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WEIGHTS AND TEMPERATURES OF SOME MICHIGAN BIRDS

Thesis

**Submitted to the Faculty of the Michigan State College
in Partial Fulfillment of the Requirements for the
Degree of Master of Science**

**by
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THESIS

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INTRODUCTION

Comparitively little is known about the weights and temperatures of birds as they exist in the wild state. In view of the lack of such data, the following work was begun in the fall of 1931. An exceptional opportunity for collecting data was made available through the bird banding station operated under the direction of Professor J. W. Stack at Michigan State College.

This station was inaugurated in 1923 by Professor Stack and has been active throughout each year with the exception of the summer session, from the last of June until the opening of college in the fall term, which is generally the third week in September.

Owing to the fact that the station has been in operation over such a long period of time, large numbers of birds tend to be attracted to this area by the constantly available food. Due to the elimination of many shrubs and trees about the campus, the annual number of birds caught has decreased during the last few years. Birds depend on the trees and shrubs for nesting sites, protection and food.

Linen trammel nets and traps are used to capture the birds, which are banded and released.

REVIEW OF HISTORY OF BIRD TEMPERATURE OBSERVATIONS

S. Prentiss Baldwin in his book "Physiology of the Temperature of Birds" states that Pembery (1898) summarized most of the work on mammalian and human temperature observed at that time, including also work on the physiology of bird temperature. Alexander Wetmore (1921) published his work "A Study of the Body Temperature of Birds" covering 327 species of birds totaling 1558 records. He also summarized the work of Eydoux and Souleyet (1838), Brown Sequard (1858), Martins (1858), Milne Edwards (1863), Sutherland (1899), Simpson and Galbraith (1905-1912), Hilden and Stenback (1916), Bergtold (1917), and Weber (1918) covering 89 species.

The work on bird temperatures up to 1921 was done more for the purpose of securing temperatures on a large number of families rather than on large numbers of any particular species.

Wetmore (1921) includes the conclusions of the following observers in his study. Simpson and Galbraith (1905-1912) from records of gulls, starlings, sparrow-hawks, a kestrel, thrushes, owls of several species, domestic fowls, ducks and pigeons. They found that birds normally active during the day showed a diurnal rhythm with a gradual rise in temperature reaching a maximum in the late afternoon and then gradually decreasing, reaching a minimum in the early morning. In nocturnal species the tendency was reversed, the bird reaching a maximum late at night with the minimum temperature during the day.

Hilden and Stenback (1916) by means of confining diurnal birds in a dark room and using artificial lights caused them to reverse their temperature rhythm, having the maximum at midnight and a minimum in the afternoon. When the birds were again allowed normal conditions they changed to their normal rhythm.

Wetmore concludes that large birds show a smaller daily range of variation in temperature than small birds. He based his conclusion on the work of Simpson and Galbraith (1905-1913), which gave the following ranges from maximum to minimum:

Thrush	7.5 degrees F.
Starlings	7.2 degrees F.
Domestic Fowl	1.9 degrees F.
Domesticated Duck	1.8 degrees F.

Wetmore believes that birds have a higher temperature in the summer than in the winter due to the longer day in summer, which provides a longer period of activity.

Martins (1858) noted a higher temperature in the female than in the male of the domestic duck. Simpson and Galbraith (1905-1913) also obtained similar results on birds of other species. Hilden and Stenback (1916) basing their conclusions on a few records of other species of birds found that the males had a higher temperature than the females. Wetmore agreed with the conclusions of Simpson and Galbraith by observing that females had a higher temperature than males, although he noted some exceptions.

Wetmore found that the females in the species

studied had a slightly higher temperature than the males, but in some species the males showed a decidedly higher temperature reading than the females. In some species the temperatures of the two sexes were approximately the same. Wetmore believed that the sex showing the higher temperature was also the one that incubates the eggs. His data bears out this conclusion. He discovered that passerine birds sharing these duties, the temperatures of both sexes were approximately the same. In shore birds Wetmore found that the male had a slightly higher temperature when both sexes set on the eggs.

Leon Gardner (1926) secured the temperatures of 24 species of nestling birds and found that under uniform conditions younger birds showed a lower temperature than those more fully developed. He also discovered that absence of the incubating parent, if prolonged, fatigue, hunger, illness or removal from the nest causes a decrease in the body temperature of the young bird.

S. Prentiss Baldwin (1932) by the use of a thermocouple arrangement has been able to secure very extensive records on the temperature of the Eastern House Wren. His observations led to the following conclusions:

1. The normal body temperature of the eastern house wren and other passeriform species is characterized by great variability.
2. Excitement, through its effect on activity and other functions, tends indirectly to increase the body temperature.

3. Under experimental conditions, the body temperature of adult birds is normally unaffected by fluctuations in air temperature so long as these fluctuations are not extreme and do not occur too rapidly.
4. Birds are more quickly and seriously affected by a rise in body temperature than by a lowering.
5. Variations in the rate of respiratory movements of adult birds are probably of significance in temperature regulation.
6. The skin temperature of passeriform birds is lower than that of the body, varies in different regions and is not in all cases the same in the two sexes.
7. There is a decided and rather abrupt daily rhythm of body temperature in passeriform birds.
8. Young eastern house wrens are distinctly poikilothermic in their temperature reactions.

REVIEW OF HISTORY OF BIRD WEIGHT OBSERVATIONS

Sidney R. Esten (1931) reviewed the work of William Van Gorder (1911-1923) who obtained records mainly on hawks and water birds, but he reported on some species which were also included in this thesis. Mr. and Mrs. Charles L. Whittle (1925-1930) took records of bird weights at Cohasset, Massachusetts and at Peterboro, New Hampshire. Mr. Whittle concluded that individual variation is too great to determine correct weight averages from records of a small number of birds. However, he found that chickadees seemed to be an exception to the rule.

Dayton Stoner (1928) observed the weights of young bank swallows from birth until they left the nest and found that their weight increased up to the 11 to 13th day, when a decrease was noted. He thought this was primarily due to a resorption of fat, which develops but gradually diminishes as the time for leaving the nest approaches. At the time of the initial flight the birds weigh more than the average adult.

Maurice Broun (1932) took the weight and also the wing measurement of several species of birds at Austin Ornithological Research Station in the fall of 1932. He states that the majority of the birds were weighed in the forenoon, when full crops might be expected. He states no conclusions on his work.

Mrs. Kenneth B. Weatherbee (1934) has taken records of weight, body length, wing, tail, tarsus and culmen of birds caught at Worcester, Massachusetts, and

at Pomfret, Connecticut, from 1932-1934. Her work was mainly on measurements of the different parts of the birds' bodies.

METHODS USED IN OBTAINING RECORDS OF BIRD WEIGHTS AND TEMPERATURES

The birds observed in these experiments were caught in the government type of sparrow trap or linen nets and then conveyed in carrying cages to the laboratory where they were weighed and their temperatures taken. Professor Stack sent specifications for the nets used, to the R.J. Ederer Company, Chicago, Illinois and they made the nets according to those used in Italy.

The time of capture of each bird was recorded in the data, but the length of its confinement in a cage at the laboratory varied depending on the time when the writer was able to attend it. This confinement no doubt produced a physiological effect on weight and temperature.

The scales used in obtaining weights were secured from the W.M. Welch Scientific Company, Manitowoc, Wisconsin and were checked with a set of Standard Weights from the Bureau of Standards, Washington, D.C. by Professor Snow of the Physics Department of Michigan State College. The range of error was found to be .2 gram. Plate I shows the scales used.

The first method used in obtaining weights was to put the bird into a cloth sack and fasten the sack onto the scales with a rubber band. This proved unsatisfactory, due

to the accumulation of fecal deposit and the absorption of atmospheric moisture by the cloth sack. Metal cones proved most satisfactory as they prevented absorption, could be easily cleaned and prevented the bird from moving. The animal was placed head first in the cone, which was placed upright on the scales by means of a support at the base. In securing the net weight it was necessary to deduct the weight of the metal band on the bird's leg and the weight of the metal cone. A list of these weights follow:

Cone #1 -----	45.7 grams
Cone #2 -----	92.4 grams
Bands #1,1a, & 2 -----	.1 gram
Band #3 -----	.2 gram
Band #4 -----	.3 gram

A picture of the cones used is found on plate II.

All weights were determined accurately to one-tenth of a gram. There was found to be a slight variation in the weight of the cones due to fluctuation in humidity and accumulation of dust. The values stated above represent the averages, since it was necessary to balance the scales and reweigh the cones frequently during the process of weighing.

The thermometer used was secured from the Will Corporation, Rochester, N.Y. It was guaranteed to be accurate and this method was used exclusively in gathering the data presented in this thesis.

Considerable individuality was shown by all species handled in their reaction to having their weight and temperature taken. Birds caught the first time seemed excited and reluctant to open their bills for the insertion of the thermometer. However, repeaters (birds caught several times during a period of six months) were generally docile and in many cases seized the thermometer in their bills, thereby facilitating the securing of their temperature.

Wetmore and Baldwin found a variation of several degrees between the temperatures of the esophagus and the proventriculus, due perhaps to the poor peripheral circulation of the former. In the data in this thesis the thermometer was inserted down to the region of the proventriculus. Since the instrument was so constructed that only a maximum temperature could be taken, the following data represent the maximum during the first three minutes following the insertion of the thermometer. It was found by taking the temperatures of birds over periods of from one to ten minutes that the reading reached a maximum during the first three minutes. Birds were held in such a way as to reduce body movement to a minimum. Since it was necessary to release the birds in order to study their migratory movements, no observations on pathological conditions or determination of sex could be made by means of post-mortem examinations.

STATISTICAL METHODS USED IN THIS THESIS

Standard deviation, probable error of the mean, coefficient of correlation, probable error of the difference and probable error of the coefficient of correlation were the statistical devices used in this thesis. Their formulas are as follows:

Standard deviation.

$$\sigma = \sqrt{\frac{\sum d^2}{N}} = i \sqrt{\frac{\sum f(d')^2}{\sum f} - \frac{(\sum fd')^2}{(\sum f)^2}}$$

Probable error of the mean.

$$P.E.M. = \frac{.6745 \sigma}{\sqrt{N}}$$

Coefficient of Correlation.

$$r = \frac{N \sum X'Y' - \sum X' \sum Y'}{N^2 \sigma_X \sigma_Y}$$

Probable error of the difference.

$$P.E.D = .6745 \sqrt{\frac{\sigma_1^2}{N_1} + \frac{\sigma_2^2}{N_2}}$$

Probable error of the coefficient of correlation.

$$P.E.r = .6745 \left(\frac{1-r^2}{\sqrt{N}} \right)$$

Terms used.

$\sum$	-----	Summation
f	-----	Frequencies
d', x', y'	-----	Deviation from a guessed mean
i	-----	Range of class interval
N	-----	Number of Records

Reference.

Statistical Methods

Mills

Henry Holt & Co.

PURPOSE OF THE PRESENT STUDY

S. Prentiss Baldwin and Alexander Wetmore have done the most extensive research on birds' temperatures. Wetmore obtained a few records on a large number of families, while Baldwin has confined most of his work to his study of the Eastern House Wren.

The writer hoped by a study of large numbers on several species to obtain accurate averages on weights and temperatures. It was also desired that some facts could be observed on diurnal and seasonal variation of weights and temperatures.

However, no accurate average could be obtained in some species due to the limited number captured.

POSSIBLE FACTORS INVOLVED IN STUDYING BIRD WEIGHTS AND TEMPERATURES

Before taking up a discussion of the data collected, it would be feasible to consider some of the factors that may be involved in the study of weights and temperatures.

The physical characters of the bird are involved in this study. In the animal kingdom the bird is considered to have the most rapid rate of metabolism, its katabolism being very high as compared with anabolism. Birds are partially able to regulate the heat of their bodies by producing heat in the contraction of muscles and the retention of heat by the insulating effect of their feathers. The bird has no sweat glands, but is able to regulate a high internal body temperature by the evaporation of moisture from the internal surfaces of the lungs and air sacs.

Breathing is very rapid, the muscles being active in expiration which is the reverse of the respiration of mammals. The blood is rich in haemoglobin which insures thorough oxygenation. The bird is a very alert creature and depends on its acutely developed organs of sight and hearing in securing food, escaping from enemies and in flying. The data indicates that birds have poorly developed olfactory organs. Since the bird's digestion is almost perfect there is a relatively small amount of fecal deposit.

All the data in this paper were obtained from studies of migratory species, therefore migration might be considered to have an effect on weight and temperature. Gadow defines migration as follows "Migration is the wandering of living creatures into another, usually distant, locality in order to breed there; this implies a return and the double phenomenon is annual. All other changes of abode are either sporadic, epidemic, or fluctuating within lesser limits."

There has been for several years considerable controversy as to the cause of migration. Rowan(1931) discusses in detail the generally accepted reasons for migration in his book "The Riddle of Migration". The causes as suggested by Rowan are;

- 1.The cold of winter requires more food to maintain the normal temperature and since there is a scarcity of food at this time, the birds are forced to leave their summer homes and migrate south.
- 2.Northward migration in the spring is due to the internal secretion of hormones. The mating instinct is also involved.
- 3.The ancestors of the present day birds were once forced to change their range in accordance with the advance and retreat of the glaciers. Migration may be an inherited periodical habit based on this change of range of the birds' ancestors.
- 4.Rowan considers another factor, that of the

ineffective violet ray radiation in Canada and farther north, during the winter season, which reduces the production of vitamin D - from ergosterol in the preen glands (situated at the base of the tail) and from fats in the feathers. The bird absorbs the vitamin D by passing its feathers through its bill while preening in the sunlight. Vitamin D is essential to the welfare of both young and adult animals and the lack of it produces rickets. Seed eating birds avoid rickets by becoming insectivorous in part or entirely during the rearing period.

5. Rowan considers the possibility of a cyclic phenomenon of the following type. Since birds require a certain amount of sunlight per annum, then to retain the health in winter they must either change their diet, move farther south or suffer the consequences. It is obvious that the movement farther south is the only suitable choice.

Some of the above theories may be without sufficient proof, since birds can secure enough food on their winter range and it is also possible for them to breed there without migrating north in the summer. At the bird's summer range courtship, nest-building, and the rearing of young takes place. They establish their winter range south, in direction, of their summer range. The distance separating the two ranges may vary from a few hundred miles to ten thousand, in the case of the Arctic

Tern, depending on the species.

Birds are considered to have the highest temperatures of the animal kingdom. For the purpose of comparison, temperatures quoted in "Handbook of Physiology" by Halliburton and McDowell (1930) are listed here. Since the Fahrenheit scale is used entirely throughout this paper, these temperatures have been transposed from the Centigrade scale.

	<u>Centigrade</u>	<u>Fahrenheit</u>
Human	36.5-37.5 degrees	98-99 degrees
Horse, Donkey, Ox	37.5-38.0 degrees	99.5-100.4 degrees
Dog, Cat	38.5-39.0 degrees	101.3-102.2 degrees
Sheep, Rabbit	38.0-39.5 degrees	100.4-103.1 degrees
Mouse	37.5 degrees	99.5 degrees
Rat	37.9 degrees	100.2 degrees
Birds	42.0 degrees	107.6 degrees

Data secured from Thompson's "Veterinary Lectures" have the following temperatures listed:

Horse	100-101 degrees F.
Cow	101-102 degrees F.
Sheep	103-104 degrees F.
Pig	102-103 degrees F.
Dog	101-102 degrees F.
Cat	100-101 degrees F.
Poultry	105-106 degrees F.

It is evident from these data that the bird has the highest temperature of the animals listed. Body temperature of any animal is regulated by the thermotaxic center, which is located in the brain. Since the physiological processes and functions are determined largely by temperature, the

limitation of temperature fluctuation to a certain range is necessary for the proper functioning and coordination of the physiological processes.

Birds are considered to be homothermic by all authors used as reference in this thesis. Mr. S. Prentiss Baldwin (1932) in his work on nestling house wrens found that the young birds were distinctly poikilothermic, but their development of temperature control is quite complete when the bird is nine days old, after which time it reacts as a homothermic animal. There are various factors affecting the temperature of the bird.

Baldwin found several interesting facts concerning temperature reactions through the use of special apparatus constructed under his supervision. The apparatus consists of a thermocouple arrangement by the use of which a bird's temperature can be taken under natural conditions over a period of days or months. Some of his conclusions drawn to a large extent from temperatures of the Eastern House Wren are as follows:

1. The temperature of the bird falls from a few tenths of a degree to three or four degrees in the first 3-6 minutes and rest temperatures can be obtained after a few minutes.
2. Increase in activity raises the temperature reading and a decrease lowers the temperature. This may vary several degrees.
3. Skin temperature varies in different parts of the body and is lower than the internal body temperature.

4. There is a decided daily rhythm of body temperature. Diurnal species reach a maximum at noon and a minimum at midnight. Nocturnal species have their maximum in the early morning and their minimum in the afternoon.

Factors which may have some affect on body temperature are:

1. Rate of metabolism
2. Excitement.
3. Atmospheric temperature probably has a slight effect by increasing or decreasing muscular activity.
4. Effect of food on metabolism.
5. Pathogenic conditions
6. Natural variations in individuals.
7. Sex.
8. Age.
9. Migration.

Factors possibly affecting body weight are:

1. Amount and kind of food eaten by the individual bird.
2. Size of bones and body.
3. Pathogenic conditions.
4. Rate of metabolism
5. Age.
6. Sex.
7. Migration.

TABLE I
INITIAL WEIGHTS OF SPECIES OBSERVED

Species Name	No. Incl.	Average (grams)	Minimum (grams)	Maximum (grams)
Virginia Rail	1	69.9		
Eastern Bob-White	6	194.4	177.1	206.5
Eastern Mourning Dove	21	130.8 $\pm$ 1.6	103.6	146.9
Eastern Hairy Woodpecker	1	62.1		
Northern Downy Woodpecker	5	27.1	26.2	28.9
Yellow-bellied Sapsucker	2	46.7	44.2	49.1
Red-headed Woodpecker	5	79.2	70.5	88.0
Northern Flicker	1	137.6		
Eastern Phoebe	1	16.9		
Eastern Wood Pewee	1	13.1		
Yellow-bellied Flycatcher	2	11.9	11.8	12.0
Alder Flycatcher	1	8.8		
Northern Blue Jay	30	84.0 $\pm$.7	70.4	96.3
Eastern Cowbird	41	46.0 $\pm$.5	34.3	53.9
Baltimore Oriole	4	32.7	28.9	38.1
Bronzed Grackle	143	105.2 $\pm$.7	83.5	137.0
Eastern Goldfinch	11	12.8 $\pm$.2	11.4	14.0
Northern Pine Siskin	1	13.6		
White-crowned Sparrow	48	32.1 $\pm$.3	22.9	38.7
Gambel's Sparrow	1	27.1		
White-throated Sparrow	375	27.2 $\pm$.1	19.1	34.5
Eastern Tree Sparrow	3	16.6	15.4	18.5
Eastern Chipping Sparrow	19	13.0 $\pm$.3	10.3	19.7
Eastern Field Sparrow	1	12.1		
Slate-colored Junco	597	19.5 $\pm$.1	14.7	27.6

TABLE I continued

Species Name	No. Incl.	Average (grams)	Minimum (grams)	Maximum (grams)
Mississippi Song Sparrow	77	20.6 $\pm$.1	17.3	25.2
Lincoln's Sparrow	8	18.5	15.2	20.1
Swamp Sparrow	2	16.9	16.4	17.4
Eastern Fox Sparrow	5	39.5	30.4	45.5
Red-eyed Towhee	6	40.7	35.2	45.1
Eastern Cardinal	23	44.6 $\pm$.6	34.6	53.2
Rose-breasted Grosbeak	2	44.8	43.9	45.7
Bank Swallow	20	14.0 $\pm$.1	12.7	17.5
Cedar Waxwing	3	35.7	34.6	36.8
Blue-headed Vireo	1	14.4		
White-eyed Vireo	1	11.3		
Black and White Warbler	2	9.7	9.5	9.9
Magnolia Warbler	3	10.6	9.0	11.7
Chestnut-sided Warbler	1	8.3		
Oven-bird	5	18.9	16.8	22.7
Mourning Warbler	3	11.0	10.3	11.7
Canada Warbler	2	9.5	8.8	10.1
American Redstart	2	7.5	7.0	7.9
Oatbird	10	35.1 $\pm$.5	31.2	39.0
Brown Thrasher	16	71.8 $\pm$.7	65.1	82.3
Eastern House Wren	2	9.8	9.3	10.2
Brown Creeper	3	8.7	8.0	9.2
White-breasted Nuthatch	12	21.3 $\pm$.1	19.6	22.9
Red-breasted Nuthatch	1	8.7		
Tufted Titmouse	4	21.7	19.3	23.9

TABLE I continued

<u>Species Name</u>	<u>No.</u>	<u>Average</u>	<u>Minimum</u>	<u>Maximum</u>
	<u>Incl.</u>	<u>(grams)</u>	<u>(grams)</u>	<u>(grams)</u>
Black-capped Chickadee	19	10.3 $\pm$.1	9.2	11.2
Eastern Golden-crowned Kinglet	9	6.5	6.0	6.9
Eastern Ruby-crowned Kinglet	5	6.4	6.1	6.6
Wood Thrush	1	47.7		
Veery	1	35.9		
Olive-backed Thrush	23	32.0 $\pm$.1	24.6	39.4
Eastern Hermit Thrush	44	29.0 $\pm$.2	23.8	35.3
Eastern Robin	54	74.1 $\pm$.5	62.3	90.6

TABLE II

INITIAL TEMPERATURES OF SPECIES OBSERVED

Species Name	No. Incl.	Average (degrees)	Minimum (degrees)	Maximum (degrees)
Eastern Bob-white	6	107.2	107.3	108.5
Eastern Mourning Dove	18	107.6 $\pm$.2	105.3	109.5
Eastern Hairy Woodpecker	1	106.6		
Northern Downy Woodpecker	3	107.3	106.9	107.6
Yellow-bellied Sapsucker	2	108.5	107.6	109.3
Red-headed Woodpecker	4	108.4	107.0	109.3
Northern Flicker	1	104.7		
Eastern Phoebe	1	107.9		
Northern Blue Jay	26	109.6 $\pm$.1	107.7	111.6
Eastern Cowbird	38	110.2 $\pm$.1	107.9	111.4
Baltimore Oriole	3	107.1	103.4	109.4
Bronzed Grackle	128	110.4 $\pm$.1	106.9	112.7
White-crowned Sparrow	39	109.0 $\pm$.1	105.9	110.8
Gambel's Sparrow	1	109.5		
White-throated Sparrow	245	109.7	106.2	112.7
Eastern Tree Sparrow	2	110.8	110.0	111.5
Eastern Chipping Sparrow	15	109.5 $\pm$.2	106.8	110.8
Slate-colored Junco	368	109.2	104.0	113.6
Mississippi Song Sparrow	64	109.6 $\pm$.1	102.0	112.0
Lincoln's Sparrow	4	108.3	104.5	110.1
Swamp Sparrow	2	110.2	108.9	111.5
Eastern Fox Sparrow	5	109.1	107.2	110.4
Red-eyed Towhee	3	109.7	109.0	110.0

TABLE II continued

Species Name	No. Incl.	Average (degrees)	Minimum (degrees)	Maximum (degrees)
Eastern Cardinal	14	109.7 $\pm$.2	106.0	112.0
Rose-breasted Grosbeak	1	108.1		
Bank Swallow	31	109.1 $\pm$.2	104.5	111.1
Magnolia Warbler	2	109.1	108.4	109.7
Oven-bird	3	108.5	107.5	109.7
Catbird	7	109.0	107.8	110.0
Brown Thrasher	13	109.8 $\pm$.2	108.2	111.3
White-breasted Nuthatch	7	108.7	106.8	110.0
Red-breasted Nuthatch	1	102.7		
Tufted Titmouse	2	108.2	108.1	108.3
Black-capped Chickadee	11	108.1 $\pm$.4	104.1	111.3
Olive-backed Thrush	18	109.8 $\pm$.2	107.9	112.1
Eastern Hermit Thrush	28	109.2 $\pm$.2	104.3	110.9
Eastern Robin	48	109.5 $\pm$.1	105.2	115.8

CONSIDERATION OF INITIAL WEIGHTS AND TEMPERATURES

Initial readings are those taken the first time a bird is captured. It should be kept in mind that the data in this thesis was not obtained under constant conditions, but from mature birds under natural conditions.

