being developed during the early operation of the Hanford Works. Table 2 shows the evolution of the tolerance level during the early days of the Hanford project.

The tolerance level--counts per minute on a portable instrument--was apparently used as a screening level for radioactive iodine in the thyroid. All thyroid check results were compared to the tolerance screening level as a reference on the magnitude of the result and acceptability of potential thyroid dose. There is no indication that thyroid check results were used to develop individual estimates of radioactive iodine thyroid burdens or thyroid dose. Indeed, there is no mention of portable instrument readings corresponding to iodine-131 thyroid burdens until late 1945, when thousands of thyroid check measurements had already been taken.

The earliest estimates used at Hanford on tolerable amounts of radioactive iodine in the thyroid were developed at the Metallurgical Laboratory of the University of Chicago. A report from mid-1943 gives a thyroid tolerance of 1 r/day (1 R/day), and allowable air concentration (8-h exposure) of 2.5×10^{-13} Ci/cm³ (Stone 1943). During late 1944 and early 1945, including the period of implementing the routine thyroid check program, the thyroid tolerable radiation level was 2000 cpm on portable GM radiation detection instruments. As far as can be determined, no studies had been done previously to determine precisely the activity of radioactive iodine in the thyroid to which this screening level corresponded.

By the end of June 1945, a "precise calibration of the thyroid counters" had been performed (Parker 1945a). This calibration used glass vials or bottles filled with a known amount of radioactive iodine and placed in a "model neck." The experimental results agreed well with prior calculations, and an iodine-131 tolerance amount of 5000 cpm was set. The limit of detection was noted to be less than 1/100 of the tolerance amount. This tolerance amount differed somewhat from the "limiting dose" of 2000 cpm noted at the

TABLE 2. Early Evolution of the Thyroid Radiation Tolerance Level (Screening Level) for Iodine-131 at the Hanford Engineering Works

12	Report Date	Instrument Reading	¹³¹ I Thyroid Burden (μCi)	Thyroid Dose Rate (a)	Continuous Air Concentration (Ci/cc air)	Fraction of Tolerance Amount Detectable	References
	May 7, 1943 ^(b)	N/A ^(c)	N/A	1.0 r/day	2.5×10^{-13} (d)	N/A	Stone et al. 1943
	June 5, 1945	2000 cpm	N/A	1.0 r/day	2.5×10^{-13} (d)	N/A	Parker and Gamertsfelder 1945
	June 30, 1945	5000 cpm	N/A	1.0 r/day	2.5×10^{-13} (d)	[1/100] ^(e)	Parker 1945a
	October 22, 1945	5000 cpm	13.7	1.0 r/day	1×10^{-13} (f)	1/100	Cantril and Healy 1945
10	December 17, 1945	750 cpm	2	1 r/day	1×10^{-13} (d)	1/20	Parker 1945b
	July 25, 1946	750 cpm	2	N/A	N/A	1/20	Healy 1946
	July 23, 1953	(g)	0.06	300 mrep/ 7 days	N/A day	N/A	Radiation Monitoring Sub-Section 1953

- (a) Dose rates given in original units; 1 r is assumed to equal 1 R (roentgen).
 (b) From University of Chicago Metallurgical Laboratory, used at Hanford.
 (c) N/A = not available.
 (d) 24-h exposure period.
 (e) [] = implied value.
 (f) 8-h exposure period.
 (g) Instrument used is a gamma scintillation detector, not GM detector.

beginning of June (Parker and Gamertsfelder 1945). No mention was made of the corresponding iodine-131 activity in the thyroid, or the thyroid dose rate attributable to the tolerance amount.

The 5000 cpm tolerance amount was used throughout the summer and fall of 1945, and was reaffirmed in a more detailed report issued in October 1945 (Cantril and Healy 1945). This report presented additional information on the medical use, research, and metabolism of iodine-131 specifically, and not simply "radioactive iodine" as had been previously mentioned. Calculations presented here show a tolerable thyroid dose rate of 1.0 r/day, approximately equivalent to 1.2 rad/day thyroid dose rate. The corresponding thyroid burden of iodine-131 was calculated to be 13.7 μ Ci.

Within 2 months, by early December 1945, it was determined that previous screening levels had significantly overestimated the amount of iodine-131 in the thyroid necessary to give the tolerable thyroid radiation dose (Parker 1945b). While the tolerable thyroid dose rate was still 1.0 r/day (1.2 rad/day), the iodine-131 thyroid burden was lowered to 2 μ Ci. The actual field screening level was also lowered significantly, from 5000 cpm to 750 cpm.

RECORDS

The thyroid measurement data presented in this report were taken from Personnel Meters Summary record sheets, an example of which is shown in the appendix. Approximately 20,000 of these records sheets were found in storage; more than 3500 sheets contained information on thyroid checks.

These records are considered to be unofficial for several reasons. First, E. I. du Pont de Nemours, Co., Inc., took all official records for operations when the time the company left the Hanford Engineering Works on September 1, 1946. All of these records were generated before this date. Second, there is no formal documentation on how these records were generated, where they came from, and their completeness, and no procedures or other information exist to help interpret the data.

The summary sheets appear to be a compilation of personal radiation exposure information taken from a variety of sources. Only one individual's data are on each sheet, but an individual may have more than one sheet. Each sheet was coded and the individual worker's name and payroll number removed before being made available for evaluation. Information of value for this evaluation include the Week Ending Date, Throat Check right and left readings, and record sheet code identifier. A complete listing of all available thyroid measurement data is presented in the appendix.

There are several problems with using these records. As mentioned above, these are unofficial records, and there is no formal documentation available on how to interpret any of the data contained on the sheets. There are numerous transcription errors on the record sheets, apparently made during the compilation from original logbooks or records to the summary sheets. These errors were primarily in the week-ending dates and years. (It is unknown how many other errors may also be included on the sheets.) Finally, because entries were handwritten and sometimes cryptic or illegible, interpretations and assumptions as to the meaning sometimes had to be made. All available data (using the assumed value where appropriate) were included in the evaluation.

SOURCES OF MEASUREMENT UNCERTAINTY

An important consideration in using the available thyroid measurement data in the HEDR dose estimation process is the reliability of the data. Potential sources of error in the available data must be identified and, if possible, the measurement uncertainty quantified. Data with a low degree of reliability are of limited use in further evaluations.

Potential sources of uncertainty in the recorded measurement values are identified here. These sources may include inherent statistical variability and errors made during the measurement process, during data recording, and during data interpretation because of lack of data documentation. No effort is made in this report to quantify or estimate the bounds of potential data uncertainty.

RECORDS AND MEASUREMENT DATA

Some weaknesses in the thyroid measurement records were described previously in this report. These include lack of documentation about the origin of the records and measurement data and transcription errors and inaccuracies that cannot be identified or quantified.

The measurement data available on the records sheets have no formal documentation on how to interpret the data. From interpretation of entries in reviewed historical reports and general knowledge of radiation counting and data recording methods, it was assumed that all measurement data were recorded as net counts per minute above background. There are no records of any gross count results or background counts taken, however, and it is possible that the measurement data are reported in a different format. These other formats could include gross counts per minute, gross counts (unknown counting time), or net counts (unknown counting time). It would logically appear, however, that the recorded values would be in the same units; that is, net counts per minute, as the screening level. Also, the high number of zero results seems to indicate that background counts were subtracted out, and net counts per minute were recorded.

The set of measurement data may also be incomplete. Thyroid checks reported in summaries from the Operating History (1946) numbered 8211, while only 7933 measurement results were noted in the examination of summary record sheets. The record sheet results also included a few measurements made in months outside the time period included in the operating history. It should be noted, however, that recovering this many measurements from 45-year-old unofficial records and having a total number of measurements taken to compare to is quite remarkable.

PROCEDURES

Not until 1953 did procedures exist that described how thyroid check measurements were taken or how results were used in the radiation protection program. Written procedures during 1944 through 1946 may or may not have existed, because the thyroid counting program was implemented very quickly. Because of the lack of detailed information on field operations, estimates and assumptions must be made about a number of important parameters. The historical reports reviewed to date provide little information on detailed field procedures.

Two specific parameters of interest are the actual counting time used and the method for subtracting background radiation. The only reference to measurement counting time is that it was short (Parker 1945b). For this evaluation, "short" was assumed to mean 1 minute for each thyroid lobe counted, a total counting time of 2 minutes. *It should be noted that there were distinctly more even-numbered than odd-numbered results from the counts of both the right and left thyroid lobes. The cause of this difference is unknown, but could have resulted from some unknown equipment or human rounding or recording bias. No attempt was made to eliminate this artifact.*

References to instrument background refer to the "normal" background count or count rate. This brings up the question of whether an actual background measurement was taken each day and at each counting location, or whether a "normal" background count rate of 20 cpm was subtracted from each result. Because nearly all measurement results (97%) were less than 24 net

cpm, and screening levels during this period were 2000, 5000, and 750 net cpm, it is understandable why a normal background result might be used. When compared to the much higher screening level value, a difference of a few counts per minute between the assumed normal rate and the actual background rate seemed trivial, particularly if there were numerous thyroid checks to be done and workers were waiting.

It is particularly relevant to note that thyroid check results were apparently not used to calculate worker thyroid burdens or doses. Thyroid check results were simply compared to a screening level (given in net counts per minute) that corresponded to the thyroid radiation tolerance amount. Health Instruments inspectors recorded the results and made the comparison to determine if the results showed an unacceptable thyroid radiation exposure.

Other unknown procedural elements that could affect the uncertainty of measurement results are the lack of information on how and where measurements were made, and the amount of training given to Health Instruments inspectors who made the measurements. The location when thyroid checks were made is important because proximity to the work area introduces the possibility of nearby radioactive material handling or airborne radioactivity contributing to measurement results. External contamination on surrounding surfaces or on the skin or clothing of workers could also contribute to measurement results.

How the detector was placed in counting the thyroid gland was also important. A calibration report (Healy 1946) noted that the particular brass-walled detector was at least twice as efficient as other available instruments. Moving the detector 30 mm from the isthmus of the thyroid during counting could reduce count results by 25%; smaller distances from the isthmus showed correspondingly less error. Use of the appropriate detector and placement in the correct location, determined by appropriate procedures and training, could have had a significant effect on measurement results.

USE OF PORTABLE INSTRUMENTS

The use of portable or semiportable instruments for thyroid checks shows a great deal about the qualitative nature of the measurements. All counting instruments are subject to the vagaries of the environment (temperature,

shock, humidity) and require routine source checks and periodic calibration. Portable instruments, however, tend to have less rigorously controlled calibration and maintenance checks, and are more subject to changes in counting geometry and extraneous sources of radiation.

The portable or semiportable instruments used for thyroid checks from 1944 through 1946--and also into the early 1950s--were GM detectors. These detectors operate on a total tube discharge principle and thus cannot distinguish between different types of radiation. Use of the brass-walled detector with no window eliminated any alpha radiation and most beta radiation; however, any incident gamma radiation, regardless of source, would be detected. Numerous gamma-emitting radionuclides, fission products from the reprocessed fuel, could have been detected and their signal interpreted as iodine-131. By 1953, advances in instrumentation had relegated the GM detector to a qualitative estimator role in thyroid checks, replaced by the more efficient gamma scintillation detector.

5 The type of counting equipment used with the detection instrument was also important. Analog count rate meters would make the task of counting much more difficult, because of the need to time the count and count pulses simultaneously. Scalers with timers would have made the task much easier. The scaler used during this time period was a binary scaler. Registers of lights gave indication of detection of counts by 1, 2, 4, and 8, *with octads registered by mechanical counter.*

The fact that portable or semiportable instruments were used, with their associated variability and unreliability, is more evidence that the thyroid checks were used qualitatively as indicators of worker exposure to iodine-131, not to quantitatively determine the activity in the thyroid. Measurements made using these instruments are subject to uncertainty in several different areas, a fact that should be considered in any use of the measurement data.

COUNTING STATISTICS

Any measurements of radiation are subject to variability caused by the random nature of radioactive decay. This variability can be quantified

through the use of counting statistics. Counting statistics use a number of statistical parameters, including counting time, background counts, and gross or net radiation counts. Unfortunately, this information was not provided with the thyroid measurement data, adding uncertainty even to this normally quantifiable variability. Estimates of some of these parameters can be made, however, from general references to thyroid counts made in historical reports.

Two reports (Cantril and Healy 1945; Parker 1945b) made references to the normal background count rate of the brass-walled counters used to perform the thyroid checks; this count rate was 20 cpm. Parker (1945b) also mentioned that the counting time was "short;" it was assumed for this report that the counting time was 1 minute for each of the thyroid lobe readings that comprised a thyroid check measurement. This total counting time is in general agreement with a later procedure for thyroid checks (1953), which used a single 2-minute thyroid counting period.

Using these estimates of thyroid check counting parameters, estimates can be made of the relative counting error. The coefficient of variation (CV) expresses the standard deviation as a function of the quantity being measured. For a count rate it is defined as (Lapp and Andrews 1963)

$$CV = \frac{\sigma_R}{R_s}$$

where CV = coefficient of variation of the net sample count rate

σ_R = standard deviation of the net sample count rate

R_s = net sample count rate

Calculating CV in percent using the estimated standard deviation of the net sample count rate based on a single sample count and a single background count is shown as

$$CV (\%) = 100 \left[\frac{\frac{R_g}{t_g} + \frac{R_b}{t_b}}{R_s} \right]^{1/2}$$

where R_g = gross count rate of the measurement and background

t_g = measurement counting time

R_b = count rate of the background

t_b = background counting time

$R_s = R_g - R_b$ = net count rate of the measurement

Figure 1 shows CV as a function of net counts per minute, assuming a 1 minute count time each for background and measurement, and assuming a background count rate of 20 cpm. At 1 net cpm, the lowest positive result observed in the measurement data, the CV exceeds 600%. The CV exceeds 100% until at least 7 net cpm are observed. Thus for thyroid measurement results very close to zero, the variability inherent in the measurements is relatively high, but is quantitatively rather small. One net cpm ± 1 CV ranges from 0 to 6 net cpm (negative results are not included); 7 net cpm $\pm$ CV ranges from 0 to 14 net cpm. Low counting results remain low even when the counting variability is considered.

The decision limit and detection limit (NCRP 1978) for the thyroid measurements can be estimated by knowing the total background counts, or background count rate and background count time. The decision limit (L_C) is the net number of counts for reaching a decision of no detection (not positive) if the actual net counts are less than L_C , and reaching a decision of signal detection (positive) if the actual net counts are greater than L_C . It is established *a priori* by fixing an acceptable level of false positive; that activity is detected but in reality none exists. The level usually selected is 0.05, meaning that, on the average, 5% of the measurements made on a person with no internal radioiodine would be expected to result in the erroneous conclusion that the radioiodine was present in the thyroid.

Like L_C , the detection limit (L_D), or lower limit of detection (LLD) (Watson 1980) is also established *a priori*. It is directly proportional to the standard deviation of the background count rate. L_D is set by fixing an acceptable level of false nondetection; that is, setting a level at which no signal is detected, but one actually exists. This level is generally set at 0.05, meaning the probability of not detecting a truly positive count at the detection level is 5%. The probability of detecting activity present in a

FIGURE 1. Relative Counting Error of Thyroid Measurements

sample in an amount equal to the detection level is therefore 95%. At the detection limit the count is likely (95%) to be detected; as the activity in the sample is farther and farther below L_D , the detection becomes less probable. Similarly, as the level in the sample increases above the L_D , the detection probability increases.

The L_D (or LLD) can be used as a guidepost to the detection capability of the instrument being used. Assuming use of the brass-walled GM detector with a normal background count rate of 20 cpm and a count time of 1 minute, the L_C and L_D can be estimated as L_C ($\alpha = 0.05$), 10 cpm (assumes 20 cpm background count rate, 1-minute count time; counts per minutes rounded to nearest integer value); L_D ($\beta = 0.05$), 24 cpm (assumes 20 cpm background count rate, 1-minute count time; counts per minutes rounded to nearest integer value). Consideration of the L_C and L_D shows that there is uncertainty in determining whether or not measurement results close to zero are actually positive or not.

Taken into consideration with the counting error of the lower results, it is uncertain if thyroid check results less than 10 net cpm actually represent actual measurements of radioactivity in the thyroid.

It should be understood that relatively large measurement uncertainty is expected at and below the detection limit. Large measurement uncertainty for these low measurement results means that the actual presence of radioactivity is statistically uncertain, and not that there is some inherent flaw with the thyroid monitoring program.

EVALUATION

Initial stages of this evaluation consisted of compiling the available measurement records and putting the data into a usable form. The Pacific Northwest Laboratory Radiation Exposure Records Group located available Personnel Meters Summary record sheets and examined them for thyroid measurement data. Records containing thyroid data were photocopied, the employee names and payroll numbers removed, and the records forwarded for evaluation of the measurement data. All thyroid check measurement data on the summary records sheets were entered into a data base and 100% independently verified to ensure that data entry was correct.

Evaluations were performed on the complete set of measurement data; each result was considered to be an independent event, and no attempt was made to correlate them to individuals or make individual estimates of thyroid burden or dose. All results were included in the evaluations, including those that required interpretation from the record sheets. There were several measurement results that showed large differences between left and right readings of a measurement (e.g., 0 and 15). Ideally, left and right readings should be identical. These disparate reading results are difficult to explain, because radiation from one lobe of the thyroid may contribute approximately 20 to 30% of a count taken on the other lobe. Although readings of this type may in fact indicate a false positive result, no attempt was made to exclude any of these results. No accounting was made for potential differences in physical structure or metabolism between the lobes of the thyroid that could account for the differences. Also, an objective of this report was to present all available data, regardless of the uncertainty that could be associated with any of these measurements. In a similar sense, all of the very low measurement results are presented, although there may be a considerable degree of uncertainty in these measurements.

All evaluations of thyroid check results were conducted on the average of the right and left readings for each measurement. While evaluations could have been done on any of several parameters (right alone, left alone, sum of right and left, etc.), using the average has the advantage of being the most

consistent measurement and most easily converted to a estimate of thyroid burden. Use of an average value also makes the results directly comparable to the results of the calibration report for iodine-131 in the thyroid (Healy 1946). No significant difference was found between counts of either the right and left lobes of a thyroid phantom compared to a count taken centrally between the lobes. Therefore, the average of all measurements was used in making the conversion from instrument counts per minute to μCi of iodine-131 in the thyroid.

RESULTS AND DISCUSSION

Results of 7933 thyroid check measurements were identified and included in this evaluation. These results represent thyroid checks taken on nearly 1600 individual Hanford workers during 1944, 1945, and 1946.

Thyroid check measurement dates found in the summary records ranged from October 1944 to September 1946. Only week-ending dates were available for the measurements, with the earliest record of any thyroid check measurement for the week ending October 1, 1944. Relatively few thyroid checks were made during the period from October 1944 through May 1945. The occurrence of two plume events at the end of May 1945 and the implementation of a routine thyroid check program are reflected in a dramatic rise in the number of thyroid check measurements in June and July 1945, shown in Table 3. The high number of monthly thyroid checks, ranging from 450 to 750, continued through August 1946. Greater than 99% of all available records had measurement dates from June 1945 through August 1946.

Table 3 presents the approximate monthly distribution of thyroid checks taken from the summary records and compared to monthly totals in the operating history document. The operating history gives no indication of any thyroid checks before June 1945. This may be because the operating history includes only the thyroid checks made as part of the routine thyroid measurement program, or because the thyroid checks appearing from October 1944 into May 1945 are due to transcription errors made in compiling the summary sheets.

Differences exist between the monthly totals of the summary records and the operating history for two reasons. The thyroid check results of the summary records are available only by week-ending date; therefore, a monthly tabulation of these results is only approximate. Only 7933 thyroid check results were found in the summary records, compared to the 8211 thyroid checks reported in the operating history, a apparent discrepancy of 278 measurement results. The difference may be due to a simple accounting error in the operating history summaries or to missing measurement records. Although the

TABLE 3. Number of Thyroid Check Measurements Performed Per Month

<u>Month</u>	<u>Thyroid Check Measurement Records (a)</u>	<u>Operating History Document (b) Summary</u>
October 1944	3	
November	3	
December	4	
January 1945	2	
February	9	
March	4	
April	10	
May	13	
June	252	160
July	636	756
August	516	651
September	534	464
October	513	522
November	479	522
December	546	488
January 1946	469	487
February	543	630
March	680	549
April	512	603
May	504	574
June	591	564
July	538	550
August	570	691
September	<u>2</u>	<u> </u>
TOTALS	7933	8211

(a) Approximate monthly totals, estimated from week ending dates.

(b) Operating History (1946).

results found represent more than 96% of the thyroid checks reported in the operating history, the results may still represent an incomplete data set.

There is an artificial end to thyroid check results data in September, 1946. On September 1, 1946, E. I. du Pont de Nemours, Co., Inc., discontinued its Hanford Engineer Works operating contract and left the Hanford reservation, taking all official records. General Electric Company became the new operating contractor, and the compilation of the summary record sheets apparently ended at this time. Thyroid checks continued under General

Electric Company, however, as indicated by the December 1946 monthly report (Parker 1947), which noted 6766 total checks for 1946. More than 2100 additional thyroid checks were made from September through December 1946. Additional thyroid check data may be available for the months after August 1946; however, data are contained within each individual workers file, and are not available as a readily reviewed compilation of data as found in the summary records.

The distribution of the thyroid check measurement results is shown in Table 4. These results are assumed to be net count rates, or the counts per minute above the normal background. Each result is the average of the two readings taken during each measurement, one reading on the left and right lobes of the thyroid gland. Fractions of 0.5 or higher were rounded to the next higher integer.

The most striking feature of this data distribution is the preponderance of low net count rate results. Over 36% of the results were 0 cpm, and nearly 80% were less than 5 net cpm. Since the normal background count rate was reported as being about 20 cpm, more than 98% of all results are within a factor of two of normal background (20 net cpm). There were no results reported as being less than zero, which is not unusual considering how radiation surveys were recorded. Counts less than zero were called zero for convenience, although to be statistically correct the negative values should have been recorded. It is likely that the procedure used during this period called for reporting less than zero results as zero, thus resulting in a positive bias in the measurement results.

This distribution of results can be evaluated using the L_C parameter determined previously. The L_C is that level where a determination is made, with 95% confidence, that a result does or does not indicate the presence of activity. Ninety-three percent of all measurement results were at or below the decision limit of 10 net cpm. Therefore, there is 95% confidence that 7% of all results greater than 10 net cpm are actually positive and may represent the presence of radioactive iodine in the thyroid. For 93% of all results that are less than 10 net cpm, the confidence in the measurement result becomes less and less as it gets closer to 0 net cpm and farther

TABLE 4. Distribution of Thyroid Check Observed Net Count Rate Results

<u>Net CPM</u>	<u>Number of Results</u>	<u>Percent of Total Results</u>	<u>Cumulative Percent</u>
0	2877	36.3	36.3
1	972	12.3	48.5
2	883	11.1	59.6
3	673	8.5	68.1
4	610	7.7	75.8
5	344	4.3	80.2
6	343	4.3	84.5
7	225	2.8	87.3
8	192	2.4	89.7
9	131	1.7	91.4
10	126	1.6	93.0
11	95	1.2	94.2
12	104	1.3	95.5
13	60	0.8	96.2
14	45	0.6	96.8
15	33	0.4	97.2
16	31	0.4	97.6
17	32	0.4	98.0
18	14	0.2	98.2
19	15	0.2	98.4
20	10	0.1	98.5
21	15	0.2	98.7
22	15	0.2	98.9
23	13	0.2	99.1
24	7	0.1	99.1
25	9	0.1	99.3
26	7	0.1	99.3
27	6	0.1	99.4
28	4	0.1	99.5
29	1	0.0	99.5
30	7	0.1	99.6
31	4	0.1	99.6
32	4	0.1	99.7
33	3	0.0	99.7
34	4	0.1	99.8
35	2	0.0	99.8
36	2	0.0	99.8
37(a)	4	0.1	99.9
39	1	0.0	99.9
40	1	0.0	99.9
42	3	0.0	99.9
49	1	0.0	99.9
53	1	0.0	99.9
59	2	0.0	99.9
66	1	0.0	99.9
78	1	0.0	100.0

(a) Net CPM values are not sequential above 37 cpm because values without results are not included.

from 10 net cpm. The confidence in the lower results can be evaluated by considering the coefficient of variation, or relative counting error also discussed above. Results less than 7 net cpm have counting error of greater than 100%, not considering other sources of uncertainty. All results are subject to other uncertainties such as counting instrument variability, procedural unknowns, and record error.

Even results higher than the lower limit of detection, although less uncertain from a statistical point of view, are subject to other potential sources of error. For example, radiation that is detected and thought to indicate the presence of radioactive iodine in the thyroid may in fact be from some other source. In reviewing the highest count rate results of Table 4, those greater than 40 net cpm, it appeared that the highest five results and six of the highest nine results reviewed were actually due to external contamination and not to radioactive iodine in the thyroid.

External contamination is radioactive material that is present on the skin, hair, or clothing and is not present in the thyroid gland itself. The presence of external contamination is revealed by several thyroid check results occurring in the same week (and written in the same entry field), with the highest results first and differing from subsequent results by factors of 5 to 10 or more. The lowest variability and thus best counting statistics are seen at the higher count rates, and truly positive results (radioactive iodine in the thyroid) would not be expected to change by more than 30% to 50% per week, including the portable instrument variability.

By not including the above results, which were apparently due to external contamination, the highest result that could have come from radioactive iodine in the thyroid is 49 cpm. Other thyroid check results, which were not high enough to warrant recounting and thus be detectable in the records, may also be due to external contamination. If all activity is assumed to be from iodine-131 in the thyroid, the potential thyroid burden is overestimated.

Information is available that makes it possible to estimate the radioactive iodine thyroid burdens, meaning the activity of radioactive iodine present in the thyroid gland. A calibration report was issued in July 1946 (Healy 1946) to back up an earlier revision of thyroid radiation tolerance

amount and screening level (Parker 1945b). The calibration report shows 375 cpm on the brass-walled GM detector to be equivalent to 1 μCi of iodine-131 in the thyroid. If it is assumed that all measurements were taken using a brass-walled GM detector, and all results are due to the presence of iodine-131 in the thyroid, measurement results can be converted to estimated activity of iodine-131 in the thyroid. Table 5 shows the distribution of estimated iodine-131 thyroid burdens. There are only 7927 estimated thyroid burdens, because the six observed results caused by external contamination were not indicative of a true thyroid burden and were not included.

Because the 750-cpm screening level was shown to correspond to an iodine-131 thyroid burden of 2 μCi (Healy 1946), other lower results indicate a thyroid burden in the same proportion to the 2- μCi thyroid burden as the measurement result is to the 750-cpm screening level. For example, the highest result, 49 cpm, is 6.5% of 750 cpm. The iodine-131 thyroid burden indicated by this count rate would be 6.5% of 2 μCi , or 130 nCi (0.13 μCi).

Table 5 is very similar to Table 4, as it is a simple, direct conversion from net count rate results to estimated iodine-131 thyroid burdens. Again, the most striking feature of the distribution is the amount of very low results close to background. More than 36% of results indicate no thyroid burden, and more than 90% of the indicated iodine-131 thyroid burdens are less than 24 nCi (0.024 μCi).

All measurement results and derived quantities, such as thyroid burden, are subject to some degree of uncertainty. Much of the uncertainty, such as that resulting from record error, lack of detailed procedural information, instrument error, other sources of radiation, etc., can only be identified qualitatively. In only a few cases, such as the identification of those few results that were due to external contamination, can this uncertainty be identified and the data rejected.

Some of the uncertainty can be quantified, through the use of counting statistics. Counting statistics cannot be used, however, to eliminate some data results as "unacceptable;" the statistics simply give an indication of the data variability and thus help define the confidence one has in the data. The presentation of the coefficients of variation and lower limit of

TABLE 5. Distribution of Estimated Iodine-131 Thyroid Burdens

Thyroid ^(a) Burden (nCi)	Number ^(b) of Results	Percent of Total Results	Cumulative Percent
0	2877	36.3	36.3
3	972	12.3	48.5
5	883	11.1	59.6
8	673	8.5	68.1
11	610	7.7	75.8
13	344	4.3	80.2
16	343	4.3	84.5
19	225	2.8	87.3
21	192	2.4	89.7
24	131	1.7	91.4
27	126	1.6	93.0
29	95	1.2	94.2
32	104	1.3	95.5
35	60	0.8	96.2
37	45	0.6	96.8
40	33	0.4	97.2
43	31	0.4	97.6
45	32	0.4	98.0
48	14	0.2	98.2
51	15	0.2	98.4
53	10	0.1	98.5
56	15	0.2	98.7
59	15	0.2	98.9
61	13	0.2	99.1
64	7	0.1	99.1
67	9	0.1	99.3
69	7	0.1	99.3
72	6	0.1	99.4
75	4	0.1	99.5
77	1	0.0	99.5
80	7	0.1	99.6
83	4	0.1	99.6
85	4	0.1	99.7
88	3	0.0	99.7
91	4	0.1	99.8
93	2	0.0	99.8
96	2	0.0	99.8
99	4	0.1	99.9
104	1	0.0	99.9
107	1	0.0	99.9
112	2	0.0	99.9
131	1	0.0	100.0

- (a) Thyroid burden is estimated using the average of right and left thyroid scan results. Thyroid burden values are not sequential because values without results are not included.
- (b) Six results attributed to external contamination are not included (see text).

detection and comparison to this data set should therefore be considered only as guideposts, and not as criteria for rejecting or accepting the data. The LD (or LLD) in particular is to be used in an *a priori* manner; it is not intended to be used as an *a posteriori* criterion for presence or absence of activity (Watson 1980).

16 There are several areas of uncertainty in the thyroid check measurement data that have been discussed previously. These uncertainties limit the conclusions that may be drawn from these data. A large part of this uncertainty is due to attempting to use the data in a manner for which it was not intended. The original intent in 1945 for making these thyroid measurement was not to make estimates of thyroid burden or thyroid dose, but to compare to a thyroid radiation tolerance screening level and make a decision of acceptable or unacceptable thyroid occupational exposure. Because all results were far below this level, only cursory attention may have been paid to procedural monitoring or recording details. There was no intent to provide information about the exposure pathway, and one cannot differentiate environmental from occupational sources of iodine-131; in fact, no information specifically points to iodine-131 as the source of the radiation. Only the tendency of radioiodines to accumulate in the thyroid, and the relatively long half-life of iodine-131 compared to most other iodine isotopes point to iodine-131 as the most likely source of the radiation.

Evaluation of the thyroid radioactivity measurement data revealed the majority of net count rate results to be low, and iodine-131 thyroid burdens estimated from the results to likewise be low. Because the bulk of the results are quite low, the degree of uncertainty associated with these measurements is relatively large. Measurement uncertainty is due to potential measurement, instrument, recording, and interpretation errors, as well as statistical variability. The highest uncertainty resides in those results closest to zero that comprise most of the available data; greater than 90 of the data could be characterized as having associated uncertainty qualitatively described as relatively high. Because most of the measurement results were so low, even a relatively high uncertainty still leads to the conclusion that the results and their corresponding thyroid burdens were low. To be able

to make more detailed conclusions about this data, however, the data uncertainty must be better defined. Even then, lack of thyroid check information may limit any further conclusions that can be made.

QUALITY ASSURANCE

The work described in this report was performed in accordance with the requirements of ANSI/ASME NQA-1 1986 Edition, Quality Assurance Program Requirements for Nuclear Facilities, as interpreted by PNL's Quality Assurance Program. All data base operations and data evaluation were also performed in accordance with this document. All thyroid check measurement data on the summary records sheets were entered into a data base and 100% independently verified to ensure that data entry was correct.

Drafts of this document underwent internal independent technical review. Comments from the reviewers were satisfactorily resolved, and there were no controversial resolutions to the comments.

Available records were reviewed several times to assure that all record sheets containing thyroid measurements were located. When more than 5000 records were reviewed, only three records were found that contained unlocated thyroid data, an implied location efficiency of 99.98%. Measurement data on the three sheets were entered into the data base and included in all data evaluations.

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APPENDIX A

THYROID MEASUREMENT DATA

APPENDIX A

THYROID MEASUREMENT DATA

All thyroid measurement data were taken from Personnel Meters Summary record sheets, a typical example of which is shown in Figure A.1. Information taken from these record sheets includes the Week Ending Date (column 1) and Throat Check - right and left - entries (columns 14 and 15). Throat Check was assumed to mean thyroid check, with right and left representing the net counts per minute observed from the right and left thyroid lobes, respectively.

All individual identifying information (name, payroll number) was removed from the record sheets so that a blind evaluation was conducted. Each record sheet was coded using the letter and number designator found at the upper left-hand corner of the form. The record in Figure A.1 is coded C458.

Table A.1 is a complete listing of all thyroid measurement data used in this evaluation. Data are ordered primarily by the record sheet code number, and secondarily by the week-ending dates of measurements on that record sheet. Each record sheet may have more than one recorded measurement, and consecutively coded record sheets may or may not represent the same individual.

C-458
NW 2.149

PERSONNEL METERS SUMMARY

WEEK ENDING DATE:	WEEKLY PENCIL TOTAL	WEEKLY BADGE TOTAL	SIGNIFICANT READINGS OVER 100 MR				FINGER RINGS AND PACKETS		NUMBER OF HAND CHECKS		HIGH HAND SCORE		THROAT CHECK		URINALYSIS	
			DATE	AREA	PENCIL READING	BADGE READING	DM	S	A	P	A	P	RIGHT	LEFT	A	B
9-9-45	20	0														
9-16	70	0														
9-23	40	0														
9-30	15	0														
10-7	0	0														
10-14	10	0														
10-21	0	0														
10-28	5	0														
11-4	0	0														
11-11	5	0														
11-18	0	0											1	0		
11-25	10	0														
12-2	0	0														
12-9	20	0														
12-16	10	0														
12-23	10	0											0	7		
12-30	10	NP														
1-6-46	15	0														
1-13	5	0														
1-20	0	0											0	0		
1-27	0	0														
2-3	0	0														
2-10	0	0														
2-17	10	0											14	0		
2-24	0	0														
2-3	20	0														

AREA CLEARANCES: DATE ENTERED -- ALL _____; 100-B _____; 100-D _____; 100-F _____; 200-E _____; 200-M _____; 300 _____
DATE WITHDRAWN _____

DATES FROM: 9-9-45 TO: 3-3-46

FIGURE A.1. Typical Personnel Meters Summary Record Sheet

TABLE A.1. Listing of Thyroid Measurement Data from Hanford Workers, 1944-1946

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A1	01/13/46	2	0	A28	07/08/45	17	9
A2	10/07/45	10	2	A28	09/23/45	7	3
A3	06/24/45	15	15	A29	12/23/45	2	12
A3	08/19/45	0	10	A29	03/24/46	0	4
A3	11/11/45	0	0	A30	05/26/46	0	0
A4	01/13/46	7	7	A30	07/21/46	0	0
A5	07/15/45	19	15	A31	07/08/45	0	3
A6	01/20/46	0	1	A32	07/15/45	8	4
A7	03/24/46	9	9	A32	09/02/45	0	0
A7	06/16/46	0	0	A32	09/09/45	0	0
A8	07/08/45	18	0	A33	09/16/45	14	0
A8	08/12/45	6	6	A33	11/18/45	7	0
A8	11/11/45	8	8	A33	11/25/45	7	5
A9	07/01/45	22	0	A33	01/20/46	3	9
A9	09/02/45	1	5	A34	07/15/45	0	0
A10	11/04/45	0	7	A34	09/02/45	9	5
A11	07/15/45	0	0	A35	07/29/45	0	12
A11	09/09/45	0	0	A36	07/15/45	0	0
A12	07/29/45	16	0	A36	08/19/45	0	9
A12	09/09/45	4	0	A37	03/24/46	0	5
A12	11/11/45	4	4	A37	04/14/46	0	10
A13	06/23/46	0	0	A38	07/14/46	0	0
A14	10/07/45	3	0	A39	08/26/45	0	3
A14	02/10/46	3	8	A39	10/21/45	6	0
A15	04/07/46	5	0	A40	12/09/45	13	0
A15	05/26/46	0	0	A40	03/10/46	0	0
A16	07/01/45	1	0	A40	05/05/46	0	0
A16	08/12/45	14	0	A41	09/16/45	2	0
A17	07/01/45	4	0	A41	10/21/45	0	0
A18	07/29/45	0	0	A42	05/05/46	0	0
A19	06/23/46	0	0	A43	07/29/45	0	0
A20	06/24/45	3	3	A43	08/26/45	1	17
A20	10/14/45	0	0	A44	01/27/46	0	0
A21	09/16/45	11	11	A44	03/24/46	0	3
A22	07/08/45	0	0	A44	05/05/46	0	0
A23	08/05/45	1	3	A45	07/29/45	0	0
A23	09/23/45	7	3	A45	08/26/45	1	17
A24	07/01/45	0	0	A46	08/11/46	1	6
A24	08/26/45	9	17	A47	07/15/45	3	0
A25	01/20/46	7	0	A47	10/07/45	16	7
A26	03/24/46	6	1	A48	08/05/45	0	0
A26	05/12/46	0	1	A49	08/26/45	0	0
A26	08/18/46	6	5	A50	12/16/45	10	0
A27	07/29/45	0	0	A51	08/05/45	12	8

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A52	02/25/45	0	0	A77	02/24/46	0	1
A52	04/22/45	4	0	A77	04/28/46	0	0
A53	07/22/45	5	0	A78	06/23/46	3	0
A53	11/25/45	0	8	A78	07/21/46	6	5
A54	07/15/45	0	0	A79	08/26/45	18	0
A55	07/29/45	0	0	A79	10/21/45	0	0
A55	09/23/45	0	30	A80	12/16/45	5	0
A56	11/25/45	4	0	A80	02/10/46	1	0
A56	12/09/45	0	0	A80	03/03/46	3	0
A56	01/27/46	0	0	A80	04/14/46	2	0
A57	08/19/45	2	18	A81	06/09/46	0	0
A58	07/29/45	2	0	A81	08/11/46	3	0
A59	08/12/45	0	0	A82	09/09/45	0	8
A59	10/14/45	0	23	A83	10/07/45	0	0
A60	07/29/45	0	0	A84	07/08/45	25	13
A61	02/17/46	0	0	A84	08/19/45	5	0
A62	11/25/45	0	8	A85	07/01/45	0	0
A63	07/22/45	0	0	A85	09/09/45	0	0
A63	09/09/45	0	0	A86	06/24/45	0	19
A63	11/11/45	9	0	A87	09/09/45	0	7
A64	01/06/46	0	1	A87	09/30/45	0	0
A64	03/03/46	0	0	A88	02/17/46	0	7
A64	04/28/46	0	0	A88	04/14/46	0	0
A65	06/23/46	0	6	A89	07/08/45	22	6
A66	07/15/45	3	0	A89	07/29/45	12	20
A66	07/22/45	0	0	A89	10/07/45	4	0
A67	11/25/45	0	4	A90	10/14/45	0	0
A68	08/12/45	8	20	A90	11/11/45	0	0
A68	10/07/45	2	2	A90	12/09/45	3	6
A69	12/02/45	4	0	A90	12/30/45	0	5
A69	01/27/46	0	0	A90	01/27/46	2	0
A69	03/24/46	0	0	A91	06/24/45	0	0
A69	05/19/46	6	4	A91	10/28/45	8	0
A71	07/15/45	26	0	A92	03/10/46	0	0
A71	09/02/45	23	19	A92	04/21/46	4	0
A72	07/29/45	0	0	A93	07/01/45	3	0
A73	08/12/45	32	28	A93	08/05/45	12	0
A73	10/07/45	6	0	A93	09/02/45	4	4
A74	12/23/45	0	3	A93	09/30/45	0	0
A74	02/03/46	0	0	A93	10/14/45	15	15
A75	04/07/46	0	0	A94	09/09/45	1	0
A76	07/08/45	0	0	A95	07/15/45	0	0
A76	08/12/45	10	10	A95	07/29/45	6	0
A76	11/04/45	11	0	A95	10/28/45	0	0
A77	12/23/45	0	12	A96	01/06/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A97	08/12/45	0	5	A123	07/08/45	0	0
A97	10/28/45	0	2	A123	09/16/45	0	12
A98	12/23/45	0	2	A124	12/09/45	7	11
A98	02/17/46	1	5	A124	02/24/46	12	6
A98	04/14/46	1	6	A125	06/09/46	1	1
A99	06/09/46	0	1	A126	07/01/45	6	2
A100	09/30/45	14	0	A127	07/01/45	0	12
A100	12/02/45	0	28	A128	07/08/45	0	0
A101	06/24/45	0	7	A128	09/23/45	0	0
A101	07/15/45	0	1	A128	11/18/45	17	5
A101	07/22/45	16	0	A129	07/08/45	0	0
A101	07/29/45	0	1	A129	09/23/45	0	0
A101	10/28/45	1	0	A129	11/18/45	17	5
A101	11/18/45	0	0	A130	01/13/46	46	38
A102	07/01/45	2	2	A130	01/13/46	0	30
A102	08/12/45	42	26	A130	03/10/46	0	0
A102	09/23/45	10	0	A130	05/05/46	0	0
A103	12/16/45	12	0	A131	03/10/46	0	3
A104	10/28/45	3	7	A131	05/19/46	0	0
A105	12/23/45	0	3	A132	06/02/46	0	1
A106	07/29/45	0	0	A132	06/30/46	4	0
A107	10/14/45	3	0	A132	07/28/46	0	6
A107	01/20/46	1	0	A133	08/12/45	0	0
A108	03/24/46	3	0	A134	12/16/45	0	8
A109	07/08/45	2	0	A134	03/10/46	0	3
A109	08/26/45	7	0	A135	07/07/46	0	2
A110	07/08/45	0	0	A136	02/17/46	0	0
A110	10/07/45	0	0	A136	04/14/46	0	0
A111	08/12/45	0	32	A137	06/09/46	0	0
A112	07/01/45	9	5	A138	08/05/45	0	0
A113	07/08/45	0	0	A138	10/14/45	0	0
A113	09/02/45	0	0	A139	10/07/45	8	0
A114	05/27/45	0	7	A140	12/09/45	4	4
A115	08/05/45	2	0	A140	02/03/46	2	0
A115	11/11/45	0	3	A140	05/12/46	0	0
A116	04/07/46	6	4	A140	05/26/46	6	0
A117	08/05/45	0	0	A141	07/21/46	0	0
A118	08/05/45	0	0	A142	08/12/45	4	4
A118	11/11/45	0	0	A142	09/30/45	39	7
A119	09/02/45	8	0	A142	11/25/45	0	0
A119	11/18/45	9	0	A143	01/06/46	5	10
A120	01/20/46	0	0	A144	07/29/45	8	4
A121	08/12/45	0	8	A144	09/16/45	3	0
A121	11/11/45	0	0	A144	11/11/45	0	0
A122	01/20/46	9	0	A145	11/11/45	0	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A146	08/05/45	9	0	A171	04/07/46	0	0
A146	10/14/45	39	23	A171	07/21/46	0	0
A147	02/10/46	0	0	A172	08/18/46	0	0
A147	03/10/46	2	3	A173	09/23/45	0	0
A147	04/21/46	1	6	A173	11/25/45	0	8
A148	08/11/46	0	5	A174	01/27/46	0	0
A149	06/24/45	0	0	A174	03/31/46	6	0
A149	07/29/45	0	0	A174	05/05/46	0	0
A149	10/14/45	4	16	A175	06/30/46	0	0
A150	04/28/46	8	0	A176	08/26/45	0	3
A151	07/21/46	0	0	A176	10/21/45	0	8
A152	07/29/45	0	0	A177	01/20/46	10	6
A152	10/07/45	0	0	A177	04/14/46	3	0
A153	12/16/45	13	0	A178	07/07/46	0	0
A154	01/20/46	4	0	A179	03/03/46	0	0
A154	03/24/46	4	7	A180	08/26/45	0	8
A155	07/08/45	0	0	A180	10/14/45	0	0
A156	06/30/46	0	0	A180	12/16/45	8	8
A157	07/08/45	6	2	A181	08/12/45	9	0
A158	07/29/45	0	0	A181	11/04/45	3	0
A158	09/16/45	3	0	A182	02/24/46	0	0
A158	11/18/45	18	0	A182	04/28/46	6	0
A159	01/13/46	5	15	A183	07/15/45	0	0
A159	03/10/46	0	3	A184	07/21/46	0	0
A159	05/05/46	3	0	A185	10/21/45	0	2
A160	06/30/46	0	4	A186	06/23/46	2	2
A160	08/25/46	1	3	A187	08/25/46	0	0
A161	08/26/45	1	13	A188	11/25/45	0	8
A161	11/18/45	3	15	A189	02/03/46	2	0
A162	07/08/45	0	0	A189	04/07/46	0	0
A162	07/22/45	0	0	A189	05/26/46	0	0
A163	04/14/46	0	0	A189	07/28/46	0	0
A164	08/31/46	0	6	A190	10/14/45	0	9
A165	10/07/45	0	7	A190	12/09/45	2	0
A166	01/06/46	0	4	A191	01/13/46	9	25
A166	03/10/46	8	0	A191	01/20/46	0	16
A166	05/19/46	0	0	A191	05/19/46	0	0
A167	04/29/45	0	0	A192	06/09/46	8	0
A168	08/26/45	0	0	A192	08/04/46	0	22
A168	09/02/45	3	1	A192	08/25/46	11	3
A169	12/02/45	0	0	A192	08/31/46	0	0
A169	02/24/46	8	0	A193	07/08/45	0	0
A170	09/23/45	0	0	A193	08/26/45	0	0
A170	12/09/45	0	0	A194	01/06/46	0	8
A170	02/10/46	0	0	A194	02/24/46	0	1

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A194	04/28/46	0	0	A218	08/26/45	0	3
A195	06/30/46	0	0	A219	11/19/44	15	0
A196	07/29/45	12	0	A219	02/11/45	3	0
A196	09/09/45	0	0	A220	07/22/45	7	7
A197	12/23/45	0	3	A220	10/28/45	0	0
A197	03/03/46	4	0	A221	01/06/46	0	1
A197	05/26/46	0	0	A221	03/31/46	0	0
A198	06/16/46	7	0	A222	06/02/46	1	2
A198	06/23/46	0	0	A222	08/04/46	0	0
A198	09/01/46	5	2	A223	06/24/45	0	0
A199	07/15/45	0	0	A223	09/02/45	0	10
A199	09/09/45	0	0	A223	11/04/45	11	3
A199	11/18/45	0	0	A224	01/06/46	0	0
A200	01/20/46	6	0	A224	03/03/46	0	0
A200	03/17/46	5	4	A225	06/02/46	0	9
A201	08/31/46	0	0	A225	07/28/46	0	0
A202	06/17/45	12	8	A226	08/12/45	0	16
A202	09/23/45	0	14	A226	10/14/45	31	19
A202	11/18/45	7	6	A227	02/10/46	0	0
A203	07/15/45	26	0	A227	04/14/46	0	1
A203	09/02/45	4	16	A228	06/16/46	2	3
A203	10/28/45	0	0	A228	08/25/46	0	0
A204	12/23/45	3	11	A229	10/28/45	0	0
A204	03/03/46	0	0	A230	07/14/46	0	0
A204	05/19/46	0	0	A231	06/30/46	0	0
A205	07/28/46	0	0	A232	07/15/45	0	0
A206	07/08/45	0	0	A232	08/26/45	0	3
A206	09/16/45	4	0	A233	11/11/45	35	25
A207	07/15/45	0	0	A233	12/09/45	3	0
A207	09/09/45	0	0	A233	01/06/46	28	36
A207	11/11/45	16	0	A233	02/03/46	0	8
A208	01/13/46	5	0	A233	03/03/46	0	0
A209	08/11/46	0	0	A233	03/10/46	0	0
A210	07/15/45	10	0	A233	03/31/46	0	3
A211	12/02/45	0	0	A233	05/05/46	0	0
A211	03/03/46	0	0	A234	06/02/46	0	0
A212	06/02/46	9	0	A234	07/28/46	0	0
A213	08/12/45	17	1	A234	08/25/46	1	0
A213	10/14/45	16	4	A235	07/29/45	0	0
A214	12/16/45	0	4	A235	10/14/45	0	0
A214	04/14/46	1	5	A235	11/11/45	10	2
A215	07/15/45	4	12	A236	02/24/46	0	0
A215	10/28/45	2	6	A237	03/03/46	0	0
A216	12/23/45	9	0	A237	03/17/46	7	3
A217	07/07/46	0	0	A238	07/01/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A238	07/15/45	0	0	A254	06/09/46	1	5
A238	09/02/45	25	0	A254	06/30/46	0	3
A238	09/23/45	0	14	A254	07/28/46	1	0
A238	10/21/45	10	0	A254	08/31/46	0	6
A238	11/11/45	0	0	A255	07/22/45	1	13
A238	11/18/45	3	3	A255	10/21/45	3	3
A239	08/18/46	0	0	A255	11/18/45	6	0
A240	02/03/46	0	5	A256	02/10/46	0	0
A241	03/03/46	12	0	A256	04/14/46	0	0
A241	03/31/46	2	1	A257	06/02/46	1	2
A241	04/14/46	0	0	A257	06/30/46	0	0
A241	05/19/46	6	5	A258	05/05/46	1	0
A241	06/16/46	1	3	A259	06/02/46	4	0
A241	07/14/46	0	0	A259	06/30/46	6	0
A242	07/15/45	24	8	A259	07/28/46	2	0
A242	07/22/45	12	0	A259	08/25/46	0	0
A243	03/03/46	0	0	A260	09/02/45	2	14
A243	04/28/46	0	0	A260	10/14/45	20	16
A244	08/18/46	5	11	A261	12/09/45	5	3
A245	07/01/45	0	0	A261	01/20/46	0	0
A245	07/29/45	0	0	A261	05/19/46	0	1
A246	10/21/45	0	6	A262	09/01/46	0	2
A246	12/02/45	17	0	A263	07/29/45	0	0
A246	01/20/46	0	0	A263	09/16/45	0	0
A247	02/24/46	13	12	A263	10/21/45	0	0
A247	03/31/46	0	0	A264	12/02/45	2	3
A247	04/28/46	0	2	A264	01/13/46	2	10
A247	05/26/46	0	0	A264	02/17/46	0	0
A247	07/21/46	7	0	A265	06/09/46	0	0
A248	08/18/46	4	0	A265	06/23/46	0	0
A249	11/04/45	0	0	A265	07/21/46	0	2
A249	12/02/45	4	16	A265	08/04/46	0	0
A249	12/30/45	11	11	A266	10/28/45	0	0
A249	01/27/46	13	0	A266	11/18/45	0	0
A250	06/02/46	0	1	A267	02/17/46	0	1
A250	07/07/46	0	0	A267	04/14/46	5	0
A250	07/28/46	0	0	A268	07/21/46	0	0
A251	08/25/46	0	2	A269	08/05/45	8	0
A252	11/04/45	6	0	A270	11/25/45	0	1
A252	11/11/45	7	15	A270	05/05/46	3	0
A253	12/02/45	0	9	A271	06/23/46	0	0
A253	12/30/45	0	3	A271	08/25/46	0	0
A253	01/20/46	0	0	A272	08/05/45	8	0
A253	02/24/46	14	5	A273	11/25/45	0	1
A253	04/14/46	0	0	A273	05/05/46	3	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A274	07/01/45	0	0	A298	05/26/46	0	0
A274	11/11/45	0	19	A299	07/21/46	7	3
A275	01/13/46	0	0	A300	09/02/45	14	2
A275	03/17/46	3	5	A300	10/28/45	0	0
A276	05/19/46	0	0	A301	12/30/45	8	8
A276	07/21/46	0	3	A302	07/22/45	0	0
A277	09/16/45	0	0	A302	08/19/45	0	2
A277	11/11/45	0	12	A302	09/09/45	0	20
A278	01/13/46	3	1	A302	10/14/45	0	19
A278	03/03/46	6	0	A303	02/24/46	0	3
A278	05/19/46	0	0	A303	03/31/46	0	0
A279	07/21/46	3	0	A304	06/23/46	2	2
A281	07/15/45	34	0	A305	09/02/45	7	7
A281	10/28/45	3	3	A305	11/04/45	11	0
A282	12/23/45	0	0	A306	01/06/46	0	21
A282	02/17/46	0	0	A306	03/17/46	6	0
A282	04/14/46	16	0	A307	06/16/46	0	0
A283	07/07/46	0	0	A308	04/14/46	0	0
A284	07/08/45	0	0	A308	05/12/46	0	0
A284	10/28/45	0	2	A309	06/09/46	1	8
A284	11/18/45	0	9	A309	07/07/46	3	2
A285	01/27/46	0	0	A309	08/04/46	1	2
A285	03/24/46	6	0	A310	06/24/45	0	20
A285	05/19/46	0	0	A310	07/22/45	0	4
A286	07/21/46	0	0	A310	08/26/45	0	8
A287	08/19/45	8	3	A310	10/14/45	3	27
A287	12/09/45	15	7	A311	01/13/46	0	0
A288	02/03/46	0	0	A312	07/08/45	21	13
A288	03/31/46	6	4	A312	08/26/45	13	21
A289	04/15/45	0	0	A313	11/11/45	4	0
A290	09/09/45	0	1	A313	01/06/46	0	6
A290	09/16/45	5	1	A313	03/17/46	4	0
A291	02/03/46	0	1	A314	04/21/46	0	0
A291	04/14/46	0	0	A314	06/02/46	1	3
A292	06/16/46	11	0	A314	07/28/46	0	0
A293	09/16/45	0	0	A315	07/29/45	0	0
A293	10/28/45	28	8	A315	08/26/45	0	5
A294	02/10/46	0	0	A316	07/08/45	3	0
A294	04/07/46	0	0	A316	10/07/45	1	5
A295	06/16/46	5	0	A317	12/09/45	3	3
A296	08/12/45	0	0	A317	02/03/46	0	0
A297	07/22/45	3	0	A317	05/19/46	0	0
A297	10/07/45	2	0	A318	07/01/45	0	11
A298	12/30/45	7	13	A318	11/25/45	0	20
A298	03/24/46	0	0	A319	12/23/45	1	1

TABLE A.1. (contd)

Record Code	Week- Ending Date	Thyroid Check Results		Record Code	Week- Ending Date	Thyroid Check Results	
		R	L			R	L
A319	03/17/46	0	15	A347	02/17/46	5	0
A320	08/25/46	2	0	A347	03/24/46	0	5
A321	07/22/45	2	0	A348	06/02/46	0	3
A321	09/23/45	0	0	A348	07/28/46	0	0
A321	11/11/45	10	0	A349	11/04/45	0	0
A322	12/16/45	0	0	A350	01/06/46	0	0
A322	03/24/46	0	2	A350	03/03/46	1	4
A323	02/10/46	0	1	A350	03/31/46	8	8
A324	08/12/45	0	0	A350	05/05/46	3	0
A324	11/18/45	5	1	A351	07/28/46	0	0
A325	01/20/46	0	0	A352	08/26/45	0	5
A325	04/07/46	0	0	A353	12/16/45	14	0
A326	07/01/45	4	0	A354	06/30/46	5	0
A326	09/16/45	4	8	A354	08/31/46	0	0
A327	02/03/46	4	11	A355	07/29/45	4	0
A327	05/26/46	0	3	A355	10/07/45	2	14
A328	07/01/45	0	0	A356	12/16/45	12	4
A328	10/14/45	0	7	A356	02/17/46	0	0
A329	01/06/46	0	0	A356	05/12/46	5	0
A330	08/11/46	4	2	A357	07/07/46	5	0
A331	07/07/46	0	4	A358	07/15/45	0	0
A332	08/25/46	0	0	A358	09/02/45	13	5
A333	06/16/46	13	2	A358	11/25/45	9	6
A334	07/22/45	5	0	A359	01/20/46	2	0
A335	10/21/45	0	0	A359	04/14/46	0	0
A336	07/15/45	13	1	A360	06/09/46	0	7
A336	09/09/45	0	0	A360	08/04/46	4	4
A337	01/27/46	7	9	A361	07/08/45	0	0
A337	03/24/46	0	2	A361	08/26/45	0	0
A338	05/26/46	0	0	A361	10/28/45	0	1
A338	08/11/46	6	0	A361	11/18/45	3	0
A339	08/05/45	12	0	A362	01/13/46	0	2
A339	09/30/45	0	0	A362	03/10/46	0	0
A340	12/23/45	6	2	A362	05/05/46	0	0
A340	02/24/46	0	0	A363	07/14/46	0	4
A341	06/30/46	2	0	A364	09/09/45	0	0
A342	12/16/45	0	0	A365	03/24/46	10	4
A342	04/14/46	0	0	A366	07/07/46	0	0
A343	10/14/45	18	11	A367	09/09/45	7	0
A344	06/09/46	9	5	A368	01/20/46	0	15
A344	08/11/46	0	0	A368	04/14/46	0	0
A345	09/09/45	0	5	A368	05/12/46	0	0
A346	09/02/45	0	0	A369	06/09/46	1	0
A346	10/28/45	2	0	A369	08/04/46	1	1
A347	12/23/45	0	0	A369	08/25/46	0	2

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A370	07/15/45	8	0	A391	03/24/46	0	11
A370	10/07/45	3	0	A392	05/26/46	0	0
A371	02/10/46	0	0	A393	07/01/45	0	0
A371	03/10/46	0	2	A393	08/19/45	11	0
A372	05/26/46	0	0	A393	10/14/45	0	16
A372	07/21/46	0	2	A394	03/17/46	2	0
A373	06/17/45	0	8	A395	08/31/46	6	3
A373	09/16/45	16	40	A396	08/12/45	12	8
A374	11/18/45	3	10	A396	09/23/45	0	19
A375	07/01/45	1	5	A396	11/18/45	0	0
A375	07/29/45	0	0	A397	01/13/46	2	3
A375	09/16/45	12	8	A397	03/10/46	2	2
A375	11/11/45	4	16	A397	04/28/46	2	1
A376	02/03/46	9	1	A398	06/30/46	2	0
A376	04/28/46	0	0	A398	07/28/46	2	0
A377	07/21/46	0	0	A399	11/11/45	4	0
A378	07/29/45	0	0	A400	01/20/46	0	0
A378	09/16/45	0	0	A400	03/31/46	0	0
A379	12/02/45	1	5	A401	07/29/45	0	22
A379	12/23/45	0	0	A401	10/21/45	0	4
A379	03/24/46	0	0	A402	12/09/45	4	3
A380	07/07/46	3	0	A402	03/31/46	0	0
A380	08/31/46	3	1	A402	05/26/46	0	0
A381	06/24/45	0	7	A403	08/04/46	0	3
A381	10/14/45	0	8	A404	07/01/45	0	0
A382	12/09/45	29	0	A405	09/16/45	22	0
A382	02/10/46	5	0	A405	12/09/45	15	27
A383	06/23/46	0	0	A405	02/24/46	0	0
A383	08/25/46	0	0	A406	05/26/46	0	3
A384	08/25/46	7	7	A406	07/28/46	4	0
A384	08/31/46	0	7	A407	07/15/45	0	3
A384	08/31/46	19	7	A407	10/21/45	2	0
A385	05/05/46	0	0	A408	12/23/45	0	2
A386	08/31/46	0	3	A408	04/07/46	0	0
A387	07/08/45	0	0	A409	08/18/46	0	0
A387	08/19/45	0	0	A410	07/01/45	0	3
A387	09/23/45	12	0	A410	10/07/45	11	11
A387	11/11/45	0	9	A411	12/09/45	5	3
A388	01/13/46	26	6	A411	02/10/46	3	3
A388	03/10/46	0	0	A412	07/07/46	0	0
A388	04/28/46	0	0	A413	11/11/45	0	7
A389	06/30/46	0	0	A413	01/06/46	4	0
A390	07/08/45	0	0	A413	03/03/46	0	3
A391	11/25/45	0	0	A414	08/04/46	9	0
A391	01/20/46	3	8	A415	11/04/45	11	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A415	01/27/46	6	0	A439	07/28/46	0	10
A416	07/14/46	0	0	A440	07/22/45	0	0
A417	08/26/45	7	0	A440	09/16/45	0	0
A418	10/21/45	0	0	A441	12/16/45	29	5
A418	02/24/46	7	0	A441	03/03/46	1	0
A419	07/01/45	0	0	A442	06/23/46	0	4
A419	09/02/45	4	8	A443	12/02/45	0	1
A420	05/19/46	0	7	A444	04/21/46	0	0
A420	07/14/46	2	0	A445	04/15/45	0	2
A421	10/22/44	0	4	A446	09/30/45	0	0
A423	07/22/45	0	0	A447	12/30/45	0	0
A424	01/20/46	7	0	A447	02/17/46	0	0
A425	03/24/46	0	2	A447	04/14/46	0	2
A426	07/22/45	0	4	A448	06/09/46	0	0
A427	09/16/45	0	3	A448	08/04/46	0	4
A427	11/11/45	1	12	A449	09/23/45	0	0
A427	01/06/46	2	0	A449	09/30/45	0	0
A427	03/03/46	1	5	A450	12/23/45	9	3
A428	04/07/46	0	0	A450	03/17/46	6	6
A428	05/26/46	5	1	A451	05/12/46	5	0
A428	07/28/46	0	0	A451	07/07/46	0	4
A429	07/15/45	22	26	A451	08/31/46	1	5
A430	08/26/45	0	0	A452	10/07/45	8	0
A430	10/28/45	0	18	A452	02/17/46	4	0
A430	12/23/45	11	39	A453	04/21/46	0	2
A431	02/17/46	6	3	A453	06/16/46	2	0
A431	04/14/46	0	14	A453	08/04/46	0	2
A431	06/30/46	5	0	A454	01/27/46	4	0
A431	07/21/46	0	0	A454	03/24/46	0	1
A432	08/18/46	0	0	A454	05/19/46	0	0
A433	07/22/45	8	1	A455	07/14/46	0	0
A434	09/09/45	3	0	A456	02/17/46	0	0
A434	11/04/45	0	0	A457	04/21/46	0	2
A434	12/30/45	0	0	A457	06/23/46	0	0
A435	02/24/46	0	4	A457	08/25/46	5	1
A435	04/21/46	0	0	A458	05/05/46	0	1
A435	07/14/46	0	0	A458	06/16/46	0	7
A436	09/01/46	0	0	A459	07/21/46	0	0
A437	07/08/45	0	16	A459	08/11/46	5	0
A437	07/15/45	8	16	A459	09/03/46	5	7
A437	09/16/45	4	10	A460	07/15/45	0	4
A437	11/18/45	21	5	A460	09/16/45	0	2
A438	01/13/46	18	6	A460	11/11/45	3	3
A438	03/10/46	10	0	A461	12/09/45	3	3
A438	04/28/46	0	0	A462	07/07/46	3	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A462	08/18/46	4	5	A484	02/24/46	0	3
A463	04/14/46	0	7	A484	03/03/46	0	0
A463	06/30/46	0	4	A484	03/10/46	0	0
A464	07/08/45	0	0	A484	03/31/46	2	0
A464	08/26/45	5	13	A484	04/21/46	0	2
A464	10/21/45	0	0	A484	06/30/46	0	0
A465	12/09/45	13	9	A484	07/28/46	0	0
A465	02/10/46	1	8	A485	08/18/46	3	0
A465	04/14/46	1	0	A486	10/07/45	38	30
A466	06/30/46	0	2	A487	01/13/46	0	0
A466	08/31/46	0	0	A487	04/07/46	0	0
A467	07/01/45	5	45	A488	05/26/46	1	1
A467	09/16/45	7	0	A488	07/28/46	0	0
A467	11/11/45	4	0	A488	08/18/46	0	2
A468	01/13/46	11	42	A489	07/29/45	0	0
A468	03/10/46	0	0	A490	07/14/46	0	7
A469	08/04/46	4	0	A491	06/09/46	2	0
A470	07/29/45	28	0	A491	07/07/46	0	0
A471	09/16/45	0	1	A491	08/11/46	0	0
A471	11/18/45	5	0	A492	08/26/45	7	0
A472	04/28/46	0	1	A492	11/18/45	0	0
A472	06/23/46	0	1	A493	01/13/46	0	6
A473	08/18/46	2	5	A493	05/12/46	0	0
A474	02/24/46	0	0	A494	08/04/46	8	0
A474	05/05/46	0	0	A495	11/11/45	0	0
A474	06/02/46	1	5	A496	06/16/46	2	1
A474	06/30/46	0	6	A497	07/08/45	0	3
A475	08/11/46	0	0	A497	10/14/45	24	4
A476	06/23/46	1	3	A498	07/07/46	8	0
A477	03/24/46	0	3	A498	08/04/46	0	0
A477	06/23/46	0	0	A499	08/05/45	0	0
A478	08/25/46	0	0	A500	11/25/45	0	4
A479	03/03/46	4	0	A500	01/13/46	7	0
A479	04/21/46	0	3	A500	04/28/46	11	0
A480	08/12/45	7	0	A501	06/30/46	0	0
A480	10/07/45	17	0	A502	07/15/45	24	4
A481	11/25/45	4	1	A502	09/30/45	0	0
A481	01/27/46	6	0	A503	11/25/45	2	6
A481	03/17/46	0	12	A503	01/27/46	0	0
A481	04/21/46	0	0	A503	03/24/46	6	2
A482	05/26/46	4	0	A504	05/19/46	5	2
A482	07/21/46	1	0	A504	07/14/46	2	0
A483	08/12/45	5	7	A505	07/07/46	8	0
A483	11/04/45	0	0	A505	07/28/46	0	0
A483	01/13/46	0	1	A505	08/25/46	3	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A506	07/14/46	0	0	A532	07/21/46	4	0
A507	07/29/45	0	12	A533	10/21/45	0	4
A508	09/23/45	0	0	A533	12/16/45	0	6
A508	11/11/45	0	0	A533	02/17/46	8	0
A508	01/13/46	0	4	A534	03/17/46	1	1
A509	06/16/46	0	0	A534	04/21/46	0	0
A509	07/21/46	0	0	A534	06/16/46	0	0
A509	08/18/46	0	0	A534	08/18/46	0	0
A510	12/09/45	0	11	A535	07/01/45	0	0
A511	03/10/46	0	0	A536	07/15/45	0	0
A512	09/09/45	4	0	A536	09/02/45	5	0
A513	12/09/45	4	0	A537	06/24/45	0	13
A513	02/10/46	0	1	A538	07/29/45	0	0
A513	03/03/46	4	0	A539	12/09/45	4	3
A513	03/31/46	3	2	A539	03/31/46	9	3
A514	06/30/46	2	0	A540	07/14/46	0	4
A514	09/01/46	0	0	A540	08/31/46	0	1
A515	02/24/46	0	0	A541	12/24/44	0	0
A516	03/17/46	7	0	A542	08/05/45	8	0
A516	03/31/46	10	1	A542	09/23/45	8	3
A516	07/14/46	0	0	A543	07/15/45	12	0
A517	08/26/45	1	0	A543	09/23/45	0	7
A518	09/23/45	0	0	A544	01/06/46	0	5
A518	11/25/45	6	8	A544	03/10/46	0	2
A518	01/20/46	5	1	A544	05/26/46	0	0
A519	06/09/46	0	0	A545	07/21/46	1	0
A520	11/11/45	0	3	A546	07/08/45	0	0
A520	01/13/46	2	0	A546	09/16/45	18	10
A520	03/03/46	0	0	A546	11/11/45	0	4
A521	05/05/46	0	0	A547	01/06/46	0	0
A521	07/21/46	0	0	A547	02/24/46	0	0
A522	09/16/45	1	0	A548	06/23/46	0	0
A522	09/23/45	0	0	A548	08/18/46	0	3
A523	07/15/45	0	14	A549	10/21/45	0	0
A524	07/22/45	0	0	A549	10/28/45	0	0
A525	09/09/45	5	17	A549	11/04/45	3	11
A525	11/04/45	3	7	A549	01/13/46	13	11
A525	12/23/45	0	0	A549	03/10/46	0	2
A526	04/07/46	3	2	A550	05/05/46	0	0
A527	10/14/45	0	5	A550	07/28/46	0	0
A528	07/21/46	0	0	A552	07/08/45	0	0
A529	04/21/46	0	0	A552	08/26/45	0	0
A529	07/28/46	1	1	A553	10/21/45	0	0
A530	09/02/45	22	18	A553	12/23/45	5	0
A531	04/21/46	0	0	A553	02/24/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A554	04/28/46	0	0	A576	07/29/45	0	0
A554	06/23/46	4	5	A576	08/26/45	0	7
A555	09/23/45	0	0	A576	09/30/45	4	12
A556	07/21/46	0	0	A577	09/09/45	0	0
A557	07/15/45	0	2	A578	11/04/45	0	0
A557	08/26/45	0	0	A578	12/30/45	0	0
A557	09/23/45	7	0	A578	02/24/46	0	2
A558	06/24/45	17	17	A579	09/02/45	13	9
A559	12/23/45	4	0	A579	11/18/45	15	0
A559	02/17/46	4	0	A580	01/13/46	2	4
A559	03/31/46	2	0	A580	03/10/46	0	0
A560	04/21/46	3	5	A580	05/26/46	2	2
A560	06/30/46	6	1	A581	06/23/46	6	0
A561	02/24/46	0	2	A582	10/28/45	0	0
A562	04/28/46	9	0	A582	11/11/45	0	11
A562	05/19/46	3	0	A583	01/13/46	16	18
A563	12/09/45	9	9	A583	03/10/46	0	7
A563	02/24/46	0	1	A583	04/28/46	0	3
A564	06/09/46	0	0	A584	07/21/46	0	0
A565	07/29/45	0	0	A585	07/15/45	22	22
A565	08/26/45	7	7	A585	09/02/45	0	17
A565	10/14/45	7	0	A586	10/28/45	0	7
A565	12/09/45	0	3	A586	01/13/46	30	0
A565	03/03/46	0	0	A586	01/27/46	0	0
A565	04/28/46	0	0	A586	02/17/46	0	0
A566	06/23/46	4	11	A587	06/09/46	7	0
A566	08/18/46	1	4	A587	08/04/46	0	6
A567	07/15/45	12	0	A588	08/05/45	9	0
A567	08/26/45	0	8	A589	10/21/45	4	0
A567	10/28/45	19	35	A589	03/10/46	4	0
A568	12/23/45	3	11	A590	08/05/45	14	10
A568	02/24/46	2	0	A590	09/02/45	4	2
A568	05/12/46	0	0	A591	07/29/45	0	0
A569	09/09/45	11	7	A591	09/16/45	0	12
A570	11/18/45	0	0	A592	02/03/46	5	2
A570	01/27/46	2	8	A592	04/07/46	0	0
A570	03/31/46	8	4	A593	06/16/46	12	4
A571	03/03/46	0	7	A594	07/15/45	18	2
A571	04/28/46	6	2	A595	07/01/45	0	0
A571	06/23/46	0	0	A595	08/19/45	0	0
A572	08/18/46	2	0	A596	11/04/45	0	0
A573	07/22/45	12	4	A596	01/27/46	0	0
A574	10/07/45	34	30	A596	03/24/46	5	0
A574	01/27/46	0	3	A597	08/11/46	12	5
A575	07/21/46	5	0	A598	07/15/45	0	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A598	07/29/45	8	4	A617	03/17/46	5	5
A598	10/28/45	0	0	A618	04/14/46	16	0
A599	12/23/45	2	0	A618	05/12/46	5	4
A599	02/17/46	0	0	A618	07/28/46	0	1
A599	04/14/46	0	0	A618	08/31/46	3	0
A600	06/09/46	0	3	A619	07/15/45	0	0
A600	06/30/46	0	0	A620	07/08/45	0	0
A601	07/22/45	0	0	A621	07/15/45	0	3
A601	09/16/45	0	3	A621	08/26/45	0	25
A602	11/25/45	5	4	A621	10/28/45	0	0
A602	01/20/46	0	0	A622	12/23/45	13	0
A602	03/17/46	0	0	A622	02/24/46	8	4
A603	05/12/46	10	1	A622	04/14/46	0	0
A603	07/07/46	0	0	A623	06/09/46	3	0
A603	08/31/46	0	0	A623	08/31/46	0	3
A604	09/16/45	6	2	A624	12/30/45	0	7
A605	11/11/45	0	0	A625	07/14/46	0	0
A605	01/06/46	2	3	A626	07/08/45	0	22
A605	02/24/46	0	0	A627	07/08/45	0	0
A605	03/31/46	0	0	A627	08/26/45	0	0
A606	05/26/46	0	0	A628	09/16/45	3	1
A606	07/21/46	0	0	A628	11/11/45	0	0
A607	07/08/45	0	0	A629	07/01/45	0	0
A607	08/12/45	24	0	A629	10/07/45	12	8
A607	10/07/45	14	0	A630	12/02/45	0	0
A607	12/02/45	0	0	A630	01/27/46	0	0
A608	03/24/46	0	0	A630	03/24/46	0	0
A609	09/09/45	0	8	A631	06/16/46	3	0
A610	09/23/45	0	2	A631	08/11/46	0	0
A610	11/25/45	4	0	A632	04/21/46	0	1
A610	01/27/46	1	0	A633	07/15/45	0	1
A610	03/10/46	0	0	A633	09/02/45	9	0
A611	05/26/46	0	4	A634	10/28/45	0	6
A611	07/28/46	0	1	A634	12/23/45	7	0
A612	04/28/46	4	0	A635	04/14/46	0	0
A613	07/21/46	0	0	A635	05/05/46	0	0
A614	05/26/46	0	0	A635	06/02/46	1	0
A614	06/16/46	0	3	A635	07/28/46	4	0
A615	08/18/46	0	4	A636	05/05/46	3	2
A616	07/15/45	8	8	A636	06/30/46	0	0
A617	10/28/45	0	2	A637	08/25/46	0	0
A617	11/18/45	0	0	A638	07/08/45	11	15
A617	12/16/45	0	0	A638	09/23/45	8	0
A617	01/20/46	3	25	A639	11/18/45	7	0
A617	02/17/46	0	0	A639	02/10/46	0	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A639	04/07/46	2	8	A667	07/28/46	2	4
A640	07/08/45	17	25	A668	07/01/45	3	7
A640	09/09/45	0	8	A668	09/09/45	7	11
A641	07/15/45	0	0	A668	10/14/45	20	0
A641	10/21/45	26	0	A668	11/11/45	0	0
A642	12/16/45	0	7	A669	12/09/45	2	7
A642	02/10/46	0	0	A669	01/06/46	0	0
A643	11/11/45	1	21	A669	02/03/46	0	0
A643	11/11/45	0	0	A669	02/24/46	0	0
A643	01/06/46	6	6	A670	11/11/45	15	39
A643	03/03/46	0	0	A670	02/03/46	0	4
A644	04/28/46	0	0	A671	03/03/46	0	0
A644	05/26/46	0	0	A672	07/22/45	6	0
A645	04/14/46	1	7	A673	03/24/46	0	7
A646	03/31/46	0	0	A674	04/21/46	1	5
A647	07/01/45	1	0	A674	05/12/46	3	3
A649	03/03/46	0	0	A674	06/16/46	0	1
A649	04/28/46	8	0	A675	10/07/45	0	4
A649	06/23/46	5	0	A675	10/21/45	2	0
A650	08/19/45	0	0	A675	12/02/45	5	6
A651	12/09/45	4	3	A675	12/09/45	9	9
A651	03/10/46	3	5	A676	07/15/45	0	0
A652	05/05/46	0	1	A676	07/29/45	11	2
A653	08/26/45	17	0	A677	08/12/45	0	30
A654	07/29/45	0	0	A678	07/21/46	3	2
A655	04/21/46	3	0	A679	08/19/45	16	12
A656	07/14/46	0	0	A680	07/21/46	3	2
A657	04/07/46	5	2	A681	08/26/45	5	9
A658	05/26/46	0	4	A682	07/28/46	0	0
A659	03/31/46	8	3	A683	12/23/45	0	0
A660	08/19/45	0	0	A683	03/10/46	33	39
A661	07/01/45	0	9	A683	03/17/46	9	6
A661	07/29/45	0	18	A683	03/31/46	0	0
A661	08/19/45	0	0	A683	04/07/46	0	0
A661	09/16/45	4	0	A683	04/14/46	0	6
A662	12/16/45	4	4	A683	04/21/46	0	2
A662	02/10/46	0	2	A684	08/26/45	0	14
A663	08/12/45	8	0	A684	10/07/45	0	0
A663	10/07/45	6	2	A685	06/09/46	3	3
A664	12/02/45	7	1	A685	07/14/46	0	0
A665	07/08/45	0	7	A686	09/16/45	14	2
A665	11/04/45	0	0	A687	08/05/45	12	0
A666	12/23/45	4	8	A688	02/17/46	3	5
A666	03/31/46	8	5	A688	04/21/46	1	0
A667	05/05/46	0	3	A689	08/25/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A690	01/27/46	6	1	A715	08/31/46	2	4
A690	02/24/46	0	4	A716	07/15/45	7	0
A690	03/31/46	5	0	A716	09/30/45	0	0
A690	04/21/46	9	5	A717	12/02/45	6	4
A691	05/26/46	0	0	A717	02/10/46	13	0
A692	08/05/45	16	0	A717	04/07/46	0	0
A693	08/05/45	4	16	A718	06/09/46	0	0
A694	07/28/46	1	0	A719	07/15/45	0	0
A695	08/26/45	6	2	A720	10/28/45	17	33
A696	05/12/46	4	16	A720	12/02/45	1	5
A697	08/05/45	0	0	A720	12/30/45	16	32
A698	08/12/45	0	4	A720	01/27/46	2	2
A699	03/10/46	0	0	A720	02/17/46	0	3
A700	05/12/46	0	0	A720	02/24/46	3	0
A701	07/14/46	0	0	A721	03/24/46	0	0
A702	07/01/45	0	0	A721	04/07/46	1	0
A702	08/05/45	0	0	A721	06/16/46	1	0
A703	11/11/45	15	23	A722	08/18/46	0	0
A703	12/30/45	5	0	A723	08/26/45	0	0
A703	01/13/46	18	6	A724	12/23/45	0	0
A703	02/03/46	5	0	A725	08/19/45	4	0
A704	02/24/46	2	10	A725	10/21/45	0	2
A704	04/07/46	0	4	A726	07/08/45	4	0
A704	05/19/46	0	0	A727	07/22/45	0	0
A704	06/16/46	10	0	A728	07/22/45	0	0
A704	07/07/46	0	0	A729	06/24/45	6	0
A704	07/14/46	0	1	A729	10/07/45	0	0
A704	08/11/46	3	3	A730	01/13/46	4	0
A705	08/18/46	2	0	A730	03/24/46	5	3
A706	08/11/46	0	2	A730	04/14/46	0	6
A707	07/08/45	22	0	A730	05/26/46	0	2
A708	11/11/45	23	37	A731	08/04/46	3	0
A708	02/24/46	6	2	A732	08/26/45	0	2
A709	07/22/45	7	0	A733	07/08/45	0	0
A709	09/16/45	0	3	A733	11/11/45	1	0
A709	11/11/45	0	3	A734	01/27/46	5	2
A710	01/06/46	0	0	A734	03/24/46	8	0
A710	03/24/46	9	5	A735	07/21/46	2	0
A711	08/31/46	3	4	A736	08/12/45	9	0
A712	10/07/45	0	3	A737	07/15/45	4	20
A713	07/07/46	1	0	A738	09/02/45	0	12
A714	02/17/46	0	0	A738	09/30/45	1	1
A714	04/14/46	0	0	A739	07/22/45	0	0
A715	06/30/46	4	0	A740	07/22/45	0	0
A715	08/25/46	0	21	A741	02/03/46	3	10