In table I there is a list of the average, maximum and minimum weights of the 58 species observed in this thesis. There is a fairly large range in the weight of some species due probably to individual differences and the fluctuating abundance in available food. Considering the ten species having the largest number of weights recorded, the following ranges were found:

<u>Species</u>	<u>Records</u>	<u>Range</u>
Slate-colored Junco	597	12.9 grams
White-throated Sparrow	375	15.4 grams
Mississippi Song Sparrow	77	7.9 grams
Bronzed Grackle	143	53.5 grams
Eastern Cowbird	41	19.6 grams
Northern Blue Jay	30	25.9 grams
White-crowned Sparrow	48	15.8 grams
Eastern Robin	54	28.3 grams
Eastern Hermit Thrush	44	11.5 grams
Eastern Cardinal	23	18.6 grams

Range is the mathematical difference between the maximum and the minimum for the species.

Among the causes of variability may be listed immaturity, sex differences, malnutrition and glandular disturbances. Since the distribution of weights was of the

normal type, the range may be due largely to individual characteristics. Since it was impossible to fully determine immature individuals, no assumption can be made on the effect of immaturity on weight range.

Table II gives the average, maximum and minimum temperature of the species observed. It should be noted that temperatures fluctuate. Other observers have found that a bird's temperature may vary as much as ten degrees over the period of a single day.

The following ten species give some indication of the ranges in temperatures of birds:

<u>Species</u>	<u>Records</u>	<u>Range</u>
Slate-colored Junco	368	9.6 degrees
White-throated Sparrow	245	6.5 degrees
Mississippi Song Sparrow	64	10.0 degrees
Bronzed Grackle	128	5.8 degrees
Eastern Cowbird	38	3.5 degrees
Northern Blue Jay	26	3.9 degrees
White-crowned Sparrow	39	4.9 degrees
Eastern Robin	48	10.6 degrees
Eastern Hermit Thrush	28	6.6 degrees
Eastern Mourning Dove	18	4.2 degrees

This variability may be a character inherited from the bird's reptilian ancestors. This, however, remains to be proven. The studies made for this thesis were not broad enough in scope to attribute the variation to any one factor or group of factors. The variation found in the data presented in this thesis may possibly be due to inclusion of immature individuals

not having reached the age of temperature control. However since immature individuals can be determined in many of the species studied which have a decided variability in temperature, this factor can hardly be considered as important in all species.

In computing the correlation between average weight and average temperature of the ten representative species of birds giving a normal range from small to the large birds found in the following paragraph a coefficient of $-.30-.186$ is obtained. This coefficient is low and is not statistically significant, but it suggests there may be a tendency for larger birds to have a lower body temperature than smaller birds. The writer's data fail to demonstrate this point. No investigator known to the writer has attempted to correlate weight with temperature.

The ten species studied in obtaining the coefficient of correlation for weight and temperature are:

<u>Species</u>	<u>Average weight</u>	<u>Number of Records</u>	<u>Average Temperature</u>	<u>Number of Records</u>
Slate-colored Junco	19.5 grams	597	109.2 degrees	368
White-throated Sparrow	27.2 grams	375	109.7 degrees	245
Mississippi Song Sparrow	20.6 grams	77	109.6 degrees	64
Bronzed Grackle	105.2 grams	143	110.4 degrees	128
Eastern Cowbird	46.0 grams	41	110.2 degrees	38
Northern Blue Jay	84.0 grams	30	109.6 degrees	26
White-crowned Sparrow	32.1 grams	48	109.0 degrees	39
Eastern Robin	74.1 grams	54	109.5 degrees	48
Eastern Hermit Thrush	29.0 grams	44	109.2 degrees	28
Eastern Mourning Dove	130.8 grams	21	107.6 degrees	18

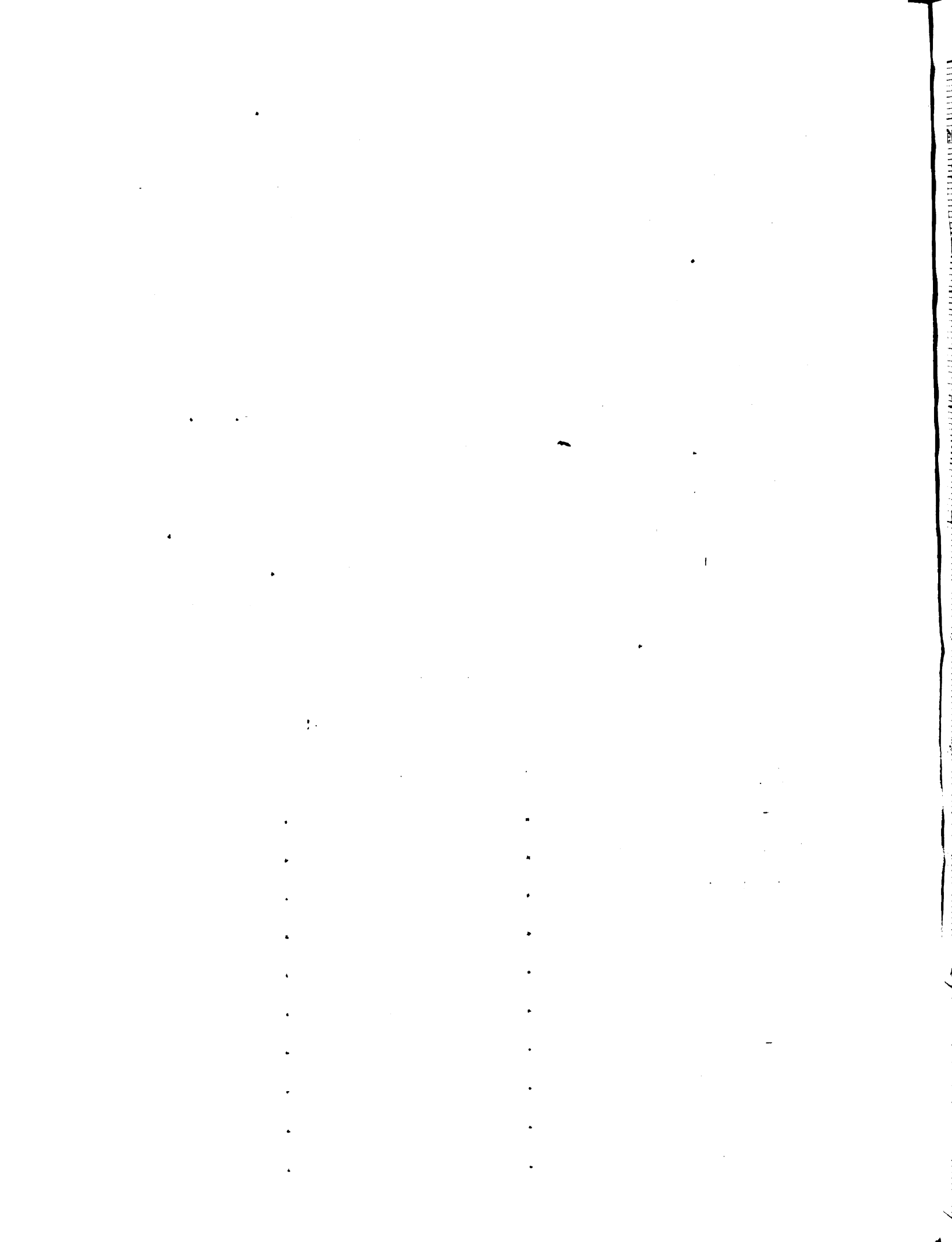
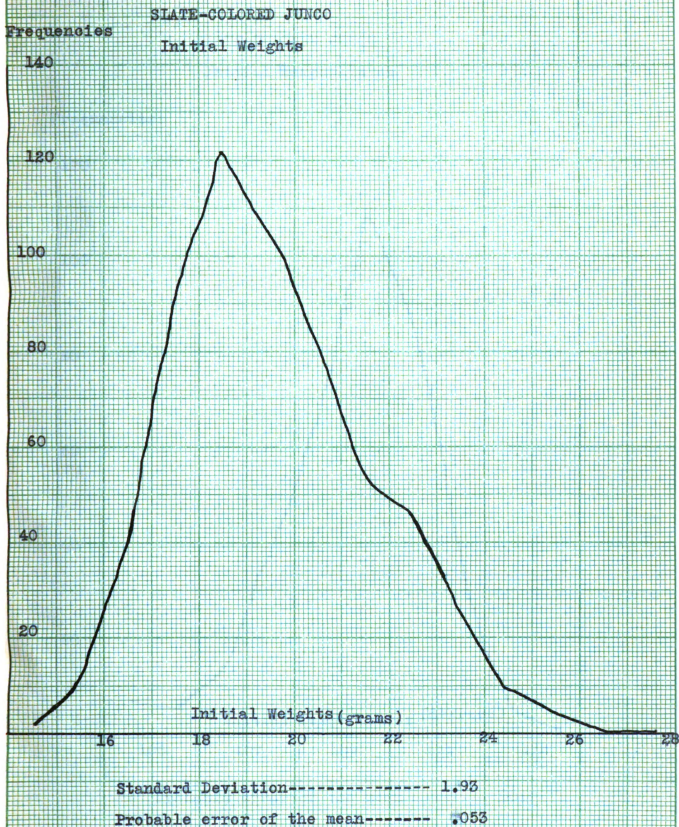


Figure 1.



MICHIGAN STATE COLLEGE

Figure 2.

SLATE-COLORED JUNCO

Initial Temperatures

Frequencies

120

100

80

60

40

20

Initial Temperatures (degrees)

105

107

109

111

113

Probable error of the mean----- .049

Standard deviation----- 1.38

Figure 3.
WHITE-THROATED SPARROW
Initial Weights



Probable error of the mean-----0.09
Standard deviation-----2.61

Figure 4.

WHITE-THROATED SPARROW

Initial Temperatures

Frequencies

100

80

60

40

20

Initial Temperatures (degrees)

107

108

109

110

111

112

Probable error of the mean----- .043

Standard deviation-----1.00

Figures # 1,2,3,4,5,6 give the frequency curves of the initial weights and temperatures of the Slate-colored Junco, White-throated Sparrow and Mississippi Song Sparrow. Figure # 7 is the curve of Bronzed Grackle initial temperatures. No graph of the initial weights of the Bronzed Grackle has been included since the number of frequencies over such a large range makes a very unsatisfactory curve for the purpose of study.

Figure #1 shows the asymmetrical curve of the initial weights of the Slate-colored Junco. With a record of 597 individuals it would be expected that the curve would more nearly approach the normal type of distribution. The concentration of birds in the lower weights might be explained by the predominance of immature individuals or of the lighter sex. Since there is no decided method, except autopsy, of determining immaturity or sex, no definite factor can be cited to account for the skewness of the weight curve.

Figure #2 of the initial temperatures of Slate-colored Juncos very closely approaches the normal curve of probability, as might be expected from the record of 368 individuals.

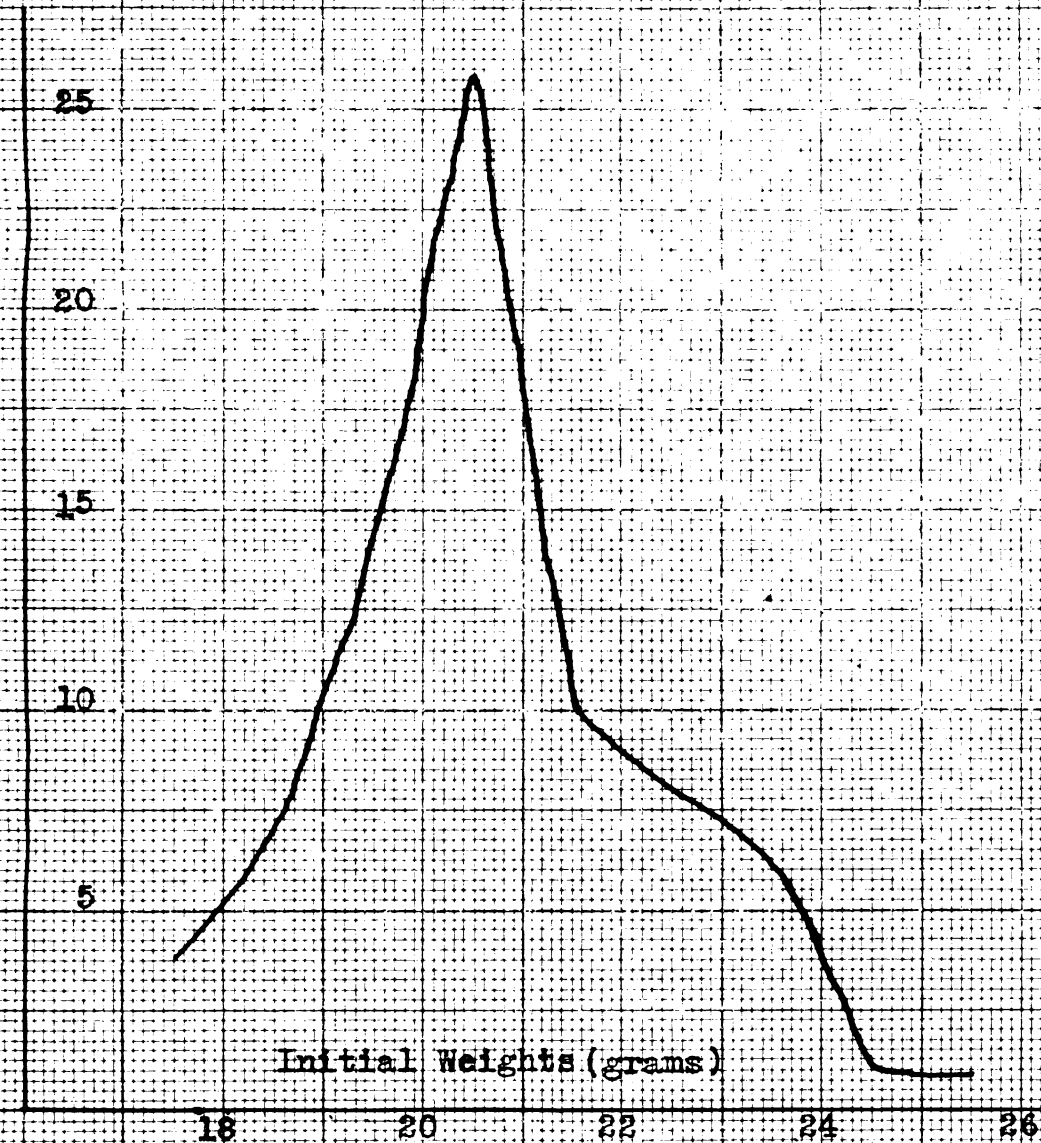
Figure #3, showing the distribution of the initial weights of the White-throated Sparrow and Figure #4, showing the curve of the initial temperatures of the White-throated Sparrow both closely approach the normal curve expected. Slight variations may be due to the small numbers of records and the time of day at which the records were taken. The bimodality of curve #3 suggests that some birds were weighed

Figure 5.

MISSISSIPPI SONG SPARROW

Initial Weights

Frequencies



Probable error of the mean-----1.115

Standard deviation-----1.496

Figure 6.

MISSISSIPPI SONG SPARROW

Initial Temperatures

Frequencies

25

20

15

10

5

Initial Temperatures (degrees)

103

105

107

109

111

113

Probable error of the mean-----1.298

Standard deviation-----1.54

Figure.7.

BRONZED GRACKLE

Initial Temperatures

Frequencies

40

30

20

10

Initial Temperatures(degrees)

107

108

109

110

111

112

Probable error of the mean-----0.062

Standard deviation-----1.04

before and others after a heavy feeding, but since none of the other weight curves show bimodality this is not a logical explanation. The writer is unable to account for this bimodality of curve #3.

Figure # 5 shows a predominance of lower weights in the initial records of the Mississippi Song Sparrow. Whether this is fullness of crop in the heavier animals can not be determined. Perhaps some other factor is involved.

Figure # 6 of the initial temperatures of the Mississippi Song Sparrow is asymmetrical in distribution. This may possibly be due to pathological conditions giving temperatures below 107 degrees.

Figure # 7 of the initial temperatures of the Bronzed Grackle approaches the normal curve of probability with the exception of temperatures below 108 degrees which are relatively few. This might be attributed to pathological conditions.

In the study of initial weights and temperatures the records were taken under the natural conditions in which the bird lives. There were no control methods used to determine the factors involved and their importance. Any factors which the author has discussed have not been isolated and studied.

TABLE III
DIURNAL VARIATION IN WEIGHT

Slate-colored Junco

<u>Band Number</u>	<u>Time of day</u>	<u>Average Weight</u>	<u>Number of Individuals</u>
c30788	A.M.	16.4	1
	P.M.	17.4	7
c30793	A.M.	16.7	3
	P.M.	17.0	8
c30796	A.M.	16.8	5
	P.M.	17.3	9
c30810	A.M.	16.9	7
	P.M.	17.5	18
c30827	A.M.	16.4	1
	P.M.	17.8	10
c30838	A.M.	16.9	3
	P.M.	17.8	9
c30967	A.M.	19.6	3
	P.M.	19.7	8
c30999	A.M.	20.0	9
	P.M.	20.4	3
f78026	A.M.	15.6	8
	P.M.	15.9	8
f78044	A.M.	18.2	9
	P.M.	18.5	13
f78122	A.M.	15.6	19
	P.M.	15.7	19
a182132	A.M.	17.7	5
	P.M.	19.8	8
f78422	A.M.	18.7	2
	P.M.	19.8	8
b90438	A.M.	19.5	3
	P.M.	20.5	2

TABLE III continued

Band Number Time of day Average Weight Number of Individuals

White-throated Sparrow

c30744	A.M.	21.5	4
	P.M.	21.1	6
c30749	A.M.	17.8	5
	P.M.	19.6	9
c30799	A.M.	19.0	4
	P.M.	20.4	5
c30815	A.M.	21.6	4
	P.M.	20.7	3
c30825	A.M.	24.8	13
	P.M.	25.1	29
c30828	A.M.	27.1	4
	P.M.	28.8	3
c30304	A.M.	26.4	13
	P.M.	28.0	15
c30352	A.M.	26.9	5
	P.M.	26.5	2
a173829	A.M.	23.3	3
	P.M.	22.3	7

Mississippi Song Sparrow

f78003	A.M.	19.6	5
	P.M.	19.7	6

Eastern Cowbird

a256781 Male	A.M.	47.2	5
	P.M.	47.0	7

Northern Blue Jay

107829	A.M.	90.0	5
	P.M.	87.9	3

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10	11	12

DIURNAL VARIATION IN WEIGHT

One determination of weight or temperature for an individual bird tells us nothing about its diurnal variation. Hence it is desirable to study the data for repeaters, i.e., those which were captured ten or more times. Records taken from 8-10 A.M. are considered as morning records and those from 4-6 P.M. are considered as afternoon records in this discussion. The selection of these two periods with an interval between of six hours eliminates any chance of confusing the data, since it was possible that some birds caught in the morning might not have been weighed until early afternoon and this confinement would affect the data. There is no overlapping of morning and afternoon records with the interval selected in this work.

From a study of table III it can be seen that all of the Slate-colored Junco repeaters show a gain in weight in the afternoon over the morning record. The gains range from a minimum of .1 gram to a maximum of 2.1 grams. One possible explanation for this gain may be that the afternoon records were taken after feeding.

The White-throated Sparrows show a great deal of variability, some birds showing a gain in weight and others a loss in the afternoon records as compared with those of the morning. This loss may possibly be accounted for by the small number of records obtained. It would be interesting to secure a large number of records on repeaters and determine the actual state that exists in the case of the White-throated Sparrows.

Table III has the Mississippi Song Sparrow showing a slight gain in weight and the Eastern Cowbird and Northern Blue Jay showing a loss in the afternoon records as compared with those of the morning. With a small number of records it is inaccurate to draw any definite conclusions. A larger number of records should be taken to determine whether there is a gain or loss in the afternoon as compared with the morning records.

Bird numbered c30825 is an interesting case since it repeated 57 times from Oct. 11, 1931 to December 1, 1931. This bird had a growth covering one-half of its right eye and one of its legs was paralyzed. These physical handicaps explain why it depended on going into the traps for food. It was very quiet, when handled, and did not seem excited at any time. Its weight seemed quite constant on the records obtained throughout the day.

Variation might possibly depend on kind and amount of food eaten by the bird during the day and the activity of the bird.

TABLE IV
DIURNAL VARIATION IN TEMPERATURE

Slate-colored Junco

<u>Band Number</u>	<u>Time of day</u>	<u>Average Temperature</u>	<u>Number of Individuals</u>
c30788	A.M.	109.0	1
	P.M.	109.9	7
c30793	A.M.	111.5	3
	P.M.	110.0	8
c30796	A.M.	110.4	5
	P.M.	111.0	9
c30810	A.M.	110.2	7
	P.M.	110.7	18
c30838	A.M.	110.4	3
	P.M.	110.1	9
c30967	A.M.	110.5	3
	P.M.	110.3	8
c30999	A.M.	109.7	9
	P.M.	110.5	3
f78026	A.M.	110.0	9
	P.M.	111.2	7
f78044	A.M.	110.3	11
	P.M.	110.7	13
f78122	A.M.	110.0	17
	P.M.	111.0	19
a182132	A.M.	110.7	5
	P.M.	110.6	6
b90438	A.M.	110.6	3
	P.M.	111.3	2

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

TABLE IV continued

Band Number Time of day Average Temperature Number of Individuals

White-throated Sparrow

c30744	A.M.	109.0	4
	P.M.	109.9	6
c30749	A.M.	109.1	5
	P.M.	110.7	9
c30799	A.M.	109.1	3
	P.M.	109.8	5
c30815	A.M.	109.1	4
	P.M.	109.2	3
c30825	A.M.	110.6	13
	P.M.	110.8	29
c30828	A.M.	109.7	4
	P.M.	109.4	3
c30304	A.M.	109.2	2
	P.M.	110.3	3

Mississippi Song Sparrow

f78003	A.M.	109.2	5
	P.M.	110.9	6

Eastern Cowbird

a256781 (Male)	A.M.	111.2	5
	P.M.	111.7	7

Northern Blue Jay

107829	A.M.	110.7	5
	P.M.	110.5	3

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DIURNAL VARIATION IN TEMPERATURE

From a study of the diurnal variation in temperature of the Slate-colored Junco in Table IV it can be seen that some individuals show a gain and others a loss in the afternoon records as compared with those of the morning. This statement also holds true in the case of the White-throated Sparrow. The single records of the Mississippi Song Sparrow and the Eastern Cowbird both show gains in the afternoon period. The single record of the Northern Blue Jay shows a slight loss in temperature in the afternoon records as compared with those of the morning. Temperature has already, in this thesis, been noted to be highly variable so the only possible conclusion is that some birds show a loss and others a gain in the afternoon temperature records as compared with the morning records.