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A741	04/07/46	3	0	A765	08/04/46	6	0
A742	12/09/45	5	2	A766	10/14/45	12	8
A742	03/31/46	5	3	A766	01/27/46	1	0
A743	06/09/46	0	1	A767	08/04/46	0	0
A743	08/18/46	1	2	A768	09/30/45	0	0
A744	07/22/45	13	0	A768	02/17/46	5	0
A745	08/05/45	0	4	A769	03/17/46	0	1
A746	12/23/45	1	0	A769	05/12/46	1	0
A746	02/24/46	0	1	A769	07/07/46	0	0
A746	05/26/46	1	0	A770	11/11/45	15	31
A747	07/15/45	0	0	A770	02/10/46	5	0
A747	09/09/45	0	4	A771	07/15/45	46	14
A747	11/11/45	23	11	A772	04/14/46	0	7
A748	01/27/46	24	24	A772	06/23/46	3	0
A748	03/03/46	0	0	A773	10/14/45	19	11
A749	07/15/45	3	31	A773	01/06/46	16	22
A749	09/16/45	8	8	A774	03/31/46	0	1
A749	11/11/45	7	31	A774	07/21/46	0	9
A750	04/07/46	0	4	A775	10/21/45	0	0
A751	07/15/45	1	5	A775	01/20/46	0	9
A751	09/09/45	0	0	A776	03/24/46	0	0
A752	01/27/46	0	0	A776	07/28/46	6	0
A752	03/03/46	3	5	A777	07/07/46	0	0
A753	10/14/45	12	8	A778	10/21/45	16	0
A753	01/27/46	1	0	A778	01/20/46	0	0
A754	08/04/46	0	0	A779	03/24/46	5	0
A755	01/06/46	0	4	A779	07/28/46	0	6
A755	03/10/46	0	6	A779	08/25/46	0	0
A756	06/30/46	2	0	A780	07/22/45	0	0
A757	07/29/45	13	1	A781	10/21/45	0	1
A758	09/16/45	44	36	A781	12/16/45	15	0
A758	11/18/45	21	21	A781	02/10/46	0	0
A758	01/13/46	0	0	A782	03/10/46	0	0
A758	02/10/46	0	7	A782	04/07/46	4	0
A759	04/28/46	0	0	A782	08/25/46	0	9
A759	06/23/46	0	0	A783	10/21/45	0	9
A760	07/22/45	0	0	A783	12/16/45	2	22
A761	08/05/45	12	12	A783	02/03/46	0	0
A762	12/02/45	5	1	A784	04/07/46	8	3
A762	03/17/46	0	3	A784	06/02/46	0	4
A763	07/14/46	0	0	A785	06/16/46	0	5
A764	09/30/45	0	13	A785	07/21/46	0	0
A764	11/25/45	4	0	A786	08/31/46	0	3
A764	02/03/46	0	0	A787	07/15/45	0	0
A765	03/31/46	0	0	A788	03/03/46	3	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A789	05/05/46	0	0	A807	02/17/46	0	0
A790	08/26/45	23	11	A807	04/14/46	0	4
A791	10/14/45	7	0	A808	06/09/46	0	0
A791	01/06/46	0	0	A808	08/04/46	0	0
A791	03/03/46	0	2	A808	08/31/46	0	1
A792	04/28/46	0	6	A809	09/09/45	11	0
A792	06/23/46	0	1	A810	11/11/45	4	0
A792	08/18/46	3	0	A810	01/27/46	0	0
A793	09/23/45	2	2	A811	03/24/46	1	2
A793	11/18/45	1	0	A811	05/19/46	0	0
A793	02/17/46	0	5	A811	07/21/46	0	0
A794	04/14/46	4	0	A812	07/22/45	0	0
A794	06/09/46	0	0	A813	09/30/45	0	18
A794	07/21/46	0	0	A813	12/09/45	5	6
A795	07/15/45	6	1	A814	03/31/46	3	3
A795	08/26/45	3	0	A814	07/14/46	2	0
A796	11/18/45	11	7	A815	07/22/45	0	0
A796	01/13/46	0	0	A815	09/09/45	0	7
A796	03/10/46	0	0	A816	11/11/45	0	12
A797	05/05/46	0	3	A816	01/06/46	0	0
A797	06/30/46	0	0	A816	02/24/46	0	0
A797	08/25/46	0	0	A817	04/28/46	0	2
A798	07/08/45	0	0	A817	05/19/46	3	0
A798	08/26/45	7	7	A818	07/14/46	0	0
A798	09/23/45	3	7	A819	08/26/45	12	0
A798	12/09/45	13	0	A819	10/21/45	5	19
A799	02/03/46	0	5	A820	01/13/46	0	0
A799	04/21/46	0	3	A821	05/26/46	0	1
A800	06/16/46	0	0	A822	07/15/45	0	0
A800	08/11/46	4	1	A822	09/23/45	0	7
A801	07/15/45	10	14	A822	11/18/45	9	5
A801	09/09/45	0	0	A823	01/13/46	4	10
A802	11/11/45	4	12	A823	03/10/46	0	0
A802	02/24/46	0	0	A823	05/05/46	2	1
A803	04/28/46	0	0	A824	06/30/46	0	0
A803	07/28/46	0	0	A824	08/31/46	0	0
A804	07/22/45	0	3	A825	08/05/45	0	0
A804	09/30/45	3	11	A826	07/01/45	3	11
A804	11/18/45	0	0	A826	08/12/45	0	9
A805	01/13/46	0	6	A827	12/16/45	0	10
A805	03/10/46	0	0	A827	02/10/46	5	0
A805	06/02/46	0	7	A827	03/17/46	2	0
A806	08/12/45	9	9	A827	04/07/46	0	4
A806	10/28/45	0	0	A828	08/04/46	6	0
A807	12/23/45	0	0	A829	07/01/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A829	09/16/45	0	0	A850	06/30/46	3	0
A830	11/18/45	39	35	A850	07/28/46	3	0
A830	02/03/46	7	7	A851	07/01/45	0	0
A831	08/11/46	8	6	A852	10/14/45	16	0
A832	02/17/46	0	7	A852	01/20/46	0	3
A832	03/17/46	0	0	A852	03/03/46	4	0
A833	08/12/45	0	0	A853	05/05/46	1	3
A834	07/29/45	0	0	A853	07/21/46	0	0
A834	08/26/45	11	0	A854	08/26/45	0	0
A834	10/14/45	0	19	A854	10/21/45	0	1
A835	12/09/45	19	0	A855	12/16/45	0	0
A835	01/27/46	0	0	A855	01/13/46	0	0
A835	02/24/46	0	0	A855	03/10/46	0	0
A835	03/31/46	0	0	A855	05/05/46	0	0
A835	05/26/46	6	1	A856	06/30/46	0	0
A836	07/21/46	0	0	A856	08/25/46	3	5
A837	07/15/45	0	0	A857	08/05/45	0	0
A837	09/02/45	20	24	A857	09/30/45	0	0
A838	10/07/45	6	18	A857	11/25/45	0	0
A838	12/02/45	0	0	A858	02/17/46	6	4
A838	01/27/46	2	0	A858	04/14/46	3	0
A839	07/22/45	5	0	A858	06/09/46	0	0
A839	09/09/45	1	0	A859	07/15/45	3	3
A839	11/04/45	7	0	A859	09/02/45	2	3
A840	12/30/45	3	9	A859	10/14/45	0	0
A840	02/24/46	5	0	A860	12/09/45	7	3
A840	03/17/46	1	9	A860	01/27/46	0	0
A840	05/19/46	9	2	A860	03/31/46	10	0
A841	08/11/46	1	0	A860	05/26/46	0	0
A842	07/08/45	2	2	A861	07/21/46	5	0
A842	10/07/45	22	18	A862	10/07/45	0	0
A843	12/02/45	0	0	A862	12/02/45	3	2
A843	01/27/46	1	0	A863	05/12/46	0	0
A843	03/24/46	1	6	A863	07/28/46	0	0
A844	09/01/46	0	0	A864	07/21/46	0	0
A845	01/13/46	0	0	A865	03/24/46	0	10
A845	05/05/46	0	2	A866	08/11/46	8	8
A846	08/26/45	6	0	A867	07/22/45	7	0
A846	09/23/45	0	0	A867	09/09/45	3	0
A846	11/18/45	7	7	A868	11/04/45	0	0
A847	06/30/46	0	0	A868	12/30/45	3	5
A848	08/05/45	0	0	A868	03/10/46	0	0
A848	09/16/45	0	0	A869	03/31/46	2	0
A848	11/18/45	0	0	A869	05/05/46	0	0
A849	03/17/46	0	0	A869	06/30/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
A869	08/19/46	0	3	A888	02/10/46	0	0
A870	07/08/45	0	0	A888	04/07/46	0	0
A870	08/26/45	0	0	A889	06/02/46	0	0
A870	10/21/45	6	0	A889	07/28/46	5	0
A871	12/16/45	8	4	A890	07/15/45	0	0
A871	02/10/46	0	0	A890	09/02/45	0	0
A871	04/07/46	3	0	A891	11/11/45	0	4
A872	06/02/46	0	0	A891	01/13/46	0	0
A872	07/28/46	3	5	A891	03/24/46	1	5
A873	07/29/45	2	2	A892	06/16/46	1	3
A873	08/19/45	5	0	A892	07/21/46	0	0
A873	09/16/45	11	7	A893	12/02/45	1	5
A873	11/11/45	0	11	A894	07/08/45	0	0
A874	01/06/46	0	0	A894	11/25/45	16	0
A874	03/17/46	2	2	A895	01/13/46	3	10
A875	07/21/46	0	0	A895	03/17/46	0	0
A876	10/14/45	7	0	A896	07/29/45	8	12
A877	04/28/46	0	0	B1	07/01/45	6	10
A877	07/28/46	0	2	B2	09/30/45	0	11
A878	07/08/45	5	0	B3	07/01/45	0	0
A878	09/16/45	3	3	B4	09/02/45	0	4
A879	11/18/45	0	0	B4	11/04/45	0	0
A879	01/13/46	11	7	B5	02/10/46	0	8
A879	03/10/46	9	0	B5	05/26/46	0	0
A880	06/02/46	2	0	B6	07/28/46	0	0
A880	07/28/46	1	1	B7	07/15/45	2	0
A881	08/05/45	12	12	B7	09/02/45	1	1
A881	09/23/45	2	0	B8	07/22/45	0	0
A881	11/25/45	6	3	B8	07/29/45	0	14
A882	01/20/46	0	0	B9	06/24/45	1	0
A882	03/17/46	12	6	B10	10/28/45	23	0
A882	05/12/46	0	0	B10	12/30/45	32	37
A883	07/07/46	3	0	B11	02/17/46	0	1
A883	08/25/46	3	0	B11	04/28/46	5	1
A884	08/26/45	0	0	B12	07/14/46	0	0
A884	10/21/45	4	0	B13	08/05/45	0	0
A885	12/09/45	1	0	B13	09/23/45	0	15
A885	02/03/46	2	0	B13	11/18/45	0	17
A885	05/26/46	4	2	B14	02/10/46	1	0
A886	06/23/46	0	0	B15	10/28/45	0	0
A886	08/25/46	0	0	B15	12/23/45	6	0
A887	07/29/45	0	12	B16	02/17/46	5	0
A887	08/26/45	13	0	B16	04/14/46	0	0
A887	10/21/45	0	0	B16	06/09/46	2	0
A888	12/16/45	7	0	B17	08/04/46	1	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B18	07/08/45	0	1	B47	10/14/45	0	0
B19	07/22/45	0	0	B48	01/27/46	0	0
B20	04/14/46	5	4	B48	03/24/46	6	0
B21	08/25/46	0	0	B49	08/26/45	11	0
B22	08/19/45	0	0	B49	09/23/45	8	4
B22	10/14/45	19	7	B50	08/12/45	36	24
B22	12/09/45	3	0	B51	07/22/45	0	0
B23	02/03/46	1	3	B52	07/29/45	0	0
B23	03/03/46	1	1	B53	07/22/45	0	0
B23	03/31/46	4	0	B53	08/26/45	0	21
B24	08/26/45	0	7	B53	10/21/45	12	8
B24	09/23/45	20	0	B53	12/16/45	0	0
B24	11/18/45	3	7	B54	02/10/46	0	10
B25	03/10/46	5	0	B54	04/07/46	0	3
B25	05/05/46	6	2	B54	05/26/46	0	0
B25	06/30/46	2	0	B55	07/01/45	9	0
B26	07/01/45	0	15	B56	08/12/45	0	8
B27	07/08/45	1	0	B57	09/09/45	31	0
B27	09/09/45	0	1	B57	11/25/45	0	12
B27	11/04/45	3	0	B58	02/03/46	2	0
B28	07/08/45	0	0	B58	03/31/46	7	0
B29	10/28/45	4	0	B58	06/02/46	0	5
B30	03/10/46	0	3	B59	07/28/46	0	1
B31	07/01/45	0	0	B61	09/30/45	14	0
B32	07/22/45	13	0	B62	02/10/46	0	4
B33	10/07/45	0	0	B62	05/05/46	0	0
B34	02/17/46	1	0	B63	07/15/45	1	23
B34	04/14/46	0	7	B63	09/30/45	0	0
B35	07/07/46	1	0	B63	12/09/45	9	4
B36	07/08/45	0	4	B64	02/17/46	0	0
B36	08/26/45	5	0	B64	04/21/46	0	0
B37	07/01/45	0	0	B65	07/22/45	0	0
B38	07/22/45	4	0	B66	07/29/45	0	0
B38	10/28/45	0	14	B67	12/23/45	15	11
B38	12/16/45	6	0	B68	03/03/46	0	0
B39	02/24/46	0	8	B68	05/05/46	9	0
B39	04/28/46	0	0	B68	06/30/46	0	0
B40	07/14/46	0	4	B69	08/18/46	8	0
B41	12/02/45	3	4	B70	08/19/45	4	9
B42	03/17/46	0	0	B70	09/30/45	7	0
B43	07/22/45	1	1	B70	10/21/45	0	0
B44	08/12/45	0	1	B70	01/20/46	0	0
B45	07/01/45	0	0	B71	03/17/46	0	0
B46	07/08/45	0	0	B71	05/12/46	0	0
B47	08/05/45	0	20	B71	07/07/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B72	08/05/45	8	0	B98	08/31/46	0	0
B73	07/08/45	5	17	B99	07/29/45	0	0
B73	08/26/45	9	17	B99	10/07/45	0	0
B73	11/18/45	3	7	B99	12/02/45	0	16
B74	02/03/46	6	1	B100	01/20/46	1	0
B74	03/03/46	4	0	B100	03/24/46	4	0
B74	04/28/46	0	0	B100	05/19/46	0	2
B74	06/30/46	0	0	B101	07/29/45	3	3
B75	10/14/45	0	5	B102	08/05/45	3	3
B76	08/12/45	7	1	B102	09/16/45	0	0
B77	07/01/45	0	0	B103	07/01/45	3	7
B78	07/28/46	3	0	B103	07/22/45	0	0
B79	07/08/45	0	0	B104	08/19/45	0	10
B80	08/12/45	0	0	B104	09/09/45	12	0
B81	07/08/45	0	0	B104	11/11/45	28	12
B81	08/12/45	0	0	B104	01/06/46	0	0
B82	09/02/45	6	0	B105	04/28/46	0	0
B82	10/28/45	0	0	B106	07/01/45	7	3
B82	12/23/45	0	0	B107	08/19/45	9	9
B83	01/27/46	0	0	B107	09/09/45	0	5
B83	03/17/46	5	6	B108	09/30/45	0	0
B83	05/12/46	2	0	B109	07/01/45	0	0
B84	07/07/46	2	0	B110	08/05/45	0	4
B85	07/01/45	0	0	B111	07/01/45	0	8
B86	07/08/45	0	0	B112	08/26/45	5	0
B86	08/26/45	0	0	B112	10/14/45	11	3
B86	10/21/45	0	0	B112	01/06/46	0	4
B86	12/16/45	0	0	B113	03/31/46	0	0
B87	02/10/46	0	0	B113	06/16/46	5	0
B87	05/26/46	2	0	B113	07/21/46	0	0
B88	07/21/46	0	3	B114	07/15/45	7	0
B89	07/08/45	0	6	B115	07/08/45	6	0
B90	07/29/45	0	0	B116	07/01/45	0	0
B90	08/05/45	10	10	B117	08/26/45	0	0
B91	08/12/45	0	0	B118	07/08/45	0	0
B92	07/01/45	5	0	B119	08/26/45	0	1
B93	08/26/45	5	0	B119	10/21/45	0	2
B93	09/30/45	0	0	B119	12/16/45	20	0
B93	10/14/45	23	11	B120	02/17/46	0	0
B94	11/18/45	0	1	B120	04/14/46	2	0
B96	08/26/45	10	10	B120	06/09/46	0	0
B96	09/30/45	0	5	B121	08/18/46	0	0
B96	11/25/45	10	14	B121	08/31/46	5	2
B97	03/24/46	1	10	B122	07/07/46	0	0
B97	06/09/46	0	5	B123	07/08/45	1	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B123	09/16/45	3	0	B149	08/26/45	1	0
B123	11/11/45	5	0	B149	10/21/45	0	13
B124	04/28/46	0	4	B150	07/01/45	7	11
B125	07/22/45	0	0	B151	08/12/45	1	0
B126	08/19/45	7	7	B152	08/12/45	0	0
B127	07/01/45	0	0	B152	09/23/45	2	0
B128	08/26/45	2	3	B152	11/18/45	0	12
B128	10/14/45	19	0	B152	01/27/46	1	0
B128	10/21/45	10	0	B153	03/17/46	0	0
B128	01/13/46	0	0	B154	07/29/45	0	2
B129	08/19/45	0	0	B154	09/23/45	8	0
B130	09/02/45	3	0	B155	08/05/45	10	34
B130	10/28/45	12	16	B155	09/23/45	15	0
B130	12/23/45	3	0	B156	12/23/45	19	0
B131	02/17/46	65	67	B156	02/17/46	0	0
B131	02/17/46	6	3	B157	07/15/45	15	31
B132	07/29/45	3	23	B157	09/02/45	1	13
B133	09/30/45	0	13	B157	10/28/45	2	0
B133	11/25/45	2	6	B157	11/25/45	8	0
B134	02/10/46	0	0	B158	01/20/46	0	10
B134	03/17/46	2	6	B158	02/17/46	5	1
B134	05/05/46	0	0	B158	03/17/46	2	0
B134	06/30/46	0	0	B159	01/20/46	0	1
B135	07/15/45	14	0	B160	02/17/46	0	0
B135	09/09/45	0	0	B160	03/10/46	7	1
B136	08/12/45	0	1	B160	04/28/46	0	0
B137	12/30/45	5	0	B161	07/01/45	0	0
B137	05/12/46	0	0	B161	08/26/45	0	0
B138	07/08/45	0	0	B162	07/08/45	0	0
B139	11/11/45	5	13	B162	10/21/45	12	0
B140	01/06/46	0	0	B163	02/03/46	0	0
B140	03/03/46	3	0	B164	08/05/45	0	0
B140	03/31/46	0	3	B165	08/05/45	2	0
B141	08/19/45	14	4	B165	10/14/45	15	15
B142	12/30/45	20	0	B166	02/10/46	11	9
B142	02/24/46	2	1	B167	02/10/46	11	9
B142	05/19/46	2	0	B168	07/08/45	5	0
B143	07/14/46	0	0	B169	02/24/46	4	0
B144	07/15/45	13	5	B170	10/28/45	2	10
B144	09/09/45	4	0	B171	07/01/45	0	12
B145	08/12/45	0	0	B171	08/26/45	0	0
B145	11/11/45	19	15	B171	10/14/45	0	0
B146	03/17/46	0	4	B172	02/03/46	0	0
B147	07/01/45	0	0	B172	03/31/46	0	0
B148	07/08/45	0	0	B172	06/23/46	3	6

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B173	08/31/46	0	0	B192	03/10/46	0	0
B174	07/22/45	0	0	B193	07/14/46	0	1
B174	09/23/45	0	0	B194	07/01/45	0	0
B174	11/18/45	5	1	B195	08/12/45	0	0
B175	03/10/46	0	0	B195	09/30/45	22	8
B176	07/15/45	0	0	B196	03/10/46	0	0
B176	09/02/45	0	0	B197	07/14/46	0	0
B176	10/28/45	0	0	B198	07/22/45	0	0
B176	12/23/45	5	7	B199	10/28/45	0	0
B177	02/17/46	1	0	B200	02/17/46	0	0
B177	04/14/46	0	0	B201	07/22/45	0	0
B177	06/09/46	0	8	B201	10/07/45	3	0
B178	08/04/46	0	2	B202	12/16/45	0	0
B179	07/22/45	0	0	B202	03/03/46	4	0
B179	10/07/45	0	0	B202	04/28/46	0	4
B180	11/18/45	1	5	B203	07/14/46	0	3
B181	01/13/46	18	14	B203	08/04/46	0	0
B182	06/30/46	0	0	B204	08/12/45	0	0
B182	07/21/46	1	0	B204	10/14/45	3	27
B182	08/18/46	0	4	B205	12/16/45	21	11
B183	08/18/46	0	0	B205	02/17/46	0	2
B184	07/08/45	0	0	B206	06/23/46	0	0
B184	08/26/45	0	13	B206	08/18/46	6	6
B184	10/28/45	0	0	B207	08/26/45	0	0
B185	01/13/46	0	8	B207	11/11/45	11	0
B185	03/31/46	0	0	B208	01/20/46	0	0
B185	06/16/46	0	0	B208	04/28/46	3	0
B185	06/30/46	0	0	B209	07/14/46	0	0
B186	08/12/45	0	1	B210	07/21/46	3	0
B186	11/11/45	8	12	B211	07/01/45	0	0
B187	02/24/46	0	0	B211	10/14/45	0	0
B187	06/30/46	2	0	B212	01/13/46	2	10
B188	08/19/45	8	0	B212	03/17/46	7	9
B188	10/07/45	7	0	B212	05/26/46	0	3
B188	12/23/45	2	0	B213	07/28/46	5	5
B189	02/17/46	7	0	B214	02/03/46	4	2
B189	04/21/46	0	0	B214	03/31/46	2	0
B189	05/12/46	0	0	B214	05/26/46	0	0
B189	05/19/46	0	0	B215	08/18/46	8	7
B189	06/09/46	0	8	B216	07/15/45	5	0
B190	07/14/46	0	0	B216	09/09/45	5	1
B190	08/04/46	4	0	B217	08/26/45	0	0
B190	08/31/46	0	0	B219	07/15/45	4	0
B191	07/29/45	0	0	B221	07/01/45	0	0
B191	11/25/45	4	6	B221	08/26/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B222	09/16/45	4	0	B345	06/16/46	0	0
B222	11/04/45	0	0	B345	08/18/46	2	2
B223	12/30/45	0	0	B346	05/06/45	4	0
B223	02/24/46	0	1	B346	09/16/45	7	0
B223	04/28/46	0	0	B347	07/07/46	2	2
B224	06/16/46	6	2	B348	08/05/45	0	8
B224	08/11/46	2	0	B349	02/17/46	2	0
B226	10/07/45	3	0	B350	04/07/46	0	0
B227	12/02/45	1	1	B351	08/31/46	2	1
B227	01/27/46	3	0	B352	04/07/46	1	0
B227	03/24/46	8	0	B353	07/01/45	29	0
B227	05/19/46	6	0	B353	07/22/45	0	0
B228	07/14/46	1	5	B354	10/14/45	31	0
B229	08/05/45	0	0	B354	11/11/45	28	35
B229	10/14/45	27	7	B354	12/03/45	2	4
B229	11/11/45	0	3	B354	12/06/45	3	0
B230	02/03/46	0	3	B354	01/06/46	24	0
B230	04/14/46	1	0	B354	02/03/46	1	0
B231	06/16/46	0	0	B354	03/03/46	7	1
B231	09/01/46	11	0	B355	03/31/46	0	4
B232	07/07/46	1	0	B355	04/28/46	0	1
B232	09/01/46	0	0	B355	05/26/46	0	2
B333	09/09/45	5	0	B355	06/09/46	4	0
B333	11/04/45	0	3	B355	06/23/46	15	6
B334	01/27/46	8	13	B355	07/21/46	3	6
B334	03/03/46	0	6	B355	08/18/46	0	5
B334	03/24/46	5	0	B356	07/15/45	8	8
B334	05/19/46	6	0	B356	07/22/45	14	0
B335	07/21/46	5	0	B357	11/18/45	9	9
B336	08/12/45	0	0	B357	12/02/45	0	0
B336	10/14/45	23	3	B357	01/13/46	15	11
B337	12/16/45	0	11	B357	01/20/46	0	1
B337	02/17/46	0	0	B358	04/14/46	0	4
B337	05/12/46	0	0	B358	05/12/46	0	1
B338	08/31/46	2	1	B358	06/09/46	0	0
B339	04/21/46	0	0	B358	07/14/46	6	5
B340	08/12/45	0	0	B358	08/11/46	8	4
B340	10/14/45	23	3	B359	08/05/45	6	0
B341	12/16/45	0	11	B360	09/30/45	7	7
B341	02/17/46	0	0	B360	11/25/45	0	0
B341	05/12/46	0	0	B361	03/17/46	0	0
B342	04/21/46	0	0	B361	05/12/46	1	0
B343	11/04/45	0	0	B361	07/07/46	0	0
B344	02/24/46	14	12	B361	08/31/46	5	11
B344	04/21/46	1	4	B362	09/09/45	9	5

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B363	03/10/46	2	0	B384	04/14/46	1	0
B364	06/17/45	0	0	B385	06/09/46	3	2
B365	03/10/46	6	0	B386	07/15/45	6	0
B365	04/21/46	0	0	B386	08/05/45	10	0
B366	11/04/45	0	3	B387	10/28/45	26	26
B366	02/10/46	0	0	B387	12/02/45	9	0
B367	08/25/46	0	2	B387	12/30/45	10	16
B368	10/14/45	33	17	B387	01/27/46	9	7
B368	11/18/45	0	13	B388	02/17/46	10	3
B369	01/13/46	2	26	B388	02/24/46	6	0
B369	03/10/46	0	0	B388	03/24/46	0	0
B369	05/05/46	3	0	B388	05/19/46	4	2
B370	06/30/46	2	2	B388	06/16/46	0	0
B370	07/28/46	9	0	B388	07/14/46	3	6
B370	08/25/46	1	1	B388	04/21/46	0	2
B371	08/04/46	5	7	B389	08/11/46	0	0
B372	08/05/45	0	1	B390	10/14/45	0	0
B373	12/02/45	16	0	B391	01/13/46	6	4
B373	02/03/46	10	10	B391	03/17/46	0	2
B374	08/26/45	2	0	B391	05/19/46	0	0
B374	09/23/45	0	0	B392	07/14/46	0	3
B375	12/09/45	4	2	B393	11/11/45	0	2
B375	01/13/46	0	2	B393	02/24/46	0	12
B375	01/27/46	0	0	B393	03/03/46	7	2
B375	03/31/46	0	0	B394	03/31/46	0	0
B376	05/26/46	1	0	B394	04/07/46	0	0
B376	06/16/46	0	8	B394	04/14/46	0	4
B376	08/11/46	3	0	B394	04/28/46	0	2
B377	07/28/46	0	5	B394	05/26/46	0	0
B378	11/11/45	4	0	B394	06/02/46	0	0
B379	07/14/46	0	0	B394	06/09/46	8	4
B380	08/26/45	0	0	B394	07/07/46	0	3
B380	01/13/46	11	0	B394	07/28/46	1	1
B381	03/10/46	0	0	B394	08/04/46	1	0
B381	03/31/46	3	0	B394	08/18/46	2	4
B381	05/05/46	0	0	B395	03/17/46	10	0
B381	05/26/46	0	0	B396	06/09/46	3	0
B381	06/23/46	0	0	B397	07/08/45	12	0
B382	07/28/46	0	0	B398	07/21/46	7	5
B382	08/25/46	10	2	B399	07/15/45	2	18
B383	07/22/45	4	0	B399	08/26/45	0	0
B383	09/30/45	0	30	B400	10/21/45	0	0
B383	11/11/45	0	2	B400	11/18/45	0	0
B384	02/17/46	12	3	B400	01/13/46	35	3
B384	03/17/46	0	0	B401	03/31/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B401	04/07/46	5	0	B422	11/25/45	0	0
B401	05/05/46	0	0	B422	03/17/46	5	0
B401	06/02/46	0	0	B423	07/21/46	6	3
B401	06/30/46	0	0	B424	08/12/45	5	0
B401	07/28/46	7	7	B425	08/26/45	1	9
B401	08/19/46	0	0	B426	03/31/46	0	0
B401	08/22/46	1	0	B427	06/09/46	2	1
B402	07/15/45	2	10	B427	08/31/46	0	0
B403	10/21/45	0	0	B428	06/16/46	0	0
B403	11/18/45	0	13	B428	08/18/46	2	0
B403	03/10/46	4	0	B429	08/05/45	0	0
B404	04/07/46	0	1	B430	08/12/45	8	0
B404	05/05/46	1	0	B430	10/14/45	0	3
B404	05/26/46	0	0	B431	12/16/45	0	15
B404	07/21/46	0	0	B431	04/07/46	0	0
B404	08/25/46	0	3	B432	08/05/45	2	2
B405	08/12/45	0	0	B432	09/30/45	0	6
B406	07/28/46	0	0	B433	12/23/45	0	0
B407	07/22/45	14	0	B433	02/17/46	4	0
B407	09/23/45	7	0	B433	04/14/46	5	2
B408	11/18/45	0	10	B434	07/28/46	0	0
B408	02/10/46	0	0	B435	08/05/45	0	10
B408	04/28/46	1	0	B436	01/20/46	1	0
B409	06/23/46	0	1	B437	03/17/46	5	7
B410	07/07/46	0	0	B437	06/30/46	0	0
B410	09/01/46	1	0	B438	08/26/45	0	2
B411	07/01/45	8	8	B439	02/03/46	9	7
B411	07/22/45	0	0	B439	03/31/46	0	3
B412	05/26/46	2	0	B440	02/10/46	5	0
B413	07/22/45	0	0	B441	05/12/46	0	0
B414	11/25/45	4	5	B442	08/05/45	0	0
B414	01/20/46	0	9	B443	12/02/45	8	6
B414	05/12/46	0	0	B443	03/17/46	4	0
B415	08/04/46	5	1	B444	07/14/46	0	0
B416	07/22/45	0	0	B445	08/04/46	0	0
B416	09/23/45	0	11	B446	04/21/46	0	0
B416	11/18/45	10	6	B447	07/21/46	0	0
B417	02/10/46	0	0	B448	01/06/46	3	1
B417	04/28/46	0	0	B449	06/30/46	1	0
B418	06/23/46	0	0	B450	08/05/45	4	0
B418	08/25/46	0	0	B451	07/28/46	0	0
B419	05/12/46	0	0	B452	08/05/45	4	0
B419	07/07/46	2	0	B452	11/25/45	4	0
B420	08/31/46	0	0	B453	03/17/46	0	6
B421	08/05/45	0	0	B454	07/14/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B455	10/07/45	8	12	B473	12/30/45	0	0
B455	12/02/45	2	5	B473	02/24/46	14	6
B455	03/03/46	3	0	B473	04/22/46	9	0
B456	04/07/46	0	4	B474	06/16/46	0	2
B456	05/19/46	1	0	B475	08/12/45	15	2
B456	09/01/46	0	0	B475	10/28/45	0	2
B457	07/15/45	0	0	B476	12/16/45	0	0
B457	09/02/45	2	10	B476	02/17/46	2	6
B457	10/07/45	0	4	B476	05/05/46	0	1
B457	10/14/45	0	13	B477	08/04/46	5	1
B458	12/16/45	1	1	B478	07/08/45	14	0
B458	02/10/46	1	1	B478	08/26/45	9	6
B458	03/03/46	0	0	B479	10/21/45	0	14
B458	04/07/46	0	3	B479	01/13/46	0	6
B459	06/16/46	1	0	B479	03/10/46	0	0
B459	08/31/46	0	0	B480	04/28/46	0	0
B460	08/12/45	0	0	B480	06/30/46	0	0
B461	10/14/45	0	0	B480	07/21/46	4	0
B461	12/09/45	8	4	B480	08/25/46	3	1
B461	01/27/46	1	3	B481	09/02/45	0	0
B462	05/19/46	0	5	B482	10/28/45	14	0
B462	07/28/46	0	0	B482	12/23/45	12	6
B463	07/22/45	0	0	B482	02/17/46	8	2
B463	09/02/45	6	6	B483	04/14/46	0	2
B464	12/23/45	0	0	B483	06/09/46	1	0
B464	02/17/46	7	0	B483	08/04/46	1	0
B464	04/14/46	0	0	B484	07/22/45	0	1
B465	06/09/46	5	0	B484	09/09/45	0	0
B465	08/04/46	0	0	B485	12/09/45	0	0
B466	11/11/45	5	0	B485	01/13/46	0	0
B467	01/13/46	0	4	B486	03/24/46	0	8
B467	02/24/46	0	1	B486	06/09/46	0	0
B467	03/24/46	2	3	B486	08/04/46	0	0
B467	05/19/46	0	2	B487	07/15/45	0	4
B468	08/11/46	0	1	B487	09/30/45	22	0
B469	08/12/45	0	9	B487	11/25/45	0	0
B469	09/23/45	0	0	B488	01/20/46	0	0
B469	11/18/45	17	9	B488	03/17/46	0	0
B470	01/06/46	0	0	B488	05/12/46	0	0
B470	03/03/46	1	0	B489	07/14/46	4	0
B470	05/19/46	1	2	B489	08/31/46	5	0
B471	07/28/46	0	0	B490	06/24/45	0	0
B472	07/01/45	0	0	B490	08/19/45	14	4
B472	09/09/45	0	0	B490	10/14/45	27	0
B472	11/04/45	3	15	B491	12/09/45	7	19