Simpson and Galbraith (1905-1912) and Baldwin (1932) found the temperatures to be at a maximum in the afternoon. As in the case of weights, in order to secure conclusive results, it would be necessary to make records frequently during the day on the same individuals over a long period of time. This is not possible under natural conditions since the birds do not reenter the traps regularly. The studies of Baldwin (1932) were made by use of special apparatus on the Eastern House Wren. A thermocouple was connected to the bird's nest and a record was secured throughout the day over a long period of time. Baldwin (1932) and Wetmore (1921) have found that an individual's temperature may vary several degrees during the day.

TABLE V

AVERAGE WEIGHTS AND TEMPERATURES OF REPEATERS

Slate-colored Junco

<u>Band Number</u>	<u>Average Weight</u>	<u>Number of Records</u>	<u>Average Temperature</u>	<u>Number of Records</u>
c30788	16.9 grams	13	109.9 degrees	13
c30793	16.8 grams	15	110.5 degrees	14
c30796	17.3 grams	16	110.8 degrees	16
c30810	17.2 grams	31	110.4 degrees	31
c30827	17.4 grams	14	110.8 degrees	13
c30838	17.6 grams	15	110.2 degrees	15
c30869	16.8 grams	10		
c30957	19.6 grams	16	110.1 degrees	16
c30968	21.9 grams	21	110.4 degrees	20
c30999	20.1 grams	13	109.9 degrees	13
f78026	15.7 grams	16	110.5 degrees	16
f78044	18.3 grams	23	110.6 degrees	25
f78122	15.6 grams	38	110.6 degrees	36
a182078	18.4 grams	11		
f78289	18.0 grams	10		
a182132	19.0 grams	24	110.9 degrees	18
f89442	19.3 grams	21	110.9 degrees	13
b90438	20.6 grams	10	110.4 degrees	9

TABLE V continued

Band Number	Average Weight	Number of Records	Average Temperature	Number of Records
White-throated Sparrow				
c30744	21.4 grams	13	109.3 degrees	13
c30749	19.1 grams	21	110.0 degrees	21
c30799	19.5 grams	13	109.5 degrees	12
c30815	21.5 grams	10	109.1 degrees	10
c30825	24.6 grams	57	110.6 degrees	56
c30828	28.4 grams	12	109.8 degrees	12
c30304	27.1 grams	35	110.0 degrees	6
c30352	25.2 grams	13		
a173829	23.2 grams	11		
Mississippi Song Sparrow				
f78003	19.7 grams	11	110.1 degrees	11
b90414	20.0 grams	10	110.9 degrees	10
Eastern Cowbird				
a256781 (Male)	47.1 grams	12	111.5 degrees	12
Northern Blue Jay				
107829	90.3 grams	13	110.4 degrees	13
Black-capped Chickadee				
c30930	10.9 grams	12	109.5 degrees	12

CONSIDERATION OF AVERAGE WEIGHTS AND TEMPERATURES OF REPEATERS

Table V shows the average weights and temperatures of repeaters (those caught 10 or more times). The majority of the Slate-colored Junco and White-throated Sparrow repeaters show a weight average less than the average determined for the whole species record. The sample of the whole species includes birds caught one or more times, so for this larger group a different average weight might be expected. The Mississippi Song Sparrow repeaters are also both under the average weight determined for the sample of the whole species. The Eastern Cowbird, Northern Blue Jay and Black-capped Chickadee have higher average weights in repeaters than in the sample for the entire species.

The author is unable to explain why repeater average weights are, in general, lower than those of the whole species sample. The variation in number of records of repeats as compared with the whole species sample may possibly be a factor. Possible preponderance of one sex in either sample may also be a factor.

In considering the temperatures in table V, we find in the case of the majority of the birds of each species that the repeater average temperature is higher than the sample for the whole species. Since temperature has already been noted to be highly variable, the writer is unable to explain the variation other than possibly being due to the variation in the number of records of the repeater and whole species sample.

Wise

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TABLE VI

COMPARISON OF AUTHOR'S WEIGHTS
WITH OTHER OBSERVERS

Species	Number of Records	Average Weight	Observer
Brown Creeper	3	8.7 grams	Becker
	1	6.6 grams	Maurice Broun
Black-capped Chickadee	19	10.3 grams	Becker
	1	10.0 grams	Maurice Broun
	58	11.1 grams	Mrs. Wetherbee
Eastern Golden-crowned Kinglet	9	6.5 grams	Becker
	1	7.3 grams	Maurice Broun
Eastern Ruby-crowned Kinglet	5	6.4 grams	Becker
	1	5.8 grams	Maurice Broun
Red-eyed Towhee	6	40.7 grams	Becker
	1	36.97 grams	Maurice Broun
	14	40.6 grams	Mrs. Wetherbee
Eastern Tree Sparrow	3	16.6 grams	Becker
	2	17.4 grams	Maurice Broun
	48	19.59 grams	Mrs. Wetherbee
Eastern Chipping Sparrow	19	13.0 grams	Becker
	4	12.9 grams	Maurice Broun
	97	12.53 grams	Mrs. Wetherbee
	14	13.00 grams	Whittle
White-throated Sparrow	375	27.2 grams	Becker
	1	22.5 grams	Maurice Broun
	10	29.9 grams	Whittle
	4	27.26 grams	Mrs. Wetherbee
Swamp Sparrow	2	16.9 grams	Becker
	1	15.7 grams	Maurice Broun

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TABLE VI continued

Species	Number of Records	Average Weight	Observer
Downy Woodpecker	5	27.1 grams	Becker
	1	27.0 grams	Whittle
	3	28.1 grams	Mrs. Wetherbee
Northern Blue Jay	30	84.0 grams	Becker
	2	95.0 grams	Whittle
	44	89.22 grams	Mrs. Wetherbee
Eastern Cowbird	41	46.0 grams	Becker
	9	42.76 grams	Whittle
White-crowned Sparrow	48	32.1 grams	Becker
	3	30.8 grams	Whittle
	7	31.27 grams	Mrs. Wetherbee
Eastern Fox Sparrow	5	39.5 grams	Becker
	6	40.2 grams	Whittle
	16	40.28 grams	Mrs. Wetherbee
Eastern Robin	54	74.1 grams	Becker
	2	83.5 grams	Whittle
	16	76.6 grams	Mrs. Wetherbee
Slate-colored Junco	597	19.5 grams	Becker
	13	21.0 grams	Whittle

COMPARISON OF WRITER'S DATA WITH THOSE OF
OTHER OBSERVERS

Table VI gives the average weights of 16 species observed by Maurice Broun, Mrs. Wetherbee, Charles Whittle and the writer. The average weights of the other observers vary from the same reading to as much as 11 grams as compared with the writer's averages. Since the scales used in the data records of this paper were accurately checked by standard weights this difference can not be accounted for by any inaccuracy of the writer's scales.

From a study of Table I it is noted that all species are somewhat variable in their weights in some cases reaching a range of 53.5 grams. These variations in the average weights of the previously named observers as compared with the writer's could easily be explained as within the possible range for the species. The small number of records in some cases would give more importance to that particular average than it deserved. Only by the use of a large number of records can an accurate average be found.

It is interesting to note the difference in weight between the subspecies of the Song Sparrow.

<u>Species</u>	<u>Average Weight</u>	<u>No. of Records</u>	<u>Observer</u>
Eastern Song Sparrow	22.52 grams	29	Whittle
(Melospiza melodia melodia)	21.88 grams	94	Wetherbee
Mississippi Song Sparrow	20.6 grams	77	Becker
(Melospiza melodia beata)			

The Eastern form of Song Sparrow has from 1.28 to 1.92 grams higher weight than the form of the Mississippi valley region. Whether this difference is statistically significant or not cannot be determined since Whittle, and Mrs. Wetherbee neglected to state the probable error of the mean in their data.

The differences between the weight averages listed by the various observers may be due to variations in the abundance and types of food in the localities where the animals were captured, differences in the sex ratios of the samples, or differences in the number of records of the observers.

TABLE VII

COMPARISON OF AUTHOR'S TEMPERATURES
WITH OTHER OBSERVERS

Species	Number of Records	Average Temperature	Observer
Eastern Bob-white	6	107.9	Becker
	7	107.95	Wetmore
	1	111.2	Baldwin
Eastern Fox Sparrow	5	109.1	Becker
	5	109.3	Wetmore
Eastern Hairy Woodpecker	1	106.6	Becker
	4	108.45	Wetmore
Eastern Downy Woodpecker	3	107.3	Becker
	9	107.75	Wetmore
	3	108.25	Baldwin
Northern Flicker	1	104.7	Becker
	2	109.1	Wetmore
	2	108.35	Baldwin
Red-headed Woodpecker	4	108.4	Becker
	2	108.3	Wetmore
Eastern Phoebe	1	107.9	Becker
	2	110.45	Baldwin
Eastern Cowbird	38	110.2	Becker
	6	108.15	Wetmore
Baltimore Oriole	3	107.1	Becker
	2	109.1	Wetmore
Bronzed Grackle	128	110.4	Becker
	1	109.6	Wetmore
White-crowned Sparrow	39	109.0	Becker
	6	108.95	Wetmore
White-throated Sparrow	245	109.7	Becker
	5	110.2	Wetmore

TABLE VII continued

Species	Number of Records	Average Temperature	Observer
Eastern Chipping Sparrow	15 2	109.5 108.75	Becker Wetmore
Slate-colored Junco	368 11	109.2 108.7	Becker Wetmore
Mississippi Song Sparrow	64 15	109.6 109.1	Becker Wetmore
Lincoln's Sparrow	4 2	108.3 107.8	Becker Wetmore
Swamp Sparrow	2 4	110.2 108.9	Becker Wetmore
Eastern Mourning Dove	18 13	107.6 108.35	Becker Wetmore
Red-eyed Towhee	3 3	109.7 110.0	Becker Wetmore
Eastern Cardinal	14 9	109.7 109.3	Becker Wetmore
Magnolia Warbler	2 9	109.1 107.85	Becker Wetmore
Oven-bird	3 3	108.5 107.4	Becker Wetmore
Catbird	7 3 1	109.0 108.65 108.4	Becker Wetmore Baldwin
White-breasted Nuthatch	7 6	108.7 107.7	Becker Wetmore

Species

Red-breast

Red-tail

Black-cap

Blue-bird

Eastern

Eastern

TABLE VII continued

Species	Number of Records	Average Temperature	Observer
Red-breasted Nuthatch	1 8	102.7 107.9	Becker Wetmore
Tufted Titmouse	2 5	108.2 109.1	Becker Wetmore
Black-capped Chickadee	11 4	108.1 108.3	Becker Wetmore
Olive-backed Thrush	18 4	109.8 109.35	Becker Wetmore
Eastern Hermit Thrush	28 7	109.2 108.45	Becker Wetmore
Eastern Robin	48 9 5	109.5 109.75 109.55	Becker Wetmore Baldwin

Table VII gives the average temperatures of 30 species as observed by Baldwin, Wetmore and the author. In no instance does the average vary more than 4 degrees. It has previously been noted that a bird's temperature is subject to great variability, therefore the writer has no proof that the variations are not those to be expected as a result of natural conditions. Only birds whose temperatures were taken by means of clinical thermometers are considered in this discussion. Where Baldwin and Wetmore indicated sex differences, the average of the male and female were secured for comparative purpose. Mr. Wetmore secured the majority of his records from birds immediately after killing, while the author's records were obtained entirely from living birds.

Some of Baldwin's records secured by the use of the thermocouple are:

<u>Species</u>	<u>No. of Records</u>	<u>Average (in degrees)</u>	
		<u>Male</u>	<u>Female</u>
Eastern Chipping Sparrow	9	104.84	104.0
Eastern Robin	2	104.5	104.6
Northern Downy Woodpecker	1	104.3	
Eastern Hairy Woodpecker	1		105.0

These records are noticeably lower than the averages secured by the author through the use of the clinical thermometer. The author by use of the thermometer secured the maximum temperature within the first three minutes of taking temperature of each bird. Baldwin by the use of the thermocouple was able to record any drops in temperature. It might be expected that thermocouple

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readings would be lower than those of a clinical thermometer since it records any drop in temperature after reaching a maximum. It was impossible to secure this reading with a clinical thermometer.

Possible factors which may be involved in temperature variation of the readings of the observers are:

1. Differences in the sex ratios of the groups investigated.
2. Differences due to diurnal variation
3. Differences in the number of records of the various observers
4. Pathological conditions.

TABLE VIII

SEASONAL VARIATION WITHIN SPECIES

<u>Season</u>	<u>Records</u>	<u>Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Standard Deviation</u>
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White-throated Sparrow

Weights

Fall 1931	30	25.6±.2	21.5	29.5	1.8
Fall 1932	111	25.0±.1	19.1	31.5	2.2
Spring 1932	102	29.3±.1	24.5	34.5	2.0
Spring 1933	132	27.8±.1	22.4	34.2	2.1

Temperatures

Fall 1931	29	109.0±.2	106.2	111.2	1.2
Fall 1932	61	110.1±.1	108.1	111.6	.9
Spring 1932	100	109.8±.1	106.5	112.7	.9
Spring 1933	55	109.5±.1	107.7	111.3	.7

Slate-colored Junco

Weights

Fall 1931	141	18.6±.1	15.2	22.1	1.3
Fall 1932	233	18.8±.1	14.7	23.9	1.5
Spring 1932	102	21.2±.1	15.3	26.8	2.2
Spring 1933	97	20.5±.1	16.4	27.6	1.8

Temperatures

Fall 1931	133	108.9±.1	104.0	112.1	1.5
Fall 1932	36	109.7±.1	107.0	113.6	1.2
Spring 1932	99	109.7±.1	106.9	112.2	1.0
Spring 1933	82	108.8±.1	104.3	111.0	1.2

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TABLE VIII continued

<u>Season</u>	<u>Records</u>	<u>Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Standard Deviation</u>
---------------	----------------	----------------	----------------	----------------	---------------------------

Mississippi Song Sparrow

Weights

Fall 1931	9	21.2 $\pm$.4	19.2	24.1	1.7
Fall 1932	11	20.1 $\pm$.2	19.2	22.3	.7
Spring 1932	34	20.9 $\pm$.1	18.6	23.6	1.2
Spring 1933	23	20.2 $\pm$.2	17.3	25.2	1.8

Temperatures

Fall 1931	8	107.9 $\pm$.6	102.0	110.8	2.6
Fall 1932	6	109.4 $\pm$.8	108.2	111.5	.9
Spring 1932	30	110.2 $\pm$.1	107.7	111.8	1.1
Spring 1933	20	109.6 $\pm$.2	106.5	111.0	1.2

COMPARISON OF SEASONAL VARIATION IN WEIGHT WITHIN THE SPECIES

Three species are to be considered in this discussion the White-throated Sparrow, Slate-colored Junco, and Mississippi Song Sparrow, since the number of their records only warrant the formulation of conclusions. Table VIII gives the records of seasonal variation of the species studied.

White-throated Sparrow

Fall (1931)	average weight	-----	25.6	grams
Spring(1932)	average weight	-----	29.3	grams
Difference			<u>3.7</u>	grams

Since this gain in the spring is more than three times the probable error of the difference of .23 grams it is statistically significant.

Fall (1932)	average weight	-----	25.0	grams
Spring(1933)	average weight	-----	27.8	grams
Difference			<u>2.8</u>	grams

The difference is significant since it is more than three times the probable error of the difference of .18 grams.

Slate-colored Junco

Fall (1931)	average weight	-----	18.6	grams
Spring(1932)	average weight	-----	21.2	grams
Difference			<u>2.6</u>	grams
Probable error of the difference			.168	grams
The gain is significant.				

Fall(1932)	average weight	-----	18.8	grams
Spring(1933)	average weight	-----	20.5	grams
Difference			<u>2.3</u>	grams
Probable error of the difference			.141	grams
This gain is significant.				

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Mississippi Song Sparrow

Fall(1931)	average weight -----	21.2 grams
Spring(1932)	average weight -----	20.9 grams
Difference		.3 grams
Probable error of the difference		.41 grams

There is no gain or loss that is significant.

Fall(1932)	average weight -----	20.1 grams
Spring(1933)	average weight -----	20.2 grams
Difference		.1 grams
Probable error of the difference		.296 grams

There is no significant gain or loss.

The fall records are those taken from October 1st to December 31st and the spring records are those taken from March 1st to June 30th.

In the case of the White-throated Sparrow and Slate-colored Junco there is a decided gain in the spring season over the record of the preceding fall season. The Mississippi Song Sparrow retains about the same weight in the fall and spring.

The gain shown in the White-throated Sparrow and Slate-colored Junco may be ascribed to a possible greater abundance of food in the spring than in the fall. Both species breed farther north than East Lansing and may eat more in the spring to be prepared for migration. The Mississippi Song Sparrow seems to retain about the same weight in both seasons in spite of migration, nest building and rearing of young in the spring.

The following factors should be considered in drawing definite conclusions concerning weight variation in the different seasons.

1. Sex ratios in the records.
2. Varying number of records in each season
3. Abundance of food in the different seasons.
4. Individuality of weight difference.
5. Pathological conditions.
6. Number of adults and immature birds in records.
7. Migration.

However, in this study it was impossible to isolate these factors to study their effect on the weight of the bird.

COMPARISON OF SEASONAL VARIATION IN TEMPERATURE WITHIN THE SPECIES

Table VIII also gives the seasonal temperature variations in the species studied.

White-throated Sparrow

Fall (1931)	-----	109.0	degrees	average	temperature
Spring(1932)	-----	109.8	degrees	average	temperature
Difference		.8	degree		

Probable error of the difference .161 degree

This gain is significant.

Fall (1932)	-----	110.1	degrees	average	temperature
Spring(1933)	-----	109.5	degrees	average	temperature
Difference		.6	degree		

Probable error of the difference .101 degree

This loss is significant.

Slate-colored Junco

Fall(1931)	-----	108.9	degrees	average	temperature
Spring(1932)	-----	109.7	degrees	average	temperature
Difference		.8	degree		

Probable error of the difference .114 degree

This gain is significant.

Fall(1932)	-----	109.7	degrees	average	temperature
Spring(1933)	-----	108.8	degrees	average	temperature
Difference		.9	degree		

Probable error of the difference .168 degree

The loss is significant.

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Mississippi Song Sparrow

Fall(1931)	-----	107.9	degrees average temperature
Spring(1932)	-----	110.2	degrees average temperature

Difference		<u>2.3</u>	degrees
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Probable error of the difference .634 degree

This gain is significant.

Fall(1932)	-----	109.4	degrees average temperature
Spring(1933)	-----	109.6	degrees average temperature

Difference		<u>.2</u>	degree
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Probable error of the difference .317 degree

There is no significant gain or loss.

The White-throated Sparrows and Slate-colored Juncos show a gain in temperature in the first spring and a loss in the second spring over the preceding fall seasons. The writer is unable to account for this variation. There seems to be a good deal of variation in seasonal temperature records in some cases showing a gain and in others a loss. Keeping in mind that temperature is apt to vary greatly during 24 hours, the only conclusion which this data warrants is that season has little if any effect on temperature.

Data concerning other species observed are too scant to justify any discussion.

Figure 8.

SEASONAL VARIATION IN WEIGHT

SLATE-COLORED JUNCO

Percent

Weight(grams)

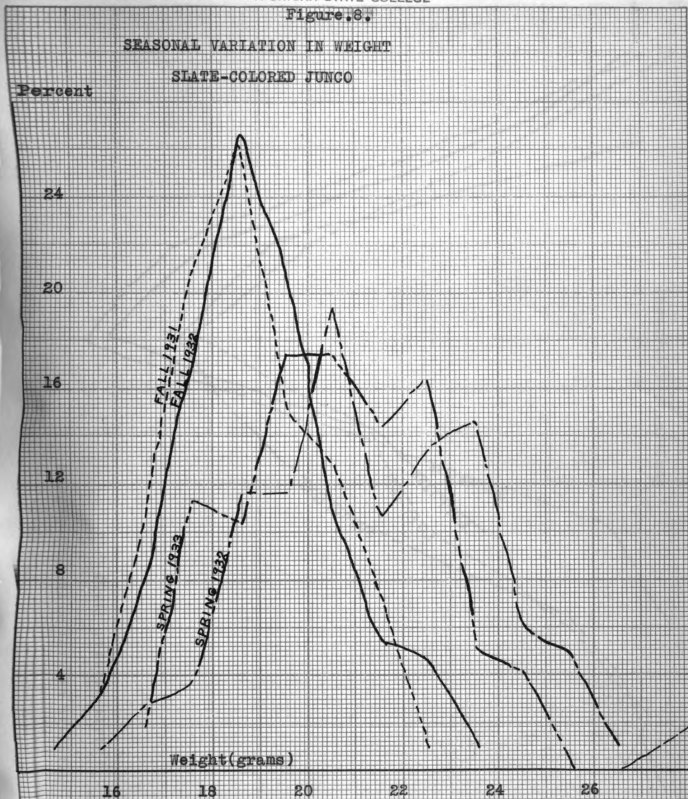


Figure 9.
SEASONAL VARIATION IN TEMPERATURE
Slate-colored Junco

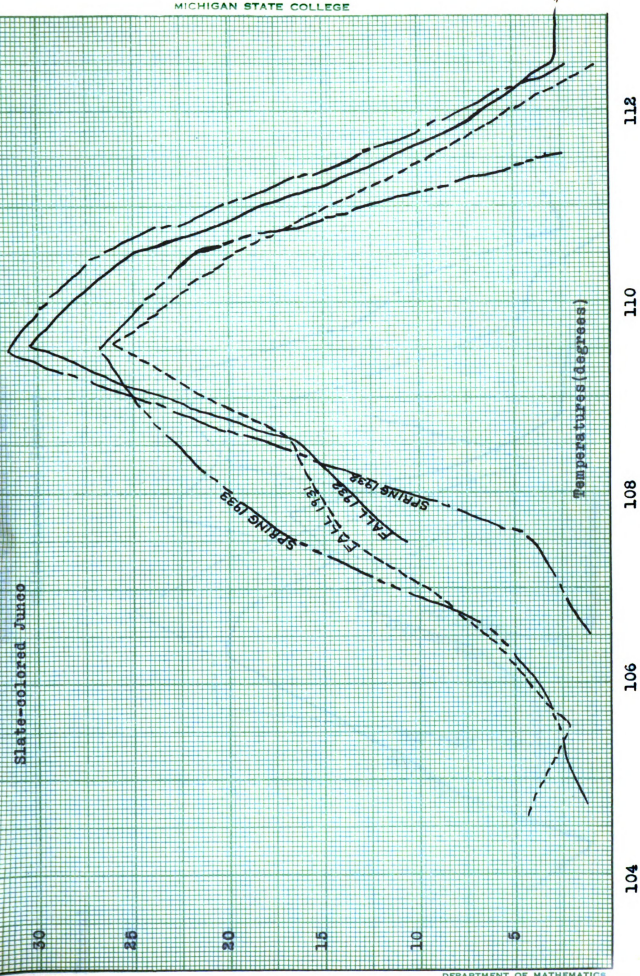


Figure 10.

SEASONAL VARIATION IN WEIGHT

White-throated Sparrow

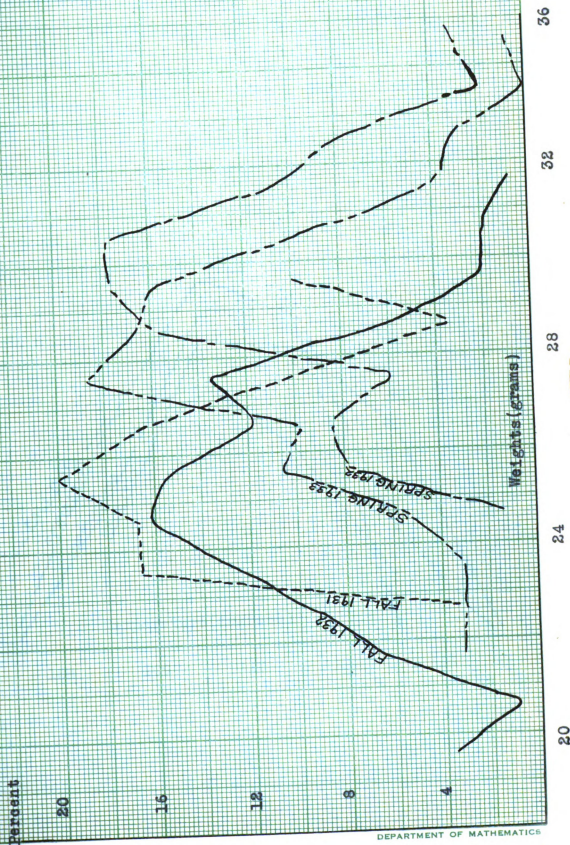


Figure.117

SEASONAL VARIATIONS IN TEMPERATURE
WHITE-THROATED SPARROW

Percent

40

30

20

10

Temperature (degrees)

107

108

109

110

111

112

Fall 1931

Spring 1932

Fall 1932

Spring 1933

GRAPHICAL PRESENTATION OF SEASONAL VARIATION IN WEIGHTS AND TEMPERATURE

Figures #8,9,10,11 show curves representing percentage variations in weights and temperatures of the Slate-colored Junco and the White-throated Sparrow. Only these two species afford curves suitable for purposes of comparison.

Slate-colored Junco

In Figure #8 the curves of the fall of 1931 and 1932 reach a maximum between 18 and 19 grams, while those of the springs of 1932 and 1933 reach a maximum between 20 and 21 grams. The fall curves have a larger number of records within a small range, while the spring curves show greater variability. Figure #9 represents the curves of seasonal temperature variation of the Slate-colored Junco. In the four seasons the largest number of individuals is recorded at 109.5 degrees. The variation in curves is largely due, I believe, to differences in the individual birds.

White-throated Sparrow

Figure #10 shows that the spring records average higher than those of the fall. Roughly the approximate similar forms with allowance made for the higher spring average. Figure #11 shows that the largest number of records were secured at 109.5 degrees in all four seasons. All the curves are quite regular in outline.

It is unsuitable to draw any definite conclusions in this study of curves since causes of variability were not isolated.

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DISCUSSION

The discussions in this thesis have considered several facts concerning bird weights and temperatures. Since the author obtained his records under approximately natural environmental conditions there was no control on the factors involved or any determination made of the relative importance of each. A study should be made of weights and temperatures throughout the day with a control placed on the factors and, also, to ascertain the factors involved and the importance of each in affecting weight or temperature. We have definitely proven that there is a large range in weight and temperature within the species. The factors directly responsible have not been determined. Baldwin (1932) and Wetmore (1921) have found that an individual bird may vary as much as ten degrees in temperature during 24 hours. Could this variation possibly show some tendency toward an inherent characteristic received from the bird's poikilothermic, reptilian ancestors? Mammals do not have this wide fluctuation in temperature.

It has been noted that larger birds show a slight tendency to have a lower average weight than the smaller species. Possibly the larger birds may have a slower rate of metabolism than smaller birds. This has not been determined. In general it is found that birds show a heavier weight in the afternoon records than those taken for the morning. This may be due to a heavier feeding between the morning and afternoon records. It is not possible to draw any conclusion concerning diurnal variation in temperature from the data in this thesis. We find

that average weights for repeaters seem to average lower than the average sample of the whole species, while the average temperature of repeaters seems, in general, to average higher. Records of the various observers discussed seem to approximate a similarity considering the possible variation due to natural conditions.

White-throated Sparrows and Slate-colored Juncos seem to be affected by seasonal changes in showing a gain in weight in the spring over the preceding fall records. Seasonal changes apparently have no effect on temperature. The Mississippi Song Sparrows retain approximately the weight and temperature in both the fall and spring seasons. The writer has listed on page 15 factors which may possibly have some effect on weight and temperature conditions. However, there is no definite proof for them in this thesis.

It will be necessary to carry out experiments under controlled conditions to determine the causes of variation in weight and temperature.

GENERAL CONCLUSIONS

1. There is a decided variation in bird weights and temperatures.
2. There is a slight indication that larger birds have a lower average body temperature than the smaller species.
3. Repeater weights average lower and their temperatures average higher than the average sample of the whole species.
4. The Slate-colored Junco and the White-throated Sparrow show a gain in weight in the spring from the preceding fall.
5. There is no seasonal effect on temperature variation in the data.

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PHOTOGRAPHS OF APPARATUS
USED IN WEIGHING
EXPERIMENTS

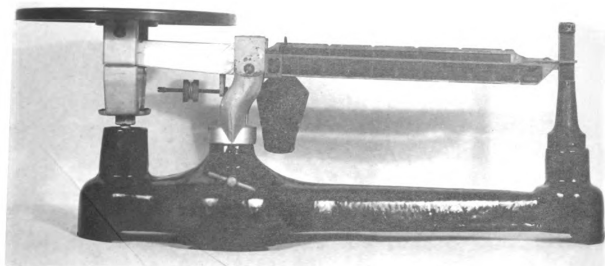


PLATE I
SCALES USED IN WEIGHING EXPERIMENTS

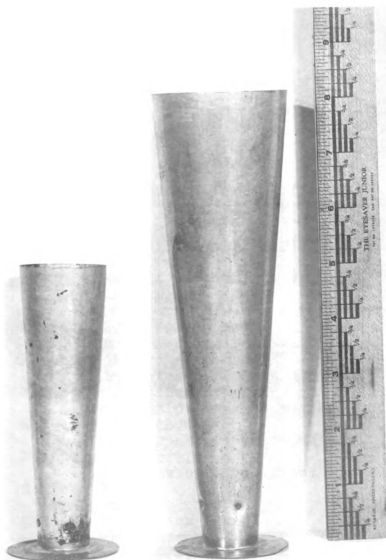


PLATE II
DIMENSIONS OF CONES

Large Cone

Diameter of Top ----- $2\frac{1}{2}$ inches.
Diameter of Base ----- 3 inches.
Height ----- 8 inches.

Small Cone

Diameter of Top ----- $1\frac{1}{8}$ inches.
Diameter of Base ----- 2 inches.
Height ----- 5 inches.

LIST OF SPECIES

In the following table is presented a list of the species discussed in this paper giving the American Ornithological Union number, the Michigan number, common name and scientific name.

A.O.U. No.	Mich. No.	Common and Scientific names
212	80	Virginia Rail <i>Rallus limicola limicola</i>
289	120	Eastern Bob-white <i>Colinus virginianus virginianus</i>
316	129	Eastern Mourning Dove <i>Zenaidura macroura carolinensis</i>
393	164	Eastern Hairy Woodpecker <i>Dryobates villosus villosus</i>
394c	166	Northern Downy Woodpecker <i>Dryobates pubescens medianus</i>
402	168	Yellow-bellied Sapsucker <i>Sphyrapicus varius varius</i>
406	170	Red-headed Woodpecker <i>Melanerpes erythrocephalus</i>
412a	172	Northern Flicker <i>Colaptes auratus luteus</i>
456	179	Eastern Phoebe <i>Sayornis phoebe</i>
461	182	Eastern Wood Pewee <i>Myiochanes virens</i>
463	183	Yellow-bellied Flycatcher <i>Empidonax flaviventris</i>
466a	185	Alder Flycatcher <i>Empidonax traillii traillii</i>
477	191	Northern Blue Jay <i>Cyanocitta cristata cristata</i>
495	196	Eastern Cowbird <i>Molothrus ater ater</i>
507	203	Baltimore Oriole <i>Icterus galbula</i>
511b	205	Bronzed Grackle <i>Quiscalus quiscula aeneus</i>
529	215	Eastern Goldfinch <i>Spinus tristis tristis</i>
533	216	Northern Pine Siskin <i>Spinus pinus pinus</i>
554	228	White-crowned Sparrow <i>Zonotrichia leucophrys leucophrys</i>
554a		Gambel's Sparrow <i>Zonotrichia leucophrys gambeli</i>

LIST OF SPECIES continued

A.O.U. No.	Mich. No.	Common and Scientific names
558	229	White-throated Sparrow <i>Zonotrichia albicollis</i>
559	230	Eastern Tree Sparrow <i>Spizella arborea arborea</i>
560	231	Eastern Chipping Sparrow <i>Spizella passerina passerina</i>
563	233	Eastern Field Sparrow <i>Spizella pusilla pusilla</i>
567	234	Slate-colored Junco <i>Junco hyemalis hyemalis</i>
581	235	Mississippi Song Sparrow <i>Melospiza melodia beata</i>
583	236	Lincoln's Sparrow <i>Melospiza lincolni lincolni</i>
584	237	Swamp Sparrow <i>Melospiza georgiana</i>
585	238	Eastern Fox Sparrow <i>Passerella iliaca iliaca</i>
587	239	Red-eyed Towhee <i>Pipilo erythrophthalmus erythrophthalmus</i>
593	240	Eastern Cardinal <i>Richmondia cardinalis cardinalis</i>
595	241	Rose-breasted Grosbeak <i>Hedymeles ludovicianus</i>
616	249	Bank Swallow <i>Riparia riparia riparia</i>
619	252	Cedar Waxwing <i>Bombycilla cedrorum</i>
629	259	Blue-headed Vireo <i>Vireo solitarius solitarius</i>
631	260	White-eyed Vireo <i>Vireo griseus griseus</i>
636	261	Black and White Warbler <i>Mniotilta varia</i>
657	275	Magnolia Warbler <i>Dendroica magnolia</i>
659	276	Chestnut-sided Warbler <i>Dendroica pensylvanica</i>
674	286	Oven-bird <i>Seiurus aurocapillus</i>
679	292	Mourning Warbler <i>Oporornis philadelphia</i>
686	297	Canada Warbler <i>Wilsonia canadensis</i>
687	298	American Redstart <i>Setophaga ruticilla</i>
704	301	Catbird <i>Dumetella carolinensis</i>
705	302	Brown Thrasher <i>Toxostoma rufum</i>

LIST OF SPECIES continued

A.C.U. No.	Mich. No.	Common and Scientific names
721	305	Eastern House Wren <i>Troglodytes aedon aedon</i>
726	309	Brown Creeper <i>Certhia familiaris americana</i>
727	310	White-breasted Nuthatch <i>Sitta carolinensis carolinensis</i>
728	311	Red-breasted Nuthatch <i>Sitta canadensis</i>
731	312	Tufted Titmouse <i>Baeolophus bicolor</i>
735	313	Black-capped Chickadee <i>Penthestes atricapillus atricapillus</i>
748	316	Eastern Golden-crowned Kinglet <i>Regulus satrapa satrapa</i>
749	317	Eastern Ruby-crowned Kinglet <i>Corthylio calendula calendula</i>
755	319	Wood Thrush <i>Hylocichla mustelina</i>
756	320	Veery <i>Hylocichla fuscescens fuscescens</i>
758a	322	Olive-backed Thrush <i>Hylocichla ustulata swainsoni</i>
758b	323	Eastern Hermit Thrush <i>Hylocichla guttata faxonii</i>
761	324	Eastern Robin <i>Turdus migratorius migratorius</i>

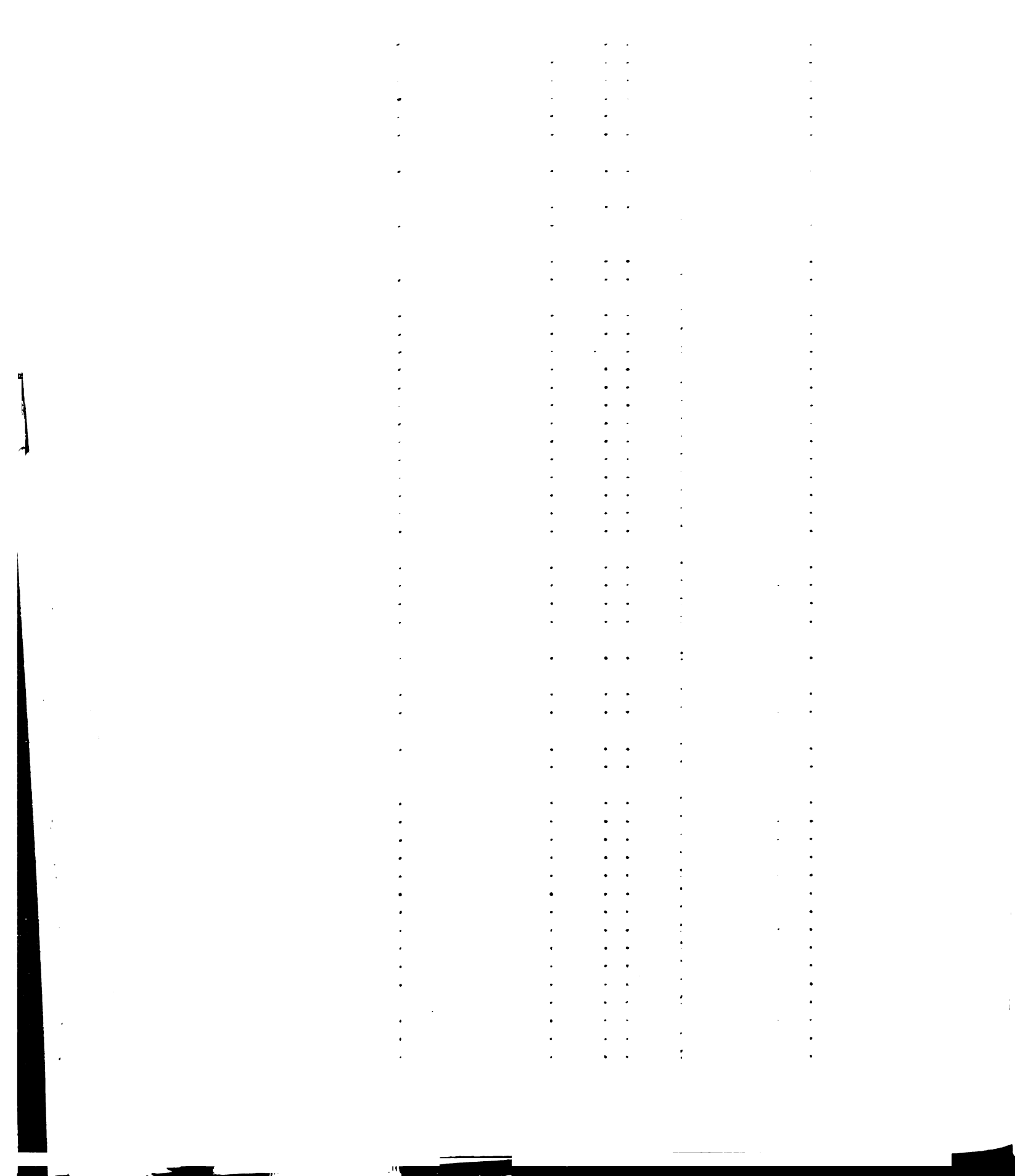
ORIGINAL DATA

TABLE IX

Slate-colored Junco
Junco hyemalis hyemalis

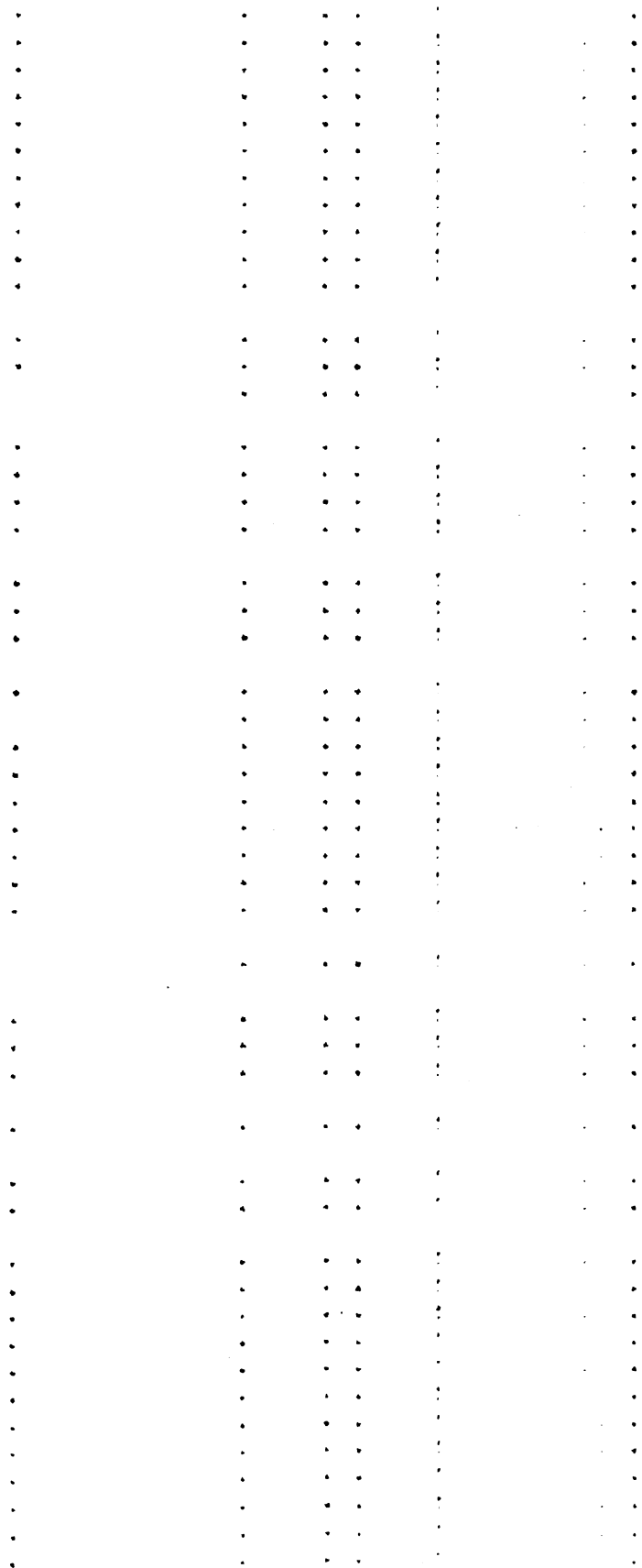
Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30751	Oct. 7, 1931	5:40 P.M.	16.9	105.2
	Oct. 8, 1931	1:15 P.M.	13.3	108.5
	Oct. 9, 1931	6:00 P.M.	13.1	108.2
c30752	Oct. 7, 1931	5:50 P.M.	20.4	104.2
c30753	Oct. 7, 1931	5:50 P.M.	18.5	104.4
c30754	Oct. 7, 1931	5:50 P.M.	18.6	107.1
	Oct. 8, 1931	5:25 P.M.	17.4	111.4
	Oct. 9, 1931	5:05 P. M.	16.5	111.0
	Oct. 11, 1931	4:45 P.M.	15.2	109.2
	Oct. 17, 1931	5:15 P.M.	17.3	112.3
	Oct. 18, 1931	4:45 P.M.	17.5	112.2
c30760	Oct. 8, 1931	9:35 A.M.	18.0	110.5
	Oct. 9, 1931	5:05 P.M.	16.7	109.4
c30762	Oct. 8, 1931	1:15 P.M.	18.6	108.8
c30764	Oct. 8, 1931	1:35 P.M.	20.4	109.2
	Oct. 10, 1931	5:45 P.M.	19.1	110.5
	Oct. 11, 1931	5:35 P.M.	17.7	109.4
	Oct. 13, 1931	1:55P .M.	17.7	110.9
	Oct. 13, 1931	5:10 P.M.	18.2	110.4
c30765	Oct. 8, 1931	1:35 P.M.	15.6	107.9
c30769	Oct. 8, 1931	5:20 P.M.	18.3	107.3
	Oct. 20, 1931	5:10 P.M.	17.2	111.6
c30770	Oct. 8, 1931	5:20 P.M.	18.8	108.5
	Oct. 15, 1931	2:20 P.M.	18.0	110.6
c30772	Oct. 11, 1931	5:00 P.M.	18.4	109.4
c30774	Oct. 9, 1931	5:25 P.M.	16.4	109.5
	Oct. 10, 1931	5:30 P.M.	16.1	108.2
c30775	Oct. 8, 1931	5:25 P.M.	18.9	109.1
	Oct. 14, 1931	1:20 P.M.	18.3	109.8
c30776	Oct. 8, 1931	5:30 P.M.	17.1	108.0

Band No.	Date	Time	Weight	Temperature
c30781	Oct. 9, 1931	10:00 A.M.	16.9	109.5
	Oct. 25, 1931	5:30 P.M.	18.5	112.1
	Oct. 27, 1931	10:20 A.M.	15.7	110.4
	Oct. 28, 1931	4:45 P.M.	16.1	111.2
	Oct. 30, 1931	4:25 P.M.	16.3	111.7
	Nov. 5, 1931	5:30 P.M.	16.1	110.8
c30784	Oct. 9, 1931	10:15 A.M.	18.8	107.4
c30786	Oct. 9, 1931	5:05 P.M.	18.4	108.0
	Oct. 17, 1931	12:00	18.3	105.7
c30787	Oct. 9, 1931	5:05 P.M.	16.3	107.1
	Oct. 28, 1931	4:20 P.M.	17.0	110.3
c30788	Oct. 9, 1931	5:20 P.M.	18.4	110.0
	Oct. 10, 1931	5:30 P.M.	18.1	109.1
	Oct. 12, 1931	5:10 P. M.	16.8	108.3
	Oct. 17, 1931	5:05 P.M.	18.7	110.7
	Oct. 19, 1931	9:45 A.M.	16.4	109.0
	Oct. 26, 1931	10:50 A.M.	17.9	110.6
	Oct. 29, 1931	10:15 A.M.	16.3	109.8
	Oct. 29, 1931	5:45 P.M.	17.2	110.3
	Oct. 30, 1931	10:35 A.M.	16.7	109.6
	Oct. 31, 1931	10:05 A.M.	15.9	110.6
	Oct. 31, 1931	4:45 P.M.	16.8	111.3
	Nov. 1, 1931	10:40 A.M.	13.9	109.8
	Nov. 1, 1931	4:20 P.M.	16.2	109.9
c30789	Oct. 9, 1931	5:20 P.M.	17.0	109.0
	Oct. 14, 1931	9:35 A.M.	17.2	109.2
	Oct. 16, 1931	10:05 A.M.	17.3	109.2
	Oct. 16, 1931	4:10 P.M.	16.6	108.8
c30790	Oct. 9, 1931	5:20 P.M.	17.6	109.1
c30791	Oct. 9, 1931	5:20 P.M.	16.8	109.3
	Oct. 16, 1931	1:00 P.M.	17.3	109.4
c30792	Oct. 9, 1931	5:40 P.M.	17.3	108.9
	Oct. 10, 1931	5:30 P.M.	16.0	108.9
c30793	Oct. 9, 1931	5:40 P.M.	18.1	107.7
	Oct. 10, 1931	5:45 P.M.	16.9	107.7
	Oct. 12, 1931	5:50 P.M.	17.1	108.8
	Oct. 13, 1931	5:10 P.M.	17.0	109.2
	Oct. 17, 1931	12:10 P.M.	18.1	110.6
	Oct. 19, 1931	5:00 P.M.	17.4	112.5
	Oct. 20, 1931	10:00 A.M.	16.0	110.4
	Oct. 21, 1931	9:50 A.M.	17.0	111.9
	Oct. 24, 1931	8:30 A.M.	17.2	112.2
	Oct. 24, 1931	4:30 P.M.	16.4	111.4
	Oct. 25, 1931	5:45 P.M.	16.9	112.0
	Oct. 26, 1931	10:45 A.M.	16.0	
	Oct. 26, 1931	P.M.	17.5	112.5
	Oct. 27, 1931	10:45 A.M.	14.9	108.9
	Oct. 27, 1931	4:40 P.M.	16.0	110.5