TABLE A.1. (contd)

Record Code	Week- Ending Date	Thyroid Check Results		Record Code	Week- Ending Date	Thyroid Check Results	
		R	L			R	L
B491	02/03/46	2	3	B517	06/16/46	0	6
B491	03/31/46	0	0	B517	08/11/46	0	3
B492	05/26/46	0	0	B518	07/07/46	0	0
B492	07/21/46	6	7	B519	08/19/45	0	5
B493	07/29/45	0	4	B520	11/11/45	11	11
B493	09/16/45	2	0	B520	01/06/46	4	10
B494	12/02/45	4	4	B520	03/03/46	5	5
B494	01/27/46	0	0	B521	04/21/46	0	0
B494	03/24/46	8	7	B521	06/23/46	1	0
B494	05/19/46	0	2	B521	08/18/46	8	0
B495	07/14/46	0	0	B522	06/27/45	0	0
B496	08/12/45	0	7	B523	06/27/45	0	0
B497	07/15/45	14	0	B525	04/14/46	10	3
B497	09/02/45	6	10	B526	07/01/45	11	0
B498	09/30/45	0	0	B526	07/22/45	0	16
B498	10/21/45	0	0	B527	10/21/45	0	0
B498	01/13/46	0	0	B527	01/06/46	10	0
B499	03/17/46	0	0	B527	03/03/46	1	1
B499	05/12/46	6	2	B528	04/21/46	0	0
B499	07/07/46	7	4	B528	07/07/46	4	0
B500	07/01/45	9	0	B528	08/25/46	0	0
B500	08/12/45	8	0	B529	07/01/45	18	10
B501	10/07/45	16	24	B529	08/05/45	12	8
B501	01/27/46	0	0	B530	10/07/45	0	0
B502	03/24/46	0	0	B530	10/14/45	0	0
B503	06/23/46	0	3	B530	12/16/45	24	0
B504	09/23/45	4	12	B530	02/17/46	0	0
B505	07/07/46	4	0	B531	05/26/46	4	0
B505	09/01/46	5	4	B531	08/11/46	4	6
B506	06/16/46	0	10	B532	08/12/45	13	13
B506	06/30/46	0	0	B532	11/11/45	0	0
B507	01/27/46	0	0	B533	03/17/46	8	0
B508	07/14/46	0	0	B534	07/28/46	3	3
B509	12/30/45	0	0	B535	02/04/45	0	0
B509	02/17/46	0	0	B536	01/13/46	14	30
B509	04/21/46	0	0	B536	03/10/46	12	12
B510	04/28/46	0	0	B536	05/05/46	8	0
B510	07/21/46	1	7	B537	07/28/46	1	1
B511	07/14/46	8	6	B538	08/11/46	0	0
B512	08/19/45	0	32	B539	08/26/45	1	0
B513	03/03/46	6	9	B539	10/21/45	0	2
B514	08/31/46	0	0	B540	03/17/46	0	0
B515	06/23/46	0	0	B541	10/07/45	0	14
B515	07/14/46	0	0	B542	12/23/45	6	0
B516	08/18/46	0	0	B543	06/30/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B544	07/15/45	40	4	B566	08/19/45	0	7
B545	08/05/45	0	4	B566	10/14/45	35	0
B545	11/04/45	3	0	B566	12/09/45	0	0
B546	05/19/46	0	0	B567	02/03/46	2	4
B547	07/08/45	12	8	B567	03/03/46	0	0
B547	07/15/45	0	0	B567	03/31/46	4	0
B547	10/14/45	0	0	B567	05/26/46	0	0
B548	02/10/46	1	0	B568	08/26/45	0	0
B549	08/19/45	0	0	B568	11/11/45	1	1
B549	10/07/45	3	0	B569	11/11/45	0	7
B550	01/20/46	0	0	B569	01/13/46	7	13
B550	03/17/46	0	5	B570	03/31/46	2	8
B550	05/12/46	3	0	B570	06/02/46	1	0
B551	07/07/46	1	2	B570	07/28/46	0	6
B551	08/31/46	0	0	B571	07/01/45	0	0
B552	10/07/45	12	0	B571	08/19/45	0	8
B553	12/16/45	0	0	B571	11/11/45	0	0
B553	02/10/46	0	0	B572	02/03/46	4	2
B553	05/12/46	0	2	B572	03/03/46	8	0
B554	09/02/45	6	0	B572	03/31/46	0	2
B554	09/16/45	0	0	B573	05/26/46	0	0
B554	12/09/45	2	4	B573	07/21/46	0	0
B555	04/07/46	0	2	B574	11/18/45	0	0
B555	06/09/46	0	3	B574	02/17/46	0	0
B556	08/04/46	0	0	B575	06/17/45	0	2
B557	07/22/45	0	0	B576	04/07/46	5	0
B557	10/28/45	0	4	B577	07/29/45	0	0
B558	07/15/45	0	0	B578	12/16/45	0	0
B558	08/05/45	0	0	B579	12/16/45	30	0
B559	11/25/45	2	0	B579	02/10/46	7	6
B559	01/20/46	0	0	B579	04/07/46	0	2
B559	03/17/46	0	0	B580	08/26/45	0	1
B559	04/14/46	0	0	B580	10/21/45	5	0
B560	11/04/45	18	6	B581	07/15/45	0	0
B561	12/16/45	30	8	B581	09/02/45	0	0
B561	05/05/46	1	0	B582	11/04/45	15	7
B562	09/02/45	0	0	B582	12/30/45	0	0
B562	10/21/45	0	0	B582	02/24/46	0	0
B563	07/15/45	7	0	B583	07/08/45	2	0
B563	09/16/45	13	0	B584	08/26/45	1	0
B563	10/28/45	6	2	B584	11/18/45	0	0
B564	12/23/45	0	2	B584	12/16/45	26	0
B564	02/24/46	4	0	B585	02/10/46	4	0
B564	05/05/46	0	4	B586	10/28/45	0	0
B565	07/01/45	4	4	B586	11/18/45	2	5

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B587	01/20/46	6	3	B608	11/18/45	6	2
B587	03/03/46	0	4	B608	01/13/46	20	14
B587	05/12/46	0	0	B609	04/21/46	0	3
B588	07/07/46	4	2	B609	06/30/46	0	0
B588	08/25/46	0	1	B610	07/01/45	11	3
B589	08/26/45	0	0	B610	09/02/45	10	16
B589	10/28/45	0	0	B611	09/23/45	0	0
B590	02/03/46	0	0	B611	11/18/45	7	6
B590	03/31/46	8	8	B612	01/13/46	3	6
B591	07/21/46	0	0	B612	03/17/46	0	2
B592	06/24/45	0	0	B612	05/05/46	0	0
B592	08/19/45	3	0	B613	06/30/46	2	1
B592	10/14/45	11	0	B614	07/22/45	0	0
B593	01/27/46	0	2	B614	09/09/45	11	0
B593	05/26/46	0	7	B614	11/11/45	0	0
B594	04/21/46	1	0	B615	01/13/46	4	0
B595	07/15/45	0	8	B615	04/07/46	10	0
B595	08/26/45	0	14	B616	06/23/46	0	0
B595	10/14/45	2	10	B616	07/21/46	2	1
B596	12/30/45	17	0	B617	07/15/45	4	0
B596	02/24/46	5	0	B618	07/01/45	0	13
B596	03/17/46	6	6	B618	08/26/45	1	5
B596	04/14/46	4	1	B618	11/11/45	23	27
B596	05/12/46	1	0	B619	02/10/46	0	7
B597	06/16/46	6	0	B619	02/17/46	2	0
B597	08/11/46	0	0	B619	02/24/46	0	0
B598	09/02/45	17	5	B620	04/28/46	8	0
B598	10/28/45	2	2	B621	07/28/46	0	9
B599	12/23/45	0	9	B622	07/22/45	3	0
B599	05/05/46	0	4	B623	11/25/45	0	4
B600	07/07/46	4	4	B623	01/20/46	5	0
B600	08/31/46	0	0	B624	03/24/46	8	1
B601	04/28/46	0	10	B624	08/04/46	0	0
B601	06/23/46	0	4	B624	09/01/46	0	0
B602	08/18/46	2	4	B625	09/14/46	2	3
B603	04/21/46	0	0	B626	07/15/45	0	0
B603	06/23/46	0	0	B626	09/09/45	0	0
B603	08/25/46	1	5	B626	11/04/45	0	25
B604	08/26/45	10	0	B627	02/03/46	8	6
B605	10/21/45	14	0	B627	03/24/46	0	4
B605	12/02/45	4	2	B627	05/26/46	0	0
B605	01/13/46	13	3	B628	07/21/46	2	2
B607	07/01/45	0	8	B629	06/23/46	7	0
B607	08/19/45	19	12	B630	04/07/46	3	0
B608	09/16/45	1	1	B631	08/11/46	4	2

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B632	08/12/45	8	8	B656	11/25/45	4	0
B632	09/30/45	27	3	B656	12/30/45	2	2
B632	10/07/45	0	2	B656	03/17/46	12	7
B633	11/25/45	4	0	B657	06/09/46	0	0
B633	02/03/46	0	0	B657	08/04/46	0	0
B633	03/17/46	12	0	B658	07/15/45	0	0
B633	04/14/46	0	0	B659	12/02/45	7	3
B634	06/16/46	0	0	B660	06/09/46	0	0
B634	08/11/46	2	0	B661	07/22/45	9	5
B635	07/08/45	1	0	B661	09/16/45	4	8
B636	01/13/46	10	0	B662	01/27/46	5	0
B636	03/17/46	7	2	B663	06/09/46	0	0
B636	05/12/46	4	4	B663	06/16/46	0	0
B637	07/21/46	0	1	B664	07/08/45	5	1
B638	01/27/46	0	5	B664	09/16/45	0	0
B638	03/24/46	1	6	B664	11/04/45	10	4
B638	05/19/46	0	0	B665	01/06/46	10	0
B639	07/21/46	0	3	B665	03/10/46	3	0
B640	12/24/44	0	4	B666	11/26/44	0	0
B640	02/25/45	0	0	B666	02/04/45	0	0
B640	04/15/45	2	1	B667	07/08/45	0	5
B641	08/19/45	0	8	B667	08/26/45	0	0
B641	10/14/45	0	0	B668	04/07/46	1	10
B642	06/16/46	0	0	B669	06/23/46	0	0
B642	07/28/46	7	0	B669	08/18/46	5	0
B643	02/17/46	0	0	B670	07/29/45	8	8
B643	04/14/46	0	0	B670	09/16/45	0	11
B644	06/30/46	0	2	B670	11/11/45	1	1
B645	07/15/45	15	0	B671	01/06/46	6	0
B645	10/21/45	6	6	B671	03/03/46	0	0
B646	08/12/45	0	0	B671	05/05/46	0	0
B647	09/23/45	6	0	B672	07/14/46	0	0
B648	05/12/46	7	0	B673	07/08/45	0	0
B649	07/08/45	5	17	B673	10/14/45	13	13
B650	12/02/45	0	0	B674	03/03/46	0	0
B650	02/24/46	0	0	B675	07/21/46	0	3
B650	04/21/46	0	0	B676	08/05/45	4	4
B651	08/25/46	1	0	B679	07/28/46	0	0
B652	07/15/45	8	8	B680	12/09/45	0	0
B652	09/30/45	42	0	B681	09/09/45	7	0
B653	11/25/45	0	0	B681	11/04/45	0	11
B653	02/17/46	0	0	B682	01/06/46	0	0
B654	06/30/46	0	3	B682	03/24/46	0	3
B655	07/08/45	1	17	B682	05/19/46	2	0
B655	09/16/45	0	3	B683	07/07/46	0	1

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B683	08/31/46	0	0	B709	12/23/45	0	0
B684	07/01/45	0	0	B709	04/14/46	0	0
B684	09/16/45	0	4	B710	06/09/46	0	9
B685	12/16/45	16	0	B710	08/04/46	0	5
B685	02/24/46	2	0	B710	09/01/46	0	3
B686	06/16/46	0	5	B711	02/24/46	7	0
B686	07/21/46	2	5	B711	04/21/46	0	3
B687	07/21/46	0	0	B712	05/12/46	0	0
B688	07/08/45	0	0	B712	06/23/46	0	1
B689	08/12/45	0	0	B713	07/29/45	0	0
B689	10/14/45	31	15	B714	09/23/45	0	0
B690	01/13/46	4	7	B714	11/18/45	0	2
B691	07/29/45	4	0	B714	03/03/46	0	2
B692	02/03/46	3	5	B715	04/07/46	1	0
B692	04/07/46	0	0	B715	04/28/46	0	0
B693	07/28/46	5	6	B715	06/30/46	0	0
B693	08/25/46	0	0	B716	09/02/45	5	9
B694	07/01/45	0	0	B716	10/21/45	0	0
B694	07/01/45	9	5	B717	12/16/45	0	1
B695	07/15/45	0	0	B717	02/10/46	0	0
B695	09/02/45	21	9	B717	03/31/46	0	0
B695	11/11/45	8	0	B718	06/23/46	0	0
B696	01/27/46	12	0	B718	07/28/46	0	0
B696	03/17/46	3	4	B719	07/01/45	0	16
B697	06/02/46	0	0	B720	08/31/46	8	0
B697	08/04/46	0	3	B721	12/16/45	0	0
B698	08/19/45	0	0	B721	02/03/46	8	0
B698	10/14/45	3	15	B722	10/07/45	2	0
B699	01/13/46	0	0	B723	12/16/45	12	32
B699	03/31/46	0	0	B723	02/17/46	0	0
B700	06/16/46	0	6	B723	03/17/46	1	0
B701	08/12/45	15	19	B723	05/12/46	0	0
B702	10/07/45	18	0	B724	07/21/46	0	0
B703	03/10/46	0	0	B725	07/22/45	0	0
B704	06/02/46	1	0	B726	02/17/46	1	0
B704	07/28/46	2	0	B726	04/07/46	0	6
B705	09/02/45	6	6	B727	07/07/46	0	0
B705	11/25/45	0	0	B729	07/15/45	0	18
B706	02/17/46	0	0	B729	08/05/45	0	0
B706	03/17/46	0	1	B729	09/09/45	2	2
B706	04/14/46	2	3	B730	09/16/45	8	8
B707	06/09/46	4	12	B730	10/21/45	0	0
B708	07/01/45	0	11	B730	11/25/45	0	0
B708	09/02/45	2	18	B730	01/20/46	0	5
B708	10/28/45	0	0	B730	02/17/46	3	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B731	03/17/46	0	5	B750	12/23/45	2	0
B731	04/14/46	0	5	B750	03/17/46	0	0
B731	05/05/46	3	0	B750	05/12/46	0	0
B731	05/12/46	0	1	B751	04/28/46	3	0
B731	06/09/46	0	0	B751	06/23/46	4	4
B731	07/07/46	7	0	B752	08/11/46	0	0
B731	07/28/46	1	1	B753	07/08/45	1	5
B731	08/18/46	0	0	B753	09/23/45	4	0
B731	08/25/46	5	0	B753	11/18/45	0	0
B732	08/12/45	1	0	B754	01/06/46	0	0
B733	12/16/45	0	8	B754	03/10/46	0	7
B733	02/24/46	3	0	B754	03/31/46	1	8
B733	03/24/46	0	0	B754	06/02/46	0	0
B733	05/19/46	0	0	B755	07/28/46	2	3
B734	06/16/46	0	6	B756	07/29/45	0	15
B734	08/11/46	0	0	B756	09/16/45	0	19
B734	08/31/46	0	0	B757	12/02/45	1	5
B735	08/05/45	0	12	B757	02/24/46	3	0
B736	12/23/45	4	14	B758	07/07/46	2	7
B737	02/10/46	2	4	B758	08/31/46	0	0
B737	04/14/46	7	0	B759	10/28/45	0	8
B738	10/07/45	14	6	B760	01/06/46	5	5
B739	12/09/45	3	0	B760	02/24/46	0	0
B739	03/17/46	0	0	B760	04/28/46	0	0
B739	05/12/46	1	0	B760	05/19/46	4	0
B740	07/28/46	0	0	B761	06/23/46	0	0
B741	07/07/46	0	0	B761	08/18/46	1	0
B741	08/31/46	0	0	B762	07/01/45	0	0
B742	02/17/46	0	0	B763	09/02/45	42	10
B743	08/05/45	0	0	B763	12/09/45	11	0
B743	09/30/45	2	0	B763	02/03/46	0	0
B744	12/23/45	0	0	B764	04/07/46	2	0
B744	02/17/46	0	1	B764	06/02/46	0	0
B744	03/17/46	2	0	B764	08/04/46	0	0
B744	04/14/46	5	4	B765	07/22/45	0	0
B745	06/09/46	8	3	B765	10/28/45	8	0
B746	07/01/45	13	0	B766	05/12/46	0	6
B746	09/16/45	16	12	B767	07/08/45	0	0
B746	11/11/45	4	0	B767	10/07/45	0	0
B747	01/06/46	6	0	B768	02/03/46	9	5
B747	03/03/46	0	0	B768	04/28/46	0	1
B747	03/31/46	6	1	B769	07/07/46	0	0
B747	04/28/46	0	0	B770	07/01/45	0	0
B748	06/23/46	1	0	B771	08/11/46	0	0
B749	11/25/45	4	5	B772	02/17/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B773	07/22/45	0	0	B799	03/31/46	0	4
B773	08/19/45	39	59	B799	06/09/46	0	2
B773	09/23/45	39	23	B800	08/18/46	7	1
B774	01/13/46	12	14	B801	08/12/45	0	12
B774	04/14/46	2	0	B802	07/21/46	0	0
B775	07/28/46	0	0	B803	07/15/45	9	0
B775	08/25/46	0	0	B803	09/09/45	0	0
B776	08/12/45	7	0	B803	12/02/45	5	9
B777	07/28/46	4	1	B804	01/27/46	0	0
B778	01/13/46	0	0	B804	03/31/46	0	4
B778	06/02/46	0	0	B804	06/09/46	0	2
B779	07/28/46	0	0	B805	08/18/46	7	1
B779	08/25/46	2	0	B806	07/01/45	7	0
B780	05/19/46	0	0	B806	10/28/45	0	0
B781	07/28/46	2	0	B807	12/30/45	0	0
B782	07/22/45	0	0	B807	02/17/46	0	0
B782	10/07/45	18	4	B807	04/14/46	0	2
B783	12/16/45	2	2	B807	05/12/46	0	0
B783	02/24/46	5	5	B808	08/11/46	0	0
B783	04/28/46	0	0	B809	08/05/45	0	0
B784	07/14/46	0	1	B810	07/29/45	0	0
B785	07/01/45	0	4	B810	09/09/45	17	7
B785	09/02/45	9	5	B811	01/06/46	4	0
B786	01/13/46	10	10	B811	03/03/46	1	0
B786	03/17/46	0	7	B811	04/28/46	0	5
B787	07/07/46	6	6	B811	06/23/46	0	1
B788	07/29/45	0	12	B812	08/18/46	2	0
B789	06/30/46	0	0	B813	08/12/45	0	0
B790	07/01/45	0	0	B813	11/18/45	4	16
B790	09/30/45	0	0	B814	01/06/46	6	2
B791	08/19/45	12	17	B814	03/10/46	0	3
B792	10/07/45	0	0	B814	05/12/46	0	2
B793	04/07/46	0	0	B814	06/02/46	0	0
B793	06/16/46	3	7	B815	08/04/46	0	0
B793	08/18/46	0	3	B816	03/17/46	0	0
B794	04/28/46	5	3	B817	08/11/46	4	0
B795	06/23/46	0	0	B818	07/01/45	0	0
B795	08/18/46	0	0	B818	08/26/45	0	0
B796	12/03/44	5	0	B819	12/02/45	0	7
B797	07/15/45	7	0	B819	12/30/45	0	0
B797	10/07/45	3	11	B819	02/24/46	0	0
B798	07/15/45	9	0	B819	03/31/46	0	5
B798	09/09/45	0	0	B820	06/09/46	0	0
B798	12/02/45	5	9	B821	07/22/45	0	0
B799	01/27/46	0	0	B821	08/19/45	4	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B821	10/07/45	14	0	B843	11/11/45	11	11
B822	12/02/45	1	0	B843	12/09/45	3	3
B822	01/27/46	1	0	B844	07/22/45	0	1
B822	03/24/46	0	1	B845	11/04/45	3	3
B823	05/19/46	6	1	B845	01/27/46	2	0
B823	08/11/46	4	2	B846	03/24/46	0	0
B824	06/24/45	15	15	B846	05/19/46	9	0
B824	10/14/45	9	0	B846	07/14/46	0	0
B825	02/10/46	1	0	B846	08/31/46	0	0
B825	03/03/46	2	4	B847	04/28/46	4	2
B826	05/05/46	0	1	B847	07/14/46	0	0
B826	07/28/46	0	0	B848	07/15/45	4	4
B827	06/24/45	0	3	B848	08/26/45	0	0
B827	07/29/45	15	0	B849	09/23/45	20	4
B827	08/19/45	0	2	B849	11/18/45	6	2
B827	09/16/45	18	0	B849	12/16/45	8	16
B828	11/11/45	0	5	B849	01/13/46	22	2
B828	01/06/46	4	2	B850	05/05/46	0	2
B828	03/03/46	0	0	B850	08/25/46	0	1
B828	04/28/46	0	0	B851	07/29/45	0	0
B829	09/09/45	0	0	B852	12/16/45	0	0
B830	07/21/46	0	0	B852	02/10/46	9	14
B831	11/18/45	0	3	B853	05/05/46	0	0
B832	01/27/46	0	13	B853	06/30/46	0	0
B832	02/24/46	2	0	B853	07/28/46	0	2
B832	03/31/46	1	0	B854	05/12/46	0	0
B833	07/21/46	0	0	B855	07/22/45	9	9
B834	07/08/45	0	0	B856	09/09/45	0	3
B834	10/28/45	0	5	B856	12/02/45	5	13
B835	01/27/46	2	0	B856	01/27/46	2	6
B835	03/31/46	6	1	B857	03/24/46	0	5
B836	07/15/45	3	7	B857	05/19/46	1	0
B836	09/23/45	0	4	B857	06/16/46	0	4
B836	11/11/45	0	11	B857	07/14/46	2	0
B837	01/13/46	4	0	B858	08/31/46	0	2
B837	03/24/46	0	7	B859	11/25/45	6	2
B837	05/26/46	0	0	B859	02/10/46	5	0
B838	07/21/46	0	0	B859	03/31/46	2	4
B839	07/22/45	0	7	B860	08/12/45	0	5
B840	10/07/45	3	0	B860	09/30/45	5	1
B840	12/16/45	0	0	B861	06/16/46	7	2
B840	03/03/46	8	5	B861	08/11/46	3	0
B841	04/28/46	0	0	B862	07/08/45	0	0
B842	07/15/45	2	0	B863	10/07/45	2	2
B842	09/09/45	8	4	B863	12/02/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B864	01/27/46	0	0	B884	10/21/45	0	0
B864	03/24/46	0	0	8885	07/28/46	1	0
B865	07/29/45	0	0	B886	07/22/45	3	0
B866	09/16/45	2	0	8886	09/09/45	5	5
B866	10/21/45	0	9	B886	11/11/45	6	0
B866	12/09/45	5	13	B887	01/06/46	0	0
B866	02/03/46	7	0	B887	03/03/46	0	0
B867	04/07/46	10	5	B887	04/28/46	0	2
8867	06/02/46	5	0	B887	06/23/46	0	2
8867	06/23/46	0	0	B888	08/18/46	6	4
8867	07/28/46	0	0	B889	08/12/45	0	0
B868	07/15/45	4	4	B889	10/07/45	6	0
B869	09/23/45	0	0	B889	12/30/45	0	4
B869	11/11/45	8	0	B890	02/24/46	0	4
B869	01/13/46	34	19	8890	04/21/46	0	0
B870	03/17/46	1	0	B890	06/16/46	0	9
B870	05/12/46	0	6	B891	10/28/45	2	0
B870	07/21/46	0	0	B891	11/18/45	0	0
B872	08/26/45	0	0	B891	01/20/46	8	6
B872	10/21/45	13	9	B892	03/17/46	6	0
B872	12/16/45	0	0	B892	05/12/46	0	0
8873	04/07/46	1	0	B892	07/28/46	0	0
8873	06/02/46	0	0	B893	07/15/45	0	0
B873	07/28/46	3	0	B894	09/02/45	12	0
B874	07/15/45	0	6	B894	10/28/45	3	0
B875	08/26/45	0	1	B894	12/23/45	11	0
B875	09/23/45	31	11	B895	02/17/46	9	4
B875	11/18/45	0	0	B895	04/14/46	2	4
B875	01/13/46	32	14	B895	06/09/46	6	0
B876	03/10/46	0	3	B896	07/29/45	0	0
B876	05/05/46	0	5	B897	03/03/46	11	9
B876	06/30/46	6	0	B897	05/26/46	0	0
B877	08/26/45	17	9	8897	07/14/46	3	0
B877	11/04/45	3	0	B898	09/16/45	7	7
8878	06/09/46	5	3	B898	11/11/45	1	1
B879	08/31/46	0	0	B898	01/06/46	0	0
B880	07/15/45	12	8	B899	08/19/45	12	0
B881	09/30/45	6	0	B899	10/14/45	5	0
B881	12/02/45	3	3	8899	12/09/45	0	3
B882	02/17/46	2	2	B900	02/03/46	0	7
B882	04/21/46	0	0	B900	02/24/46	2	0
B882	06/16/46	0	1	B900	03/31/46	6	0
B883	08/31/46	0	0	B900	05/26/46	0	0
B884	07/15/45	3	0	B900	07/21/46	0	1
B884	09/02/45	9	1	B901	07/08/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B902	10/07/45	0	0	B926	06/16/46	2	0
B902	02/03/46	0	11	B927	08/11/46	0	3
B903	07/15/45	0	0	B928	09/02/45	7	7
B904	09/09/45	0	0	B928	09/16/45	0	23
B904	11/18/45	0	0	B928	11/11/45	5	1
B904	01/13/46	8	0	B928	01/06/46	3	5
B905	05/26/46	0	0	B929	03/03/46	4	0
B906	08/11/46	1	0	B929	04/28/46	0	9
B907	07/15/45	0	0	B929	06/23/46	4	0
B908	09/02/45	5	7	B930	08/18/46	0	0
B908	10/28/45	4	0	B931	08/26/45	1	0
B908	12/30/45	10	8	B931	09/23/45	4	0
B909	02/24/46	3	0	B931	11/18/45	12	0
B909	05/05/46	0	0	B931	01/13/46	15	0
B909	07/07/46	0	0	B932	03/10/46	0	0
B910	07/22/45	0	0	B932	05/12/46	0	0
B910	09/16/45	0	3	B932	07/14/46	4	0
B910	12/09/45	6	3	B933	07/15/45	8	24
B911	02/03/46	3	4	B934	09/02/45	0	0
B911	04/28/46	8	0	B934	12/23/45	15	0
B911	06/23/46	0	4	B935	02/17/46	5	0
B912	08/11/46	1	3	B935	04/14/46	0	0
B913	07/08/45	0	0	B935	06/09/46	0	3
B914	10/07/45	0	11	B936	08/31/46	0	1
B915	07/08/45	7	7	B937	07/22/45	5	0
B916	09/23/45	4	4	B938	08/12/45	0	0
B916	11/18/45	0	0	B938	12/02/45	5	13
B917	03/10/46	0	0	B938	12/30/45	8	0
B917	05/05/46	0	4	B939	03/03/46	17	1
B917	06/30/46	0	0	B939	04/21/46	9	0
B918	08/25/46	2	4	B939	06/16/46	0	0
B919	07/14/46	0	0	B940	07/01/45	0	0
B920	08/05/45	4	0	B940	07/22/45	12	0
B921	07/15/45	8	24	B941	07/22/45	0	0
B922	09/02/45	8	13	B942	10/28/45	4	20
B922	11/25/45	2	3	B943	03/03/46	0	0
B923	02/17/46	0	1	B943	07/21/46	0	0
B923	05/12/46	0	0	B944	07/22/45	8	4
B923	07/07/46	0	2	B945	09/09/45	0	0
B924	08/31/46	1	1	B945	12/09/45	3	3
B925	09/16/45	0	1	B946	02/03/46	1	0
B925	10/28/45	0	4	B946	03/03/46	0	0
B925	12/09/45	0	0	B946	04/07/46	10	1
B926	02/24/46	0	0	B946	05/26/46	0	0
B926	04/21/46	8	3	B946	07/14/46	0	5

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B947	07/08/45	0	2	B964	08/11/46	0	2
B948	08/26/45	2	0	B965	07/01/45	0	2
B948	10/28/45	0	0	B965	07/29/45	0	7
B948	12/30/45	8	5	B966	12/02/45	0	0
B949	02/24/46	7	0	B966	12/30/45	3	7
B949	06/16/46	3	0	B966	01/27/46	0	0
B950	08/11/46	2	2	B967	02/17/46	14	3
B951	08/12/45	4	0	B967	03/17/46	0	0
B951	10/14/45	35	11	B967	04/21/46	0	0
B951	12/09/45	0	0	B967	05/19/46	0	1
B952	02/03/46	7	0	B967	06/16/46	5	2
B952	04/14/46	5	1	B968	08/31/46	9	3
B952	06/02/46	0	0	B969	07/29/45	27	0
B952	06/16/46	7	1	B970	09/16/45	7	11
B953	08/25/46	0	0	B970	11/11/45	0	0
B954	07/29/45	0	0	B970	01/06/46	2	6
B955	09/16/45	0	18	B971	02/24/46	3	0
B955	11/18/45	0	0	B971	06/23/46	0	0
B955	01/13/46	1	17	B972	08/11/46	0	0
B956	03/10/46	7	0	B973	07/29/45	0	0
B956	03/31/46	2	3	B974	07/08/45	0	0
B956	04/28/46	5	5	B974	10/07/45	14	0
B957	08/25/46	0	0	B975	02/03/46	0	5
B958	09/30/45	0	22	B976	08/11/46	6	0
B958	12/23/45	0	19	B977	07/29/45	4	0
B958	12/30/45	40	28	B977	09/09/45	0	0
B958	01/06/46	18	18	B977	10/14/45	0	0
B959	07/01/45	0	0	B978	02/24/46	3	0
B959	07/08/45	0	0	B978	03/24/46	0	0
B960	02/17/46	12	0	B979	07/21/46	0	1
B960	04/14/46	0	0	B980	07/08/45	0	0
B960	05/05/46	0	0	B980	08/19/45	13	0
B961	08/04/46	3	1	B980	10/21/45	0	2
B962	07/01/45	0	0	B980	12/23/45	20	10
B963	08/26/45	2	22	B981	04/28/46	0	0
B963	09/02/45	4	0	B981	06/30/46	4	0
B963	11/04/45	0	0	B982	07/08/45	0	0
B963	12/02/45	0	5	B982	08/26/45	0	0
B963	12/30/45	12	3	B982	09/23/45	0	0
B963	01/20/46	0	0	B982	11/18/45	0	0
B964	02/24/46	9	13	B983	01/13/46	0	0
B964	03/17/46	0	0	B983	03/10/46	0	0
B964	04/21/46	0	0	B983	05/05/46	0	2
B964	06/16/46	0	0	B984	08/25/46	0	0
B964	07/21/46	0	0	B985	08/05/45	4	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B986	10/07/45	0	0	B1005	02/03/46	9	10
B986	11/25/45	0	0	B1005	03/31/46	0	0
B986	02/03/46	0	0	B1005	05/26/46	0	7
B987	03/31/46	1	0	B1006	07/21/46	0	0
B987	06/30/46	0	1	B1007	07/29/45	0	10
B987	07/28/46	0	0	B1007	10/28/45	0	0
B988	07/22/45	0	0	B1007	12/16/45	0	0
B988	10/07/45	0	0	B1008	03/10/46	0	0
B988	12/02/45	9	9	B1008	05/19/46	0	3
B989	01/27/46	0	3	B1008	07/14/46	0	1
B989	03/24/46	4	0	B1009	07/22/45	0	5
B989	05/19/46	0	0	B1010	02/24/46	7	8
B990	07/14/46	0	0	B1011	07/08/45	0	0
B991	07/15/45	0	0	B1011	10/07/45	16	24
B991	07/22/45	0	0	B1012	02/10/46	0	0
B991	09/16/45	0	2	B1012	05/26/46	0	0
B992	11/18/45	0	1	B1013	08/11/46	0	6
B992	01/27/46	0	9	B1014	07/01/45	0	0
B993	07/29/45	18	18	B1015	08/26/45	0	0
B994	09/16/45	0	3	B1015	09/30/45	0	0
B994	11/11/45	0	4	B1015	11/25/45	0	0
B994	01/06/46	4	0	B1016	02/24/46	0	0
B995	05/05/46	0	0	B1016	04/28/46	0	0
B995	07/07/46	0	0	B1016	06/23/46	6	0
B996	07/15/45	3	9	B1017	06/30/46	0	1
B996	09/09/45	0	5	B1018	08/26/45	18	0
B996	11/04/45	0	0	B1018	10/28/45	0	0
B996	11/25/45	4	0	B1019	07/28/46	0	0
B997	02/24/46	0	2	B1020	07/01/45	0	5
B997	03/24/46	2	0	B1021	03/24/46	0	0
B997	05/12/46	0	0	B1022	08/11/46	2	0
B998	07/15/45	0	8	B1023	08/26/45	0	22
B999	09/30/45	2	0	B1023	09/23/45	12	0
B999	12/02/45	2	5	B1023	11/18/45	0	0
B999	01/06/46	2	6	B1023	01/13/46	0	0
B1000	01/27/46	0	4	B1024	03/10/46	3	0
B1000	03/24/46	0	8	B1024	04/07/46	9	3
B1000	07/14/46	6	0	B1024	05/05/46	2	0
B1001	07/15/45	26	0	B1024	06/30/46	1	0
B1002	08/26/45	6	10	B1025	08/25/46	4	3
B1002	10/28/45	4	0	B1026	07/15/45	18	0
B1002	12/23/45	0	3	B1027	08/26/45	0	0
B1003	07/01/45	4	11	B1027	11/04/45	7	3
B1004	08/19/45	11	11	B1027	01/13/46	26	10
B1004	10/14/45	15	3	B1028	07/15/45	14	14