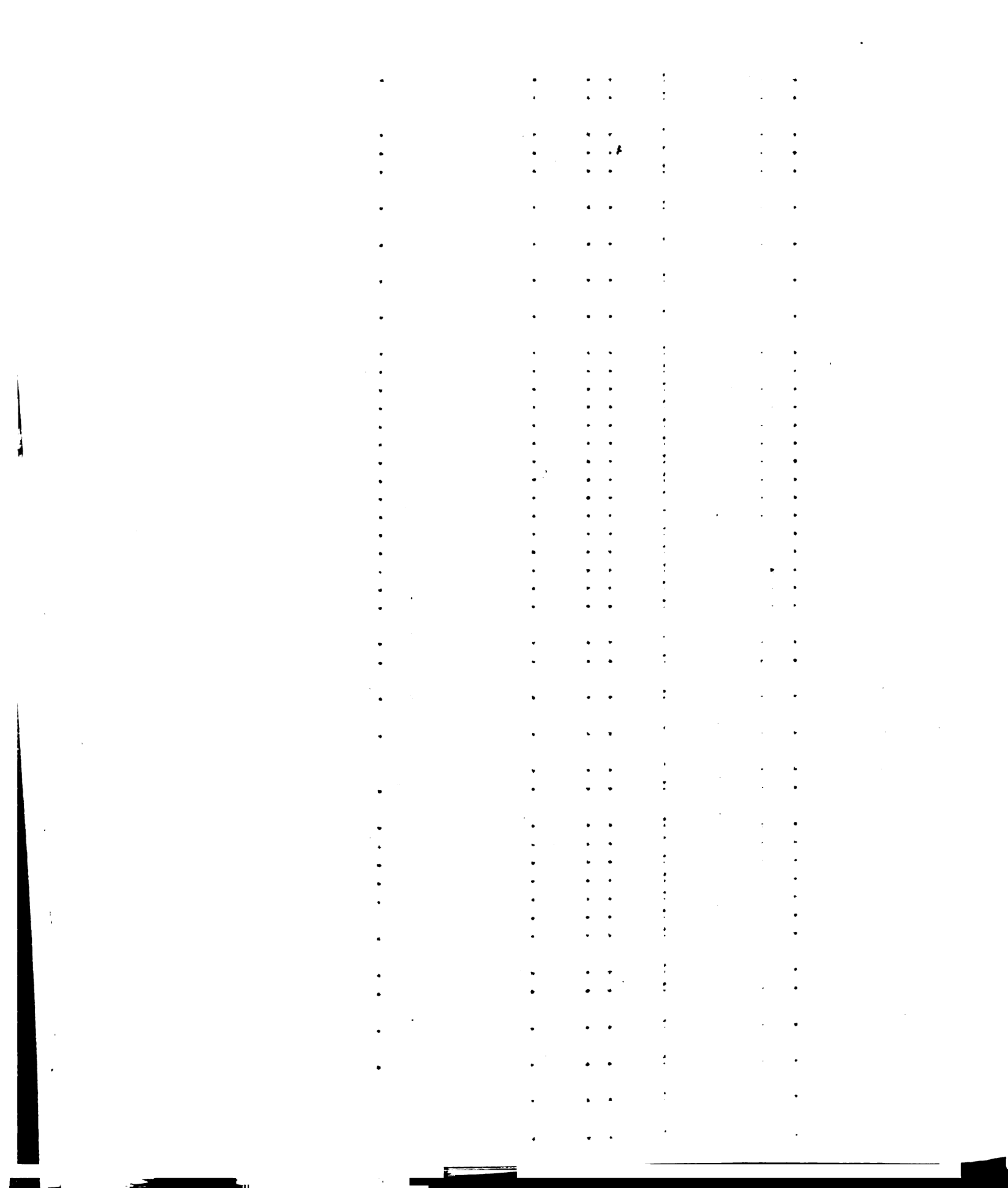


Band No.	Date	Time	Weight	Temperature
c30794	Oct. 9, 1931	5:40 P.M.	19.4	106.8
c30795	Oct. 9, 1931	5:40 P.M.	18.1	108.4
c30796	Oct. 9, 1931	5:40 P.M.	17.3	107.7
	Oct. 11, 1931	4:45 P.M.	17.7	111.2
	Oct. 12, 1931	5:10 P.M.	16.8	108.9
	Oct. 15, 1931	9:40 A.M.	16.8	109.6
	Oct. 17, 1931	12:10 P.M.	18.4	109.6
	Oct. 18, 1931	9:35 A.M.	17.2	110.4
	Oct. 19, 1931	9:40 A.M.	16.7	110.3
	Oct. 19, 1931	5:15 P.M.	17.3	112.3
	Oct. 20, 1931	9:40 A.M.	16.4	110.4
	Oct. 21, 1931	9:40 A.M.	17.1	111.4
	Oct. 21, 1931	1:50 P.M.	18.0	111.4
	Oct. 24, 1931	4:10 P.M.	17.4	111.5
	Oct. 25, 1931	4:40 P.M.	16.6	111.4
	Oct. 25, 1931	5:30 P.M.	17.5	112.4
	Oct. 27, 1931	5:10 P.M.	17.8	112.2
	Oct. 28, 1931	4:35 P.M.	17.4	111.3
c30797	Oct. 9, 1931	5:50 P.M.	17.2	108.7
	Oct. 13, 1931		17.7	110.6
c30798	Oct. 9, 1931	5:40 P.M.	20.4	109.2
	Oct. 10, 1931	5:45 P.M.	20.1	109.6
	Oct. 19, 1931	1:00 P.M.	20.5	111.3
c30803	Oct. 10, 1931	9:00 A.M.	20.4	110.7
c30805	Oct. 10, 1931	5:30 P.M.	16.2	106.7
c30808	Oct. 10, 1931	5:45 P.M.	20.1	106.8
	Oct. 18, 1931	4:45 P.M.	17.2	109.7
	Oct. 20, 1931	1:15 P.M.	18.3	110.2
c30809	Oct. 10, 1931	5:45 P.M.	17.8	106.0
c30810	Oct. 10, 1931	5:55 P.M.	16.6	108.0
	Oct. 13, 1931	1:45 P.M.	16.1	106.4
	Oct. 19, 1931	5:20 P.M.	18.2	111.6
	Oct. 20, 1931	9:40 A.M.	16.4	110.0
	Oct. 20, 1931	5:20 P.M.	16.7	109.8
	Oct. 23, 1931	4:15 P.M.	17.1	111.9
	Oct. 28, 1931	5:05 P.M.	16.9	110.8
	Oct. 29, 1931	5:45 P.M.	18.0	109.7
	Oct. 31, 1931	4:35 P.M.	17.7	110.8
	Nov. 1, 1931	10:35 A.M.	16.5	111.2
	Nov. 1, 1931	4:45 P.M.	17.1	110.3
	Nov. 2, 1931	10:15 A.M.	15.9	109.6
	Nov. 2, 1931	4:45 P.M.	17.2	110.2
	Nov. 3, 1931	10:10 A.M.	17.3	110.4
	Nov. 3, 1931	5:30 P.M.	16.6	109.6
	Nov. 5, 1931	3:30 P.M.	16.4	110.3
	Nov. 7, 1931	5:15 P.M.	17.7	111.5
	Nov. 8, 1931	9:45 A.M.	15.8	110.6
	Nov. 8, 1931	5:30 P.M.	16.2	110.2
	Nov. 9, 1931	10:15 A.M.	16.8	110.4

Band No.	Date	Time	Weight	Temperature
	Nov. 9, 1931	4:50 P.M.	18.3	112.5
	Nov. 10, 1931	9:45 P.M.	16.3	108.8
	Nov. 10, 1931	5:15 P.M.	17.7	111.2
	Nov. 11, 1931	9:25 A.M.	17.5	110.0
	Nov. 11, 1931	4:45 P.M.	18.2	111.7
	Nov. 14, 1931	9:40 A.M.	17.7	111.4
	Nov. 16, 1931	9:45 A.M.	17.3	110.3
	Nov. 16, 1931	4:45 P.M.	18.0	111.2
	Nov. 17, 1931	9:45 A.M.	17.2	110.5
	Nov. 18, 1931	4:10 P.M.	18.0	111.5
	Nov. 23, 1931	5:15 P.M.	19.3	110.4
c30811	Oct. 11, 1931	5:00 P.M.	18.4	108.8
	Oct. 12, 1931	5:10 P.M.	17.6	109.0
	Oct. 13, 1931	9:20 A.M.	14.8	
c30817	Oct. 11, 1931	4:45 P.M.	18.6	106.5
	Oct. 12, 1931	5:30 P.M.	17.4	109.9
	Oct. 14, 1931	9:20 A.M.	16.9	107.9
	Oct. 18, 1931	5:00 P.M.	17.6	111.0
c30818	Oct. 11, 1931	4:45 P.M.	17.3	108.2
	Oct. 12, 1931	5:10 P.M.	15.9	108.4
	Oct. 13, 1931	5:10 P.M.	15.1	109.3
c30819	Oct. 11, 1931	5:10 P.M.	17.6	104.7
	Oct. 13, 1931	1:55 P.M.	16.6	
	Oct. 19, 1931	5:35 P.M.	17.1	110.5
	Oct. 20, 1931	5:20 P.M.	16.5	112.2
	Nov. 5, 1931	5:20 P.M.	19.4	108.8
	Nov. 7, 1931	5:15 P.M.	18.4	111.5
	Nov. 9, 1931	4:50 P.M.	18.1	111.0
	Nov. 11, 1931	4:45 P.M.	19.3	111.5
	Nov. 13, 1931	4:15 P.M.	19.4	110.1
c30820	Oct. 11, 1931	5:00 P.M.	17.3	
c30821	Oct. 11, 1931	5:00 P.M.	19.4	109.6
	Oct. 15, 1931	2:35 P.M.	19.3	111.2
	Oct. 19, 1931	5:20 P.M.	20.8	111.5
c30823	Oct. 11, 1931	5:00 P.M.	18.7	107.7
c30824	Oct. 11, 1931	5:00 P.M.	20.9	105.6
	Oct. 15, 1931	2:10 P.M.	19.8	109.2
c30827	Oct. 11, 1931	5:15 P.M.	17.7	109.1
	Oct. 19, 1931	5:20 P.M.	19.3	111.2
	Oct. 28, 1931	4:25 P.M.	18.1	110.9
	Oct. 30, 1931	10:30 A.M.	16.8	108.8
	Oct. 31, 1931	10:30 A.M.	16.3	111.8
	Oct. 31, 1931	4:20 P.M.	17.0	112.4
	Nov. 1, 1931	4:20 P.M.	16.9	111.3
	Nov. 2, 1931	4:30 P.M.	17.2	109.6
	Nov. 6, 1931	4:40 P.M.	18.7	109.9
	Nov. 8, 1931	5:35 P.M.	18.1	111.6
	Nov. 9, 1931	10:30 A.M.	16.7	110.1
	Nov. 9, 1931	4:20 P.M.	16.9	112.4



Band No.	Date	Time	Weight	Temperature
	Nov. 10, 1931	5:10 P.M.	17.8	111.5
	Nov. 11, 1931	9:25 A.M.	16.4	
o30829	Oct. 11, 1931	5:15 P.M.	18.7	107.2
	Oct. 12, 1931	9:15 A.M.	17.3	109.8
	Oct. 19, 1931	12:55 P.M.	17.6	110.1
o30830	Oct. 11, 1931	5:15 P.M.	18.3	104.0
o30833	Oct. 12, 1931	9:15 A.M.	16.1	104.4
o30834	Oct. 12, 1931	9:15 A.M.	16.4	107.5
o30837	Oct. 12, 1931	9:30 A.M.	17.3	109.8
o30838	Oct. 12, 1931	5:30 P.M.	16.6	107.6
	Oct. 29, 1931	5:25 P.M.	17.4	108.3
	Oct. 30, 1931	4:20 P.M.	17.0	109.8
	Nov. 9, 1931	4:35 P.M.	18.3	111.6
	Nov. 11, 1931	9:25 A.M.	17.1	110.6
	Nov. 14, 1931	9:25 A.M.	17.4	111.0
	Nov. 16, 1931	9:30 A.M.	16.3	109.7
	Nov. 18, 1931	4:30 P.M.	17.6	110.4
	Nov. 19, 1931	5:10 P.M.	16.7	111.0
	Nov. 21, 1931	12:15 P.M.	17.3	110.3
	Nov. 26, 1931	12:20 P.M.	18.6	110.3
	Dec. 1, 1931	5:25 P.M.	19.3	110.9
	Dec. 2, 1931	4:45 P.M.	18.3	111.0
	Dec. 4, 1931	10:05 A.M.	17.7	110.4
	Dec. 5, 1931	4:30 P.M.	18.7	110.0
o30840	Oct. 12, 1931	5:10 P.M.	19.2	106.1
	Oct. 13, 1931	5:10 P.M.	17.9	104.6
o30841	Oct. 12, 1931	6:15 P.M.	17.3	108.1
o30843	Oct. 12, 1931	5:30 P.M.	18.6	108.6
o30844	Oct. 12, 1931	5:30 P.M.	18.2	
	Oct. 16, 1931	4:10 P.M.	17.5	111.3
o30845	Oct. 12, 1931	5:30 P.M.	16.7	110.9
	Oct. 13, 1931	1:45 P.M.	17.6	110.8
	Oct. 16, 1931	10:05 A.M.	16.7	109.2
	Oct. 17, 1931	9:30 A.M.	15.4	110.7
	Oct. 21, 1931	1:25 P.M.	16.3	110.3
	Oct. 26, 1931	10:25 A.M.	17.5	
	Oct. 26, 1931	4:00 P.M.	17.5	111.2
o30846	Oct. 12, 1931	5:30 P.M.	19.4	104.4
	Oct. 15, 1931	2:10 P.M.	19.3	111.5
o30852	Oct. 13, 1931	1:40 P.M.	18.0	107.4
o30853	Oct. 13, 1931	2:00 P.M.	17.6	106.4
o30855	Oct. 13, 1931	5:25 P.M.	17.9	
o30857	Oct. 14, 1931	9:20 A.M.	17.4	



Band No.	Date	Time	Weight	Temperature
c30858	Oct. 14, 1931	9:20 A.M.	17.2	107.4
c30859	Oct. 14, 1931	1:30 P.M.	18.1	108.6
c30860	Oct. 14, 1931	1:40 P.M.	20.1	108.1
	Oct. 17, 1931	9:30 A.M.	15.6	
c30863	Oct. 14, 1931	5:30 P.M.	19.5	106.4
c30864	Oct. 20, 1931	1:30 P.M.	17.2	109.9
c30865	Oct. 15, 1931	2:10 P.M.	20.8	108.5
c30867	Oct. 16, 1931	12:55 P.M.	21.3	109.2
c30868	Oct. 16, 1931	12:55 P.M.	21.5	109.9
c30869	Oct. 16, 1931	1:10 P.M.	17.5	109.7
	Oct. 20, 1931	5:10 P.M.	18.1	112.0
	Oct. 25, 1931	5:30 P.M.	16.8	111.3
	Oct. 26, 1931	10:40 A.M.	15.9	
	Oct. 27, 1931	5:10 P.M.	16.9	111.2
	Oct. 30, 1931	10:15 A.M.	15.7	109.7
	Oct. 31, 1931	4:45 P.M.	17.4	111.8
	Nov. 2, 1931	4:50 P.M.	16.8	109.9
	Nov. 3, 1931	10:10 A.M.	16.0	111.2
	Nov. 7, 1931	5:15 P.M.	17.2	112.1
c30870	Oct. 16, 1931	4:00 P.M.	18.9	109.6
	Oct. 21, 1931	1:35 P.M.	19.1	110.5
	Oct. 30, 1931	4:30 P.M.	21.7	109.3
c30871	Oct. 17, 1931	9:30 A.M.	20.3	110.2
c30872	Oct. 17, 1931	9:30 A.M.	16.9	107.2
	Oct. 21, 1931	4:10 P.M.	18.4	109.8
c30873	Oct. 17, 1931	9:30 A.M.	16.1	109.7
c30874	Oct. 17, 1931	9:30 A.M.	17.1	109.3
c30876	Oct. 17, 1931	5:05 P.M.	17.6	110.2
c30877	Oct. 17, 1931	5:05 P.M.	18.7	109.5
	Oct. 20, 1931	1:25 P.M.	17.1	110.3
c30878	Oct. 17, 1931	5:05 P.M.	17.8	110.1
c30879	Oct. 17, 1931	5:05 P.M.	19.6	
c30880	Oct. 17, 1931	5:05 P.M.	17.4	110.9
c30885	Oct. 18, 1931	5:00 P.M.	19.4	110.8
c30887	Oct. 19, 1931	9:40 A.M.	18.9	108.5
c30888	Oct. 19, 1931	9:45 A.M.	15.2	108.9

Band No.	Date	Time	Weight	Temperature
c30889	Oct. 19, 1931	9:50 A.M.	17.5	107.1
	Oct. 28, 1931	4:20 P.M.	18.6	109.7
c30890	Oct. 19, 1931	12:45 P.M.	19.2	108.6
c30891	Oct. 21, 1931	9:50 A.M.	16.3	109.2
	Oct. 25, 1931	5:20 P.M.	16.5	109.4
	Oct. 27, 1931	5:10 P.M.	17.0	109.9
	Oct. 28, 1931	4:15 P.M.	16.9	110.1
c30892	Oct. 19, 1931	5:00 P.M.	17.9	110.5
c30893	Oct. 19, 1931	5:00 P.M.	19.1	111.4
c30894	Oct. 19, 1931	5:30 P.M.	17.7	109.9
c30895	Oct. 20, 1931	1:05 P.M.	19.8	109.7
	Oct. 25, 1931	5:45 P.M.	17.3	110.7
	Oct. 27, 1931	5:10 P.M.	19.1	110.1
	Oct. 29, 1931	10:20 A.M.	18.0	109.8
c30896	Oct. 20, 1931	5:10 P.M.	19.0	111.2
c30897	Oct. 21, 1931	1:15 P.M.	19.6	111.0
c30898	Oct. 21, 1931	1:15 P.M.		111.3
	Oct. 22, 1931	1:40 P.M.	16.1	109.7
c30899	Oct. 21, 1931	1:45 P.M.	19.9	110.2
c30900	Oct. 21, 1931	1:50 P.M.	17.4	109.9
c30902	Oct. 28, 1931	5:05 P.M.	15.2	107.7
		5:45 P.M.	16.9	109.9
c30903	Dec. 1, 1931	10:25 A.M.	20.7	109.8
c30904	Oct. 26, 1931	4:00 P.M.	17.7	110.3
	Oct. 27, 1931	5:10 P.M.	17.1	111.4
	Oct. 28, 1931	4:25 P.M.	16.4	109.8
	Nov. 4, 1931	5:00 P.M.	17.9	112.0
	Nov. 6, 1931	9:25 A.M.	18.0	112.1
c30907	Oct. 24, 1931	4:15 P.M.	22.1	110.7
c30909	Oct. 24, 1931	4:15 P.M.	18.9	106.3
c30910	Oct. 24, 1931	4:30 P.M.	18.7	109.4
c30911	Oct. 24, 1931	4:30 P.M.	17.8	110.7
	Oct. 29, 1931	5:15 P.M.	19.1	109.6
c30913	Oct. 24, 1931	4:45 P.M.	15.9	108.5
c30914	Oct. 25, 1931	9:40 A.M.	19.4	109.7
c30915	Oct. 25, 1931	5:45 P.M.	20.3	108.1

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Band No.	Date	Time	Weight	Temperature
o30916	Oct. 25, 1931	5:45 P.M.	19.6	110.7
o30917	Oct. 25, 1931	5:45 P.M.	21.9	105.0
o30918	Oct. 25, 1931	5:45 P.M.	18.7	111.3
o30866	Oct. 28, 1931	4:25 P.M.	20.4	109.9
o30921	Oct. 26, 1931	4:15 P.M.	18.9	110.3
o30922	Oct. 26, 1931		19.1	109.9
	Nov. 1, 1931	4:45 P.M.	16.9	109.3
o30923	Oct. 27, 1931	10:20 A.M.	18.4	109.6
	Nov. 4, 1931	10:00 A.M.	18.3	110.4
	Nov. 5, 1931	5:40 P.M.	18.3	109.3
o30925	Oct. 27, 1931	10:20 A.M.	17.7	109.7
	Oct. 27, 1931	5:40 P.M.	18.8	111.4
	Oct. 30, 1931	4:15 P.M.	19.3	110.1
o30926	Oct. 27, 1931	10:20 A.M.	17.9	110.0
o30928	Oct. 27, 1931	5:20 P.M.	21.1	109.2
o30929	Oct. 27, 1931	4:30 P.M.	17.7	110.1
o30931	Oct. 28, 1931	4:15 P.M.	20.7	111.3
o30933	Oct. 28, 1931	4:45 P.M.	21.3	112.1
o30935	Oct. 29, 1931	10:20 A.M.	17.4	
o30936	Oct. 29, 1931	10:20 A.M.	17.9	110.3
o30937	Oct. 29, 1931	5:15 P.M.	18.9	
o30938	Oct. 29, 1931	5:15 P.M.	18.9	107.1
o30939	Oct. 29, 1931	5:15 P.M.	19.0	110.5
	Dec. 1, 1931	5:30 P.M.	22.7	110.0
	Dec. 6, 1931	4:15 P.M.	22.6	109.2
o30940	Oct. 29, 1931	5:25 P.M.	21.1	109.2
o30941	Oct. 29, 1931	5:30 P.M.	20.2	111.5
	Oct. 30, 1931	4:25 P.M.	20.1	109.7
	Oct. 31, 1931	4:45 P.M.	20.3	110.5
o30942	Oct. 29, 1931	5:30 P.M.	19.7	110.6
	Nov. 3, 1931	5:10 P.M.	19.5	108.1
o30943	Oct. 29, 1931	5:35 P.M.	19.0	110.7
o30945	Oct. 31, 1931	10:20 A.M.	18.6	110.1
o30946	Oct. 31, 1931	10:20 A.M.	17.6	

[illegible]