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B1028	09/02/45	5	13	B1046	01/27/46	0	3
B1028	11/11/45	20	0	B1047	03/24/46	4	3
B1029	01/13/46	15	24	B1047	08/31/46	3	0
B1029	02/03/46	15	13	B1048	08/19/45	0	0
B1029	03/17/46	3	14	B1048	09/23/45	0	3
B1029	04/28/46	0	5	B1048	11/11/45	0	23
B1029	05/26/46	3	4	B1048	01/13/46	0	6
B1030	08/25/46	4	0	B1049	03/10/46	0	0
B1031	07/15/45	0	0	B1049	05/05/46	0	2
B1032	03/31/46	2	2	B1049	07/28/46	0	0
B1032	06/16/46	0	0	B1050	07/15/45	0	0
B1033	09/02/45	0	1	B1051	09/02/45	6	0
B1033	10/07/45	0	0	B1051	10/28/45	0	6
B1033	12/02/45	0	8	B1051	12/23/45	0	8
B1034	01/27/46	2	2	B1052	08/11/46	4	2
B1034	03/17/46	0	6	B1053	07/01/45	0	15
B1034	05/19/46	0	0	B1054	10/07/45	2	2
B1035	07/22/45	5	13	B1054	12/30/45	5	0
B1036	10/07/45	11	0	B1055	02/17/46	1	0
B1037	01/27/46	2	5	B1055	03/24/46	0	1
B1037	02/24/46	8	2	B1055	06/09/46	2	0
B1037	03/24/46	1	3	B1056	08/31/46	0	0
B1037	04/14/46	2	0	B1058	12/09/45	7	4
B1037	05/19/46	0	0	B1059	03/03/46	2	1
B1037	07/14/46	0	0	B1060	07/21/46	0	6
B1038	07/15/45	28	36	B1061	05/06/46	7	1
B1039	09/09/45	1	0	B1062	08/05/45	4	0
B1039	11/04/45	0	7	B1062	11/18/45	0	0
B1040	02/03/46	1	8	B1063	01/20/46	0	0
B1040	03/31/46	0	8	B1064	07/21/46	8	0
B1040	05/19/46	0	0	B1065	07/22/45	3	0
B1040	07/21/46	5	1	B1066	10/21/45	0	0
B1041	08/05/45	0	4	B1066	12/23/45	0	7
B1041	12/02/45	4	3	B1066	02/24/46	0	2
B1042	03/17/46	0	2	B1067	06/09/46	0	0
B1042	07/14/46	0	0	B1068	11/25/45	6	5
B1043	07/08/45	0	14	B1069	02/17/46	0	2
B1044	08/26/45	0	9	B1069	07/14/46	7	5
B1044	10/28/45	3	3	B1070	07/01/45	5	2
B1044	12/23/45	0	0	B1070	09/16/45	0	3
B1045	02/17/46	0	0	B1071	12/09/45	5	2
B1045	05/12/46	1	0	B1072	03/31/46	7	2
B1045	07/07/46	0	6	B1073	07/21/46	0	0
B1046	10/07/45	0	0	B1074	07/08/45	0	0
B1046	12/02/45	0	0	B1075	08/26/45	20	4

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B1075	10/07/45	0	0	B1096	06/30/46	0	0
B1075	12/02/45	0	0	B1097	08/18/46	4	0
B1076	01/27/46	2	1	B1098	07/08/45	10	10
B1076	03/24/46	0	0	B1099	02/10/46	10	8
B1077	07/15/45	0	24	B1100	05/26/46	0	0
B1077	10/28/45	8	4	B1100	07/28/46	0	0
B1077	12/09/45	5	4	B1101	07/15/45	6	0
B1078	02/17/46	0	0	B1101	10/28/45	23	3
B1078	04/14/46	0	4	B1101	12/23/45	23	3
B1079	07/14/46	1	0	B1102	03/17/46	0	0
B1080	07/28/46	0	2	B1102	05/12/46	0	4
B1081	01/13/46	7	4	B1103	08/04/46	5	6
B1081	03/10/46	6	0	B1104	07/01/45	8	0
B1081	06/02/46	5	0	B1105	08/19/45	0	0
B1082	08/26/45	1	9	B1105	10/28/45	0	0
B1082	11/18/45	11	0	B1105	12/23/45	0	0
B1083	07/15/45	0	0	B1106	02/17/46	0	0
B1083	09/02/45	0	0	B1106	04/14/46	2	4
B1083	09/30/45	0	0	B1106	05/12/46	0	0
B1083	11/25/45	0	0	B1106	06/09/46	0	0
B1084	02/24/46	4	10	B1107	08/04/46	0	3
B1084	04/28/46	0	0	B1107	08/25/46	0	3
B1085	10/21/45	6	0	B1108	04/21/46	0	0
B1085	12/23/45	0	0	B1108	05/12/46	0	0
B1086	02/17/46	0	0	B1108	06/16/46	0	4
B1086	04/21/46	0	0	B1109	08/11/46	6	1
B1086	06/23/46	0	0	B1110	07/01/45	0	0
B1087	08/25/46	0	0	B1111	08/26/45	0	8
B1088	12/09/45	6	8	B1111	11/11/45	16	8
B1088	12/30/45	0	0	B1112	03/03/46	9	4
B1089	03/03/46	0	0	B1112	04/28/46	0	0
B1089	03/31/46	0	0	B1112	06/23/46	0	7
B1089	04/21/46	0	0	B1113	07/08/45	0	0
B1090	08/18/46	0	0	B1114	09/09/45	0	0
B1091	06/24/45	3	15	B1114	11/25/45	0	8
B1091	07/01/45	10	0	B1115	02/17/46	2	5
B1092	08/26/45	0	0	B1115	04/14/46	0	0
B1092	10/21/45	3	3	B1115	05/12/46	0	0
B1092	12/09/45	1	9	B1115	06/09/46	0	0
B1093	07/21/46	0	0	B1116	08/04/46	2	0
B1095	08/26/45	0	3	B1117	07/15/45	6	0
B1095	10/21/45	0	1	B1117	10/07/45	0	10
B1095	12/23/45	0	8	B1117	12/02/45	0	0
B1096	02/24/46	0	0	B1118	01/27/46	0	0
B1096	06/09/46	4	0	B1118	03/24/46	1	2

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B1119	08/11/46	0	0	B1143	03/10/46	5	5
B1120	10/14/45	0	0	B1143	05/26/46	2	0
B1120	12/16/45	6	0	B1144	07/21/46	1	0
B1121	08/12/45	0	0	B1145	09/16/45	0	0
B1122	02/10/46	4	0	B1146	07/28/46	1	0
B1122	04/28/46	0	4	B1147	02/03/46	0	0
B1123	08/19/45	7	6	B1147	04/07/46	0	5
B1123	12/09/45	0	0	B1148	07/08/45	6	0
B1124	02/03/46	0	0	B1148	10/21/45	0	0
B1124	03/31/46	0	0	B1148	10/28/45	0	0
B1125	08/18/46	14	6	B1149	02/24/46	6	5
B1126	12/02/45	9	0	B1150	08/12/45	12	0
B1127	07/01/45	0	0	B1150	11/04/45	0	15
B1128	05/05/46	2	0	B1150	12/30/45	2	6
B1128	06/23/46	1	0	B1151	08/11/46	0	0
B1129	05/27/45	0	0	B1152	09/23/45	0	0
B1130	09/16/45	0	16	B1152	11/18/45	5	0
B1130	01/13/46	4	6	B1153	01/13/46	4	15
B1131	03/10/46	0	7	B1153	03/17/46	0	0
B1131	06/16/46	6	0	B1154	08/31/46	12	10
B1131	08/18/46	0	2	B1155	07/22/45	0	0
B1132	07/01/45	8	0	B1155	09/23/45	0	8
B1133	08/26/45	0	0	B1155	11/18/45	1	9
B1133	11/11/45	8	20	B1156	01/13/46	6	2
B1134	03/03/46	0	0	B1156	03/17/46	3	0
B1134	04/28/46	0	0	B1157	08/31/46	0	0
B1134	06/23/46	8	11	B1158	07/01/45	0	0
B1135	08/18/46	2	0	B1159	08/26/45	3	1
B1136	08/26/45	0	0	B1159	10/21/45	10	10
B1136	09/23/45	0	4	B1159	12/23/45	0	0
B1136	11/18/45	0	23	B1160	03/10/46	0	3
B1136	01/13/46	2	0	B1161	07/28/46	2	0
B1137	03/10/46	8	0	B1161	08/18/46	12	0
B1137	04/07/46	1	2	B1162	09/09/45	0	0
B1137	05/05/46	0	3	B1162	11/18/45	0	0
B1138	07/28/46	0	0	B1163	01/13/46	7	17
B1139	07/15/45	3	7	B1163	04/28/46	0	0
B1140	01/20/46	0	1	B1163	06/09/46	2	1
B1140	03/17/46	0	2	B1164	08/04/46	0	2
B1140	05/05/46	0	0	B1164	08/18/46	0	2
B1141	06/30/46	0	1	B1165	07/01/45	12	0
B1142	07/29/45	0	0	B1166	10/21/45	9	0
B1142	10/14/45	0	0	B1167	01/13/46	0	0
B1142	12/09/45	3	7	B1167	03/10/46	8	3
B1143	01/06/46	1	2	B1167	05/05/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B1168	11/18/45	0	0	B1191	06/09/46	0	0
B1169	02/10/46	5	1	B1192	08/11/46	0	0
B1169	04/07/46	7	0	B1193	07/07/46	0	0
B1169	06/02/46	0	5	B1195	08/05/45	0	4
B1170	08/25/46	0	0	B1195	08/26/45	0	0
B1171	08/05/45	0	0	B1195	10/21/45	1	9
B1171	10/14/45	7	3	B1195	12/16/45	8	0
B1172	03/03/46	0	0	B1196	02/10/46	8	0
B1172	04/28/46	0	0	B1196	06/02/46	0	0
B1172	06/23/46	0	1	B1197	07/28/46	0	0
B1174	06/17/45	11	3	B1198	07/22/45	0	0
B1175	09/02/45	0	6	B1198	10/07/45	23	0
B1175	10/14/45	0	0	B1198	12/02/45	0	0
B1176	01/13/46	0	0	B1199	01/27/46	0	0
B1176	03/10/46	0	0	B1199	03/24/46	2	0
B1176	06/02/46	3	0	B1199	05/12/46	1	1
B1176	06/23/46	0	1	B1200	07/14/46	0	3
B1177	07/21/46	2	2	B1201	07/01/45	0	3
B1178	07/01/45	3	11	B1202	08/26/45	0	0
B1179	09/02/45	8	0	B1202	11/25/45	2	3
B1179	11/04/45	0	0	B1203	02/17/46	5	2
B1180	02/10/46	5	0	B1203	03/17/46	0	3
B1180	05/26/46	0	0	B1203	04/14/46	6	1
B1181	07/28/46	0	0	B1204	08/19/45	27	3
B1182	08/05/45	12	4	B1205	09/30/45	18	0
B1182	09/30/45	0	2	B1205	02/03/46	0	0
B1182	11/25/45	3	4	B1206	04/14/46	1	0
B1183	01/27/46	0	0	B1206	06/16/46	8	0
B1183	03/24/46	0	3	B1207	07/29/45	6	2
B1183	05/19/46	0	0	B1208	07/15/45	7	3
B1184	07/14/46	0	0	B1208	09/30/45	0	2
B1184	08/31/46	0	0	B1208	12/02/45	4	4
B1185	07/01/45	0	0	B1209	02/03/46	7	0
B1186	09/02/45	6	0	B1209	04/07/46	7	0
B1186	11/04/45	3	7	B1209	06/09/46	0	0
B1187	02/03/46	7	1	B1210	08/04/46	0	0
B1188	07/15/45	17	5	B1211	08/19/45	0	0
B1189	07/15/45	0	14	B1211	10/14/45	5	13
B1189	10/07/45	0	26	B1211	12/16/45	0	0
B1189	12/02/45	0	0	B1212	02/10/46	5	0
B1190	01/27/46	1	0	B1212	04/14/46	0	3
B1190	03/24/46	2	4	B1212	06/30/46	3	0
B1190	05/19/46	0	0	B1213	08/25/46	5	1
B1191	04/21/46	0	0	B1214	07/01/45	0	0
B1191	05/12/46	0	0	B1215	07/22/45	3	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
B1216	07/15/45	0	0	C10	07/08/45	0	4
B1216	08/26/45	1	7	C10	07/29/45	0	0
B1216	11/18/45	5	0	C10	09/16/45	2	0
B1217	01/13/46	21	16	C11	11/11/45	0	0
B1217	03/10/46	0	0	C11	01/13/46	0	0
B1217	05/05/46	0	0	C11	03/10/46	9	9
B1218	08/25/46	0	0	C11	05/05/46	2	0
B1219	12/09/45	3	3	C12	06/30/46	4	0
B1220	07/21/46	0	0	C12	08/18/46	4	1
B1221	07/15/45	10	10	C13	05/05/46	1	0
B1222	08/26/45	5	8	C13	06/23/46	0	0
B1222	09/23/45	15	47	C14	02/17/46	0	0
B1222	01/06/46	20	8	C15	08/26/45	0	0
B1223	03/31/46	0	0	C15	10/28/45	0	0
B1224	08/18/46	10	5	C16	12/23/45	0	0
B1225	07/01/45	0	0	C17	07/22/45	0	0
B1226	08/26/45	0	0	C17	09/09/45	0	0
B1226	09/30/45	23	0	C18	11/11/45	9	0
B1226	12/09/45	0	0	C18	01/06/46	2	5
B1227	03/03/46	0	2	C18	03/03/46	0	0
B1227	04/28/46	0	0	C18	03/24/46	4	3
B1227	06/23/46	0	2	C18	04/28/46	0	1
B1228	07/01/45	0	0	C19	07/15/45	0	4
B1229	07/07/46	8	2	C19	09/16/45	0	7
C1	01/06/46	13	7	C20	11/11/45	0	0
C1	03/03/46	0	7	C21	10/28/45	0	0
C1	04/28/46	0	4	C21	12/30/45	0	0
C1	06/22/46	7	0	C22	02/24/46	8	0
C2	07/15/45	3	23	C22	03/17/46	4	0
C2	08/05/45	0	6	C22	04/21/46	1	0
C3	07/22/45	21	0	C22	05/12/46	0	0
C4	07/22/45	0	0	C22	06/16/46	6	0
C4	11/18/45	0	0	C23	08/11/46	2	1
C5	01/13/46	0	0	C24	03/10/46	0	0
C5	03/24/46	9	5	C25	07/15/45	18	0
C6	07/01/45	17	9	C26	07/08/45	0	2
C6	09/09/45	0	0	C26	08/05/45	0	9
C7	07/01/45	13	5	C26	10/28/45	16	16
C7	09/09/45	4	0	C27	12/23/45	0	0
C8	12/09/45	11	15	C27	03/17/46	0	0
C8	02/03/46	8	9	C27	04/14/46	4	0
C8	03/31/46	0	6	C28	06/09/46	6	0
C9	05/26/46	2	4	C29	04/14/46	3	4
C9	06/23/46	0	0	C30	10/14/45	0	0
C9	08/18/46	5	6	C30	12/16/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C31	02/24/46	9	9	C57	10/21/45	5	13
C32	07/22/45	0	0	C57	12/16/45	0	24
C33	07/08/45	0	0	C58	05/05/46	0	0
C34	08/26/45	6	6	C59	06/30/46	0	0
C34	10/21/45	0	0	C59	08/31/46	3	5
C34	11/18/45	0	0	C60	07/15/45	0	8
C35	08/05/45	0	0	C61	09/23/45	0	27
C36	09/16/45	0	3	C61	11/18/45	17	0
C36	11/18/45	0	2	C61	01/13/46	2	10
C36	01/06/46	20	31	C61	03/10/46	0	0
C37	03/10/46	6	5	C62	07/08/45	73	45
C37	06/16/46	0	0	C62	07/08/45	45	61
C37	08/11/46	0	0	C62	07/15/45	10	7
C38	08/05/45	0	0	C63	07/15/45	0	0
C39	09/30/45	3	0	C63	09/09/45	9	17
C39	12/09/45	11	0	C64	11/04/45	7	0
C39	02/24/46	0	4	C64	12/30/45	0	0
C40	07/21/46	7	1	C64	03/10/46	0	0
C41	07/15/45	19	0	C65	05/05/46	0	0
C42	09/30/45	0	3	C65	06/30/46	0	0
C42	11/25/45	3	3	C65	08/25/46	1	7
C42	01/20/46	9	7	C66	08/12/45	0	0
C43	02/17/46	3	0	C67	10/14/45	3	23
C43	05/19/46	1	0	C67	12/16/45	0	0
C43	07/14/46	0	0	C67	02/17/46	0	0
C44	08/31/46	0	0	C68	05/12/46	2	0
C45	09/23/45	0	6	C68	07/07/46	0	3
C45	12/16/45	20	0	C69	07/08/45	0	0
C46	03/17/46	8	3	C70	07/01/45	0	12
C47	10/21/45	6	14	C71	08/26/45	0	3
C47	11/11/45	14	0	C72	10/14/45	1	13
C47	02/03/46	3	0	C73	02/10/46	0	0
C48	04/07/46	0	0	C74	08/12/45	0	13
C49	05/27/45	0	5	C75	07/08/45	0	0
C50	06/23/46	0	2	C76	02/10/46	0	0
C51	07/21/46	2	0	C77	03/03/46	6	0
C52	08/26/45	0	6	C77	06/09/46	0	0
C53	07/15/45	16	20	C77	07/28/46	0	3
C53	08/12/45	0	0	C78	12/23/45	7	3
C54	10/14/45	0	0	C78	02/24/46	0	3
C54	12/30/45	4	2	C79	04/21/46	8	0
C55	03/03/46	0	0	C79	06/23/46	0	2
C55	03/24/46	3	7	C79	07/14/46	1	0
C56	07/01/45	0	16	C80	07/29/45	0	11
C56	08/26/45	0	0	C81	11/04/45	11	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C82	07/22/45	1	0	C100	01/27/46	4	0
C83	08/12/45	1	0	C100	03/24/46	1	8
C83	11/11/45	20	4	C101	05/19/46	0	0
C83	01/06/46	2	0	C101	08/11/46	4	0
C84	09/16/45	0	0	C102	09/23/45	0	2
C84	11/11/45	0	0	C102	11/25/45	0	4
C84	01/06/46	2	0	C103	10/21/45	0	0
C85	03/03/46	0	2	C104	04/28/46	3	4
C85	03/24/46	0	0	C104	07/28/46	2	6
C85	04/28/46	0	0	C105	12/02/45	5	13
C85	06/23/46	0	0	C105	01/27/46	12	0
C85	08/11/46	2	0	C106	03/24/46	1	0
C86	07/15/45	7	0	C106	05/19/46	0	0
C87	07/01/45	0	0	C106	07/14/46	2	4
C87	08/19/45	1	11	C107	07/01/45	23	3
C88	11/04/45	3	0	C107	07/29/45	6	2
C88	12/30/45	0	0	C107	08/19/45	12	10
C88	02/24/46	0	0	C107	09/02/45	0	2
C89	06/30/46	12	4	C107	09/09/45	18	10
C90	08/12/45	0	0	C107	10/07/45	11	11
C90	10/14/45	7	11	C108	01/06/46	0	0
C90	12/16/45	0	0	C108	03/03/46	1	6
C91	08/05/45	0	0	C108	05/12/46	0	0
C92	10/07/45	7	11	C108	05/26/46	0	0
C92	11/04/45	11	0	C109	06/02/46	4	0
C92	12/02/45	6	2	C109	07/28/46	1	0
C92	12/30/45	6	0	C110	10/14/45	25	0
C92	01/20/46	14	0	C110	12/23/45	0	0
C92	02/24/46	0	5	C111	02/17/46	0	7
C92	03/17/46	2	4	C111	04/14/46	2	2
C93	09/16/45	24	0	C112	08/04/46	3	0
C94	11/18/45	15	0	C113	12/23/45	0	0
C94	01/06/46	24	0	C113	02/17/46	3	0
C94	03/03/46	4	2	C113	03/17/46	14	0
C95	04/28/46	3	0	C114	05/12/46	5	0
C95	06/23/46	0	0	C115	12/09/45	7	4
C96	10/21/45	0	13	C115	02/03/46	4	3
C96	12/16/45	4	0	C116	04/21/46	2	3
C96	03/03/46	1	10	C116	05/19/46	0	0
C97	10/21/45	13	5	C117	03/03/46	0	0
C98	05/05/46	1	0	C118	04/28/46	0	0
C98	07/07/46	0	0	C118	06/23/46	5	7
C99	07/22/45	3	15	C118	08/18/46	0	0
C99	09/30/45	10	2	C119	01/06/46	10	20
C100	12/02/45	7	3	C120	11/25/45	8	2

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C121	12/16/45	0	0	C147	07/14/46	0	3
C121	02/10/46	0	0	C148	04/07/46	0	0
C122	12/16/45	12	0	C148	06/02/46	0	0
C122	02/10/46	2	0	C149	03/03/46	4	8
C122	03/10/46	2	0	C150	03/03/46	0	7
C122	04/07/46	0	0	C151	02/10/46	5	2
C123	06/02/46	2	0	C151	02/24/46	1	0
C124	04/14/46	6	2	C151	03/10/46	5	1
C125	06/09/46	5	0	C152	08/04/46	0	0
C125	08/04/46	3	1	C153	08/19/45	0	16
C126	01/06/46	15	0	C153	09/30/45	0	0
C127	12/30/45	0	0	C153	12/02/45	3	5
C127	02/24/46	9	14	C154	01/27/46	3	4
C127	04/21/46	4	4	C154	03/24/46	1	5
C128	06/16/46	2	0	C155	07/15/45	0	0
C129	06/09/46	0	0	C156	07/08/45	0	6
C130	12/09/45	4	7	C156	11/11/45	12	0
C130	01/06/46	0	20	C156	12/02/45	1	5
C130	03/24/46	0	1	C157	01/27/46	2	11
C130	04/28/46	0	0	C157	05/12/46	8	2
C131	03/03/46	1	0	C158	07/15/45	6	0
C132	12/30/45	0	2	C159	07/29/45	2	10
C132	01/20/46	0	0	C160	09/30/45	1	0
C132	03/03/46	0	0	C160	12/09/45	4	8
C132	03/24/46	4	4	C160	02/17/46	0	1
C133	02/24/46	5	11	C161	04/14/46	0	0
C133	04/21/46	0	0	C162	07/15/45	12	8
C134	06/16/46	0	2	C163	09/02/45	14	4
C135	02/17/46	0	5	C163	09/30/45	0	0
C135	04/21/46	3	0	C163	11/25/45	4	0
C136	06/23/46	0	0	C163	12/23/45	1	0
C137	02/17/46	0	8	C164	07/01/45	7	15
C137	04/21/46	0	0	C164	07/08/45	10	6
C138	02/17/46	0	0	C164	07/15/45	0	0
C139	03/03/46	1	0	C164	08/26/45	0	3
C139	04/28/46	0	0	C165	09/23/45	7	3
C140	06/23/46	0	0	C165	10/21/45	0	8
C141	02/10/46	3	6	C165	12/16/45	6	0
C141	04/07/46	4	0	C165	01/13/46	4	4
C141	06/02/46	0	0	C165	02/10/46	2	5
C142	08/25/46	3	1	C166	03/10/46	0	6
C143	07/22/45	2	0	C166	03/31/46	5	0
C144	07/14/46	0	0	C166	05/05/46	1	1
C145	06/10/45	4	3	C166	06/02/46	3	1
C146	06/09/46	0	0	C166	06/16/46	0	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C166	07/21/46	2	0	C181	01/20/46	0	0
C166	08/25/46	1	0	C181	02/17/46	2	0
C167	07/15/45	0	0	C182	03/17/46	4	8
C168	09/02/45	0	0	C183	07/01/45	9	9
C169	06/24/45	3	0	C183	07/29/45	0	0
C170	08/26/45	18	10	C184	07/01/45	0	0
C170	09/16/45	5	6	C185	07/01/45	0	0
C171	07/01/45	7	0	C185	07/29/45	6	0
C171	07/22/45	21	0	C186	07/01/45	0	0
C172	06/24/45	0	5	C186	07/22/45	16	0
C172	07/22/45	0	0	C187	10/14/45	47	19
C172	08/19/45	0	4	C187	11/11/45	0	16
C173	07/15/45	34	10	C187	12/09/45	0	0
C173	11/18/45	0	0	C187	01/06/46	20	12
C173	12/16/45	8	12	C187	01/27/46	0	0
C174	12/23/45	11	3	C188	03/24/46	0	0
C174	02/17/46	0	0	C188	05/26/46	0	0
C174	04/14/46	4	2	C188	06/23/46	13	8
C174	05/12/46	3	0	C188	07/21/46	8	4
C175	07/07/46	0	0	C189	08/18/46	0	0
C175	07/28/46	1	0	C190	06/24/45	19	19
C175	08/31/46	4	1	C191	07/15/45	0	0
C176	10/14/45	12	0	C192	10/21/45	0	2
C176	10/28/45	24	0	C192	11/18/45	13	0
C176	11/18/45	13	9	C192	12/23/45	3	7
C176	12/30/45	0	0	C192	01/20/46	0	3
C176	01/27/46	0	0	C192	02/17/46	0	0
C176	02/24/46	9	5	C193	04/14/46	4	0
C177	03/24/46	0	0	C193	07/28/46	0	0
C177	04/21/46	0	0	C194	06/16/46	0	0
C177	05/19/46	0	0	C195	07/08/45	14	10
C177	06/16/46	0	2	C195	07/29/45	14	0
C177	07/21/46	0	0	C196	08/26/45	22	0
C177	08/11/46	2	0	C197	07/22/45	0	0
C178	05/05/46	0	0	C197	08/12/45	0	0
C178	06/02/46	0	0	C197	09/02/45	6	0
C178	06/30/46	2	0	C197	10/07/45	0	0
C178	07/21/46	0	0	C197	10/28/45	0	0
C178	07/28/46	0	0	C198	12/02/45	12	0
C178	08/25/46	0	0	C198	12/30/45	0	3
C179	09/16/45	7	0	C198	01/27/46	11	3
C180	07/15/45	6	0	C198	02/24/46	3	2
C180	08/05/45	0	0	C198	03/17/46	0	1
C181	10/21/45	22	0	C198	04/21/46	0	0
C181	11/25/45	0	0	C198	05/19/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C199	06/16/46	0	0	C212	03/03/46	0	0
C199	08/04/46	0	6	C212	03/31/46	10	7
C200	07/15/45	6	2	C212	04/07/46	1	0
C200	10/21/45	10	10	C212	04/14/46	5	1
C200	11/18/45	0	0	C212	05/26/46	2	2
C201	01/20/46	3	5	C213	06/23/46	0	1
C201	02/17/46	10	1	C213	07/21/46	0	0
C201	04/14/46	2	8	C213	08/18/46	4	0
C201	05/12/46	3	4	C214	07/01/45	0	0
C202	07/22/45	9	0	C214	08/05/45	15	7
C203	07/15/45	0	0	C214	10/07/45	10	0
C204	10/21/45	0	14	C215	12/16/45	0	0
C204	11/18/45	0	0	C215	12/30/45	2	0
C204	12/23/45	8	20	C215	03/10/46	3	9
C204	12/23/45	11	0	C215	03/17/46	2	0
C204	01/20/46	0	0	C215	03/31/46	0	4
C204	02/17/46	10	11	C215	04/07/46	1	0
C205	03/10/46	2	6	C215	05/05/46	0	2
C205	04/14/46	0	5	C216	06/23/46	1	0
C206	07/15/45	11	3	C216	07/28/46	0	0
C207	09/02/45	2	12	C216	08/18/46	0	0
C208	07/22/45	0	0	C217	07/08/45	20	0
C208	08/12/45	0	0	C217	08/05/45	0	4
C208	09/02/45	21	0	C217	09/23/45	7	0
C208	09/23/45	15	11	C217	10/14/45	0	16
C208	10/14/45	7	15	C217	11/11/45	0	0
C208	10/21/45	0	8	C218	12/09/45	21	0
C208	11/11/45	0	7	C218	01/13/46	0	3
C209	12/23/45	9	7	C218	03/03/46	0	5
C209	01/20/46	12	11	C218	04/07/46	3	0
C209	02/17/46	3	4	C218	05/05/46	0	0
C209	03/17/46	4	0	C218	05/26/46	4	0
C209	04/07/46	8	2	C219	06/02/46	0	0
C209	05/12/46	0	8	C219	06/23/46	0	0
C210	06/16/46	2	0	C219	07/28/46	0	0
C210	07/14/46	0	4	C219	08/25/46	0	0
C210	08/31/46	0	0	C220	07/08/45	0	0
C211	07/15/45	4	0	C220	08/05/45	0	0
C211	09/23/45	0	0	C220	08/26/45	23	3
C211	10/07/45	7	10	C220	09/23/45	11	11
C211	11/18/45	13	0	C220	10/14/45	0	4
C212	12/09/45	1	4	C220	11/18/45	0	0
C212	12/16/45	0	0	C221	12/16/45	8	4
C212	01/06/46	12	8	C221	01/13/46	0	0
C212	02/03/46	1	0	C221	02/10/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C221	03/03/46	2	4	C234	09/23/45	3	7
C221	04/07/46	0	4	C234	10/21/45	0	0
C221	05/05/46	0	0	C234	11/18/45	0	0
C221	05/26/46	0	0	C235	12/09/45	1	5
C222	07/28/46	0	0	C235	01/13/46	0	6
C222	08/11/46	0	0	C235	03/10/46	0	2
C223	07/15/45	4	20	C235	04/07/46	7	0
C223	09/09/45	3	0	C236	07/15/45	19	27
C224	11/04/45	0	0	C236	08/12/45	0	17
C224	02/03/46	5	3	C236	09/02/45	0	13
C224	03/03/46	2	8	C236	09/30/45	17	1
C225	05/19/46	0	0	C236	10/28/45	6	0
C225	07/21/46	0	6	C236	11/25/45	6	1
C226	07/15/45	4	0	C237	01/20/46	8	4
C227	10/28/45	0	1	C237	02/17/46	0	0
C227	12/02/45	0	0	C237	03/17/46	0	0
C227	12/02/45	0	0	C237	04/07/46	12	10
C227	12/23/45	0	0	C238	06/24/45	3	0
C227	01/20/46	0	0	C239	07/01/45	0	1
C227	02/17/46	0	0	C240	11/11/45	11	0
C228	03/24/46	0	0	C240	11/11/45	7	0
C228	04/21/46	0	0	C240	12/09/45	0	0
C228	05/19/46	1	0	C240	01/06/46	0	1
C228	06/16/46	6	1	C240	02/03/46	0	0
C229	07/01/45	0	3	C240	03/03/46	12	0
C229	07/22/45	0	0	C240	03/24/46	0	1
C229	08/12/45	1	0	C240	04/28/46	0	0
C229	09/09/45	3	17	C241	05/26/46	0	0
C229	10/07/45	7	15	C241	08/18/46	3	3
C229	11/04/45	3	7	C242	07/01/45	0	19
C230	12/02/45	0	0	C242	08/12/45	7	1
C230	12/30/45	5	0	C243	09/02/45	0	0
C230	01/27/46	0	0	C244	11/11/45	19	35
C230	02/24/46	0	0	C244	12/09/45	0	0
C230	03/17/46	1	7	C245	12/30/45	2	0
C230	04/14/46	1	0	C245	02/03/46	0	0
C230	05/19/46	0	0	C245	03/03/46	0	0
C231	06/09/46	0	0	C245	03/31/46	1	0
C231	08/11/46	0	0	C245	04/28/46	1	0
C232	07/01/45	0	0	C246	07/15/45	3	7
C232	07/29/45	16	8	C246	08/05/45	0	0
C233	07/08/45	0	0	C246	08/26/45	0	7
C234	07/08/45	0	8	C246	10/21/45	6	0
C234	08/05/45	0	4	C246	11/18/45	10	18
C234	08/26/45	13	17	C247	01/13/46	31	14

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C247	02/10/46	4	8	C259	11/25/45	0	0
C247	03/10/46	5	6	C260	08/26/45	0	0
C248	07/07/46	0	0	C261	02/10/46	3	7
C248	07/28/46	0	0	C261	04/07/46	0	0
C249	07/15/45	19	31	C262	06/23/46	0	0
C249	08/05/45	0	0	C262	08/25/46	0	0
C249	10/07/45	7	0	C263	04/15/45	0	0
C249	10/28/45	0	0	C263	07/01/45	0	0
C249	12/02/45	3	0	C263	09/02/45	7	3
C249	08/26/46	0	0	C264	07/08/45	19	0
C250	07/01/45	0	0	C264	08/26/45	9	0
C250	11/11/45	8	0	C264	10/21/45	22	26
C251	12/09/45	0	0	C265	12/16/45	0	0
C251	01/06/46	27	43	C265	02/10/46	0	0
C251	01/27/46	5	4	C265	04/07/46	0	2
C251	03/03/46	9	11	C266	09/09/45	0	0
C251	03/24/46	1	0	C267	08/19/45	4	0
C251	04/28/46	6	4	C267	12/09/45	4	6
C251	05/26/46	1	0	C268	03/03/46	0	0
C252	06/23/46	1	0	C269	04/21/46	0	0
C252	07/21/46	0	0	C269	04/21/46	9	0
C252	08/18/46	2	8	C269	06/16/46	0	1
C253	07/01/45	0	0	C270	07/01/45	9	13
C253	08/05/45	0	0	C271	08/11/46	0	0
C253	08/12/45	1	1	C272	07/08/45	26	12
C254	07/15/45	3	0	C272	07/29/45	4	0
C254	09/02/45	0	0	C273	08/26/45	0	11
C255	11/25/45	0	0	C273	11/18/45	10	10
C256	07/01/45	0	0	C274	06/24/45	7	0
C256	07/22/45	0	0	C275	08/19/45	5	1
C256	08/19/45	2	0	C275	09/09/45	9	5
C256	09/09/45	0	0	C275	10/07/45	0	0
C256	10/07/45	0	0	C275	11/18/45	30	2
C256	11/11/45	1	0	C275	01/13/46	1	7
C257	12/02/45	6	7	C276	03/10/46	0	0
C257	01/06/46	0	3	C276	05/05/46	0	1
C257	02/03/46	0	0	C276	06/30/46	0	0
C257	03/03/46	2	0	C276	07/28/46	1	0
C257	03/31/46	0	1	C277	08/25/46	0	3
C257	04/21/46	4	3	C278	07/22/45	0	0
C257	04/28/46	2	0	C278	08/12/45	5	19
C257	05/26/46	0	0	C279	09/02/45	28	28
C258	06/16/46	2	0	C279	11/04/45	0	0
C258	08/11/46	5	2	C279	12/09/45	17	1
C259	09/30/45	0	14	C279	01/20/46	0	4

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C280	03/03/46	0	4	C305	03/31/46	0	0
C280	03/24/46	1	5	C305	05/26/46	1	0
C280	04/14/46	7	8	C306	08/18/46	8	5
C281	07/01/45	0	0	C307	07/01/45	0	3
C282	07/01/45	0	0	C308	08/19/45	10	0
C283	08/05/45	16	0	C309	07/22/45	0	0
C283	09/23/45	18	6	C310	09/23/45	0	11
C283	11/18/45	9	5	C310	11/18/45	0	10
C284	06/24/45	47	71	C310	02/10/46	1	5
C284	07/01/45	0	0	C311	04/28/46	2	0
C285	08/26/45	17	9	C312	08/12/45	0	0
C285	10/21/45	0	24	C313	07/15/45	0	0
C285	12/16/45	0	0	C313	09/02/45	7	5
C286	02/10/46	0	5	C313	09/23/45	0	0
C286	03/31/46	0	0	C314	11/25/45	4	4
C287	07/21/46	0	0	C314	02/17/46	0	0
C288	08/19/45	0	10	C314	05/12/46	0	3
C289	12/09/45	4	5	C315	07/07/46	0	0
C289	01/27/46	0	0	C316	07/01/45	0	0
C289	03/24/46	0	0	C317	10/14/45	3	23
C289	05/26/46	2	0	C317	11/11/45	8	16
C290	08/04/46	0	2	C317	12/09/45	3	15
C291	07/15/45	0	0	C317	01/07/46	0	12
C291	09/02/45	19	3	C317	02/03/46	2	2
C291	10/28/45	0	11	C317	03/03/46	0	0
C292	12/16/45	0	0	C318	03/31/46	0	0
C292	04/14/46	1	0	C318	04/28/46	9	10
C293	06/09/46	2	0	C318	05/26/46	0	0
C294	08/19/45	6	2	C318	06/23/46	8	6
C295	03/31/46	2	0	C318	07/21/46	0	0
C296	08/05/45	0	4	C318	08/18/46	7	0
C297	09/30/45	0	0	C319	07/21/46	0	0
C298	07/01/45	0	0	C320	07/15/45	16	0
C298	08/19/45	0	12	C321	09/02/45	26	2
C298	11/11/45	0	0	C322	12/09/45	4	2
C299	01/13/46	8	0	C322	02/03/46	3	0
C299	03/10/46	6	0	C323	03/31/46	0	0
C299	05/19/46	0	0	C323	07/07/46	2	6
C300	07/21/46	0	0	C323	08/25/46	0	1
C301	06/24/45	15	0	C324	02/17/46	3	6
C302	09/02/45	10	22	C325	04/14/46	0	4
C302	11/04/45	0	15	C325	06/09/46	0	0
C303	03/24/46	0	0	C325	08/15/46	2	0
C303	06/02/46	4	2	C326	11/18/45	2	0
C304	02/03/46	2	2	C326	02/03/46	0	2

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C326	03/17/46	0	0	C347	03/17/46	2	4
C327	07/22/45	0	0	C347	07/07/46	0	0
C327	08/19/45	0	0	C348	08/26/45	5	5
C328	12/09/45	11	0	C348	10/21/45	6	0
C328	03/03/46	1	0	C349	12/23/45	12	4
C329	04/28/46	0	0	C349	02/24/46	0	3
C330	09/16/45	3	0	C350	06/09/46	0	0
C330	11/18/45	4	0	C351	08/12/45	0	4
C331	01/13/46	0	0	C351	10/14/45	3	35
C331	03/10/46	9	0	C352	07/15/45	0	1
C331	05/05/46	0	2	C353	07/01/45	0	2
C332	06/30/46	0	0	C354	08/26/45	22	0
C333	07/15/45	8	0	C354	09/16/45	11	0
C333	10/28/45	0	0	C355	11/25/45	3	6
C334	12/16/45	16	4	C355	03/17/46	11	7
C334	02/10/46	3	0	C356	05/05/46	0	1
C334	03/17/46	11	10	C356	06/23/46	2	2
C334	04/14/46	0	2	C356	08/25/46	0	0
C334	05/05/46	0	0	C357	10/14/45	0	0
C335	07/15/45	28	16	C357	01/13/46	2	0
C336	09/30/45	2	10	C358	07/22/45	9	0
C336	12/02/45	5	3	C358	09/09/45	0	0
C336	02/03/46	9	0	C359	05/05/46	8	0
C337	04/07/46	0	1	C359	06/30/46	0	0
C337	06/09/46	0	1	C360	07/01/45	0	0
C337	06/30/46	0	6	C360	10/07/45	0	12
C337	08/11/46	2	0	C361	02/10/46	4	4
C338	08/26/45	0	9	C361	05/05/46	0	2
C338	12/16/45	0	3	C362	07/21/46	3	0
C339	07/29/45	0	0	C363	07/15/45	0	4
C339	09/23/45	23	0	C364	10/01/44	0	0
C340	12/16/45	5	7	C364	12/10/44	13	0
C340	03/17/46	2	2	C364	02/18/45	0	5
C340	05/26/46	8	0	C365	07/07/46	0	0
C341	07/28/46	7	4	C365	07/28/46	1	0
C341	08/25/46	0	6	C365	08/31/46	0	0
C342	08/18/46	0	5	C366	11/11/45	5	0
C343	08/05/45	0	0	C367	01/13/46	10	2
C343	09/30/45	10	1	C367	05/19/46	0	0
C344	07/08/45	0	0	C368	08/31/46	0	1
C344	09/02/45	0	0	C369	09/16/45	3	1
C345	07/01/45	3	3	C369	11/11/45	5	0
C345	09/02/45	3	3	C370	01/06/46	2	0
C346	10/14/45	4	0	C370	03/31/46	0	0
C346	01/13/46	2	7	C371	06/02/46	0	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C371	07/28/46	0	0	C385	02/10/46	1	0
C372	01/13/46	0	9	C386	03/10/46	7	0
C373	06/30/46	0	0	C386	05/05/46	0	0
C374	07/22/45	3	0	C386	05/26/46	2	0
C375	09/02/45	9	1	C386	06/23/46	0	0
C375	09/30/45	2	17	C386	07/28/46	0	0
C375	10/28/45	2	10	C387	05/12/46	2	0
C375	11/25/45	4	12	C387	06/09/46	0	1
C375	12/23/45	0	0	C387	06/30/46	2	0
C375	01/13/46	6	0	C388	08/31/46	7	0
C376	02/10/46	0	0	C389	04/14/46	16	0
C376	03/17/46	13	0	C389	05/05/46	0	0
C376	04/07/46	0	12	C389	06/09/46	3	0
C376	05/12/46	0	0	C389	06/30/46	2	0
C376	06/02/46	0	1	C389	07/28/46	0	0
C376	07/07/46	8	0	C390	08/12/45	0	11
C377	08/04/46	0	1	C390	09/02/45	0	6
C377	08/31/46	0	5	C390	10/28/45	8	0
C378	07/01/45	0	0	C390	11/04/45	0	3
C378	08/26/45	42	32	C390	12/02/45	0	1
C378	09/16/45	19	24	C390	12/30/45	6	15
C378	10/14/45	0	0	C390	01/20/46	0	0
C378	11/11/45	6	14	C391	02/24/46	13	10
C378	12/09/45	3	4	C391	03/24/46	0	0
C379	01/06/46	3	3	C391	04/21/46	1	0
C379	02/03/46	3	2	C391	05/19/46	0	4
C379	03/03/46	0	1	C391	06/16/46	0	0
C379	03/31/46	0	1	C391	07/21/46	0	0
C380	05/27/45	10	0	C392	08/11/46	5	0
C381	10/14/45	23	23	C393	08/12/45	0	0
C381	11/11/45	0	0	C393	09/02/45	0	9
C382	12/09/45	4	4	C393	10/28/45	0	0
C382	01/06/46	8	8	C393	12/23/45	18	10
C382	02/03/46	0	7	C393	01/20/46	0	0
C382	03/03/46	0	0	C394	02/10/46	4	0
C382	03/31/46	1	0	C394	02/17/46	1	4
C383	07/21/46	0	0	C394	03/17/46	10	0
C383	08/18/46	1	0	C394	04/14/46	3	0
C384	07/08/45	18	2	C394	05/12/46	0	0
C384	07/29/45	4	0	C394	06/02/46	0	0
C384	08/26/45	6	18	C394	06/30/46	3	0
C385	09/23/45	0	7	C394	07/28/46	6	0
C385	10/14/45	16	0	C395	08/31/46	0	0
C385	11/18/45	1	0	C396	07/01/45	0	0
C385	01/13/46	0	10	C396	07/29/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C397	11/18/45	21	21	C409	04/07/46	7	5
C397	01/13/46	0	23	C409	04/21/46	6	9
C398	02/10/46	0	7	C409	05/19/46	0	0
C398	03/10/46	2	11	C409	06/16/46	3	0
C398	04/07/46	8	8	C409	07/07/46	0	0
C398	05/05/46	3	5	C409	08/11/46	0	2
C398	06/02/46	0	0	C410	08/05/45	0	0
C398	06/30/46	0	0	C411	11/18/45	6	0
C398	07/28/46	3	1	C412	03/10/46	0	0
C399	08/25/46	1	0	C412	03/31/46	0	0
C400	04/07/46	0	1	C412	05/05/46	3	0
C400	05/05/46	0	0	C412	05/26/46	0	0
C400	06/02/46	0	0	C412	07/28/46	7	0
C400	06/23/46	0	2	C413	08/25/46	0	0
C400	07/28/46	0	2	C414	06/09/46	0	0
C400	08/25/46	0	0	C414	06/23/46	0	0
C401	07/08/45	0	16	C414	08/25/46	0	0
C402	08/05/45	4	2	C415	11/18/45	17	9
C402	08/26/45	7	3	C415	01/13/46	7	27
C402	10/07/45	0	4	C415	01/27/46	0	3
C402	11/11/45	0	1	C415	02/10/46	2	3
C402	12/02/45	4	4	C415	02/24/46	6	0
C402	01/06/46	9	1	C415	04/07/46	0	0
C403	02/03/46	1	6	C415	05/05/46	2	0
C403	03/03/46	0	4	C416	10/28/45	23	23
C403	03/31/46	6	0	C417	08/12/45	0	11
C403	04/28/46	0	0	C417	09/02/45	0	6
C403	06/23/46	0	0	C417	10/28/45	8	0
C403	07/21/46	2	1	C417	11/04/45	0	3
C404	07/08/45	25	19	C417	12/02/45	0	1
C404	09/02/45	6	0	C417	12/30/45	6	15
C404	11/25/45	7	8	C417	01/20/46	0	0
C405	01/20/46	0	0	C418	02/24/46	13	10
C405	03/17/46	2	9	C418	03/24/46	0	0
C405	05/12/46	0	0	C418	04/21/46	1	0
C406	08/04/46	0	0	C418	05/19/46	0	4
C406	08/31/46	3	0	C418	06/16/46	0	0
C407	07/01/45	16	16	C418	07/21/46	0	0
C407	07/29/45	2	0	C419	08/11/46	5	0
C408	09/23/45	11	0	C420	06/24/45	0	0
C408	10/07/45	0	0	C420	07/22/45	0	1
C408	11/11/45	17	0	C420	08/19/45	0	0
C408	12/16/45	0	12	C421	09/09/45	6	6
C408	01/13/46	0	0	C421	10/07/45	1	1
C408	02/24/46	3	0	C421	10/28/45	4	8

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C421	12/02/45	1	5	C431	06/17/46	0	0
C421	12/30/45	8	8	C431	06/18/46	0	6
C421	01/20/46	13	0	C431	07/21/46	5	1
C421	02/17/46	2	0	C431	08/18/46	0	0
C422	03/17/46	0	0	C432	07/08/45	0	0
C422	04/21/46	0	0	C432	08/12/45	7	16
C422	05/05/46	0	0	C432	09/02/45	0	5
C422	05/12/46	0	3	C432	09/23/45	0	0
C422	06/09/46	1	0	C432	10/07/45	0	0
C422	07/07/46	4	0	C432	10/14/45	0	0
C422	08/04/46	0	1	C432	11/11/45	0	0
C423	10/14/45	16	0	C432	12/02/45	4	4
C423	11/18/45	5	1	C432	12/16/45	21	13
C424	03/03/46	0	0	C433	05/05/46	0	1
C424	04/07/46	5	8	C433	06/30/46	4	0
C424	05/05/46	0	0	C433	07/21/46	0	0
C424	05/26/46	0	6	C433	07/28/46	3	0
C424	06/23/46	0	3	C433	08/25/46	2	0
C424	07/21/46	0	0	C434	08/12/45	0	4
C425	08/18/46	0	0	C434	09/02/45	13	1
C426	07/01/45	6	0	C435	10/07/45	24	24
C426	07/29/45	0	0	C435	11/04/45	0	0
C426	08/26/45	0	18	C435	11/25/45	12	0
C426	09/16/45	0	16	C435	12/23/45	0	0
C426	10/14/45	20	0	C435	01/27/46	13	0
C426	11/11/45	0	0	C435	02/24/46	4	3
C427	12/02/45	4	6	C435	03/17/46	0	0
C427	01/06/46	0	0	C436	04/21/46	0	0
C427	02/03/46	0	0	C436	05/19/46	4	0
C427	03/03/46	0	2	C436	06/09/46	0	0
C427	03/31/46	11	8	C436	07/07/46	0	0
C427	04/21/46	7	9	C436	08/04/46	0	3
C427	04/28/46	0	1	C437	07/01/45	0	0
C427	05/26/46	0	0	C437	07/29/45	0	0
C428	06/23/46	0	0	C438	10/14/45	39	35
C428	07/21/46	5	3	C438	11/11/45	8	8
C428	08/18/46	2	0	C438	12/09/45	0	0
C429	07/01/45	0	3	C438	12/30/45	2	5
C429	11/11/45	0	1	C438	01/27/46	6	1
C430	12/02/45	3	3	C438	03/03/46	9	9
C430	01/06/46	6	0	C439	03/24/46	6	1
C430	02/24/46	4	2	C439	04/28/46	0	1
C430	03/31/46	2	10	C439	05/26/46	0	0
C430	04/28/46	7	7	C439	06/09/46	5	1
C430	05/26/46	3	3	C439	07/21/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C439	08/18/46	0	0	C451	09/09/45	23	7
C440	04/21/46	3	3	C451	12/09/45	0	0
C440	05/12/46	0	0	C452	03/03/46	0	0
C440	06/16/46	0	0	C452	04/28/46	0	0
C440	07/07/46	3	0	C452	05/26/46	3	0
C440	07/14/46	0	0	C453	07/21/46	0	0
C440	08/04/46	1	0	C454	07/15/45	0	0
C441	07/22/45	8	13	C455	09/02/45	3	0
C442	08/12/45	0	0	C455	09/30/45	5	17
C442	09/02/45	0	5	C455	10/28/45	0	0
C442	10/07/45	19	7	C455	11/25/45	0	4
C442	10/28/45	0	0	C455	12/02/45	12	0
C442	12/02/45	4	1	C455	01/13/46	8	0
C442	12/30/45	6	14	C455	01/20/46	3	0
C442	01/20/46	0	5	C456	03/10/46	0	1
C443	02/24/46	0	2	C456	03/17/46	0	0
C443	03/17/46	5	1	C456	04/07/46	2	0
C443	04/21/46	20	22	C456	05/05/46	0	1
C443	04/21/46	8	13	C456	06/09/46	8	0
C443	05/19/46	0	0	C456	07/07/46	0	0
C443	06/09/46	0	0	C456	08/04/46	0	0
C443	07/07/46	0	0	C457	08/31/46	0	0
C443	07/14/46	0	0	C458	11/18/45	1	0
C444	08/11/46	0	1	C458	12/23/45	0	7
C445	11/18/45	0	0	C458	01/20/46	0	0
C445	12/16/45	4	0	C458	02/17/46	14	0
C446	02/17/46	0	1	C459	04/14/46	0	0
C446	03/17/46	0	6	C459	05/12/46	2	0
C446	04/07/46	5	0	C459	06/09/46	4	0
C446	05/05/46	1	3	C459	06/30/46	9	0
C446	05/12/46	0	0	C459	08/04/46	0	0
C446	06/09/46	6	2	C459	08/31/46	3	1
C446	08/04/46	0	0	C460	07/01/45	0	0
C447	08/25/46	4	1	C460	08/05/45	0	0
C448	08/05/45	4	20	C461	10/21/45	7	3
C448	08/26/45	1	0	C461	11/18/45	8	0
C449	11/04/45	11	15	C461	01/13/46	33	12
C449	12/09/45	0	8	C461	02/10/46	14	9
C449	01/06/46	26	10	C461	02/24/46	1	0
C449	01/27/46	0	0	C462	04/07/46	0	3
C450	03/03/46	7	12	C462	04/28/46	11	0
C450	08/04/46	4	20	C462	05/26/46	5	0
C450	08/25/46	1	0	C462	07/14/46	0	0
C451	07/22/45	0	0	C463	07/08/45	0	0
C451	08/19/45	0	16	C463	10/21/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C464	01/13/46	19	41	C477	03/17/46	9	8
C464	04/07/46	0	0	C477	04/21/46	3	3
C464	04/21/46	0	0	C477	05/19/46	2	2
C464	05/05/46	8	0	C478	06/16/46	0	0
C464	05/26/46	0	0	C478	07/14/46	0	1
C465	06/30/46	0	0	C478	08/11/46	2	0
C465	07/28/46	0	0	C479	07/15/45	16	0
C465	08/25/46	0	0	C480	08/26/45	0	8
C466	07/22/45	16	8	C480	09/30/45	0	0
C467	09/02/45	0	0	C480	10/28/45	0	0
C467	09/09/45	0	0	C480	11/25/45	21	31
C467	10/14/45	0	0	C480	01/20/46	0	0
C467	11/11/45	12	0	C481	02/10/46	5	0
C467	12/09/45	0	0	C481	03/17/46	0	7
C467	01/06/46	20	4	C481	04/07/46	0	2
C468	03/03/46	4	5	C481	05/12/46	0	0
C468	03/24/46	6	1	C481	06/09/46	0	0
C468	03/31/46	0	0	C481	06/30/46	0	0
C469	08/12/45	0	1	C481	07/28/46	0	2
C469	09/30/45	0	0	C482	08/31/46	0	0
C470	12/02/45	4	4	C483	11/11/45	24	8
C470	02/03/46	0	0	C483	01/06/46	12	8
C470	03/03/46	5	1	C483	01/27/46	0	0
C470	04/07/46	3	0	C484	02/27/46	0	0
C471	06/02/46	0	2	C484	03/02/46	8	0
C471	07/28/46	0	0	C484	03/24/46	0	2
C472	07/01/45	0	11	C484	05/26/46	1	1
C472	07/22/46	0	0	C484	07/21/46	0	1
C473	09/02/45	13	9	C485	08/18/46	5	11
C473	09/09/45	0	0	C486	08/19/45	7	3
C473	10/07/45	4	1	C487	07/15/45	0	6
C473	11/04/45	0	0	C488	11/04/45	18	6
C473	12/09/45	6	11	C488	12/02/45	12	0
C473	01/06/46	6	8	C488	01/06/46	0	0
C473	02/03/46	5	2	C488	01/06/46	0	2
C474	03/31/46	0	5	C488	01/20/46	0	0
C474	05/19/46	0	0	C488	02/24/46	10	5
C474	06/23/46	0	0	C489	03/24/46	0	0
C474	07/21/46	3	2	C489	05/19/46	7	0
C476	07/01/45	0	4	C489	06/16/46	0	2
C476	09/02/45	4	2	C489	07/14/46	0	0
C476	10/14/45	31	27	C489	08/04/46	0	0
C477	12/23/45	4	24	C490	07/08/45	32	12
C477	01/27/46	6	4	C490	08/05/45	0	4
C477	02/17/46	14	0	C490	08/26/45	0	23

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C491	09/23/45	0	3	C501	07/28/46	0	0
C491	10/21/45	0	0	C501	08/25/46	0	0
C491	11/18/45	0	0	C502	07/22/45	1	0
C491	12/16/45	0	0	C502	08/12/45	0	0
C491	01/13/46	0	0	C502	09/02/45	0	9
C492	03/03/46	0	2	C502	09/30/45	0	0
C492	04/07/46	3	0	C502	10/28/45	0	0
C492	05/05/46	0	0	C502	11/25/45	5	10
C492	06/02/46	0	2	C503	12/16/45	9	15
C492	06/23/46	0	3	C503	01/20/46	0	0
C493	07/08/45	0	14	C503	02/10/46	6	1
C493	07/29/45	20	0	C503	03/17/46	1	1
C494	08/26/45	10	2	C503	04/14/46	5	0
C494	09/23/45	3	0	C503	05/05/46	0	0
C494	10/21/45	0	0	C503	06/02/46	2	0
C494	11/18/45	0	0	C504	06/09/46	2	0
C494	12/09/45	13	0	C504	06/30/46	1	0
C494	02/10/46	0	0	C504	08/04/46	0	3
C495	03/10/46	1	4	C504	08/25/46	0	0
C495	04/07/46	0	6	C505	10/28/45	0	0
C496	07/08/45	0	0	C505	11/04/45	15	0
C496	08/05/45	27	3	C506	12/02/45	0	0
C496	08/26/45	0	6	C506	12/23/45	8	0
C496	09/23/45	14	6	C506	01/27/46	0	0
C496	10/21/45	0	6	C506	02/17/46	1	6
C496	11/11/45	0	0	C507	04/21/46	0	1
C496	12/09/45	0	1	C507	05/19/46	0	1
C497	02/03/46	5	8	C507	06/09/46	0	4
C497	04/07/46	1	0	C507	07/07/46	0	1
C497	05/05/46	0	0	C507	08/04/46	0	2
C497	06/02/46	2	4	C507	08/31/46	2	0
C497	06/23/46	3	0	C508	07/01/45	0	0
C498	08/25/45	1	7	C508	10/21/45	7	0
C499	10/28/45	0	0	C508	11/18/45	0	14
C499	12/16/45	10	0	C509	01/13/46	12	10
C499	02/17/46	0	0	C509	04/07/46	0	0
C500	03/17/46	0	0	C509	05/05/46	9	5
C500	04/07/46	5	4	C510	06/02/46	0	0
C500	06/09/46	0	0	C510	06/30/46	0	0
C500	07/07/46	7	0	C510	07/28/46	2	0
C500	08/31/46	0	0	C510	08/25/46	1	0
C501	05/05/46	0	0	C511	07/08/45	28	0
C501	06/02/46	0	6	C511	08/05/45	0	0
C501	06/30/46	0	0	C511	08/26/45	11	7
C501	07/21/46	0	0	C512	10/21/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C512	11/18/45	3	3	C524	07/14/46	0	0
C512	12/16/45	9	0	C525	08/05/45	8	8
C512	01/13/46	1	9	C527	07/15/45	8	0
C512	02/10/46	8	0	C527	09/02/45	14	10
C513	03/10/46	0	0	C527	10/28/45	0	0
C513	03/31/46	3	9	C528	12/09/45	0	0
C513	04/21/46	0	8	C528	02/17/46	0	0
C513	05/26/46	1	0	C528	04/14/46	1	0
C513	06/09/46	0	5	C529	06/09/46	0	2
C513	07/21/46	0	7	C529	07/21/46	2	1
C513	08/18/46	7	4	C530	07/01/45	0	0
C514	07/15/45	0	0	C530	07/08/45	0	18
C514	09/02/45	2	2	C530	07/29/45	0	0
C514	09/30/45	1	9	C530	08/26/45	6	0
C514	10/28/45	0	0	C530	09/09/45	0	0
C514	11/25/45	4	6	C530	10/07/45	0	0
C515	12/16/45	0	0	C530	11/11/45	0	8
C515	01/20/46	0	6	C531	12/02/45	3	4
C515	02/10/46	1	1	C531	12/30/45	0	22
C515	03/17/46	0	4	C531	01/20/46	0	1
C515	04/14/46	0	3	C531	02/24/46	9	3
C515	05/05/46	0	0	C531	03/17/46	0	9
C516	06/09/46	0	0	C531	04/21/46	8	0
C516	06/30/46	5	0	C531	05/12/46	0	0
C516	08/04/46	0	0	C531	05/19/46	0	0
C516	08/31/46	0	0	C532	07/14/46	0	1
C517	03/10/46	2	11	C532	08/04/46	3	5
C518	06/16/46	0	0	C532	08/11/46	0	0
C519	07/08/45	8	28	C532	08/31/46	0	0
C519	08/05/45	0	15	C533	07/15/45	23	15
C519	08/26/45	18	14	C533	08/05/45	0	0
C519	09/23/45	0	14	C533	08/26/45	19	0
C519	10/14/45	0	0	C533	09/30/45	11	7
C519	10/21/45	0	4	C533	10/21/45	0	20
C520	12/16/45	0	0	C533	11/18/45	9	9
C520	02/10/46	5	0	C534	12/09/45	13	0
C520	03/10/46	0	3	C534	12/16/45	1	5
C520	04/07/46	0	1	C534	01/13/46	3	0
C520	05/05/46	1	0	C534	02/10/46	1	3
C521	06/23/46	3	2	C534	03/10/46	5	3
C521	07/21/46	0	0	C534	04/07/46	0	0
C521	08/18/46	0	1	C535	06/02/46	6	6
C522	07/15/45	7	0	C535	06/23/46	0	3
C522	10/14/45	0	0	C535	07/21/46	0	0
C523	03/24/46	7	0	C535	08/25/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C536	04/28/46	0	0	C547	01/06/46	16	0
C536	05/26/46	0	0	C547	02/03/46	7	1
C536	06/23/46	7	9	C547	03/03/46	0	0
C536	07/21/46	5	0	C547	03/31/46	3	5
C536	08/18/46	0	0	C547	04/21/46	0	0
C537	04/21/46	1	1	C547	04/28/46	0	0
C537	05/12/46	2	0	C547	05/19/46	0	0
C537	06/09/46	0	0	C548	07/21/46	0	2
C537	07/07/46	0	0	C549	07/01/45	0	15
C537	08/04/46	0	0	C549	07/22/45	0	5
C537	08/31/46	0	0	C549	08/19/45	14	6
C538	06/17/45	0	5	C549	09/09/45	1	0
C539	01/27/45	6	3	C549	10/07/45	0	12
C539	07/29/45	2	14	C549	11/11/45	1	1
C540	08/26/45	0	18	C550	12/09/45	5	1
C540	09/02/45	0	0	C550	01/06/46	0	0
C540	09/16/45	5	7	C550	02/03/46	0	3
C540	10/07/45	4	0	C550	03/03/46	0	2
C540	11/11/45	9	31	C550	03/31/46	0	12
C540	11/18/45	0	4	C550	04/28/46	0	0
C540	12/02/45	8	3	C550	05/26/46	1	4
C540	02/03/46	0	0	C551	06/23/46	0	0
C541	02/24/46	0	0	C551	07/14/46	5	0
C541	03/31/46	6	3	C551	08/18/46	0	0
C541	04/28/46	0	0	C552	07/15/45	8	0
C541	05/26/46	0	0	C553	10/21/45	14	6
C541	06/16/46	0	0	C553	12/23/45	0	0
C542	08/18/46	6	0	C553	01/20/46	3	0
C543	07/01/45	0	0	C553	02/17/46	5	0
C543	07/29/45	7	3	C554	03/17/46	3	2
C543	08/26/45	0	20	C554	04/14/46	4	0
C543	10/07/45	5	5	C554	05/12/46	0	0
C544	12/09/45	4	3	C554	06/02/46	1	0
C544	03/17/46	0	13	C554	07/07/46	0	6
C544	04/07/46	0	11	C554	07/28/46	1	3
C544	05/05/46	0	0	C554	08/31/46	2	3
C544	05/26/46	0	0	C555	07/01/45	7	11
C545	07/07/46	5	0	C555	07/22/45	0	0
C545	07/28/46	0	0	C555	08/12/45	1	13
C545	08/31/46	2	0	C555	09/02/45	0	12
C546	07/15/45	23	0	C555	10/28/45	2	0
C546	08/26/45	13	17	C556	12/02/45	0	0
C546	09/23/45	7	0	C556	01/13/46	3	5
C546	11/11/45	0	0	C556	02/17/46	0	0
C547	12/09/45	5	7	C556	03/17/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C557	08/31/46	0	0	C567	08/25/46	27	0
C558	12/16/45	0	22	C568	03/10/46	6	6
C558	02/10/46	1	0	C568	03/31/46	3	0
C558	03/10/46	0	0	C568	05/05/46	0	0
C558	04/07/46	6	7	C568	05/26/46	0	0
C558	04/28/46	1	0	C568	06/23/46	0	0
C558	05/26/46	2	8	C568	07/21/46	0	0
C559	06/23/46	0	0	C568	08/18/46	0	0
C559	07/28/46	0	0	C569	09/23/45	3	0
C559	08/18/46	0	0	C569	10/21/45	2	0
C560	07/08/45	6	2	C569	11/18/45	16	12
C560	08/05/45	0	0	C569	12/16/45	2	0
C560	08/26/45	6	6	C569	01/13/46	4	0
C560	09/23/45	0	0	C569	02/10/46	2	0
C560	10/21/45	0	12	C570	07/08/45	22	2
C560	11/18/45	11	7	C570	07/29/45	16	12
C561	07/01/45	0	0	C571	06/09/46	0	0
C561	07/29/45	0	18	C571	07/07/46	0	4
C561	08/26/45	7	0	C571	07/28/46	9	0
C561	09/23/45	0	11	C571	08/31/46	3	5
C561	10/07/45	7	0	C572	12/02/45	0	8
C561	11/11/45	1	0	C572	01/21/46	0	1
C562	12/09/45	7	6	C572	02/17/46	8	0
C562	12/16/45	0	0	C572	03/17/46	1	8
C562	01/06/46	0	0	C572	04/14/46	0	0
C562	04/07/46	1	2	C573	07/15/45	0	0
C562	04/21/46	6	0	C573	09/02/45	0	0
C563	05/26/46	2	0	C574	07/01/45	7	3
C563	06/16/46	0	0	C574	07/22/45	3	0
C563	08/18/46	5	2	C575	09/09/45	6	2
C564	04/14/46	4	3	C575	10/14/45	13	5
C564	05/12/46	0	3	C575	11/11/45	12	8
C564	06/30/46	6	0	C575	12/09/45	2	8
C564	07/28/46	0	0	C575	02/03/46	0	0
C565	03/25/45	0	1	C576	03/03/46	0	0
C565	04/22/45	3	0	C576	03/31/46	0	0
C565	05/20/45	9	4	C576	04/21/46	4	0
C565	07/15/45	0	0	C576	06/23/46	0	3
C565	08/12/45	4	0	C576	07/21/46	4	0
C566	11/04/45	0	22	C576	08/11/46	1	2
C566	12/02/45	9	11	C577	07/22/45	5	0
C566	01/20/46	0	3	C577	08/12/45	0	0
C566	02/24/46	10	7	C577	09/02/45	5	17
C567	07/07/46	0	4	C577	10/28/45	0	0
C567	08/04/46	0	0	C577	11/25/45	20	4

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C578	12/23/45	4	20	C588	05/05/46	0	0
C578	01/20/46	0	0	C589	06/02/46	4	0
C578	02/17/46	2	4	C589	06/30/46	3	0
C578	03/17/46	6	7	C589	08/04/46	0	5
C578	04/14/46	0	2	C589	08/31/46	4	3
C578	05/12/46	0	0	C590	07/22/45	0	0
C579	06/09/46	0	0	C591	10/28/45	0	0
C579	07/07/46	0	0	C591	11/25/45	9	0
C579	08/04/46	1	0	C591	12/02/45	0	0
C580	07/01/45	0	3	C591	12/23/45	0	8
C580	08/19/45	26	30	C591	01/20/46	0	0
C580	09/16/45	8	0	C591	02/17/46	8	6
C580	10/14/45	0	0	C592	03/17/46	0	0
C580	11/11/45	0	12	C593	07/15/45	0	0
C581	12/02/45	24	0	C594	10/21/45	19	27
C581	01/06/46	6	0	C594	11/18/45	6	10
C581	02/03/46	1	0	C594	01/13/46	2	0
C581	03/03/46	8	0	C594	02/10/46	0	0
C581	03/31/46	0	0	C595	04/07/46	0	0
C581	04/28/46	1	4	C595	05/05/46	0	0
C581	05/26/46	0	0	C595	06/02/46	3	0
C582	06/09/46	0	0	C595	06/30/46	0	0
C582	07/21/46	4	0	C595	08/25/46	0	4
C582	08/11/46	4	0	C595	08/31/46	0	5
C583	10/28/45	43	23	C596	10/28/45	0	5
C584	01/06/46	0	19	C596	11/04/45	0	0
C584	02/10/46	3	0	C597	12/30/45	0	7
C584	03/31/46	1	0	C597	01/27/46	0	0
C585	05/26/46	0	0	C597	02/24/46	14	5
C585	06/09/46	7	0	C597	03/24/46	0	0
C585	06/23/46	1	0	C597	04/21/46	0	1
C585	07/21/46	4	0	C597	05/19/46	0	6
C586	04/21/46	2	7	C598	06/09/46	0	0
C586	05/12/46	0	0	C598	07/14/46	0	0
C586	06/09/46	1	0	C598	08/11/46	0	3
C586	07/28/46	0	1	C599	08/05/45	0	0
C587	07/15/45	0	3	C600	10/21/45	0	0
C587	08/26/45	10	0	C600	11/18/45	0	0
C587	10/28/45	0	0	C600	12/16/45	4	32
C587	11/25/45	0	0	C600	01/20/46	0	0
C588	12/23/45	28	6	C600	02/17/46	0	0
C588	01/13/46	26	0	C601	03/17/46	0	0
C588	02/03/46	1	0	C601	04/14/46	0	0
C588	03/17/46	0	0	C601	05/05/46	5	0
C588	04/14/46	0	2	C601	05/12/46	3	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C601	06/09/46	0	0	C610	08/26/45	0	0
C601	07/07/46	0	0	C610	09/30/45	15	0
C601	07/28/46	0	2	C610	10/28/45	12	0
C601	08/25/46	2	4	C611	12/02/45	0	9
C602	07/15/45	0	0	C611	12/30/45	0	8
C603	11/18/45	0	0	C611	01/20/46	2	0
C603	01/13/46	14	2	C611	02/17/46	10	10
C603	02/10/46	1	0	C611	03/17/46	0	0
C604	04/07/46	0	4	C611	03/24/46	3	11
C604	05/05/46	2	1	C611	04/14/46	0	4
C604	05/26/46	0	0	C611	05/12/46	1	0
C604	06/23/46	2	0	C612	06/09/46	0	1
C604	06/30/46	0	0	C612	07/07/46	4	2
C604	07/21/46	0	7	C612	08/11/46	5	6
C604	08/25/46	5	0	C612	08/31/46	0	2
C605	07/08/45	6	18	C613	07/01/45	0	7
C605	07/29/45	11	19	C613	07/22/45	25	17
C605	08/26/45	10	10	C613	09/02/45	0	10
C605	09/23/45	0	0	C613	10/07/45	13	1
C605	10/21/45	2	22	C613	10/28/45	0	4
C605	11/18/45	6	6	C614	12/02/45	3	4
C605	12/16/45	0	0	C614	12/30/45	8	1
C606	02/10/46	0	0	C614	01/20/46	0	0
C606	03/03/46	6	0	C614	02/24/46	6	0
C606	05/05/46	0	5	C614	03/24/46	5	4
C606	05/26/46	5	0	C615	05/19/46	0	0
C606	06/23/46	0	0	C615	06/09/46	0	1
C607	07/07/46	6	18	C615	07/14/46	1	0
C607	07/21/46	0	0	C615	08/04/46	0	6
C607	08/25/46	0	0	C615	08/11/46	0	0
C608	05/05/46	0	0	C616	07/08/45	0	0
C608	05/12/46	0	0	C616	07/29/45	0	0
C608	06/02/46	0	0	C616	09/02/45	2	6
C608	07/07/46	0	0	C616	09/23/45	8	0
C608	08/11/46	0	0	C616	11/18/45	9	0
C609	04/14/46	0	5	C617	01/13/46	10	10
C609	04/21/46	1	0	C617	02/10/46	10	6
C609	05/12/46	1	0	C617	04/07/46	0	0
C609	06/23/46	0	0	C617	04/28/46	0	0
C609	07/07/46	0	0	C617	05/05/46	10	6
C609	07/14/46	0	0	C617	05/26/46	0	7
C609	08/04/46	1	0	C617	06/30/46	0	0
C609	08/31/46	0	0	C618	08/04/46	0	0
C610	07/15/45	0	0	C619	10/28/45	12	0
C610	08/05/45	0	4	C619	11/18/45	5	0

TABLE A.1. (contd)

Record Code	Week- Ending Date	Thyroid Check Results		Record Code	Week- Ending Date	Thyroid Check Results	
		R	L			R	L
C619	12/16/45	4	0	C633	08/04/46	0	2
C619	01/20/46	0	1	C634	08/19/45	4	4
C619	02/17/46	0	1	C635	03/31/46	2	0
C619	03/17/46	0	4	C636	07/15/45	7	0
C620	04/07/46	4	0	C636	09/30/45	11	11
C620	06/30/46	2	3	C636	10/28/45	0	14
C620	08/04/46	1	0	C636	11/11/45	0	0
C620	08/25/46	4	2	C637	12/23/45	0	0
C621	08/05/45	18	0	C637	02/10/46	4	4
C622	11/18/45	0	0	C637	03/17/46	0	0
C623	03/17/46	0	0	C637	04/07/46	0	0
C623	05/13/46	0	0	C637	05/05/46	0	0
C623	08/04/46	0	3	C638	06/09/46	0	0
C624	10/21/45	0	0	C638	07/28/46	0	0
C625	02/03/46	3	3	C638	08/31/46	0	0
C625	03/03/46	0	0	C639	07/15/45	8	0
C625	03/31/46	0	6	C639	10/28/45	27	22
C626	07/21/46	0	0	C639	11/25/45	1	0
C627	02/24/46	0	0	C640	12/23/45	12	21
C627	05/05/46	0	0	C640	01/27/46	0	0
C627	07/07/46	0	2	C640	02/17/46	11	11
C628	07/15/45	0	0	C640	04/14/46	0	6
C628	07/22/45	16	0	C640	05/19/46	7	13
C628	11/04/45	0	0	C640	06/16/46	0	3
C628	12/02/45	17	33	C641	07/14/46	1	0
C628	12/23/45	24	8	C641	08/11/46	5	6
C629	01/27/46	11	6	C642	09/02/45	2	14
C629	02/24/46	0	0	C642	10/28/45	10	22
C629	03/17/46	13	14	C642	11/18/45	3	0
C629	05/19/46	2	0	C643	12/16/45	16	0
C629	06/16/46	8	0	C643	02/17/46	0	0
C630	08/11/46	0	2	C643	03/17/46	0	5
C631	07/01/45	0	0	C643	04/07/46	0	0
C631	07/29/45	0	10	C643	05/12/46	0	0
C631	08/19/45	0	8	C644	06/09/46	0	0
C631	10/28/45	0	5	C644	06/30/46	0	0
C632	12/02/45	4	0	C644	07/28/46	8	0
C632	12/30/45	24	49	C645	10/14/45	14	10
C632	01/20/46	1	0	C646	05/05/46	0	1
C632	02/17/46	0	0	C646	07/28/46	0	0
C632	03/24/46	0	0	C646	08/25/46	0	0
C632	04/21/46	0	3	C647	11/18/45	0	10
C632	05/19/46	5	3	C647	01/13/46	0	14
C633	06/09/46	0	4	C647	04/07/46	0	2
C633	07/14/46	5	0	C648	05/05/46	0	2