Band No.	Date	Time	Weight	Temperature
	Nov. 10, 1931	9:45 A.M.	20.5	109.1
o30948	Nov. 1, 1931	4:35 P.M.	18.9	110.3
o30949	Nov. 1, 1931	4:45 P.M.	20.9	107.9
o30950	Nov. 3, 1931	5:30 P.M.	16.2	111.5
o30951	Nov. 4, 1931	10:00 A.M.	18.4	107.7
o30952	Nov. 4, 1931	5:00 P.M.	18.8	111.1
o30953	Nov. 4, 1931	5:10 P.M.	18.7	109.9
o30955	Nov. 5, 1931	5:30 P.M.	19.2	108.9
	Nov. 16, 1931	9:45 A.M.	16.9	110.5
	Nov. 19, 1931	5:30 P.M.	19.3	110.9
	Nov. 26, 1931	5:10 P.M.	19.3	
o30956	Nov. 26, 1931	5:30 P.M.	21.6	111.2
o30957	Nov. 26, 1931	5:30 P.M.	19.9	110.4
o30958	Nov. 26, 1931	5:30 P.M.	21.4	
o30959	Dec. 1, 1931		21.5	109.8
o30960	Dec. 1, 1931	5:20 P.M.	20.6	110.2
	Dec. 4, 1931	4:25 P.M.	20.7	110.0
	Jan. 10, 1932	9:45 A.M.	23.6	107.6
	Feb. 16, 1932	5:15 P.M.	22.4	111.4
	Mar. 6, 1932	5:20 P.M.	22.0	111.2
	Mar. 19, 1932	5:15 P.M.	18.9	112.0
	Mar. 21, 1932	5:30 P.M.	22.2	111.4
o30963	Dec. 4, 1931	4:30 P.M.	21.1	111.0
o30964	Dec. 4, 1931	4:30 P.M.	20.4	111.5
	Jan. 23, 1932	5:00 P.M.	22.3	108.0
o30965	Dec. 14, 1931	9:40 A.M.	20.8	108.5
o30967	Jan. 10, 1932	4:45 P.M.	21.0	110.0
	Jan. 11, 1932	10:25 A.M.	19.9	109.5
	Jan. 24, 1932	5:00 P.M.	20.2	110.2
	Jan. 30, 1932	10:10 A.M.	20.6	108.7
	Feb. 2, 1932	10:50 A.M.	19.3	108.5
	Feb. 3, 1932	4:55 P.M.	18.9	109.9
	Feb. 4, 1932	10:55 A.M.	17.5	110.8
	Feb. 7, 1932	10:30 A.M.	19.4	110.5
	Feb. 7, 1932	5:15 P.M.	20.9	110.8
	Feb. 8, 1932	5:35 P.M.	19.7	110.7
	Feb. 9, 1932	9:30 A.M.	18.8	110.4
	Feb. 9, 1932	5:45 P.M.	20.1	110.5
	Feb. 10, 1932	9:45 A.M.	19.9	110.6
	Feb. 11, 1932	9:30 A.M.	20.2	110.5
	Feb. 12, 1932	4:30 P.M.	18.5	110.4
	Feb. 13, 1932	4:30 P.M.	18.5	109.5

Band No.	Date	Time	Weight	Temperature
c30968	Jan. 11, 1932	10:20 A.M.	23.9	109.5
	Jan. 13, 1932	3:45 P.M.	24.2	110.1
	Jan. 15, 1932	4:05 P.M.	24.1	110.5
	Jan. 16, 1932	5:25 P.M.	23.0	110.7
	Jan. 17, 1932	4:00 P.M.	22.5	111.7
	Jan. 18, 1932	3:35 P.M.	21.1	109.9
	Jan. 19, 1932	5:00 P.M.	21.0	111.4
	Jan. 20, 1932	10:20 A.M.	21.4	110.0
	Jan. 20, 1932	5:20 P.M.	21.9	110.3
	Jan. 21, 1932	5:20 P.M.	21.7	110.3
	Jan. 22, 1932	5:05 P.M.	22.2	110.7
	Jan. 23, 1932	5:00 P.M.	21.7	109.9
	Jan. 24, 1932	9:05 A.M.	20.3	110.1
	Jan. 24, 1932	5:00 P.M.	20.6	110.0
	Jan. 25, 1932	1:15 P.M.	20.0	110.9
	Jan. 26, 1932	5:10 P.M.	22.2	110.4
	Jan. 27, 1932	5:15 P.M.	21.9	108.0
	Jan. 28, 1932	5:25 P.M.	21.6	111.5
	Jan. 30, 1932	10:10 A.M.	21.5	110.6
	Feb. 2, 1932	10:50 A.M.	21.3	111.2
	Feb. 2, 1932	5:20 P.M.	22.3	
c30969	Jan. 30, 1932	4:35 P.M.	22.1	108.5
	Feb. 2, 1932	10:50 A.M.	20.9	111.0
	Feb. 2, 1932	5:20 P.M.	20.9	110.2
	Feb. 4, 1932	10:55 A.M.	19.9	109.8
	Feb. 4, 1932	5:20 P.M.	18.0	110.8
	Mar. 9, 1932	5:20 P.M.	21.2	111.5
	Mar. 10, 1932	5:15 P.M.	21.1	110.4
	Mar. 21, 1932	5:30 P.M.	20.9	111.2
c30970	Mar. 6, 1932	5:20 P.M.	21.6	
	Mar. 9, 1932	5:20 P.M.	22.8	110.6
	Mar. 11, 1932	9:45 A.M.	23.1	109.8
c30973	Mar. 30, 1932	4:15 P.M.	22.6	110.9
c30975	Mar. 31, 1932	1:00 P.M.	21.0	109.6
c30977	Apr. 1, 1932	12:10 P.M.	23.0	109.3
c30978	Apr. 1, 1932	12:10 P.M.	19.7	111.3
c30979	Apr. 2, 1932	12:10 P.M.	21.4	109.9
	Apr. 10, 1932	11:00 A.M.	24.7	110.1
	Apr. 14, 1932	9:00 A.M.	21.0	109.0
	Apr. 15, 1932	9:00 A.M.	20.3	110.3
	Apr. 15, 1932	4:00 P.M.	21.4	111.3
	Apr. 19, 1932	4:00 P.M.	24.5	111.2
c30980	Apr. 4, 1932	4:30 P.M.	21.3	109.3
c30981	Apr. 4, 1932	4:30 P.M.	23.1	107.5
	Apr. 6, 1932	5:00 P.M.	20.2	110.0
	Apr. 7, 1932	9:30 A.M.	20.1	109.9
	Apr. 13, 1932	4:00 P.M.	16.3	109.9

Band No.	Date	Time	Weight	Temperature
c30986	Apr. 6, 1932	9:00 A.M.	22.8	108.5
	Apr. 15, 1932	9:00 A.M.	24.1	109.7
c30990	Apr. 6, 1932	5:00 P.M.	20.3	112.2
c30991	Apr. 7, 1932	9:30 A.M.	21.3	108.4
c30992	Apr. 7, 1932	5:00 P.M.	22.6	110.2
c30995	Apr. 8, 1932	5:00 P.M.	23.6	107.8
c30996	Apr. 8, 1932	5:00 P.M.	20.9	111.0
	Apr. 16, 1932	9:00 A.M.	20.0	
	Apr. 19, 1932	4:00 P.M.	19.7	111.5
c30997	Apr. 8, 1932	5:00 P.M.	20.7	108.7
	Apr. 13, 1932	9:00 A.M.	18.5	110.5
c30998	Apr. 9, 1932	10:00 A.M.	21.0	109.3
c30999	Apr. 9, 1932	10:00 A.M.	20.4	109.2
	Apr. 14, 1932	4:00 P.M.	22.3	110.0
	Apr. 16, 1932	9:00 A.M.	20.6	109.6
	Apr. 17, 1932	11:00 A.M.	20.2	110.8
	Apr. 18, 1932	9:00 A.M.	18.9	109.3
	Apr. 19, 1932	9:00 A.M.	19.0	110.0
	Apr. 20, 1932	4:00 P.M.	18.5	111.4
	Apr. 21, 1932	9:00 A.M.	18.0	111.5
	Apr. 22, 1932	9:00 A.M.	18.1	108.5
	Apr. 27, 1932	9:00 A.M.	22.3	109.6
	Apr. 28, 1932	9:00 A.M.	21.9	109.5
	Apr. 29, 1932	9:00 A.M.	20.9	109.9
	Apr. 30, 1932	4:00 P.M.	20.4	110.0
F78002	Apr. 9, 1932	10:00 A.M.	20.0	109.9
F78008	Apr. 9, 1932	10:00 A.M.	23.0	108.2
	Apr. 9, 1932	5:00 P.M.	23.8	109.4
F78009	Apr. 9, 1932	5:00 P.M.	23.9	108.4
F78010	Apr. 9, 1932	5:00 P.M.	23.2	109.9
F78011	Apr. 9, 1932	5:00 P.M.	25.0	108.1
F78013	Apr. 9, 1932	5:00 P.M.	18.8	109.9
F78015	Apr. 9, 1932	5:00 P.M.	23.2	109.5
F78016	Apr. 9, 1932	5:00 P.M.	21.9	109.5
F78017	Apr. 9, 1932	5:00 P.M.	19.5	110.5
F78018	Apr. 9, 1932	5:00 P.M.	18.7	110.0
F78019	Apr. 9, 1932	5:00 P.M.	24.8	109.2
F78020	Apr. 9, 1932	5:00 P.M.	22.2	111.4

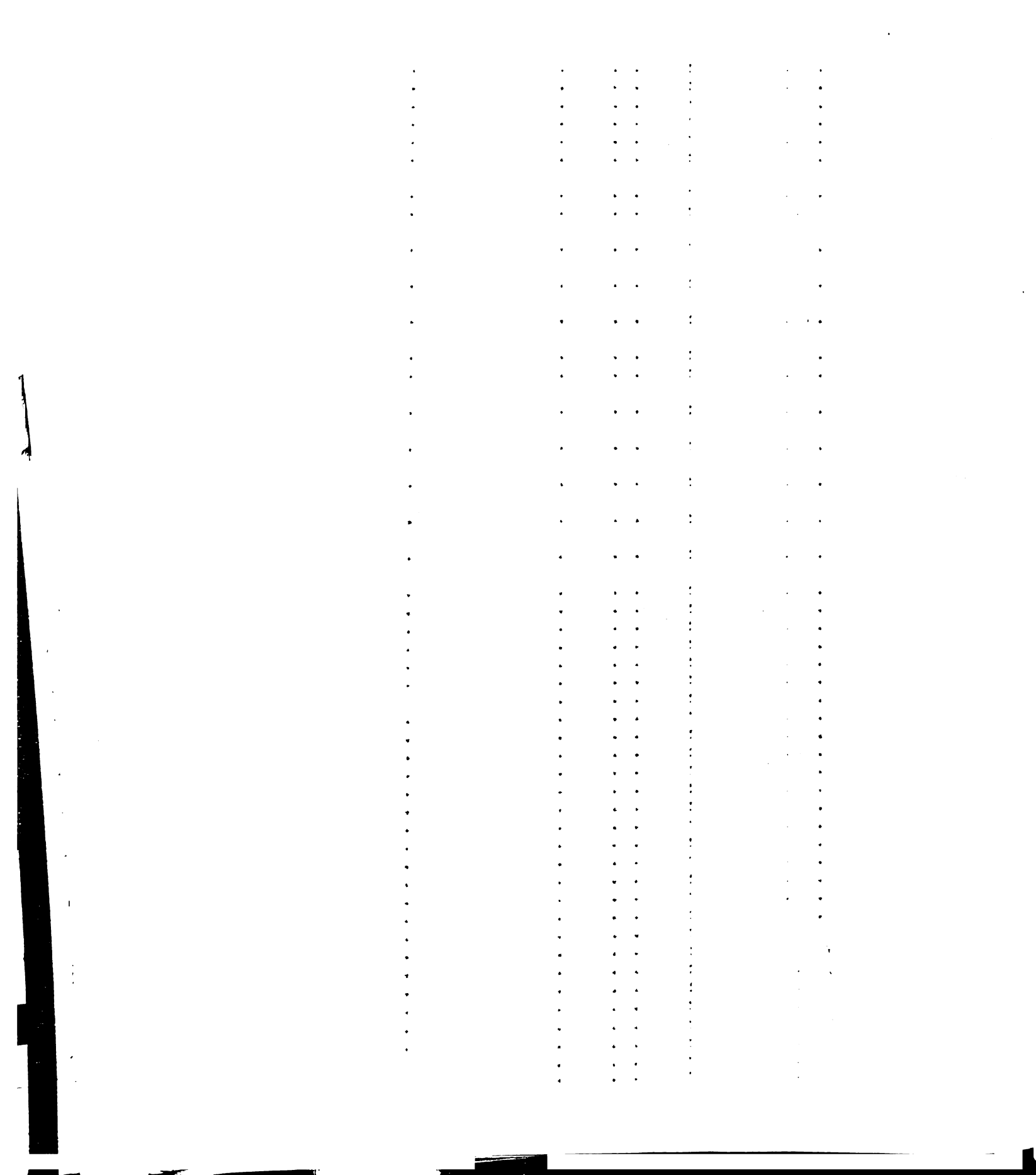
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Band No.	Date	Time	Weight	Temperature
F78021	Apr. 10, 1932	11:00 A.M.	23.5	109.2
F78022	Apr 10, 1932	11:00 A.M.	20.2	110.9
	Apr. 13, 1932	4:00 P.M.	19.4	111.2
	Apr. 15, 1932	4:00 P.M.	17.3	111.2
	Apr. 16, 1932	4:00 P.M.	17.2	111.7
	Apr. 18, 1932	4:00 P.M.	18.2	111.5
	Apr. 26, 1932	9:00 A.M.	21.0	109.7
	Apr. 27, 1932	4:00 P.M.	21.2	111.3
	Apr. 28, 1932	4:00 P.M.	22.2	111.2
F78023	Apr. 10, 1932	11:00 A.M.	20.7	109.7
F78025	Apr. 10, 1932	11:00 A.M.	19.9	109.7
F78026	Apr. 13, 1932	4:00 P.M.	16.6	111.0
	Apr. 14, 1932	4:00 P.M.	17.0	110.5
	Apr. 15, 1932	4:00 P.M.	15.8	111.9
	Apr. 16, 1932	9:00 A.M.	13.9	109.2
	Apr. 18, 1932	9:00 A.M.		108.5
	Apr. 18, 1932	4:00 P.M.	15.5	111.0
	Apr. 19, 1932	9:00 A.M.	16.0	110.8
	Apr. 20, 1932	4:00 P.M.	15.6	112.0
	Apr. 21, 1932	9:00 A.M.	15.7	110.5
	Apr. 26, 1932	9:00 A.M.	16.6	109.9
	Apr. 28, 1932	9:00 A.M.	15.2	109.9
	Apr. 29, 1932	9:00 A.M.	15.9	110.3
	Apr. 29, 1932	4:00 P.M.	15.7	110.5
	Apr. 30, 1932	9:00 A.M.	15.7	110.5
	May 1, 1932	9:00 A.M.	15.5	110.7
	May 1, 1932	4:00 P.M.	15.8	111.5
	May 2, 1932	4:00 P.M.	15.0	
F78028	Apr. 10, 1932	5:00 P. M	21.1	109.2
F78029	Apr. 10, 1932	5:00 P.M.	18.2	109.4
F78030	Apr. 10, 1932	5:00 P.M.	21.8	110.8
F78033	Apr. 15, 1932	9:00 A.M.	23.0	108.3
	Apr. 17, 1932	5:00 P.M.	22.6	111.6
F78039	Apr. 13, 1932	9:00 A.M.	19.2	108.3
	Apr. 14, 1932	9:00 A.M.	18.6	109.9
	Apr. 15, 1932	4:00 P.M.	20.7	109.1
F78042	Apr. 11, 1932	4:00 P.M.	24.8	109.6
F78043	Apr. 11, 1932	4:00 P.M.	23.5	
F78044	Apr. 11, 1932	4:00 P.M.	20.0	110.6
	Apr. 13, 1932	4:00 P.M.	17.5	110.3
	Apr. 16, 1932	4:00 P.M.	17.1	109.2
	Apr. 19, 1932	9:00 A.M.		109.5
	Apr. 20, 1932	9:00 A.M.	16.2	109.7
	Apr. 21, 1932	9:00 A.M.	16.7	110.5
	Apr. 23, 1932	4:00 P.M.	17.1	111.1

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Band No.	Date	Time	Weight	Temperature
	Apr. 24, 1932	11:00 A.M.	17.1	110.9
	Apr. 24, 1932	4:00 P.M.	18.4	111.3
	Apr. 26, 1932	9:00 A.M.	17.0	110.2
	Apr. 26, 1932	4:00 P.M.	18.5	110.8
	Apr. 27, 1932	4:00 P.M.	18.2	111.7
	Apr. 28, 1932	4:00 P.M.	18.4	110.8
	Apr. 29, 1932	9:00 A.M.	18.4	110.1
	Apr. 30, 1932	9:00 A.M.	18.7	110.4
	Apr. 30, 1932	4:00 P.M.	18.7	110.7
	May 1, 1932	9:00 A.M.		110.6
	May 2, 1932	4:00 P.M.	19.3	110.7
	May 3, 1932	4:00 P.M.	18.9	111.2
	May 4, 1932	9:00 A.M.	18.4	110.5
	May 7, 1932	10:00 A.M.	19.6	111.2
	May 7, 1932	4:00 P.M.	19.9	111.0
	May 10, 1932	9:00 A.M.	19.7	110.3
	May 11, 1932	4:00 P.M.	19.0	110.1
	May 12, 1932	9:00 A.M.	19.2	110.8
F78045	Apr. 11, 1932	4:00 P.M.	22.4	109.0
	Apr. 16, 1932	9:00 A.M.	21.4	109.0
F78046	Apr. 11, 1932	4:00 P.M.	22.2	110.1
F78047	Apr. 11, 1932	4:00 P.M.	23.6	110.6
F78048	Apr. 11, 1932	4:00 P.M.	23.1	107.8
F78050	Apr. 13, 1932	9:00 A.M.	19.5	110.0
	Apr. 13, 1932	4:00 P.M.	19.6	110.6
	Apr. 14, 1932	9:00 A.M.	18.5	109.1
	Apr. 15, 1932	4:00 P.M.	18.6	110.2
	Apr. 17, 1932	11:00 A.M.	17.8	110.8
	Apr. 21, 1932	4:00 P.M.	22.1	111.1
F78053	Apr. 13, 1932	9:00 A.M.	17.8	
	Apr. 13, 1932	4:00 P.M.	16.0	110.5
F78056	Apr. 13, 1932	4:00 P.M.	18.6	110.6
	Apr. 16, 1932	9:00 A.M.	17.5	108.7
	Apr. 17, 1932	11:00 A.M.	17.5	111.9
	Apr. 17, 1932	5:00 P.M.	18.0	111.4
F78060	Apr. 13, 1932	9:00 A.M.	18.7	108.3
F78061	Apr. 15, 1932	9:00 A.M.	19.2	109.5
	Apr. 17, 1932	5:00 P.M.	18.7	
F78064	Apr. 13, 1932	9:00 A.M.	17.2	109.7
	Apr. 13, 1932	4:00 P.M.	17.0	112.2
	Apr. 14, 1932	9:00 A.M.	15.8	110.7
	Apr. 14, 1932	4:00 P.M.	16.2	112.3
	Apr. 15, 1932	4:00 P.M.	14.6	112.2
F78066	Apr. 15, 1932	4:00 P.M.	21.0	111.0

Band No.	Date	Time	Weight	Temperature
F78068	Apr. 18, 1932	4:00 P.M.	20.9	111.7
	Apr. 20, 1932	4:00 P.M.	20.8	111.6
	Apr. 22, 1932	4:00 P.M.	21.8	111.0
	Apr. 25, 1932	9:00 A.M.	19.4	110.5
	Apr. 28, 1932	4:00 P.M.	19.3	110.1
	Apr. 30, 1932	4:00 P.M.	20.2	110.9
F78072	Apr. 26, 1932	4:00 P.M.	19.4	110.0
	May 3, 1932	4:00 P.M.	21.6	110.2
F78079	Apr. 17, 1932	11:00 A.M.	20.2	109.0
F78093	Apr. 14, 1932	9:00 A.M.	18.4	109.2
F78098	Apr. 15, 1932	4:00 P.M.	25.7	110.4
F78100	Apr. 16, 1932	4:00 P.M.	21.3	111.1
	Apr. 17, 1932	5:00 P.M.	22.0	111.1
F78101	Apr. 17, 1932	11:00 A.M.	22.0	110.3
F78106	Apr. 13, 1932	4:00 P.M.	20.6	109.5
F78112	Apr. 13, 1932	9:00 A.M.	18.5	109.4
F78115	Apr. 18, 1932	4:00 P.M.	19.8	111.5
F78116	Apr. 16, 1932	4:00 P.M.	20.1	110.5
F78122	Apr. 15, 1932	9:00 A.M.	18.3	110.6
	Apr. 16, 1932	9:00 A.M.	17.1	109.5
	Apr. 18, 1932	9:00 A.M.	16.3	108.6
	Apr. 20, 1932	9:00 A.M.	14.5	104.3
	Apr. 21, 1932	9:00 A.M.	14.2	110.0
	Apr. 21, 1932	4:00 P.M.	14.5	111.7
	Apr. 22, 1932	9:00 A.M.	14.1	
	Apr. 22, 1932	4:00 P.M.	14.2	111.3
	Apr. 23, 1932	4:00 P.M.	13.1	109.5
	Apr. 25, 1932	4:00 P.M.	13.8	112.4
	Apr. 26, 1932	9:00 A.M.	13.4	110.2
	Apr. 26, 1932	4:00 P.M.	15.0	110.4
	Apr. 27, 1932	4:00 P.M.	14.4	111.4
	Apr. 28, 1932	9:00 A.M.	13.5	110.7
	Apr. 28, 1932	4:00 P.M.	13.8	111.4
	Apr. 29, 1932	9:00 A.M.	14.6	111.4
	Apr. 29, 1932	4:00 P.M.	14.6	111.3
	Apr. 30, 1932	9:00 A.M.	14.7	111.3
	Apr. 30, 1932	4:00 P.M.	14.5	110.6
	May 1, 1932	9:00 A.M.	15.2	111.0
	May 2, 1932	4:00 P.M.	15.9	110.9
	May 3, 1932	9:00 A.M.	14.8	109.5
	May 4, 1932	9:00 A.M.	15.5	110.2
	May 5, 1932	4:00 P.M.	16.4	110.5
	May 6, 1932	4:00 P.M.	16.0	110.6
	May 7, 1932	10:00 A.M.	16.0	110.8
	May 8, 1932	9:00 A.M.	15.7	
	May 9, 1932	9:00 A.M.	15.4	109.6



Band No.	Date	Time	Weight	Temperature
	May 9, 1932	4:00 P.M.	16.5	111.0
	May 10, 1932	4:00 P.M.	16.8	110.5
	May 11, 1932	4:00 P.M.	16.8	111.0
	May 12, 1932	9:00 A.M.	16.1	110.4
	May 12, 1932	4:00 P.M.	16.3	110.5
	May 13, 1932	4:00 P.M.	16.8	110.9
	May 16, 1932	4:00 P.M.	20.1	112.5
	May 18, 1932	9:00 A.M.	19.0	111.5
	May 18, 1932	4:00 P.M.	18.9	111.5
	May 19, 1932	9:00 A.M.	17.4	111.0
F78127	Apr. 15, 1932	9:00 A.M.	23.2	109.7
	Apr. 17, 1932	11:00 A.M.	21.3	112.3
F78130	Apr. 13, 1932	9:00 A.M.	19.3	110.3
F78131	Apr. 13, 1932	9:00 A.M.	19.4	109.0
F78133	Apr. 13, 1932	9:00 A.M.	16.1	111.4
	Apr. 14, 1932	9:00 A.M.	15.4	110.9
	Apr. 15, 1932	4:00 P.M.	16.2	110.4
	Apr. 19, 1932	4:00 P.M.	15.3	111.0
	Apr. 24, 1932	11:00 A.M.	17.2	111.0
	Apr. 25, 1932	4:00 P.M.	16.4	110.7
F78134	Apr. 13, 1932	9:00 A.M.	22.0	110.6
	Apr. 14, 1932	4:00 P.M.	20.0	111.3
	Apr. 17, 1932	5:00 P.M.	22.2	112.1
	Apr. 18, 1932	9:00 A.M.	20.0	109.6
	Apr. 19, 1932	9:00 A.M.	19.4	109.6
F78138	Apr. 13, 1932	4:00 P.M.	24.1	108.5
F78139	Apr. 13, 1932	4:00 P.M.	22.9	109.5
F78140	Apr. 13, 1932	4:00 P.M.	16.6	111.0
	Apr. 17, 1932	5:00 P.M.	21.6	111.3
c30224	Apr. 13, 1932	4:00 P.M.	18.8	109.5
F78197	Apr. 14, 1932	9:00 A.M.	19.0	108.3
F78200	Apr. 14, 1932	9:00 A.M.	20.5	109.0
F78141	Apr. 14, 1932	4:00 P.M.	19.1	110.1
F78198	Apr. 15, 1932	9:00 A.M.	22.6	108.3
F78142	Apr. 15, 1932	9:00 A.M.	22.7	108.9
F78146	Apr. 15, 1932	9:00 A.M.	22.2	107.6
F78147	Apr. 15, 1932	9:00 A.M.	24.2	109.0
	Apr. 16, 1932	9:00 A.M.	21.8	109.0
F78148	Apr. 15, 1932	9:00 A.M.	26.8	108.9