TABLE A.1. (contd)

Record Code	Week- Ending Date	Thyroid Check Results		Record Code	Week- Ending Date	Thyroid Check Results	
		R	L			R	L
C648	06/02/46	1	7	C664	11/11/45	9	0
C648	06/23/46	2	1	C665	12/09/45	2	4
C648	07/21/46	1	0	C665	01/06/46	2	0
C649	08/18/46	0	7	C665	02/03/46	12	0
C650	10/29/44	4	0	C665	03/03/46	2	10
C650	11/19/44	0	5	C665	03/31/46	7	0
C650	02/18/45	0	0	C665	04/14/46	0	7
C650	03/18/45	2	4	C665	04/21/46	7	2
C651	04/08/45	4	9	C665	05/26/46	0	0
C652	01/13/46	12	10	C666	06/23/46	0	6
C653	04/07/46	0	0	C666	07/21/46	4	6
C653	05/05/46	3	0	C667	10/21/45	0	0
C653	05/26/46	1	0	C668	02/03/46	4	6
C653	06/23/46	0	0	C668	06/09/46	2	0
C654	08/25/46	0	0	C669	07/22/45	4	0
C655	07/22/45	0	0	C669	08/26/45	0	0
C655	11/25/45	0	0	C670	04/21/46	7	0
C656	08/11/46	0	0	C671	03/31/46	0	0
C657	07/15/45	0	0	C672	03/17/46	0	0
C657	08/05/45	4	8	C672	06/09/46	0	0
C657	10/07/45	3	0	C672	08/25/46	0	0
C657	10/28/45	12	4	C673	07/01/45	3	19
C657	11/11/45	0	1	C673	07/22/45	0	0
C658	12/02/45	18	12	C673	08/12/45	19	19
C658	01/20/46	12	2	C673	08/31/45	24	7
C658	02/24/46	6	3	C673	09/01/45	8	14
C658	03/17/46	6	7	C673	10/07/45	0	0
C658	04/21/46	0	3	C673	10/28/45	0	0
C658	05/12/46	0	0	C674	12/02/45	7	4
C659	07/07/46	3	0	C674	12/30/45	0	3
C659	07/14/46	2	0	C674	03/17/46	4	8
C659	08/11/46	5	0	C674	03/24/46	2	1
C660	09/30/45	0	22	C674	04/21/46	3	0
C660	12/09/45	1	0	C674	05/07/46	0	0
C660	12/30/45	2	8	C674	05/10/46	0	0
C661	02/24/46	0	0	C675	06/09/46	0	2
C661	04/21/46	1	0	C675	07/14/46	7	0
C661	06/16/46	0	0	C675	08/11/46	0	0
C662	08/11/46	0	0	C676	10/21/45	11	0
C663	08/05/45	0	0	C677	01/27/46	1	5
C664	07/01/45	20	0	C677	04/07/46	0	6
C664	07/29/45	6	0	C677	04/28/46	0	4
C664	08/19/45	28	0	C678	05/26/46	0	0
C664	09/16/45	4	0	C678	06/09/46	1	0
C664	10/14/45	12	16	C678	07/21/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C678	08/18/46	0	0	C692	06/30/46	4	0
C679	07/01/45	0	0	C693	08/04/46	0	0
C680	11/18/45	0	2	C694	07/01/45	0	0
C681	01/13/46	0	0	C694	09/23/45	4	20
C681	02/10/46	0	2	C694	10/21/45	2	0
C681	03/10/46	1	0	C695	05/26/46	0	0
C681	04/07/46	1	0	C695	08/11/46	1	1
C681	05/19/46	3	0	C696	07/01/45	0	0
C681	06/09/46	0	0	C696	09/02/45	0	0
C682	07/28/46	4	0	C696	10/14/45	0	0
C682	08/04/46	0	0	C697	01/13/46	7	0
C683	07/01/45	0	0	C697	03/17/46	1	5
C683	07/22/45	0	0	C697	04/14/46	2	5
C684	09/02/45	4	20	C698	07/07/46	0	3
C684	09/09/45	0	10	C698	08/04/46	2	0
C684	10/14/45	4	0	C699	06/30/46	1	0
C684	11/11/45	0	1	C700	12/23/45	0	0
C684	12/09/45	0	0	C700	12/30/45	14	6
C685	02/03/46	0	1	C700	12/30/45	32	28
C685	02/24/46	0	0	C700	02/17/46	0	0
C685	04/28/46	1	0	C701	04/14/46	0	6
C685	05/26/46	0	2	C701	06/09/46	0	0
C685	07/21/46	2	0	C701	07/14/46	0	5
C686	08/11/46	2	1	C701	08/04/46	0	0
C687	07/15/45	0	13	C701	08/31/46	0	0
C688	09/09/45	13	21	C702	07/22/45	9	0
C688	11/18/45	0	0	C702	09/09/45	0	0
C688	01/20/46	7	0	C702	11/04/45	11	0
C689	02/17/46	0	6	C703	02/03/46	0	5
C689	03/17/46	0	0	C703	03/31/46	0	0
C689	04/14/46	0	14	C703	05/19/46	0	2
C689	05/05/46	0	5	C704	07/21/46	0	2
C689	06/30/46	0	7	C705	08/18/46	4	5
C689	08/04/46	0	0	C706	08/05/45	0	0
C690	08/25/46	0	0	C707	10/14/45	3	23
C691	08/12/45	25	0	C707	02/10/46	0	8
C691	09/02/45	9	1	C707	03/10/46	0	0
C691	10/28/45	0	0	C708	04/21/46	0	0
C691	11/25/45	1	3	C709	10/21/45	0	2
C691	12/16/45	16	0	C709	11/25/45	5	6
C691	01/20/46	6	5	C709	02/10/46	4	0
C692	02/10/46	1	0	C710	03/24/46	0	4
C692	03/17/46	0	0	C710	04/07/46	0	1
C692	04/14/46	5	1	C710	05/05/46	0	0
C692	05/12/46	0	3	C710	06/30/46	6	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C710	08/25/46	0	0	C729	03/24/46	3	1
C711	08/05/45	6	4	C729	05/26/46	1	0
C712	11/25/45	6	2	C730	08/11/46	0	0
C712	02/10/46	7	0	C731	08/12/45	0	8
C713	03/24/46	1	0	C731	09/30/45	0	6
C713	05/05/46	0	0	C732	03/24/46	0	0
C713	06/30/46	1	0	C733	07/21/46	0	0
C713	08/25/46	2	4	C734	07/01/45	9	3
C714	07/01/45	1	0	C734	07/29/45	0	0
C714	09/16/45	0	0	C734	08/19/45	0	16
C714	11/18/45	9	25	C735	09/16/45	7	11
C715	01/13/46	14	18	C735	10/07/45	1	20
C715	03/10/46	0	0	C735	11/11/45	0	0
C715	05/05/46	0	0	C735	12/02/45	4	7
C716	07/07/46	0	0	C735	01/06/46	0	0
C717	05/06/45	7	3	C735	02/03/46	13	0
C717	09/02/45	3	0	C736	03/03/46	1	1
C718	09/30/45	0	3	C736	03/31/46	0	0
C719	03/10/46	5	0	C736	04/28/46	0	0
C719	05/19/46	6	0	C736	05/19/46	0	0
C719	07/07/46	0	0	C736	06/23/46	0	0
C720	07/08/45	0	0	C736	07/21/46	0	0
C720	09/09/45	0	0	C736	08/18/46	0	0
C720	11/11/45	7	0	C737	05/26/46	1	0
C721	02/17/46	0	0	C737	07/28/46	6	5
C721	04/14/46	1	1	C738	10/07/45	4	4
C722	06/09/46	0	0	C738	02/10/46	5	0
C722	08/11/46	5	4	C739	07/01/45	7	0
C723	07/15/45	0	0	C739	09/02/45	2	0
C723	10/21/45	1	1	C740	07/01/45	12	0
C724	12/16/45	24	0	C741	09/30/45	30	0
C724	02/10/46	3	0	C741	02/17/46	0	0
C724	04/07/46	0	0	C742	04/14/46	0	0
C725	06/30/46	0	2	C742	06/09/46	0	0
C725	08/25/46	0	0	C742	08/04/46	6	2
C726	12/02/45	0	0	C743	07/29/45	8	8
C726	01/27/46	4	0	C744	09/30/45	0	0
C726	03/24/46	0	0	C744	12/02/45	0	0
C726	05/19/46	0	4	C744	01/27/46	0	0
C727	08/18/46	7	0	C745	03/31/46	3	2
C728	07/08/45	10	18	C745	06/09/46	0	0
C728	09/02/45	2	10	C745	08/18/46	3	0
C728	11/04/45	0	0	C746	05/06/45	0	0
C729	01/27/46	0	1	C746	09/02/45	0	4
C729	02/24/46	0	6	C747	06/30/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C748	06/02/46	0	0	C771	07/07/46	2	0
C748	08/04/46	8	4	C772	09/02/45	5	0
C748	08/31/46	6	7	C773	01/20/45	11	5
C749	09/09/45	0	0	C773	11/25/45	0	0
C750	11/11/45	3	39	C774	03/17/46	0	0
C750	03/03/46	0	0	C774	06/09/46	0	0
C751	04/28/46	0	0	C774	07/07/46	0	0
C751	07/21/46	2	0	C774	08/31/46	0	0
C752	07/01/45	0	0	C775	05/05/46	0	0
C753	10/14/45	4	0	C775	08/31/46	0	2
C753	12/23/45	7	9	C776	08/15/45	14	10
C754	07/01/45	0	0	C777	10/14/45	0	11
C754	08/26/45	1	25	C777	12/16/45	5	0
C754	11/25/45	0	0	C778	04/28/46	10	0
C755	02/10/46	1	0	C778	07/28/46	0	1
C755	04/14/46	0	2	C779	07/22/45	0	0
C756	07/01/45	7	3	C779	10/07/45	12	10
C756	09/02/45	0	1	C780	07/14/46	4	7
C757	11/11/45	8	4	C780	08/31/46	0	0
C757	02/10/46	0	0	C781	12/02/45	4	2
C758	06/30/46	0	0	C781	01/20/46	5	0
C759	08/05/45	20	8	C781	03/17/46	0	0
C759	11/11/45	7	0	C781	05/12/46	0	0
C760	01/13/46	0	3	C782	08/05/45	0	0
C760	03/10/46	0	0	C783	09/16/45	0	0
C760	05/26/46	8	0	C783	10/21/45	0	8
C761	08/04/46	0	9	C784	03/24/46	0	0
C762	06/10/45	0	0	C784	06/30/46	0	0
C762	09/09/45	0	0	C785	07/15/45	4	5
C762	11/25/45	4	0	C785	09/30/45	0	0
C763	02/17/46	2	0	C786	12/09/45	5	3
C763	04/14/46	0	0	C786	02/17/46	6	0
C764	06/09/46	0	0	C786	03/17/46	9	0
C764	08/04/46	0	0	C786	04/14/46	0	0
C765	06/30/46	5	0	C787	07/14/46	0	0
C766	07/29/45	12	0	C788	07/15/45	8	0
C766	09/09/45	24	8	C789	10/14/45	5	13
C766	11/11/45	0	0	C789	01/13/46	4	0
C767	02/24/46	0	0	C790	03/17/46	3	0
C767	04/28/46	0	0	C790	06/30/46	0	0
C768	07/07/46	8	3	C790	08/31/46	0	0
C769	07/01/45	19	0	C791	07/15/45	4	0
C769	09/02/45	13	13	C791	08/05/45	4	8
C770	10/14/45	4	8	C791	09/09/45	0	0
C771	03/07/46	3	5	C791	11/11/45	12	16

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C792	01/13/46	0	0	C817	05/12/46	0	0
C792	03/24/46	6	2	C818	07/15/45	0	8
C793	06/30/46	0	2	C818	09/02/45	9	9
C794	08/19/45	2	7	C818	11/18/45	0	1
C795	01/13/46	0	0	C819	06/09/46	0	0
C795	04/14/46	0	0	C819	08/18/46	0	0
C796	06/09/46	0	0	C820	12/23/45	7	0
C796	08/31/46	0	0	C820	02/24/46	0	8
C797	07/07/46	0	0	C821	09/09/45	0	0
C798	10/14/45	5	0	C821	10/21/45	10	0
C799	02/10/46	0	0	C822	07/01/45	0	0
C799	05/05/46	1	1	C823	07/01/45	4	4
C800	07/14/46	0	0	C824	07/01/45	0	0
C801	02/10/46	7	0	C824	07/29/45	0	0
C802	08/26/45	0	0	C826	08/26/45	0	20
C802	10/14/45	7	0	C827	05/26/46	0	0
C803	12/09/45	0	7	C827	07/21/46	0	8
C803	04/21/46	0	2	C827	08/18/46	7	0
C804	08/05/45	0	0	C827	08/31/46	9	12
C804	10/14/45	7	11	C828	12/30/45	0	22
C805	08/18/46	3	0	C828	02/03/46	14	10
C806	02/03/46	2	3	C828	02/17/46	8	1
C806	04/07/46	0	0	C828	03/03/46	9	12
C807	07/22/45	2	3	C828	03/24/46	0	4
C807	09/16/45	3	0	C828	03/31/46	4	0
C808	07/01/45	3	3	C828	04/28/46	0	0
C809	07/08/45	1	0	C829	07/01/45	0	0
C809	08/26/45	2	18	C829	07/22/45	3	3
C810	05/26/46	0	4	C829	09/02/45	0	0
C810	06/23/46	13	0	C829	09/09/45	0	0
C810	07/21/46	2	0	C829	10/14/45	7	3
C810	08/18/46	0	0	C829	11/11/45	28	12
C811	08/12/45	0	0	C829	11/11/45	0	1
C812	04/14/46	0	0	C830	05/26/46	0	1
C812	06/09/46	0	0	C830	07/21/46	0	0
C812	08/04/46	0	1	C831	07/22/45	4	0
C813	09/23/45	10	0	C831	08/05/45	1	0
C813	12/16/45	0	0	C831	10/07/45	0	0
C813	02/17/46	0	0	C832	12/09/45	2	6
C814	08/12/45	0	0	C832	02/03/46	0	0
C815	06/24/45	0	0	C832	03/31/46	0	7
C816	07/07/46	0	0	C833	07/21/46	1	0
C816	08/31/46	0	0	C834	07/01/45	0	0
C817	01/20/46	0	10	C834	07/22/45	0	0
C817	03/17/46	0	0	C835	07/15/45	10	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C835	08/05/45	0	5	C852	10/21/45	0	0
C836	07/15/45	0	0	C852	12/16/45	15	3
C836	09/02/45	0	0	C853	04/07/46	1	2
C836	09/30/45	0	5	C853	06/02/46	0	2
C836	10/28/45	2	0	C853	07/28/46	0	2
C837	01/20/46	10	0	C854	08/25/46	0	0
C837	02/10/46	12	0	C855	08/26/45	13	0
C837	03/17/46	0	0	C855	10/14/45	0	7
C837	04/07/46	0	0	C856	02/10/46	8	7
C837	05/12/46	0	0	C856	03/10/46	4	0
C837	06/09/46	0	6	C856	04/21/46	2	0
C837	06/30/46	3	7	C857	08/04/46	1	0
C838	08/04/46	0	0	C858	07/15/45	0	0
C838	08/25/46	0	3	C859	10/21/45	0	0
C839	10/14/45	0	0	C859	12/23/45	12	0
C839	12/09/45	5	8	C860	04/07/46	7	0
C840	01/06/46	0	6	C860	06/09/46	2	0
C840	02/24/46	0	4	C860	08/18/46	5	0
C840	04/28/46	1	4	C861	11/25/45	0	2
C840	06/23/46	0	0	C861	12/16/45	0	12
C841	02/24/46	1	2	C862	02/17/46	4	5
C841	06/16/46	1	0	C862	03/17/46	0	0
C841	07/21/46	0	0	C862	04/14/46	5	0
C842	08/11/46	7	0	C862	06/09/46	0	0
C843	12/23/45	0	8	C863	08/04/46	0	0
C843	02/17/46	4	0	C864	07/22/45	1	0
C844	04/21/46	0	0	C865	09/16/45	0	0
C844	06/23/46	4	0	C866	07/08/45	0	0
C844	08/31/46	2	0	C867	03/31/46	8	3
C845	07/01/45	11	19	C867	06/23/46	0	4
C846	08/19/45	10	10	C868	06/24/45	1	0
C846	10/28/45	12	12	C869	07/08/45	13	5
C846	01/13/46	23	11	C869	08/19/45	0	15
C847	03/03/46	7	1	C869	09/16/45	4	16
C847	04/07/46	0	0	C869	11/11/45	0	1
C847	05/05/46	0	0	C870	10/14/45	3	0
C847	05/26/46	3	0	C870	12/16/45	16	0
C847	06/30/46	0	0	C870	03/03/46	0	0
C847	07/28/46	3	6	C871	08/12/45	0	0
C848	08/25/46	0	0	C872	07/14/46	0	0
C849	02/24/46	2	2	C873	12/23/45	6	10
C849	04/21/46	6	0	C874	07/15/45	15	13
C850	08/11/46	0	0	C874	10/28/45	6	2
C851	07/15/45	34	0	C875	07/01/45	0	0
C852	08/26/45	0	0	C876	08/25/46	0	1

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C877	03/10/46	0	0	C893	07/07/46	6	0
C877	04/07/46	2	5	C894	01/20/46	2	6
C877	05/05/46	0	0	C894	03/17/46	0	0
C877	05/26/46	5	0	C894	05/12/46	0	0
C877	07/28/46	2	0	C895	07/29/45	0	0
C878	11/18/45	0	0	C895	09/16/45	0	0
C878	01/13/46	0	31	C895	11/11/45	0	0
C879	07/01/45	0	0	C896	06/23/46	0	0
C880	06/23/46	1	0	C897	07/01/45	13	17
C880	07/21/46	4	1	C897	09/16/45	8	0
C880	08/25/46	0	5	C898	12/09/45	3	35
C881	01/13/46	4	2	C898	02/24/46	7	7
C881	03/10/46	4	0	C898	04/28/46	8	4
C881	05/05/46	2	1	C899	06/16/46	0	0
C882	09/16/45	0	0	C900	12/30/45	7	11
C882	11/18/45	1	0	C900	02/24/46	0	6
C883	06/09/46	8	0	C900	04/21/46	0	0
C883	06/30/46	0	1	C901	07/15/45	4	8
C883	08/04/46	0	2	C901	08/05/45	0	0
C884	12/16/45	0	0	C902	11/25/45	0	2
C884	02/17/46	2	0	C902	01/20/46	0	0
C884	04/14/46	2	0	C902	03/17/46	4	35
C885	09/02/45	0	16	C903	05/12/46	0	0
C885	10/28/45	2	1	C903	07/07/46	0	0
C886	05/12/46	0	2	C904	07/08/45	0	6
C886	07/07/46	0	0	C904	08/26/45	0	0
C887	10/14/45	17	11	C904	11/04/45	0	0
C887	12/16/45	0	7	C905	12/30/45	0	0
C887	02/24/46	0	0	C905	02/24/46	0	0
C888	08/12/45	0	0	C905	04/21/46	2	0
C889	07/22/45	3	23	C906	06/16/46	7	3
C889	09/09/45	17	0	C907	07/29/45	0	0
C889	11/04/45	7	3	C908	12/16/45	0	8
C890	07/21/46	0	0	C908	03/17/46	0	0
C891	06/09/46	0	0	C908	05/12/46	2	0
C891	07/07/46	6	2	C909	08/31/46	0	0
C891	08/04/46	4	0	C910	09/23/45	0	0
C891	08/25/46	6	6	C910	11/18/45	1	0
C892	01/13/46	43	18	C910	01/27/46	0	6
C892	02/03/46	0	1	C911	04/14/46	0	0
C892	03/03/46	14	9	C911	06/16/46	4	0
C892	03/31/46	0	0	C911	08/11/46	0	0
C892	04/07/46	0	0	C912	08/26/45	2	0
C892	05/05/46	2	2	C913	10/07/45	10	6
C892	05/19/46	0	9	C913	12/30/45	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C913	02/25/46	13	7	C932	12/23/45	0	0
C914	07/21/46	0	0	C932	02/10/46	0	3
C915	08/05/45	0	0	C932	03/03/46	0	4
C915	10/14/45	19	3	C932	05/05/46	0	0
C916	12/09/45	0	0	C933	06/02/46	0	0
C916	04/07/46	0	0	C933	07/28/46	0	4
C916	05/12/46	0	0	C934	08/05/45	5	13
C917	06/09/46	0	0	C934	10/28/45	12	0
C917	07/28/46	0	0	C935	12/09/45	6	7
C918	11/04/45	0	11	C935	02/17/46	0	0
C918	01/27/46	0	5	C935	04/14/46	3	0
C919	06/16/46	0	0	C936	07/07/46	1	0
C920	08/19/45	7	0	C937	08/26/45	14	14
C920	10/14/45	0	9	C937	10/21/45	4	8
C921	12/16/45	4	4	C938	12/16/45	0	6
C921	02/17/46	2	3	C938	02/10/46	0	0
C921	04/21/46	2	3	C938	04/07/46	4	3
C921	06/02/46	0	0	C939	12/09/45	9	0
C922	08/18/46	0	3	C940	03/10/46	0	0
C923	08/12/45	0	5	C941	08/04/46	0	0
C923	09/30/45	0	0	C942	09/02/45	20	14
C923	11/25/45	8	4	C942	11/04/45	0	3
C924	01/27/46	3	7	C942	11/18/45	1	0
C924	02/24/46	0	0	C943	02/10/46	7	3
C924	05/19/46	0	2	C943	05/19/46	2	0
C925	08/31/46	1	0	C943	05/26/46	3	0
C926	01/13/46	0	0	C944	07/28/46	0	2
C926	02/03/46	0	0	C945	10/28/45	0	2
C926	02/10/46	2	0	C946	12/23/45	2	0
C927	02/24/46	0	1	C946	02/17/46	0	4
C927	03/17/46	0	0	C946	05/12/46	0	0
C927	04/07/46	0	5	C947	07/07/46	0	1
C927	05/19/46	0	0	C947	08/31/46	2	0
C927	06/16/46	1	1	C948	07/08/45	0	0
C927	07/14/46	0	4	C948	11/25/45	2	6
C927	08/11/46	2	0	C949	02/10/46	0	1
C928	06/24/45	0	3	C949	03/03/46	1	0
C928	07/15/45	1	0	C950	06/02/46	0	0
C928	10/28/45	4	0	C950	06/30/46	0	0
C929	12/23/45	8	0	C950	08/25/46	2	2
C929	02/24/46	3	0	C951	07/08/45	0	5
C929	04/28/46	3	1	C951	11/04/45	0	15
C930	07/14/46	0	1	C952	02/03/46	0	6
C931	07/01/45	3	0	C952	03/31/46	0	0
C931	08/26/45	13	21	C952	05/19/46	0	4

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C953	07/21/46	0	3	C964	12/09/45	3	0
C954	07/07/46	0	0	C964	01/06/46	2	4
C954	08/04/46	0	0	C964	02/03/46	3	9
C954	08/31/46	0	0	C964	03/03/46	11	10
C955	11/25/45	0	5	C965	07/15/45	8	0
C955	01/20/46	9	8	C965	08/12/45	0	12
C955	02/17/46	0	0	C965	10/07/45	0	16
C955	03/03/46	0	0	C966	12/16/45	9	0
C955	03/10/46	0	0	C966	02/10/46	0	0
C955	04/14/46	0	0	C966	04/07/46	0	2
C955	05/19/46	6	0	C967	06/16/46	0	0
C956	06/10/45	16	0	C967	08/11/46	0	2
C956	08/26/45	5	7	C968	07/15/45	0	0
C956	10/28/45	15	29	C968	10/21/45	10	6
C957	01/06/46	24	6	C968	11/18/45	15	9
C957	02/03/46	9	4	C968	12/16/45	0	0
C957	03/31/46	0	0	C969	01/20/46	1	0
C957	04/28/46	0	0	C969	02/17/46	0	0
C958	05/27/45	0	0	C969	04/07/46	0	0
C958	06/24/45	0	0	C969	05/12/46	4	0
C958	07/15/45	1	7	C969	06/09/46	1	0
C958	08/19/45	0	0	C970	06/30/46	3	0
C958	08/26/45	4	0	C970	07/28/46	6	4
C958	10/14/45	32	40	C970	08/31/46	4	0
C958	11/11/45	0	0	C971	07/22/45	0	0
C959	03/11/45	2	0	C971	09/09/45	0	0
C959	04/08/45	0	1	C971	11/04/45	0	0
C959	04/15/45	4	2	C972	08/05/45	0	0
C959	05/06/45	0	0	C972	11/18/45	5	21
C959	05/27/45	5	0	C972	01/27/46	0	4
C959	07/01/45	0	0	C973	03/31/46	0	0
C959	07/29/45	4	0	C974	08/12/45	6	0
C959	08/26/45	4	2	C974	10/28/45	0	0
C959	09/02/45	0	9	C974	01/20/46	2	0
C960	11/18/45	0	0	C975	03/24/46	2	1
C960	12/16/45	36	8	C976	02/25/45	0	2
C960	12/30/45	19	0	C976	03/25/45	0	4
C960	01/20/46	0	0	C977	07/22/45	0	0
C960	02/03/46	3	0	C977	09/16/45	0	0
C961	01/27/46	4	0	C977	11/11/45	0	8
C961	03/24/46	4	8	C977	12/30/45	0	0
C961	05/19/46	0	0	C978	07/15/45	0	12
C962	07/21/46	0	0	C979	07/22/45	0	12
C963	07/22/45	0	1	C980	09/16/45	8	0
C964	10/14/45	15	19	C981	08/19/45	0	4

TABLE A.1. (contd)

Record Code	Week- Ending Date	Thyroid Check Results		Record Code	Week- Ending Date	Thyroid Check Results	
		R	L			R	L
C982	07/15/45	0	0	C1000	10/14/45	0	0
C983	08/19/45	0	0	C1001	06/30/46	2	0
C984	01/13/46	0	2	C1001	07/21/46	3	0
C984	04/07/46	0	0	C1001	08/25/46	4	0
C985	08/26/45	1	9	C1002	06/10/45	3	0
C985	11/18/45	3	0	C1002	09/02/45	16	20
C986	07/14/46	0	0	C1002	10/28/45	0	0
C986	08/11/46	0	2	C1002	11/25/45	8	0
C986	08/31/46	0	1	C1003	12/23/45	11	7
C987	02/24/46	0	0	C1003	01/27/46	10	2
C987	03/17/46	0	0	C1003	02/24/46	3	1
C987	04/21/46	0	12	C1003	03/17/46	0	0
C987	05/12/46	0	0	C1003	04/14/46	2	0
C987	05/12/46	0	0	C1003	05/19/46	0	0
C987	06/16/46	0	0	C1004	07/07/46	3	2
C988	07/22/45	0	0	C1004	08/04/46	0	3
C988	08/19/45	6	0	C1005	07/15/45	0	2
C988	09/02/45	6	12	C1005	08/05/45	0	0
C988	10/07/45	7	17	C1006	07/08/45	0	0
C988	10/28/45	0	0	C1006	08/26/45	33	1
C988	12/02/45	6	7	C1006	10/28/45	0	14
C988	12/23/45	0	4	C1006	11/04/45	3	3
C989	07/01/45	7	0	C1007	01/20/46	0	0
C990	06/23/46	1	0	C1007	03/24/46	0	7
C990	08/04/46	0	5	C1008	06/02/46	0	0
C991	12/23/45	4	2	C1008	08/25/46	7	1
C991	02/24/46	2	0	C1009	07/01/45	0	0
C991	04/14/46	7	6	C1010	09/16/45	0	2
C992	07/29/45	12	4	C1011	01/27/46	1	1
C992	09/16/45	15	3	C1011	03/17/46	9	0
C992	11/04/45	11	0	C1011	05/12/46	0	2
C993	08/19/45	0	6	C1012	07/07/46	0	3
C994	06/02/46	3	0	C1012	08/25/46	0	0
C994	06/30/46	0	0	C1013	07/01/45	9	0
C994	07/28/46	0	0	C1013	07/29/45	0	0
C995	02/10/46	0	8	C1014	10/14/45	27	15
C995	03/17/46	0	3	C1014	11/11/45	3	31
C995	05/05/46	5	0	C1014	01/06/46	0	14
C996	09/30/45	0	0	C1014	01/27/46	3	0
C996	11/25/45	3	6	C1014	03/03/46	0	2
C997	07/01/45	0	0	C1015	03/24/46	0	0
C998	07/29/45	0	6	C1015	04/28/46	0	0
C999	03/10/46	0	0	C1015	05/26/46	0	4
C999	05/12/46	0	0	C1015	07/21/46	0	0
C1000	08/12/45	0	0	C1015	08/18/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1016	07/01/45	6	10	C1030	05/12/46	0	2
C1016	09/02/45	18	18	C1031	07/28/46	0	0
C1016	10/14/45	0	5	C1031	08/18/46	0	0
C1017	01/13/46	19	9	C1032	07/29/45	3	0
C1017	03/17/46	0	1	C1033	09/09/45	1	0
C1018	07/14/46	0	4	C1033	11/11/45	0	0
C1019	07/07/46	0	0	C1033	01/13/46	8	4
C1020	01/13/46	2	6	C1034	04/07/46	0	0
C1020	04/07/46	0	0	C1034	06/09/46	0	0
C1020	05/26/46	0	0	C1034	08/11/46	1	2
C1021	07/15/45	14	0	C1035	07/08/45	0	6
C1021	09/12/45	8	8	C1035	08/26/45	13	1
C1021	09/13/45	5	0	C1036	10/28/45	3	19
C1021	10/21/45	27	0	C1037	04/07/46	5	6
C1021	11/18/45	0	21	C1038	07/01/45	7	3
C1022	06/09/46	2	5	C1038	07/22/45	5	0
C1022	06/23/46	0	4	C1038	09/02/45	28	40
C1022	07/21/46	0	0	C1038	09/30/45	0	4
C1023	12/09/45	0	7	C1038	11/25/45	0	0
C1023	12/30/45	0	2	C1039	12/09/45	20	4
C1023	01/27/46	2	0	C1039	01/27/46	0	5
C1023	03/03/46	7	7	C1039	04/07/46	8	0
C1023	03/31/46	4	1	C1040	06/02/46	0	0
C1023	05/26/46	0	0	C1040	07/28/46	0	0
C1024	07/01/45	0	0	C1041	07/01/45	7	0
C1024	07/29/45	0	4	C1041	07/22/45	0	0
C1024	10/14/45	3	3	C1041	10/14/45	0	0
C1024	11/11/45	3	23	C1041	11/11/45	0	16
C1025	06/24/45	3	0	C1042	12/09/45	0	0
C1025	07/22/45	0	7	C1042	01/06/46	7	1
C1025	08/19/45	4	0	C1042	02/03/46	5	1
C1026	08/12/45	1	1	C1042	03/03/46	0	0
C1026	10/28/45	0	5	C1042	03/31/46	0	0
C1026	12/02/45	0	5	C1042	04/28/46	0	0
C1026	12/30/45	12	4	C1042	05/26/46	0	0
C1027	01/27/46	0	0	C1043	06/09/46	7	2
C1027	02/24/46	0	12	C1043	06/23/46	5	0
C1027	05/12/46	10	0	C1043	07/21/46	5	0
C1027	06/16/46	0	0	C1043	08/18/46	0	0
C1028	07/21/46	0	3	C1044	08/19/45	0	12
C1028	08/11/46	0	0	C1044	11/25/45	4	0
C1029	07/01/45	1	0	C1045	03/03/46	0	0
C1029	08/26/45	20	36	C1045	05/19/46	0	0
C1029	09/30/45	0	15	C1046	08/31/46	0	0
C1030	01/27/46	0	0	C1047	06/24/45	0	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1048	07/22/45	0	15	C1064	04/28/46	6	1
C1048	08/19/45	12	8	C1065	02/17/46	5	9
C1048	09/09/45	0	0	C1066	04/14/46	0	1
C1048	10/14/45	1	0	C1066	06/09/46	0	0
C1048	11/11/45	0	0	C1066	08/04/46	6	0
C1048	12/02/45	5	3	C1067	07/29/45	4	0
C1049	01/06/46	0	0	C1067	09/09/45	4	0
C1049	02/17/46	0	0	C1068	07/01/45	15	0
C1049	03/03/46	4	3	C1069	07/01/45	0	8
C1049	04/28/46	0	0	C1069	07/22/45	0	0
C1049	05/26/46	0	0	C1070	10/14/45	19	3
C1049	06/16/46	0	0	C1070	10/21/45	16	8
C1050	07/21/46	0	1	C1070	11/11/45	23	23
C1051	09/09/45	0	15	C1070	12/09/45	0	7
C1052	12/09/45	9	4	C1070	12/30/45	11	12
C1052	05/19/46	0	1	C1070	02/03/46	6	6
C1053	05/27/45	0	0	C1071	03/03/46	0	0
C1054	12/30/45	4	8	C1071	03/31/46	0	0
C1055	04/21/46	0	3	C1071	04/28/46	0	0
C1055	04/28/46	9	15	C1071	05/26/46	2	0
C1055	05/05/46	3	4	C1071	06/09/46	0	0
C1055	05/12/46	11	9	C1071	07/21/46	0	5
C1055	05/19/46	0	0	C1071	08/18/46	2	4
C1055	05/26/46	0	0	C1072	07/01/45	8	8
C1055	06/02/46	0	0	C1072	08/26/45	0	0
C1055	06/09/46	7	7	C1072	10/21/45	4	8
C1055	06/23/46	0	0	C1073	12/16/45	2	14
C1055	06/30/46	0	0	C1073	03/03/46	3	2
C1055	07/14/46	3	6	C1073	05/26/46	2	0
C1055	07/14/46	6	0	C1074	07/21/46	0	0
C1055	07/21/46	3	6	C1075	07/01/45	7	10
C1055	08/11/46	0	0	C1076	02/17/46	0	0
C1056	12/16/45	0	0	C1077	04/14/46	0	0
C1056	02/10/46	0	0	C1077	06/09/46	3	0
C1057	04/28/46	0	12	C1077	08/04/46	0	3
C1057	06/30/46	0	0	C1078	12/02/45	0	0
C1058	10/21/45	0	0	C1079	03/17/46	0	6
C1058	01/20/46	0	3	C1079	05/12/46	0	0
C1059	03/24/46	0	0	C1080	08/05/45	0	12
C1059	07/07/46	0	0	C1081	07/29/45	0	0
C1060	10/21/45	0	0	C1082	12/09/45	0	0
C1061	10/21/45	0	0	C1082	02/24/46	1	0
C1061	02/03/46	0	0	C1083	07/28/46	0	0
C1062	08/18/46	5	3	C1084	09/16/45	0	1
C1063	02/03/46	6	7	C1084	09/23/45	0	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1084	11/11/45	16	4	C1108	09/09/45	0	0
C1084	12/30/45	0	0	C1109	04/28/46	0	0
C1085	03/03/46	0	4	C1110	07/22/45	0	0
C1085	04/28/46	0	0	C1111	04/28/46	1	0
C1085	05/19/46	0	5	C1112	08/19/45	0	0
C1086	06/23/46	0	0	C1113	04/28/46	0	1
C1087	07/21/46	0	0	C1113	07/14/46	0	0
C1088	06/17/45	40	8	C1114	09/02/45	0	5
C1089	12/31/45	0	16	C1114	10/28/45	0	0
C1090	02/17/46	0	0	C1114	12/23/45	8	2
C1090	06/09/46	3	1	C1115	05/12/46	1	2
C1091	07/01/45	0	0	C1115	07/21/46	0	0
C1092	06/02/46	2	5	C1116	10/21/45	6	0
C1093	08/25/46	0	0	C1116	12/16/45	21	0
C1094	11/04/45	0	7	C1116	02/17/46	3	6
C1095	02/03/46	6	0	C1117	08/26/45	17	0
C1095	03/03/46	3	0	C1118	03/03/46	0	0
C1096	06/09/46	0	6	C1118	05/05/46	4	0
C1097	08/12/45	5	9	C1118	07/28/46	0	0
C1098	10/14/45	23	11	C1119	12/23/45	1	23
C1098	12/16/45	16	8	C1120	07/29/45	8	16
C1098	02/24/46	4	0	C1121	06/16/46	0	0
C1099	05/05/46	2	0	C1121	08/04/46	0	1
C1099	06/16/46	7	4	C1122	09/09/45	11	0
C1099	08/18/46	4	6	C1122	11/04/45	0	0
C1100	08/12/45	0	0	C1122	12/30/45	9	1
C1101	03/24/46	2	0	C1122	02/24/46	0	0
C1101	04/21/46	3	3	C1123	07/22/45	1	9
C1101	07/14/46	0	4	C1124	08/18/46	0	0
C1102	11/04/45	0	0	C1125	04/07/46	0	0
C1102	02/24/46	12	11	C1125	05/19/46	0	6
C1103	04/28/46	0	2	C1125	06/23/46	0	0
C1103	06/23/46	1	6	C1126	08/19/45	12	8
C1103	08/11/46	0	0	C1126	10/21/45	0	15
C1104	09/16/45	0	0	C1126	01/06/46	4	4
C1104	11/11/45	0	0	C1126	02/03/46	0	0
C1104	01/06/46	0	5	C1127	04/28/46	0	0
C1104	03/03/46	0	7	C1127	06/23/46	0	0
C1105	07/15/45	4	12	C1127	08/18/46	0	0
C1106	03/31/46	1	0	C1128	09/23/45	15	27
C1106	06/23/46	0	0	C1128	02/03/46	0	0
C1106	08/25/46	0	0	C1129	08/12/45	4	4
C1107	11/11/45	6	15	C1130	04/14/46	0	0
C1107	02/03/46	3	0	C1130	06/09/46	2	0
C1108	07/15/45	0	20	C1131	09/02/45	1	5