[illegible]

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
F78150	Apr. 15, 1932	4:00 P.M.	25.6	
F78152	Apr. 15, 1932	4:00 P.M.	24.5	111.3
F78156	Apr. 16, 1932	9:00 A.M.	23.1	108.8
F78157	Apr. 16, 1932	9:00 A.M.	18.7	109.2
F78158	Apr. 17, 1932	11:00 A.M.	17.5	112.0
F78170	Apr. 16, 1932	4:00 P.M.	22.1	110.4
F78174	Apr. 17, 1932	5:00 P.M.	20.9	111.2
A173536	Apr. 22, 1932	9:00 A.M.	15.3	109.5
A173537	Apr. 18, 1932	9:00 A.M.	18.3	108.9
F78176	Apr. 18, 1932	4:00 P.M.	24.2	110.0
F78177	Apr. 18, 1932	4:00 P.M.	20.3	110.5
F78179	Apr. 19, 1932	9:00 A.M.	20.1	110.5
F78182	Apr. 19, 1932	4:00 P.M.	22.8	109.7
F78183	Apr. 20, 1932	4:00 P.M.	20.3	110.8
	Apr. 21, 1932	4:00 P.M.	19.9	111.3
F78186	Apr. 24, 1932	11:00 A.M.	20.7	110.5
F78189	Apr. 25, 1932	4:00 P.M.	18.9	111.7
	May 3, 1932	9:00 A.M.	20.9	109.0
	May 4, 1932	9:00 A.M.	19.2	109.7
	May 6, 1932	4:00 P.M.	19.3	110.2
	May 7, 1932	4:00 P.M.	18.9	110.4
	May 10, 1932	9:00 A.M.	19.0	109.5
F78191	Apr. 28, 1932	9:00 A.M.	23.8	108.6
F78192	Apr. 29, 1932	9:00 A.M.	20.9	108.8
F78201	May 1, 1932	9:00 A.M.	19.0	108.8
	May 3, 1932	9:00 A.M.	19.9	
F78202	May 1, 1932	9:00 A.M.	20.7	110.2
F78205	May 4, 1932	9:00 A.M.	17.6	110.6
c30289	Sept 30, 1932	10:00 A.M.	15.7	109.6
	Oct. 4, 1932	3:00 P.M.	17.9	109.2
c30290	Sept 28, 1932	10:00 A.M.	16.5	109.4
c30292	Oct. 3, 1932	5:00 P.M.	16.8	
c30293	Sept 28, 1932	10:00 A.M.	14.9	107.3
	Oct. 4, 1932	3:00 P.M.	17.0	

Band No.	Date	Time	Weight	Temperature
	Oct. 12, 1932	3:00 P.M.	15.1	
c30294	Sept 28, 1932	10:00 A.M.	14.7	107.2
A173959	Sept 28, 1932	3:00 P.M.	16.3	
c30296	Sept 28, 1932	3:15 P.M.	18.8	108.9
c30303	Sept 28, 1932	5:00 P.M.	19.4	109.2
c30314	Sept 29, 1932	3:00 P.M.	17.3	109.9
	Oct. 5, 1932	3:00 P.M.	16.9	109.6
	Oct. 19, 1932	3:00 P.M.	18.6	
	Oct. 26, 1932	10:00 A.M.	18.8	110.3
	Oct. 30, 1932	4:00 P.M.	19.7	111.4
c30323	Sept 30, 1932	3:00 P.M.	17.1	110.1
c30324	Sept 30, 1932	3:00 P.M.	16.9	111.4
c30327	Oct. 3, 1932	3:00 P.M.	18.5	109.5
c30329	Oct. 3, 1932	5:00 P.M.	18.8	108.5
	Oct. 7, 1932	4:30 P.M.	16.8	110.0
	Oct. 26, 1932	10:00 A.M.	20.3	
	Oct. 31, 1932	3:00 P.M.	19.3	
	Nov. 8, 1932	5:00 P.M.	18.5	
c30330	Oct. 4, 1932	10:00 A.M.	17.6	109.6
c30333	Oct. 4, 1932	3:00 P.M.	19.1	109.0
c30338	Oct. 5, 1932	10:00 A.M.	19.3	108.3
	Oct. 7, 1932	4:30 P.M.	18.3	110.3
	Oct. 12, 1932	3:00 P.M.	18.1	
	Oct. 19, 1932	5:00 P.M.	20.5	
	Nov. 12, 1932	10:00 A.M.	20.7	
c30345	Oct. 6, 1932	5:00 P.M.	19.3	108.0
c30348	Oct. 7, 1932	10:00 A.M.	17.8	110.4
	Oct. 12, 1932	3:00 P.M.	16.6	
c30351	Oct. 7, 1932	10:00 A.M.	16.4	110.3
	Oct. 18, 1932	5:00 P.M.	18.2	
c30354	Oct. 30, 1932	10:00 A.M.	19.6	
A173809	Oct. 13, 1932	3:00 P.M.	17.1	
	Oct. 25, 1932	3:00 P.M.	20.1	

Band No.	Date	Time	Weight	Temperature
A173812	Oct. 27, 1932	3:00 P.M.	19.2	
A173813	Oct. 17, 1932	5:00 P.M.	15.7	
A173817	Oct. 12, 1932	3:00 P.M.	18.6	
c30355	Oct. 10, 1932	10:00 A.M.	22.1	110.2
c30360	Oct. 11, 1932	10:00 A.M.	20.2	108.4
A173832	Oct. 12, 1932	3:00 P.M.	18.5	
	Oct. 26, 1932	5:00 P.M.	19.7	
A173833	Oct. 12, 1932	3:00 P.M.	19.0	
	Oct. 27, 1932	10:00 A.M.	20.8	
A173834	Oct. 12, 1932	3:00 P.M.	19.6	
F78304	Oct. 13, 1932	3:00 P.M.	16.1	
	Oct. 25, 1932	5:00 P.M.	15.7	
	Oct. 27, 1932	10:00 A.M.	16.2	
	Oct. 28, 1932	3:00 P.M.	14.6	
	Oct. 31, 1932	5:00 P.M.	17.1	
	Nov. 1, 1932	3:00 P.M.	15.9	111.6
	Nov. 2, 1932	4:00 P.M.	15.8	
F78307	Oct. 13, 1932	3:00 P.M.	17.8	
	Oct. 26, 1932	10:00 A.M.	17.0	
	Oct. 31, 1932	3:00 P.M.	18.8	110.2
F78317	Oct. 13, 1932	5:00 P.M.	19.8	
F78312	Oct. 14, 1932	10:00 A.M.	17.2	
	Nov. 12, 1932	10:00 A.M.	18.1	
	Feb. 7, 1933	5:00 P.M.	22.3	
	Mar. 1, 1933	12:00 A.M.	17.5	111.7
	Mar. 2, 1933	12:00 A.M.	16.8	111.1
	Mar. 6, 1933	5:00 P.M.	20.5	110.8
	Apr. 11, 1933	2:00 P.M.	19.3	109.9
F78308	Oct. 4, 1932	10:00 A.M.	18.6	
	Oct. 26, 1932	10:00 A.M.	17.6	
F78313	Oct. 14, 1932	10:00 A.M.	16.6	
F78314	Oct. 17, 1932	5:00 P.M.	17.7	
A173847	Oct. 25, 1932	3:00 P.M.	18.6	
	Nov. 2, 1932	4:00 P.M.	18.7	
	Nov. 10, 1932	10:00 A.M.	17.6	
	Nov. 11, 1932	5:00 P.M.	19.0	
A173851	Oct. 23, 1932	10:00 A.M.	20.2	
A173843	Oct. 19, 1932	3:00 P.M.	18.9	
	Oct. 27, 1932	3:00 P.M.	18.0	
	Feb. 3, 1933	5:00 P.M.	21.9	111.1

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
F78301	Oct. 28, 1932	10:00 A.M.	18.4	
	Nov. 2, 1932	4:00 P.M.	17.0	
	Nov. 8, 1932	5:00 P.M.	18.6	
B90349	Oct. 25, 1932	3:00 P.M.	15.8	
	Oct. 26, 1932	10:00 A.M.	15.2	109.8
	Oct. 26, 1932	5:00 P.M.	15.3	
	Oct. 27, 1932	10:00 A.M.	14.7	
	Oct. 27, 1932	3:00 P.M.	15.0	
B90353	Nov. 12, 1932	5:00 P.M.	18.3	
B90361	Oct. 17, 1932	10:00 A.M.	19.1	
B90363	Oct. 17, 1932	10:00 A.M.	19.0	
B90364	Oct. 17, 1932	10:00 A.M.	18.7	
B90365	Oct. 17, 1932	3:00 P.M.	17.6	
B90367	Oct. 17, 1932	3:00 P.M.	20.2	
B90368	Oct. 17, 1932	3:00 P.M.	20.0	
B90369	Oct. 17, 1932	3:00 P.M.	18.4	
B90372	Oct. 18, 1932	3:00 P.M.	19.0	
B90374	Oct. 27, 1932	3:00 P.M.	18.6	
	Oct. 30, 1932	4:00 P.M.	18.7	111.9
	Dec. 6, 1932	5:00 P.M.	17.6	
B90375	Oct. 18, 1932	3:00 P.M.	18.6	
B90376	Oct. 18, 1932	3:00 P.M.	17.2	
B90377	Oct. 18, 1932	3:00 P.M.	17.7	
B90378	Oct. 18, 1932	5:00 P.M.	21.5	
B90379	Oct. 18, 1932	5:00 P.M.	19.7	
	Nov. 7, 1932	3:00 P.M.	19.1	
	Nov. 10, 1932	3:00 P.M.	17.3	
	Nov. 14, 1932	10:00 A.M.	16.7	
	Nov. 14, 1932	4:30 P.M.	18.6	
	Nov. 16, 1932	5:00 P.M.	17.4	
	Nov. 17, 1932	10:00 A.M.	16.3	
	Nov. 18, 1932	5:00 P.M.	16.5	
	Nov. 19, 1932	10:00 A.M.	14.9	
B90380	Oct. 29, 1932	5:00 P.M.	19.8	111.5
B90381	Oct. 19, 1932	10:00 A.M.	15.2	
B90382	Oct. 19, 1932	10:00 A.M.	19.9	
B90383	Oct. 19, 1932	10:00 A.M.	19.1	

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
B90384	Oct. 19, 1932	10:00 A.M.	19.3	
B90385	Oct. 19, 1932	10:00 A.M.	21.2	
B90386	Oct. 19, 1932	3:00 P.M.	21.1	
B90387	Oct. 19, 1932	3:00 P.M.	19.3	
B90388	Oct. 19, 1932	3:00 P.M.	20.5	
B90389	Oct. 19, 1932	3:00 P.M.	20.3	
B90392	Oct. 19, 1932	3:00 P.M.	18.3	
B90393	Oct. 19, 1932	5:00 P.M.	18.3	
B90394	Oct. 19, 1932	5:00 P.M.	21.1	
B90395	Oct. 20, 1932	10:00 A.M.	20.4	
B90396	Nov. 11, 1932	3:00 P.M.	18.4	
B90397	Oct. 20, 1932	10:00 A.M.	16.3	
B90400	Oct. 20, 1932	10:00 A.M.	22.1	
	Oct. 24, 1932	3:00 P.M.	20.4	
	Oct. 28, 1932	10:00 A.M.	18.4	
	Nov. 7, 1932	3:00 P.M.	20.8	
B90401	Oct. 20, 1932	10:00 A.M.	19.2	
	Oct. 26, 1932	10:00 A.M.	18.5	
B90402	Oct. 20, 1932	10:00 A.M.	20.4	
	Nov. 12, 1932	10:00 A.M.	20.1	
	Feb. 1, 1933	5:00 P.M.	23.5	
B90407	Oct. 20, 1932	3:00 P.M.	19.3	
B90408	Oct. 20, 1932	3:00 P.M.	21.5	
B90412	Oct. 20, 1932	3:00 P.M.	16.6	
B90413	Oct. 20, 1932	3:00 P.M.	19.1	
F78402	Oct. 20, 1932	5:00 P.M.	18.6	
F78403	Nov. 12, 1932	10:00 A.M.	16.7	
F78401	Oct. 21, 1932	10:00 A.M.	17.9	
F78404	Oct. 21, 1932	10:00 A.M.	17.9	
	Oct. 24, 1932	5:00 P.M.	17.5	
F78405	Oct. 21, 1932	10:00 A.M.	16.7	
F78407	Oct. 21, 1932	10:00 A.M.	16.2	
F78409	Oct. 21, 1932	10:00 A.M.	19.1	

Band No.	Date	Time	Weight	Temperature
F78411	Oct. 21, 1932	10:00 A.M.	18.3	
F78410	Oct. 21, 1932	10:00 A.M.	20.4	
F78412	Oct. 21, 1932	3:00 P.M.	19.3	
F78413	Oct. 21, 1932	5:00 P.M.	17.1	
F78414	Oct. 21, 1932	3:00 P.M.	18.7	
	Nov. 2, 1932	4:00 P.M.	22.3	
F78415	Oct. 21, 1932	5:00 P.M.	17.1	
F78416	Oct. 21, 1932	5:00 P.M.	17.4	
F78417	Oct. 21, 1932	5:00 P.M.	20.5	
	Oct. 23, 1932	4:00 P.M.	18.8	
	Oct. 27, 1932	5:00 P.M.	18.7	
	Oct. 30, 1932	10:00 A.M.	15.3	
	Oct. 31, 1932	3:00 P.M.	14.6	
F78418	Oct. 21, 1932	5:00 P.M.	21.1	
604674	Oct. 27, 1932	3:00 P.M.	19.1	
	Nov. 8, 1932	3:00 P.M.	19.1	
604631	Oct. 26, 1932	5:00 P.M.	17.6	
604636	Oct. 29, 1932	5:00 P.M.	17.9	112.0
604637	Oct. 28, 1932	3:00 P.M.	19.5	
604638	Nov. 2, 1932	4:00 P.M.	17.9	
604639	Oct. 23, 1932	10:00 A.M.	22.0	
604641	Oct. 23, 1932	4:00 P.M.	19.2	
F78420	Oct. 24, 1932	10:00 A.M.	18.8	110.4
	Oct. 28, 1932	10:00 A.M.	18.4	
	Oct. 28, 1932	3:00 P.M.	18.2	
	Nov. 10, 1932	5:00 P.M.	21.7	
F78421	Oct. 24, 1932	3:00 P.M.	19.6	
F78422	Oct. 24, 1932	3:00 P.M.	17.6	
F78423	Oct. 25, 1932	10:00 A.M.	18.5	
F78425	Nov. 2, 1932	4:00 P.M.	18.4	
F78426	Oct. 26, 1932	3:00 P.M.	17.2	
F78427	Oct. 26, 1932	3:00 P.M.	20.2	
F78430	Oct. 27, 1932	10:00 A.M.	16.7	

Band No.	Date	Time	Weight	Temperature
F78433	Oct. 27, 1932	3:00 P.M.	18.7	
	Oct. 28, 1932	10:00 A.M.	17.2	
	Nov. 3, 1932	3:00 P.M.	19.8	
F78434	Nov. 9, 1932	3:00 P.M.	17.0	
	Nov. 10, 1932	3:00 P.M.	15.8	
	Nov. 16, 1932	5:00 P.M.	17.6	
F78435	Oct. 28, 1932	10:00 A.M.	20.1	
F78436	Oct. 28, 1932	10:00 A.M.	20.8	
	Nov. 3, 1932	5:00 P.M.	21.5	
F78438	Oct. 28, 1932	3:00 P.M.	19.3	
F78439	Oct. 28, 1932	5:00 P.M.	20.0	
604651	Oct. 30, 1932	10:00 A.M.	15.7	
604676	Nov. 13, 1932	10:00 A.M.	17.3	
	Nov. 15, 1932	10:00 A.M.	17.3	
604677	Oct. 30, 1932	10:00 A.M.	19.5	
F78440	Oct. 31, 1932	10:00 A.M.	21.6	
F78446	Nov. 2, 1932	10:00 A.M.	18.2	
	Nov. 11, 1932	10:00 A.M.	19.6	
	Nov. 19, 1932	10:00 A.M.	17.0	
	Nov. 26, 1932	10:00 A.M.	17.5	
	Dec. 1, 1932	5:00 P.M.	20.1	
F78447	Nov. 2, 1932	10:00 A.M.	18.9	
F78448	Nov. 2, 1932	10:00 A.M.	18.9	
F78449	Nov. 2, 1932	10:00 A.M.	21.1	
F78451	Nov. 2, 1932	5:00 P.M.	19.0	
F78452	Nov. 2, 1932	5:00 P.M.	17.1	
F78453	Nov. 3, 1932	10:00 A.M.	19.4	110.6
	Nov. 7, 1932	3:00 P.M.	18.7	
F78454	Nov. 3, 1932	10:00 A.M.	18.4	
	Feb. 6, 1933	12:00 A.M.	21.3	109.4
	Feb. 7, 1933	5:00 P.M.	23.0	
	Feb. 9, 1933	5:00 P.M.	20.3	108.6
	Feb. 13, 1933	5:00 P.M.	21.3	110.1
	Feb. 21, 1933	12:00 A.M.	19.6	
	Feb. 22, 1933	12:00 A.M.	18.4	110.5
F78455	Nov. 4, 1932	10:00 A.M.	16.9	
F78456	Nov. 4, 1932	10:00 A.M.	18.5	
	Nov. 11, 1932	3:00 P.M.	22.4	

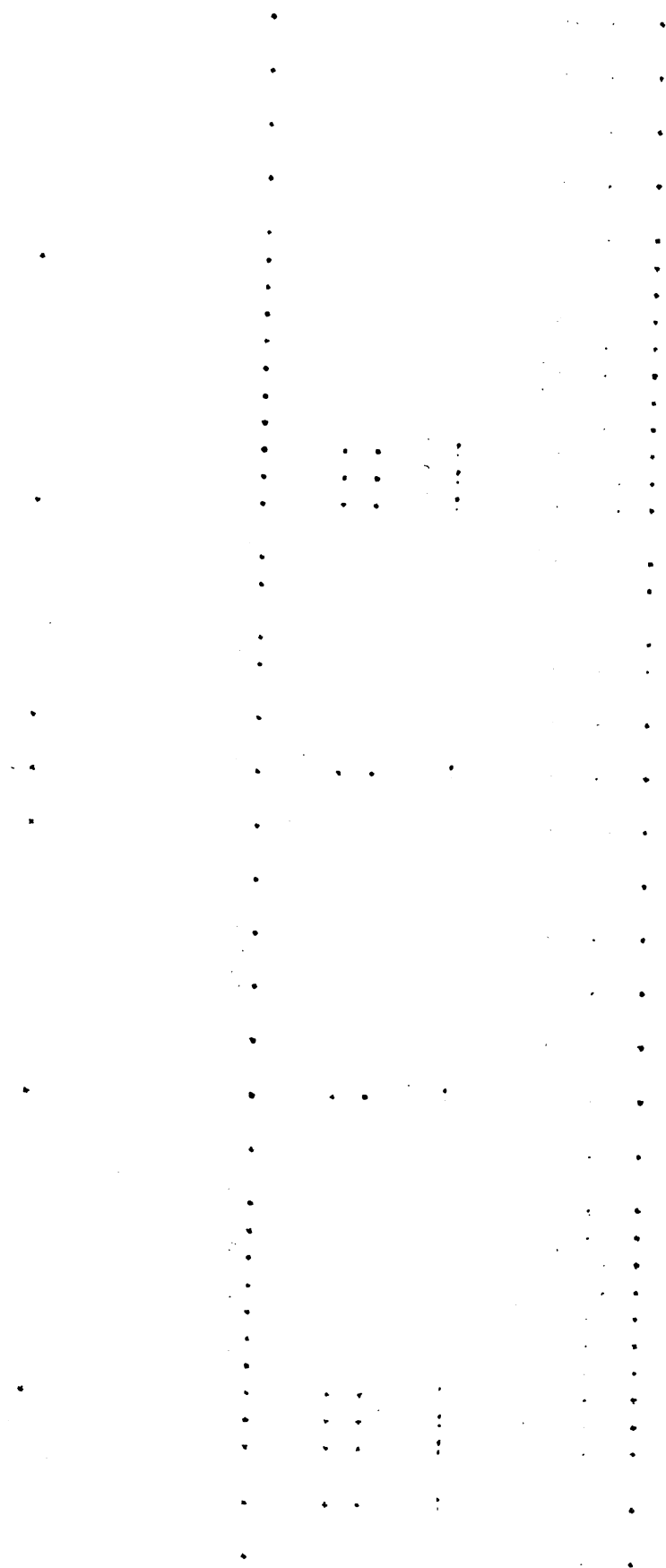
[illegible]

Band No.	Date	Time	Weight	Temperature
F78457	Nov. 4, 1932	10:00 A.M.	15.7	
	Nov. 7, 1932	5:00 P.M.	16.5	
604679	Nov. 5, 1932	10:00 A.M.	16.1	
	Feb. 9, 1933	5:00 P.M.	19.6	105.6
F78460	Nov. 7, 1932	5:00 P.M.	18.9	
F78461	Nov. 8, 1932	5:00 P.M.	19.8	
	Nov. 11, 1932	5:00 P.M.	19.6	
F78462	Nov. 9, 1932	5:00 P.M.	20.8	
	Nov. 18, 1932	10:00 A.M.	18.3	
	Nov. 19, 1932	10:00 A.M.	18.1	
	Nov. 21, 1932	5:00 P.M.	20.7	
	Nov. 22, 1932	5:00 P.M.	19.5	
F78463	Nov. 10, 1932	10:00 A.M.	19.6	
F78464	Nov. 10, 1932	3:00 P.M.	20.6	
604682	Nov. 12, 1932	10:00 A.M.	22.3	
604683	Nov. 12, 1932	5:00 P.M.	22.0	
604684	Nov. 12, 1932	5:00 P.M.	23.8	
F78466	Nov. 14, 1932	3:00 P.M.	17.7	
F78467	Nov. 14, 1932	3:00 P.M.	18.2	
F78468	Nov. 14, 1932	3:00 P.M.	22.3	
F78469	Nov. 14, 1932	3:00 P.M.	18.9	
F78470	Nov. 14, 1932	4:30 P.M.	19.5	
F78471	Nov. 15, 1932	10:00 A.M.	21.1	
F78472	Nov. 15, 1932	10:00 A.M.	20.6	
F78475	Nov. 17, 1932	10:00 A.M.	17.2	
F78476	Nov. 18, 1932	5:00 P.M.	20.3	
F78477	Nov. 18, 1932	5:00 P.M.	21.3	
F78478	Nov. 18, 1932	5:00 P.M.	23.3	
F78479	Nov. 18, 1932	5:00 P.M.	21.3	
A134804	Oct. 7, 1932	9:00 A.M.	18.6	109.3
A134816	Oct. 11, 1932		18.1	108.0
F78264	Oct. 12, 1932		18.7	