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1131	10/28/45	7	3	C1155	02/03/46	2	4
C1131	12/23/45	0	0	C1155	02/24/46	0	1
C1131	02/17/46	0	4	C1155	04/28/46	0	0
C1132	07/15/45	2	0	C1155	06/23/46	0	4
C1133	04/14/46	0	0	C1156	07/29/45	0	0
C1134	09/16/45	7	0	C1157	09/16/45	16	12
C1134	10/28/45	0	0	C1157	11/18/45	0	0
C1134	11/25/45	12	12	C1157	01/13/46	21	21
C1135	07/29/45	0	2	C1158	03/10/46	4	8
C1136	03/31/46	0	1	C1158	05/05/46	2	0
C1136	06/16/46	0	0	C1158	07/28/46	0	0
C1137	10/21/45	25	17	C1159	08/05/45	0	0
C1138	03/17/46	11	15	C1160	01/13/46	0	4
C1138	04/07/46	2	0	C1161	04/07/46	7	0
C1138	06/16/46	1	0	C1161	07/07/46	0	0
C1138	08/11/46	6	2	C1162	08/19/45	4	0
C1139	10/28/45	2	0	C1163	02/17/46	0	0
C1139	12/23/45	21	3	C1163	08/04/46	5	6
C1139	02/17/46	8	0	C1164	06/16/46	12	0
C1140	08/19/45	2	6	C1165	08/25/46	0	0
C1141	03/24/46	3	5	C1166	08/12/45	0	6
C1142	09/16/45	0	3	C1167	10/07/45	12	0
C1142	11/11/45	11	0	C1167	12/02/45	0	8
C1142	01/13/46	0	0	C1168	03/17/46	0	0
C1143	08/26/45	7	0	C1168	05/12/46	0	2
C1144	07/01/45	0	12	C1168	07/28/46	2	0
C1145	05/26/46	0	0	C1169	07/08/45	0	10
C1146	10/21/45	0	0	C1170	09/16/45	15	9
C1146	12/23/45	0	0	C1170	12/02/45	2	7
C1147	08/19/45	4	28	C1171	05/05/46	0	2
C1148	07/08/45	0	0	C1171	06/30/46	1	0
C1148	09/09/45	6	0	C1172	08/25/46	0	0
C1149	03/24/46	0	3	C1173	09/09/45	0	0
C1149	05/19/46	8	3	C1174	04/14/46	0	0
C1149	06/16/46	11	0	C1174	06/23/46	6	0
C1149	07/14/46	4	4	C1175	08/18/46	2	2
C1149	08/31/46	1	0	C1176	08/12/45	0	0
C1150	01/27/46	1	2	C1177	10/14/45	0	0
C1151	07/15/45	0	2	C1177	12/16/45	0	0
C1151	09/09/45	6	6	C1177	02/17/46	0	0
C1152	08/31/46	4	8	C1178	05/12/46	0	0
C1153	07/29/45	2	0	C1179	06/23/46	5	2
C1154	09/16/45	0	0	C1180	07/14/46	0	2
C1154	11/11/45	1	1	C1181	07/28/46	0	1
C1154	12/09/45	5	3	C1182	04/21/46	9	3

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1183	08/19/45	0	12	C1205	06/30/46	0	1
C1183	01/27/46	0	0	C1205	08/18/46	0	0
C1184	04/14/46	0	4	C1206	06/24/45	0	0
C1184	07/07/46	0	0	C1206	08/26/45	0	4
C1185	10/07/45	2	0	C1207	08/18/46	8	6
C1186	03/17/46	0	2	C1208	02/10/46	0	0
C1186	05/26/46	0	0	C1208	04/28/46	1	5
C1186	07/28/46	0	0	C1208	06/23/46	0	0
C1187	07/29/45	7	3	C1209	08/26/45	0	7
C1188	09/16/45	3	0	C1209	10/21/45	26	0
C1188	11/18/45	0	3	C1210	07/01/45	8	0
C1188	01/13/46	19	15	C1211	07/21/46	0	0
C1189	03/10/46	1	5	C1212	10/21/45	38	14
C1189	05/05/46	0	0	C1212	12/23/45	3	0
C1189	06/30/46	5	0	C1212	03/03/46	0	0
C1190	08/18/46	0	0	C1213	07/01/45	0	7
C1191	07/01/45	0	4	C1213	08/26/45	2	0
C1191	08/26/45	0	0	C1214	04/28/46	5	0
C1192	12/02/45	0	0	C1214	06/23/46	5	0
C1192	01/27/46	0	0	C1214	08/25/46	0	6
C1193	03/24/46	0	1	C1215	10/21/45	29	25
C1193	08/11/46	0	0	C1215	02/10/46	0	0
C1194	07/22/45	0	2	C1216	07/01/45	0	0
C1195	03/24/46	2	0	C1216	08/26/45	0	0
C1196	01/27/46	0	0	C1217	08/18/46	13	11
C1197	07/08/45	0	0	C1218	03/31/46	8	6
C1197	09/09/45	0	5	C1218	05/26/46	0	2
C1198	08/25/46	2	0	C1219	08/19/45	32	8
C1199	03/24/46	7	0	C1219	08/26/45	0	4
C1199	05/19/46	4	2	C1219	12/09/45	7	3
C1199	07/14/46	0	0	C1219	02/03/46	0	0
C1200	09/09/45	1	9	C1220	07/14/46	0	0
C1200	11/04/45	0	0	C1221	09/02/45	2	6
C1200	01/27/46	3	3	C1221	12/02/45	13	0
C1201	02/10/46	1	0	C1222	02/18/45	0	1
C1201	03/03/46	10	4	C1222	05/20/45	0	9
C1201	04/07/46	10	5	C1223	08/11/46	4	2
C1201	06/02/46	0	0	C1224	02/24/46	0	0
C1201	07/28/46	0	4	C1224	05/19/46	0	3
C1202	09/23/45	0	3	C1225	09/16/45	8	24
C1202	11/18/45	0	0	C1225	12/30/45	4	0
C1203	07/08/45	2	0	C1226	05/05/46	0	0
C1204	10/21/45	0	1	C1227	10/21/45	5	5
C1204	12/16/45	16	16	C1227	02/10/46	1	0
C1205	05/05/46	0	2	C1228	07/29/45	2	2

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1229	07/07/46	0	4	C1248	05/19/46	0	3
C1230	08/25/46	0	2	C1248	06/16/46	1	0
C1231	08/05/45	0	0	C1248	07/14/46	0	1
C1232	10/21/45	14	18	C1249	08/11/46	0	9
C1232	01/13/46	44	22	C1250	07/08/45	0	0
C1233	07/08/45	0	1	C1251	09/02/45	0	0
C1233	07/22/45	0	0	C1251	09/30/45	2	0
C1233	08/05/45	0	0	C1251	11/25/45	0	0
C1234	03/10/46	1	6	C1251	01/20/46	0	0
C1235	07/22/45	0	0	C1252	03/17/46	0	0
C1236	09/23/45	0	4	C1252	05/12/46	0	8
C1236	11/18/45	21	0	C1253	02/17/46	4	1
C1236	01/13/46	1	0	C1254	08/05/45	0	0
C1237	09/23/45	0	12	C1255	04/21/46	0	5
C1237	11/18/45	0	0	C1256	04/28/46	4	0
C1237	02/17/46	0	0	C1256	08/04/46	0	2
C1238	07/29/45	0	0	C1257	08/19/45	1	0
C1239	03/17/46	0	0	C1257	11/11/45	0	0
C1239	07/21/46	0	0	C1257	12/16/45	0	11
C1240	03/10/46	0	0	C1258	03/24/46	2	3
C1240	04/07/46	0	0	C1258	06/09/46	2	0
C1240	05/05/46	3	0	C1258	08/11/46	2	0
C1240	07/28/46	0	0	C1259	09/16/45	13	3
C1241	07/15/45	0	7	C1259	11/11/45	0	0
C1242	09/02/45	0	6	C1259	01/13/46	10	0
C1242	10/07/45	11	3	C1260	07/22/45	0	25
C1242	12/02/45	0	0	C1261	03/10/46	3	0
C1243	02/24/46	0	0	C1261	06/09/46	0	9
C1243	04/14/46	0	0	C1262	07/01/45	0	0
C1243	06/16/46	0	0	C1263	08/26/45	5	9
C1243	08/11/46	2	0	C1263	10/28/45	23	19
C1244	07/22/45	0	0	C1263	12/30/45	0	12
C1245	08/19/45	7	6	C1264	08/18/46	9	0
C1245	11/04/45	3	11	C1265	02/24/46	0	2
C1245	12/30/45	24	0	C1265	03/03/46	8	0
C1246	02/24/46	0	0	C1265	03/10/46	0	10
C1246	04/21/46	0	0	C1265	03/31/46	3	1
C1246	06/16/46	0	0	C1265	04/21/46	3	0
C1247	10/28/45	1	13	C1265	04/21/46	16	16
C1247	11/04/45	0	0	C1265	04/28/46	0	0
C1247	11/25/45	0	1	C1266	09/09/45	0	0
C1247	12/30/45	0	0	C1266	11/11/45	43	0
C1247	01/13/46	0	0	C1266	01/20/46	0	3
C1248	02/24/46	8	13	C1267	07/08/45	6	0
C1248	03/24/46	1	0	C1268	02/24/46	12	9

TABLE A.1. (contd)

Record Code	Week- Ending Date	Thyroid Check Results		Record Code	Week- Ending Date	Thyroid Check Results	
		R	L			R	L
C1269	07/22/45	9	13	C1289	08/25/46	2	0
C1269	07/22/45	16	8	C1290	07/01/45	0	0
C1270	09/16/45	0	0	C1291	08/26/45	6	0
C1270	12/30/45	40	12	C1291	10/14/45	19	19
C1271	08/31/46	0	0	C1291	12/09/45	0	3
C1272	06/16/46	0	0	C1291	01/20/46	0	0
C1272	08/04/46	0	0	C1292	05/26/46	3	4
C1273	05/26/46	0	0	C1293	09/30/45	0	0
C1274	12/23/45	0	7	C1293	01/27/46	0	0
C1275	02/17/46	7	0	C1294	02/24/46	0	0
C1275	04/14/46	0	7	C1294	04/14/46	5	0
C1275	06/09/46	0	0	C1294	06/16/46	2	4
C1275	08/04/46	0	1	C1294	08/04/46	0	1
C1276	09/23/45	2	0	C1295	07/22/45	0	14
C1276	10/28/45	0	0	C1296	09/09/45	20	0
C1276	12/23/45	3	7	C1296	11/11/45	0	19
C1277	07/22/45	1	0	C1297	03/10/46	0	2
C1278	08/05/45	0	0	C1297	05/12/46	0	1
C1279	02/10/46	1	0	C1297	06/30/46	1	0
C1279	05/12/46	0	0	C1297	07/28/46	4	0
C1279	07/28/46	5	1	C1298	08/05/45	0	12
C1280	08/12/45	0	0	C1299	09/30/45	0	0
C1280	10/28/45	0	0	C1299	12/09/45	0	0
C1280	12/16/45	0	16	C1300	02/24/46	0	0
C1281	04/07/46	0	2	C1300	08/11/46	0	8
C1281	04/21/46	0	0	C1301	06/02/46	0	0
C1281	05/19/46	0	0	C1302	07/15/45	10	0
C1281	06/09/46	0	0	C1302	09/09/45	4	4
C1281	07/07/46	0	0	C1302	10/07/45	0	0
C1281	07/28/46	10	2	C1303	08/19/45	0	4
C1282	07/08/45	0	0	C1303	10/28/45	16	0
C1283	08/26/45	0	1	C1303	11/11/45	0	5
C1283	11/18/45	0	15	C1303	01/06/46	0	0
C1283	01/13/46	0	0	C1304	03/03/46	7	3
C1284	03/10/46	0	0	C1305	08/26/45	10	0
C1284	05/05/46	0	1	C1305	11/18/45	6	8
C1284	06/30/46	0	0	C1306	02/10/46	3	0
C1285	08/25/46	0	1	C1306	02/24/46	3	2
C1286	07/08/45	0	0	C1306	04/07/46	8	5
C1287	08/26/45	0	0	C1306	06/30/46	0	2
C1287	10/21/45	0	0	C1307	08/25/46	3	4
C1287	12/16/45	4	4	C1308	07/01/45	4	4
C1288	02/10/46	0	0	C1309	09/23/45	4	44
C1288	04/07/46	0	1	C1309	10/21/45	8	0
C1288	06/30/46	0	0	C1309	02/03/46	1	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1310	11/04/45	0	0	C1330	03/17/46	11	4
C1310	11/18/45	10	0	C1330	06/02/46	5	0
C1310	01/06/46	16	0	C1331	08/31/46	0	2
C1311	03/10/46	4	0	C1332	07/08/45	0	0
C1311	05/05/46	0	0	C1332	09/02/45	1	0
C1311	06/30/46	0	0	C1332	10/07/45	10	0
C1312	08/18/46	3	0	C1333	02/10/46	5	0
C1313	09/23/45	0	0	C1333	04/07/46	0	0
C1313	11/18/45	3	0	C1334	06/30/46	0	0
C1313	01/13/46	8	14	C1335	10/14/45	44	40
C1314	03/03/46	1	6	C1335	10/21/45	3	25
C1314	03/31/46	1	3	C1335	10/28/45	12	20
C1314	06/02/46	1	2	C1335	01/13/46	0	4
C1315	07/15/45	0	4	C1335	02/03/46	0	0
C1315	04/28/46	0	0	C1335	02/10/46	8	6
C1315	05/26/46	8	0	C1336	03/24/46	2	1
C1316	09/23/45	7	0	C1336	04/07/46	0	1
C1316	12/16/45	4	0	C1336	05/05/46	0	0
C1316	02/10/46	0	0	C1336	06/09/46	4	8
C1316	07/21/46	5	1	C1336	06/30/46	0	0
C1317	05/05/46	0	0	C1336	07/07/46	3	1
C1317	07/28/46	0	0	C1337	08/31/46	0	10
C1318	07/08/45	7	5	C1338	08/19/45	16	0
C1318	07/15/45	12	0	C1338	10/28/45	0	4
C1319	09/02/45	18	0	C1338	11/11/45	0	0
C1319	09/02/45	1	0	C1338	01/06/46	3	4
C1319	01/20/46	2	0	C1339	03/03/46	0	0
C1320	03/17/46	0	0	C1339	03/31/46	2	12
C1321	07/08/45	1	9	C1340	08/18/46	0	0
C1322	08/26/45	3	7	C1341	12/30/45	44	40
C1322	11/18/45	9	9	C1341	01/27/46	0	0
C1322	12/09/45	2	5	C1341	02/24/46	6	0
C1323	04/07/46	0	4	C1342	02/03/46	3	0
C1323	06/23/46	0	0	C1342	03/31/46	0	0
C1324	08/18/46	0	1	C1342	05/26/46	1	7
C1325	08/05/45	0	0	C1343	08/18/46	0	2
C1326	10/21/45	10	0	C1344	05/26/46	0	2
C1326	12/16/45	0	4	C1345	02/17/46	2	0
C1327	02/17/46	2	3	C1345	06/09/46	0	0
C1327	04/14/46	3	10	C1346	08/04/46	0	3
C1327	06/30/46	0	0	C1347	02/10/46	2	7
C1327	08/04/46	3	0	C1347	03/17/46	0	0
C1328	07/15/45	3	3	C1347	04/07/46	3	0
C1329	08/26/45	47	31	C1347	04/14/46	5	0
C1329	12/23/45	0	0	C1347	05/12/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1347	06/09/46	5	0	C1380	03/17/46	0	2
C1348	07/28/46	0	0	C1381	06/09/46	1	3
C1348	08/31/46	0	4	C1381	08/04/46	0	9
C1349	06/09/46	0	0	C1382	11/04/45	0	0
C1350	08/04/46	0	0	C1382	01/06/46	0	6
C1351	02/24/46	0	0	C1382	03/03/46	0	3
C1351	06/16/46	1	0	C1382	03/31/46	4	8
C1352	04/14/46	3	0	C1383	04/21/46	0	2
C1353	08/04/46	0	0	C1383	05/19/46	0	0
C1354	06/09/46	5	0	C1383	08/18/46	2	0
C1355	02/24/46	3	0	C1384	11/18/45	0	12
C1355	05/19/46	10	0	C1384	02/03/46	0	2
C1356	07/14/46	0	0	C1384	03/31/46	0	0
C1357	02/24/46	0	0	C1385	07/21/46	0	2
C1357	04/21/46	0	4	C1386	03/03/46	0	0
C1357	06/16/46	12	3	C1387	03/10/46	4	0
C1358	08/11/46	6	3	C1388	05/05/46	0	0
C1359	05/05/46	0	0	C1388	07/28/46	8	0
C1359	06/30/46	0	0	C1389	04/28/46	0	0
C1360	08/25/46	0	0	C1389	06/16/46	0	0
C1361	07/07/46	0	0	C1389	08/18/46	3	0
C1362	08/31/46	1	0	C1390	12/02/45	1	0
C1363	04/07/46	0	0	C1390	02/24/46	0	0
C1364	08/25/46	4	0	C1390	04/21/46	0	0
C1367	01/13/46	0	0	C1391	05/12/46	0	1
C1367	04/14/46	2	8	C1391	06/16/46	0	0
C1368	05/19/46	0	0	C1392	04/14/46	10	10
C1369	07/28/46	2	0	C1393	12/02/45	4	1
C1370	07/14/46	0	0	C1393	01/27/46	0	0
C1371	10/21/45	4	0	C1393	03/24/46	0	0
C1372	03/31/46	0	0	C1394	06/09/46	0	0
C1373	11/25/45	4	7	C1394	08/31/46	0	0
C1373	01/20/46	0	0	C1395	12/02/45	6	5
C1374	08/04/46	2	0	C1396	05/12/46	0	0
C1375	03/10/46	8	7	C1396	07/07/46	0	0
C1376	04/28/46	2	5	C1396	08/18/46	0	0
C1376	06/30/46	0	0	C1397	12/09/45	5	0
C1376	08/25/46	0	0	C1397	03/03/46	0	0
C1377	12/02/45	2	6	C1397	04/28/46	0	0
C1377	03/17/46	5	3	C1398	06/23/46	1	0
C1378	07/14/46	0	0	C1398	08/18/46	0	0
C1378	08/11/46	0	0	C1399	03/03/46	2	0
C1379	07/07/46	0	2	C1400	07/07/46	0	0
C1380	11/25/45	0	8	C1400	07/28/46	0	4
C1380	01/20/46	0	7	C1401	12/23/45	5	6

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1401	02/17/46	0	2	C1425	06/09/46	1	2
C1402	11/25/45	0	0	C1425	08/04/46	0	2
C1402	01/20/46	0	0	C1426	02/10/46	0	3
C1402	03/17/46	0	4	C1426	03/03/46	0	2
C1403	05/12/46	1	0	C1426	04/07/46	0	5
C1403	08/18/46	4	0	C1427	06/02/46	0	0
C1404	06/02/46	4	0	C1427	07/28/46	0	1
C1404	07/28/46	3	0	C1428	02/24/46	0	1
C1405	12/16/45	12	0	C1429	06/09/46	1	1
C1406	06/30/46	6	3	C1430	06/09/46	0	1
C1406	08/25/46	3	0	C1431	07/28/46	0	0
C1407	03/03/46	2	5	C1432	02/17/46	4	12
C1408	08/18/46	7	3	C1432	04/14/46	0	0
C1409	01/13/46	14	22	C1433	06/16/46	0	0
C1409	02/10/46	4	6	C1434	01/13/46	10	12
C1409	05/05/46	0	0	C1434	03/31/46	0	0
C1410	06/02/46	0	0	C1434	05/26/46	0	0
C1410	06/23/46	1	0	C1435	08/18/46	2	0
C1410	07/28/46	5	0	C1436	03/17/46	0	0
C1410	08/25/46	3	1	C1437	07/07/46	6	0
C1411	01/13/46	0	2	C1438	05/12/46	0	1
C1411	03/17/46	0	0	C1439	07/08/45	0	0
C1411	05/12/46	2	3	C1439	08/26/45	5	0
C1412	08/04/46	2	0	C1439	10/28/45	3	3
C1413	05/05/46	0	0	C1440	01/27/46	0	0
C1414	06/30/46	0	0	C1440	02/24/46	6	4
C1414	08/25/46	0	5	C1440	03/10/46	0	10
C1415	06/02/46	0	1	C1440	03/24/46	13	21
C1416	03/03/46	5	4	C1440	04/21/46	1	0
C1416	03/31/46	5	3	C1440	05/19/46	0	0
C1416	04/28/46	0	0	C1441	07/14/46	5	2
C1417	06/30/46	0	0	C1441	07/14/46	0	0
C1417	08/25/46	0	0	C1441	08/11/46	5	0
C1418	02/24/46	0	0	C1441	08/25/46	0	0
C1418	03/24/46	0	6	C1442	07/08/45	0	0
C1418	05/12/46	0	0	C1443	06/16/46	10	8
C1419	12/30/45	4	8	C1444	12/09/45	1	15
C1419	01/27/46	0	0	C1444	03/31/46	3	0
C1419	03/17/46	2	2	C1445	07/28/46	0	0
C1420	02/10/46	0	11	C1446	02/03/46	5	1
C1421	06/09/46	0	0	C1446	03/24/46	0	0
C1422	03/03/46	0	0	C1446	05/19/46	0	0
C1422	05/19/46	0	4	C1447	07/15/45	24	20
C1423	08/31/46	0	0	C1447	08/12/45	0	0
C1424	03/17/46	0	15	C1447	11/04/45	0	37

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1448	06/02/46	0	0	C1469	03/03/46	3	2
C1449	06/02/46	0	0	C1469	04/07/46	0	3
C1449	07/28/46	0	3	C1470	10/28/45	8	4
C1450	12/09/45	5	1	C1470	11/18/45	13	7
C1450	02/10/46	0	0	C1471	05/19/46	0	1
C1450	04/07/46	0	1	C1471	07/07/46	0	1
C1451	08/26/45	103	53	C1472	10/14/45	0	3
C1451	08/26/45	17	5	C1472	12/09/45	4	19
C1451	10/21/45	0	1	C1472	02/17/46	6	0
C1452	07/14/46	0	2	C1473	08/12/45	8	16
C1453	12/09/45	5	4	C1474	07/14/46	0	0
C1453	02/03/46	8	3	C1475	12/02/45	4	0
C1453	03/31/46	1	0	C1475	01/27/46	0	0
C1453	05/26/46	0	0	C1475	03/31/46	0	3
C1454	08/26/45	6	6	C1476	08/12/45	0	0
C1454	10/14/45	0	0	C1476	10/07/45	6	6
C1455	06/09/46	0	6	C1477	10/07/45	2	0
C1455	08/04/46	2	6	C1477	02/10/46	0	0
C1456	07/15/45	0	0	C1478	03/03/46	6	5
C1456	08/26/45	0	0	C1478	07/28/46	0	0
C1456	09/30/45	0	0	C1479	09/02/45	0	0
C1456	11/18/45	8	0	C1479	11/11/45	0	0
C1457	12/30/45	2	0	C1479	02/10/46	6	0
C1457	02/17/46	0	0	C1480	07/01/45	0	0
C1457	04/14/46	0	0	C1481	07/08/45	0	0
C1458	09/02/45	1	1	C1481	08/26/45	0	13
C1458	10/07/45	2	10	C1481	10/21/45	0	0
C1459	07/21/46	5	0	C1482	01/13/46	9	0
C1460	01/20/46	0	0	C1483	05/05/46	0	6
C1460	05/05/46	0	8	C1484	08/12/45	4	11
C1461	10/14/45	0	0	C1484	10/28/45	0	0
C1462	07/21/46	0	1	C1485	12/30/45	0	4
C1463	12/09/45	3	2	C1485	03/24/46	3	3
C1463	02/03/46	0	0	C1485	05/19/46	0	4
C1463	03/31/46	0	4	C1486	07/14/46	0	3
C1463	05/26/46	0	0	C1486	08/31/46	0	0
C1464	10/28/45	0	0	C1487	06/24/45	0	52
C1465	03/24/46	0	5	C1488	06/10/45	9	9
C1465	08/11/46	3	1	C1488	08/26/45	6	0
C1466	10/14/45	0	12	C1489	09/16/45	0	1
C1466	01/20/46	5	0	C1490	09/30/45	0	0
C1467	07/08/45	9	1	C1490	12/02/45	9	0
C1468	06/02/46	0	8	C1490	02/10/46	2	0
C1468	07/28/46	1	0	C1491	05/19/46	2	0
C1469	02/03/46	0	0	C1491	07/14/46	0	0

TABLE A.1. (contd)

Record Code	Week-Ending Date	Thyroid Check Results		Record Code	Week-Ending Date	Thyroid Check Results	
		R	L			R	L
C1492	07/29/45	12	12	C1515	04/28/46	0	0
C1492	09/16/45	0	8	C1515	05/19/46	0	0
C1493	07/29/45	0	0	C1516	08/26/45	15	0
C1493	09/16/45	6	2	C1517	07/15/45	0	14
C1493	11/11/45	12	0	C1518	07/15/45	14	2
C1494	01/06/46	0	0	C1519	07/15/45	10	0
C1494	03/03/46	0	0	C1520	07/15/45	2	22
C1494	04/28/46	9	3	C1521	09/16/45	2	2
C1495	07/15/45	0	8	C1521	10/14/45	20	0
C1496	07/01/45	0	8	C1521	11/25/45	0	0
C1497	07/01/45	12	0	C1521	12/16/45	0	0
C1497	08/19/45	0	1	C1521	01/20/46	17	0
C1497	10/14/45	11	5	C1521	02/17/46	0	2
C1498	12/09/45	15	11	C1522	03/17/46	4	0
C1499	07/22/45	0	0	C1522	04/14/46	4	0
C1500	09/09/45	0	0	C1522	05/05/46	3	0
C1501	11/18/45	1	0	C1522	05/12/46	0	0
C1502	07/01/45	0	0	C1523	09/16/45	1	0
C1502	09/02/45	0	0	C1524	12/16/45	0	0
C1503	07/08/45	0	0	C1524	02/10/46	0	0
C1503	09/23/45	4	4	C1524	05/05/46	0	0
C1503	11/18/45	2	0	C1525	06/30/46	0	6
C1504	01/06/46	0	18	C1526	02/10/46	0	0
C1504	03/10/46	3	0	C1526	03/17/46	0	0
C1504	05/05/46	0	1	C1526	05/05/46	0	0
C1505	07/15/45	5	13	C1527	06/16/46	0	0
C1505	09/02/45	16	8	C1527	08/18/46	11	5
C1505	10/07/45	18	18	C1528	07/01/45	3	0
C1506	12/03/45	0	0	C1528	09/02/45	2	2
C1506	01/27/46	0	0	C1529	10/14/45	0	0
C1507	07/21/46	0	0	C1529	01/13/46	0	8
C1508	07/15/45	0	0	C1529	03/17/46	0	0
C1508	09/09/45	9	9	C1530	07/07/46	0	0
C1508	11/04/45	11	0	C1531	08/05/45	18	0
C1509	10/28/45	12	16	C1531	09/30/45	26	0
C1509	11/25/45	0	16	C1532	12/30/45	0	0
C1510	02/17/46	2	4	C1533	07/14/46	0	0
C1510	03/17/46	2	6	C1534	03/03/46	0	0
C1511	07/14/46	0	0	C1535	04/28/46	1	0
C1512	07/15/45	5	5	C1535	07/14/46	0	0
C1513	07/15/45	3	0	C1536	08/11/46	0	1
C1514	07/22/45	16	0	C1537	08/05/45	0	0
C1514	09/16/45	0	0	C1537	09/30/45	6	0
C1515	12/09/45	11	5	C1538	12/02/45	3	4
C1515	02/17/46	0	1	C1538	01/27/46	0	8

TABLE A.1. (contd)

Record Code	Week- Ending Date	Thyroid Check Results		Record Code	Week- Ending Date	Thyroid Check Results	
		R	L			R	L
C1538	03/24/46	0	3	C1542	05/05/46	0	0
C1538	05/19/46	0	6	C1542	06/02/46	4	8
C1539	08/11/46	0	6	C1542	06/30/46	0	0
C1540	07/01/45	0	0	C1542	07/21/46	0	0
C1540	09/30/45	1	0	C1542	07/28/46	1	0
C1540	11/25/45	4	6	C1542	08/25/46	0	0
C1541	07/15/45	2	0	C1543	08/18/46	2	0
C1541	10/07/45	2	0				

APPENDIX B

SUMMARY OF TSP COMMENTS AND BATTELLE RESPONSES

SUMMARY OF TSP COMMENTS AND BATTELLE RESPONSES

Document Number PNL-7254 HEDRDocument Title Evaluation of Thyroid Radioactivity Measurement Data from Hanford Workers, 1944-1946

Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
1.	J. Stohr	Page 16	The assumption that a "short" counting time constitutes 1 minute for each thyroid lobe may be too large a step to take, given the evidence presented in its support. "Short" could mean anything from 5 seconds to 5 minutes.	NA - For the purposes of this report, a 1-minute counting time was assumed because it was consistent with anecdotal recollections from the time period of interest and with procedures written during the early 1950s. Anecdotal recollections state a counting period in the general range of 1 to 5 minutes. A counting period much less than 1 minute is unlikely because of the relatively insensitive instrument and the resulting unsatisfactory counting statistics. A longer counting period is possible and would serve to improve the counting statistics and reduce the overall measurement uncertainty. However, from the range of most likely counting times, a 1-minute counting time maximizes the counting variability. The easily quantifiable, random error of the counting statistics is probably relatively small compared with the systematic errors of the counting process.
NA = No action.				

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Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
2.	JS		The uncertainty that exists with the thyroid count results leaves me thinking that it would be difficult to use any of this report in the HEDR Project.	We should be able to use these data in the future; however, because of the large uncertainty inherent in them it will be difficult to draw any quantitative conclusions from them. Because of the qualified assumptions that must be made (all environmental exposure, all adult males, all Richland residents etc.), measurements are probably limited to being used as qualitative indicators, e.g., checking the shape of the dose distributions or estimating the upper bound on doses. In summary, they are useable as a reasonability check, but not for definitive answers.
3.	A. Conklin		It appears impossible to differentiate between occupational exposure and exposure received at home. The uncertainties are extremely high.	NA - Correct. Certain assumptions would have to be made to further analyze these data (e.g., all iodine detected was due to environmental exposure). Such analysis is beyond the scope of this report.
NA = No action.				

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Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
4.	B. Shleien		Did the workers, or some of them, wear respirators at any time?	NA - Some workers did wear respirators in the facilities. The respirators were apparently standard U.S. Army issue assault masks, with cartridges designed for particulate filtration. It is unclear whether charcoal filters for iodine filtration were available, as anecdotal recollections from individuals employed in the late 1940s differ on this point and may be recalling even later years. Anecdotes do agree, however, on the fact that ventilation in the canyon buildings was very good during the 1940s, and there was very little airborne contamination. The amount of time masks were worn was also variable, depending on the individual, the type of work performed, and the stage of the processing. Masks were apparently never worn outside the facilities. Without documentation, it would be difficult to quantify or even make generalizations about mask usage in the facilities.
NA = No action.				

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Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
5.	M.A. Robkin	Page 18	I was somewhat taken aback by the assertion that only an even number of counts could be registered by a binary scaler. As I remember the binary scaler, odd numbers were not only possible, they were routine.	This is correct. The binary scalers used were capable of providing an indication of an odd number of counts. The text has been modified to reflect the change.
6.	Genevieve S. Roessler		The sparse number of measurements on any one individual is the most serious problem because you can't have any confidence that the measurement coincided with a time of high intake.	These data may very possibly have not hit the periods of greatest OCCUPATIONAL radioiodine exposure. However, occupational exposure is highly variable on the individual level as well as being beyond the HEDR scope. Nevertheless, the data were obtained during the period of largest environmental releases, and so would be generally indicative of the greatest potential for environmental exposure to radioiodines.
7.	GSR		All of these measurements show that there was a very real concern for radiation safety, especially with regard to iodine isotopes.	NA
8.	GSR		Is it really true that no instruments still exist like the ones that were used to make the measurements?	NA - There is no indication that such instruments still exist, nor are they included in a historical review of Hanford portable
NA = No action.				

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Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
9.	GSR		Since there was such an awareness of the possible uptake to the workers, was there a similar effort to measure any members of the public in these early days?	instruments published by PNL. The reference is Howell, W.P., et al. 1989. <u>A Historical Review of Portable Health Physics Instruments and Their Use in Radiation Protection Programs at Hanford, 1944 - 1988</u> . PNL-6980, Pacific Northwest Laboratory, Richland, Washington.
10.	GSR	Page 25	Where are the numbers for the 1944 measurements? Someone is sure to question why there are 278 measurements missing. Were these the high numbers?	NA - There were apparently no efforts to make thyroid measurements on the general population during this time period. This is beyond the scope of evaluation of Hanford worker thyroid data.
NA = No action.				

SUMMARY OF TSP COMMENTS AND BATTELLE RESPONSES

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Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
11.	GSR	Page 27	Why aren't the data available after August 1946?	<p>simply a tabulation error in the operating history. It should be remembered that the data used in this report are unofficial. The "phantom data" may have been the high numbers, but there is no way of making a determination on this.</p> <p>NA - The records for this report are considered unofficial. DuPont, the initial operating contractor, took all official records when the company left the Hanford Site on September 1, 1946 (page 13). The records we used were left behind by DuPont. After September 1, 1946, all thyroid counts were incorporated into each employee's personal information. The official thyroid count information subsequent to September 1, 1946, is available, but searching all the employee records for these data would be a difficult, time-consuming, and expensive task.</p>
12.	John E. Till	Page 10, Table 2	Is there a reference for these data?	Yes, all references for this table are included in the reference
NA = No	action.			

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Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
13.	JET	Page 16	A photograph of the old instrument would help.	section. Table 2 has been reformatted to include the references. NA - No photographs of this instrument are known to exist.
14.	JET	Page 19	Equation: The + sign should be raised. Also, why are equations not numbered in the report?	Agreed; correction was made. Equations were not numbered because there was no need to refer to them by number in text.
15.	JET	Page 28, Table 4	Why are we missing numbers (after 40), yet we report 38 as 0? Perhaps a footnote is needed. (Likewise Table 5.)	Only 11 thyroid check results are above 38 net CPM, out of nearly 8,000 results. To save space, only those values at which a result was recorded are included in the table. The table entry for 38 net CPM has been removed from the table, because there are no results at this value. Footnotes were added to Tables 4 and 5.
16.	JET	Page 32, para. 2, line 3	"... <u>these</u> data ..."	Text was changed.
17.	A. Slickpoo		How would this relate to the other years that may have had greater exposures?	NA - Comparison to radioiodine exposures in other years would
NA = No action.				

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Comment Number	Commenter	Page, Paragraph	Comment Summary	Resolution
				<p>require examining the thyroid check records of individuals during those years, as noted in the response to comment 11. The years 1945-47 (examined in this report) would be expected to be the years of highest potential environmental exposure, because the airborne radioiodine releases were highest in those years. Occupational exposures could be higher in other years, but this question is beyond the scope of the HEDR Project.</p>
<p>NA = No action.</p>				

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