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Band No.	Date	Time	Weight	Temperature
F78270	Oct. 13, 1932		21.6	
F78271	Oct. 13, 1932	5:30 P.M.	18.7	
F78272	Oct. 13, 1932		19.3	
F78273	Oct. 13, 1932		19.2	
A182044	Oct. 14, 1932		18.1	
A182045	Oct. 14, 1932	3:00 P.M.	16.3	
A182046	Oct. 14, 1932		19.4	
A182047	Oct. 14, 1932		17.6	
A182048	Oct. 14, 1932		19.4	
A182049	Oct. 14, 1932		16.1	
	Nov. 3, 1932		16.8	110.8
A182050	Oct. 14, 1932		18.1	
A182052	Oct. 14, 1932		17.7	
A182055	Nov. 23, 1932		22.2	
A182130	Oct. 26, 1932		18.9	
	Nov. 2, 1932		20.2	
	Nov. 3, 1932		19.7	
F78322	Oct. 17, 1932	11:00 A.M.	17.5	
F78324	Oct. 17, 1932		18.7	
	Oct. 25, 1932		17.0	
F78325	Oct. 17, 1932		22.2	
F78328	Oct. 17, 1932		18.3	
A182135	Oct. 17, 1932		20.4	
A182138	Oct. 17, 1932		17.2	
A182140	Oct. 17, 1932		19.7	
A182141	Oct. 17, 1932		16.5	
	Oct. 24, 1932		15.8	
	Oct. 27, 1932		16.1	
	Nov. 10, 1932		18.9	
A182144	Oct. 17, 1932		16.8	
F78329	Oct. 18, 1932		17.6	
	Oct. 28, 1932		18.6	
	Oct. 31, 1932		18.5	
	Nov. 2, 1932		19.3	

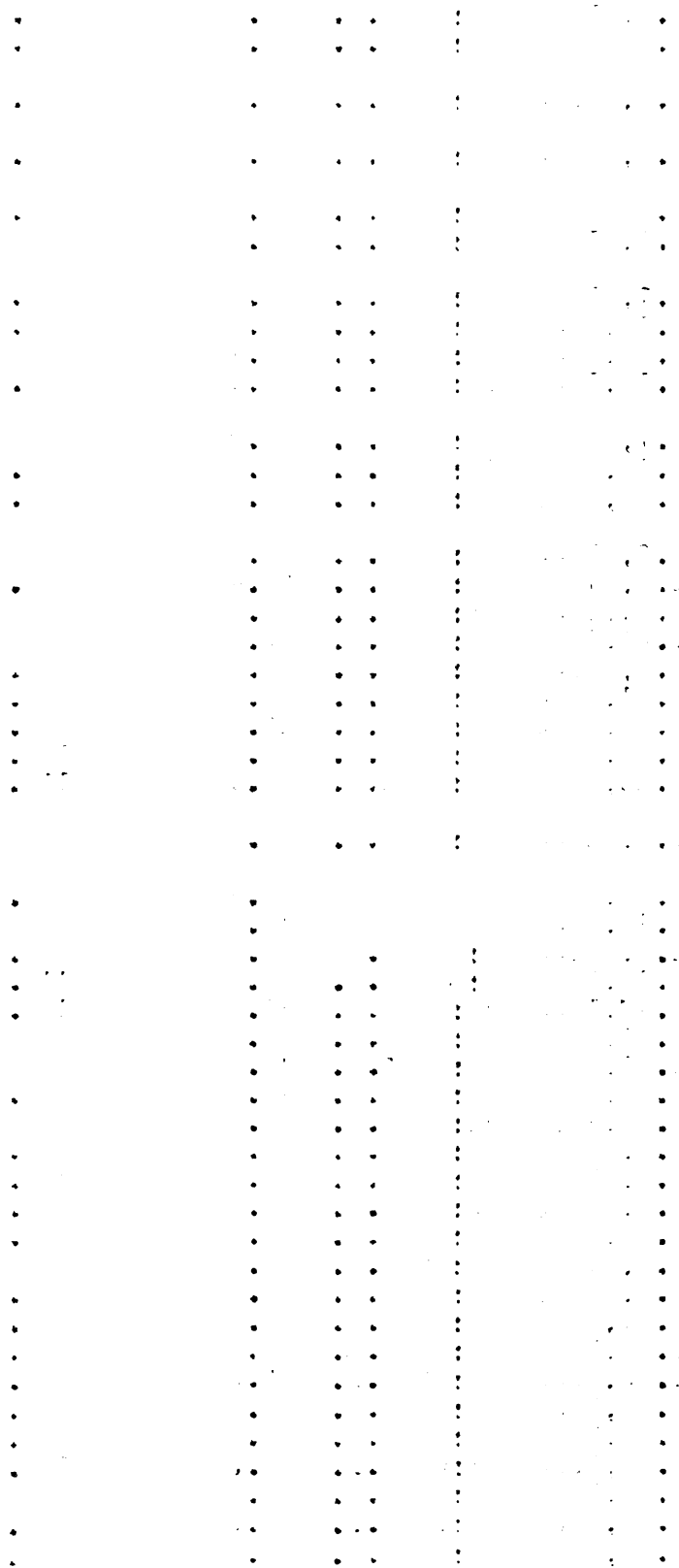
Band No.	Date	Time	Weight	Temperature
F78330	Oct. 18, 1932		19.5	
F78331	Oct. 18, 1932		17.4	
F78333	Oct. 18, 1932		17.1	
A182071	Oct. 21, 1932		18.8	
A182078	Oct. 28, 1932		16.4	
	Oct. 29, 1932		15.3	110.6
	Nov. 11, 1932		17.8	
	Nov. 12, 1932		17.7	
	Nov. 12, 1932		18.6	
	Nov. 17, 1932		17.3	
	Nov. 18, 1932		17.4	
	Nov. 23, 1932		19.3	
	Dec. 15, 1932	5:00 P.M.	22.8	
	Feb. 7, 1933	5:00 P.M.	21.5	
	Mar. 7, 1933	12:00 A.M.	18.8	109.8
A182082	Oct. 27, 1932		18.5	
	Oct. 28, 1932		16.9	
A182088	Oct. 31, 1932		17.2	
	Nov. 10, 1932		17.6	
A182090	Oct. 31, 1932		17.5	109.9
A182096	Oct. 24, 1932	11:00 A.M.	17.6	110.9
A182097	Oct. 24, 1932		20.4	109.2
A182104	Oct. 24, 1932		20.0	
A182105	Oct. 24, 1932		19.9	
A182106	Oct. 24, 1932		18.9	
A182107	Oct. 24, 1932		20.6	
F78278	Oct. 25, 1932	11:00 A.M.	19.2	110.3
F78288	Oct. 26, 1932		21.5	
F78289	Oct. 26, 1932		19.6	
	Oct. 31, 1932		17.4	
	Nov. 2, 1932		16.7	
	Nov. 9, 1932		17.7	
	Nov. 11, 1932		17.8	
	Nov. 12, 1932		17.0	
	Nov. 12, 1932		17.5	
	Feb. 6, 1933	12:00 A.M.	20.5	109.7
	Feb. 7, 1933	5:00 P.M.	18.9	
	Feb. 8, 1933	5:00 P.M.	16.8	
A182115	Oct. 28, 1932	10:00 A.M.	15.9	
A182116	Oct. 28, 1932		18.2	



<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
A182117	Oct. 28, 1932		18.0	
	Nov. 11, 1932		19.7	
A182118	Oct. 28, 1932		18.0	
A182119	Oct. 31, 1932	7:00 A.M.	18.3	
A182121	Oct. 31, 1932		19.4	
A182122	Oct. 31, 1932		17.8	110.7
	Nov. 3, 1932		16.7	
	Nov. 10, 1932		18.9	
A182123	Oct. 31, 1932		17.2	111.6
A182124	Oct. 31, 1932		20.2	
	Nov. 3, 1932		18.8	
	Nov. 9, 1932		20.4	
A182125	Oct. 31, 1932		18.3	109.5
A182126	Oct. 31, 1932		18.8	113.6
A182148	Nov. 1, 1932		18.7	107.3
A182149	Nov. 1, 1932		20.5	107.0
	Nov. 14, 1932		21.4	
	Nov. 21, 1932		20.9	
	Nov. 22, 1932		22.5	
F78296	Nov. 1, 1932	11:00 A.M.	18.7	
F78297	Nov. 1, 1932		18.6	
	Nov. 12, 1932		19.6	
F78298	Nov. 1, 1932		18.6	
	Nov. 3, 1932		17.0	
F78299	Nov. 1, 1932		18.4	
F78351	Nov. 2, 1932	8:00 A.M.	19.5	
A182154	Nov. 2, 1932		18.4	
F78352	Nov. 2, 1932	11:00 A.M.	19.3	
F78354	Nov. 2, 1932		20.0	
A182155	Nov. 3, 1932	7:00 A.M.	17.9	
F78355	Nov. 2, 1932		17.5	
A182159	Nov. 4, 1932		18.2	
A182165	Nov. 7, 1932	3:00 P.M.	19.0	
	Nov. 12, 1932		20.6	
A182166	Nov. 7, 1932		20.5	

Band No.	Date	Time	Weight	Temperature
A182168	Nov. 8, 1932		19.4	
A182169	Nov. 8, 1932		18.7	
F78361	Nov. 8, 1932	3:00 P.M.	22.4	
	Nov. 14, 1932		21.3	
A182172	Nov. 10, 1932		18.4	
A182173	Nov. 11, 1932		18.4	
A182174	Nov. 11, 1932		18.5	
F78474	Jan. 30, 1933	5:30 P.M.	25.7	109.9
	Jan. 31, 1933	12:00 A.M.	22.6	111.3
	Feb. 2, 1933	12:00 A.M.	22.0	111.8
	Feb. 6, 1933	12:00 A.M.	26.4	111.5
	Feb. 7, 1933	5:00 P.M.	25.0	
A182167	Jan. 31, 1933	12:00 A.M.	18.1	112.0
	Feb. 2, 1933	12:00 A.M.	19.2	106.5
F78484	Jan. 31, 1933	12:00 A.M.	21.1	110.2
	Feb. 2, 1933	12:00 A.M.	20.0	110.8
	Feb. 6, 1933	12:00 A.M.	20.8	
F78485	Jan. 31, 1933	12:00 A.M.	21.1	111.2
	Feb. 3, 1933	5:00 P.M.	21.6	
	Feb. 6, 1933	12:00 A.M.	20.1	110.9
	Feb. 9, 1933	5:00 P.M.	18.1	107.5
F78487	Feb. 2, 1933	12:00 A.M.	19.7	110.4
	Feb. 3, 1933	5:00 P.M.	19.3	110.8
	Feb. 6, 1933	5:00 P.M.	20.5	111.1
	Feb. 7, 1933	5:00 P.M.	19.6	
F78488	Feb. 3, 1933	5:00 P.M.	21.6	108.9
	Feb. 6, 1933	12:00 A.M.	19.8	109.3
F78482	Feb. 6, 1933	12:00 A.M.	19.0	111.0
	Feb. 7, 1933	5:00 P.M.	19.1	
	Feb. 8, 1933	5:00 P.M.	20.6	
F78489	Feb. 6, 1933	12:00 A.M.	19.9	110.1
	Feb. 7, 1933	5:00 P.M.	18.8	
	Feb. 9, 1933	12:00 A.M.	16.0	108.3
	Feb. 9, 1933	5:00 P.M.	15.7	105.7
F78491	Feb. 6, 1933	5:00 P.M.	22.9	109.2
	Feb. 9, 1933	5:00 P.M.	20.2	108.3
	Feb. 14, 1933	12:00 A.M.	18.9	110.5
	Feb. 16, 1933	5:00 P.M.	19.5	
F78493	Feb. 7, 1933	12:00 A.M.	17.9	109.7
F78494	Feb. 7, 1933	12:00 A.M.	23.6	109.7
	Feb. 7, 1933	5:00 P.M.	23.3	

Band No.	Date	Time	Weight	Temperature
	Feb. 9, 1933	12:00 A.M.	19.8	107.7
	Feb. 10, 1933	12:00 A.M.	14.6	102.8
F78495	Feb. 7, 1933	12:00 A.M.	21.3	110.2
F78496	Feb. 7, 1933	12:00 A.M.	22.1	108.9
F78497	Feb. 7, 1933	12:00 A.M.	21.8	109.8
	Feb. 8, 1933	5:00 P.M.	21.0	
F78498	Feb. 7, 1933	12:00 A.M.	22.6	109.7
	Feb. 15, 1933	5:00 P.M.	23.6	110.2
	Feb. 16, 1933	5:00 P.M.	22.1	
	Mar. 16, 1933	5 :00 P.M.	22.1	109.4
o30365	Feb. 7, 1933	5:00 P.M.	20.7	
	Feb. 14, 1933	12:00 A.M.	17.9	111.1
	Feb. 15, 1933	12:00 A.M.	16.3	110.0
F78363	Feb. 7, 1933	5:00 P.M.	25.0	
	Feb. 9, 1933	5:00 P.M.	21.4	108.3
	Feb. 21, 1933	5:00 P.M.	20.3	
	Mar. 20, 1933	12:00 A.M.	19.0	
	Apr. 7, 1933	5:00 P.M.	20.9	110.7
	Apr. 11, 1933	2:00 P.M.	18.7	109.6
	Apr. 12, 1933	11:00 A.M.	17.5	110.7
	Apr. 13, 1933	1:00 P.M.	17.5	111.5
	Apr. 19, 1933	11:00 A.M.	18.4	110.2
F78364	Feb. 8, 1933	5:00 P.M.	23.2	
A182132	Oct. 31, 1932		22.3	111.6
	Nov. 12, 1932		19.2	
	Feb. 9, 1933	5:00 P.M.	20.8	108.3
	Feb. 13, 1933	5:00 P.M.	20.4	110.8
	Feb. 17, 1933	12:00 A.M.	19.3	110.8
	Feb. 21, 1933	12:00 A.M.	17.9	
	Feb. 21, 1933	5:00 P.M.	19.9	
	Feb. 22, 1933	5:00 P.M.	19.3	111.0
	Feb. 28, 1933	12:00 A.M.	18.1	
	Mar. 1, 1933	12:00 A.M.	17.0	111.7
	Mar. 2, 1933	12:00 A.M.	17.9	112.1
	Mar. 3, 1933	5:00 P.M.	19.5	111.2
	Mar. 10, 1933	12:00 A.M.	19.0	110.7
	Apr. 7, 1933	3:00 P.M.	18.2	
	Apr. 7, 1933	5:00 P.M.	19.4	110.8
	Apr. 11, 1933	2:00 P.M.	20.6	110.2
	Apr. 12, 1933	8:00 A.M.	17.1	110.7
	Apr. 13, 1933	8:00 A.M.	17.3	110.3
	Apr. 14, 1933	8:00 A.M.	17.0	111.0
	Apr. 17, 1933	11:00 A.M.	19.2	111.1
	Apr. 18, 1933	8:00 A.M.	18.3	110.9
	Apr. 19, 1933	4:00 P.M.	20.3	
	Apr. 20, 1933	8:00 A.M.	18.6	110.8
	Apr. 20, 1933	4:20 P.M.	19.1	111.5



Band No.	Date	Time	Weight	Temperature
c30343	Feb. 13, 1933	5:00 P.M.	19.9	110.7
	Feb. 15, 1933	5:00 P.M.	21.8	108.0
	Feb. 17, 1933	12:00 A.M.	19.8	111.2
	Feb. 21, 1933	12:00 A.M.	17.9	
	Feb. 22, 1933	12:00 A.M.	17.0	110.5
	Mar. 10, 1933	12:00 A.M.	19.0	111.0
	Mar. 20, 1933	12:00 A.M.	18.0	
	Apr. 19, 1933	2:00 P.M.	20.2	109.6
F78358	Nov. 7, 1932		22.9	
	Feb. 14, 1933	12:00 A.M.	25.7	110.2
	Feb. 16, 1933	12:00 A.M.	25.3	
	Feb. 21, 1933	12:00 A.M.	21.8	
	Feb. 22, 1933	12:00 A.M.	19.7	111.3
	Feb. 27, 1933	5:00 P.M.	21.2	107.9
F78442	Nov. 1, 1932	10:00 A.M.	19.7	
	Nov. 3, 1932	5:00 P.M.	20.1	
	Feb. 15, 1933	12:00 A.M.	19.5	110.3
	Feb. 16, 1933	12:00 A.M.	20.1	
	Feb. 16, 1933	5:00 P.M.	20.4	
	Feb. 17, 1933	12:00 A.M.	19.2	110.8
	Feb. 21, 1933	5:00 P.M.	21.4	
	Feb. 22, 1933	5:00 P.M.	19.9	111.0
	Feb. 28, 1933	12:00 A.M.	18.1	
	Mar. 2, 1933	12:00 A.M.	19.2	111.2
	Mar. 3, 1933	5:00 P.M.	20.4	112.0
	Mar. 6, 1933	5:00 P.M.	18.9	111.5
	Mar. 7, 1933	12:00 A.M.	18.2	111.8
	Mar. 14, 1933	5:00 P.M.	19.4	110.6
	Apr. 7, 1933	3:00 P.M.	20.5	
	Apr. 10, 1933	11:00 A.M.	18.3	111.4
	Apr. 11, 1933	2:00 P.M.	18.4	111.0
	Apr. 11, 1933	4:00 P.M.	18.2	109.5
	Apr. 12, 1933	11:00 A.M.	17.3	110.0
	Apr. 19, 1933	2:00 P.M.	19.5	
	Apr. 21, 1933	8:00 A.M.	17.6	
F78465	Nov. 11, 1932	3:00 P.M.	18.4	
	Feb. 16, 1933	12:00 A.M.	20.5	
	Feb. 21, 1933	12:00 A.M.	18.4	
F78359	Nov. 7, 1932		17.9	
	Nov. 11, 1932		17.1	
	Feb. 21, 1933	12:00 A.M.	18.7	
	Apr. 5, 1933	11:00 A.M.	19.2	110.2
	Apr. 6, 1933	11:00 A.M.	16.5	110.4
	Apr. 20, 1933	8:00 A.M.	18.0	109.3
F78366	Mar. 10, 1933	5:00 P.M.	18.3	110.5
	Mar. 20, 1933	12:00 A.M.	17.7	
B90417	Apr. 6, 1933	1:00 P.M.	21.1	110.8
B90418	Apr. 6, 1933	5:00 P.M.	18.9	110.3
B90419	Apr. 6, 1933	5:00 P.M.	21.4	105.7

[illegible]

Band No.	Date	Time	Weight	Temperature
B90424	Apr. 7, 1933	11:00 A.M.	19.1	105.1
	Apr. 11, 1933	2:00 P.M.	19.9	
B90425	Apr. 7, 1933	11:00 A.M.	19.3	
B90426	Apr. 7, 1933	3:00 P.M.	21.5	
B90427	Apr. 7, 1933	3:00 P.M.	20.3	
B90428	Apr. 7, 1933	3:00 P.M.	21.8	
B90429	Apr. 7, 1933	3:00 P.M.	23.6	
B90430	Apr. 7, 1933	3:00 P.M.	23.2	
B90432	Apr. 7, 1933	5:00 P.M.	21.2	109.5
B90472	Apr. 7, 1933	5:00 P.M.	19.1	106.7
	Apr. 18, 1933	8:00 A.M.	16.9	
B90434	Apr. 8, 1933	8:00 A.M.	21.0	107.9
B90435	Apr. 8, 1933	8:00 A.M.	21.7	108.4
	Apr. 12, 1933	8:00 A.M.	20.8	109.0
	Apr. 17, 1933	11:00 A.M.	24.5	110.2
	Apr. 18, 1933	8:00 A.M.	22.8	110.2
	Apr. 19, 1933	1:45 P.M.	23.4	109.5
	Apr. 20, 1933	8:00 A.M.	21.3	109.7
B90436	Apr. 8, 1933	8:00 A.M.	20.3	107.9
B90438	Apr. 8, 1933	11:00 A.M.	22.3	109.0
	Apr. 11, 1933	2:00 P.M.	22.2	109.4
	Apr. 14, 1933	4:00 P.M.	20.7	111.2
	Apr. 15, 1933	8:00 A.M.	19.5	110.9
	Apr. 18, 1933	1:00 P.M.	20.0	109.7
	Apr. 21, 1933	8:00 A.M.	18.4	110.4
	Apr. 24, 1933	3:00 P.M.	21.5	111.3
	Apr. 27, 1933	8:00 A.M.	20.6	110.5
	Apr. 27, 1933	4:00 P.M.	20.3	111.3
	May 4, 1933	1:30 P.M.	20.7	
B90440	Apr. 10, 1933	11:00 A.M.	19.2	110.3
B90441	Apr. 10, 1933	11:00 A.M.	19.7	109.5
B90442	Apr. 10, 1933	11:00 A.M.	17.4	110.4
B90443	Apr. 10, 1933	11:00 A.M.	19.5	110.9
B90449	Apr. 11, 1933	2:00 P.M.	23.8	105.4
B90450	Apr. 11, 1933	2:00 P.M.	16.8	106.0
B90452	Apr. 11, 1933	4:00 P.M.	19.9	111.0
	Apr. 19, 1933	4:00 P.M.	21.8	105.7
B90453	Apr. 12, 1933	11:00 A.M.	22.0	108.0

[illegible]

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
B90454	Apr. 12, 1933	11:00 A.M.	22.7	108.5
	Apr. 13, 1933	8:00 A.M.	20.5	110.0
	Apr. 19, 1933	11:00 A.M.	24.7	109.7
B90455	Apr. 12, 1933	4:00 P.M.	21.1	110.2
B90456	Apr. 13, 1933	8:00 A.M.	20.8	110.0
B90457	Apr. 13, 1933	8:00 A.M.	19.2	
	Apr. 14, 1933	4:00 P.M.	20.2	107.9
B90458	Apr. 13, 1933	1:00 P.M.	20.0	109.8
	Apr. 18, 1933	8:00 A.M.	18.4	110.4
B90461	Apr. 13, 1933	3:30 P.M.	18.6	110.1
B90463	Apr. 14, 1933	8:00 A.M.	21.1	110.0
	Apr. 19, 1933	4:00 P.M.	25.8	109.2
B90464	Apr. 14, 1933	8:00 A.M.	17.3	110.5
B90465	Apr. 14, 1933	8:00 A.M.	17.1	109.0
B90466	Apr. 14, 1933	11:00 A.M.	20.4	110.0
B90471	Apr. 15, 1933	8:00 A.M.	20.8	110.0
B90476	Apr. 20, 1933	8:00 A.M.	19.1	
	Apr. 28, 1933	11:00 A.M.	18.9	109.1
B90477	Apr. 17, 1933	4:00 P.M.	20.2	109.8
B90481	Apr. 18, 1933	8:00 A.M.	24.7	109.2
	Apr. 19, 1933	4:00 P.M.	25.5	109.2
B90482	Apr. 18, 1933	1:00 P.M.	22.3	110.6
B90483	Apr. 18, 1933	1:00 P.M.	20.6	107.2
B90484	Apr. 18, 1933	1:00 P.M.	24.8	108.3
B90485	Apr. 18, 1933	1:00 P.M.	22.4	108.5
B90486	Apr. 18, 1933	1:00 P.M.	27.6	106.9
B90487	Apr. 18, 1933	1:00 P.M.	22.5	110.0
B90488	Apr. 18, 1933	1:00 P.M.	20.1	109.3
B90489	Apr. 18, 1933	1:00 P.M.	22.8	108.9
B90490	Apr. 18, 1933	1:00 P.M.	24.0	107.0
B90491	Apr. 18, 1933	1:00 P.M.	20.7	107.8
B90492	Apr. 18, 1933	1:00 P.M.	22.2	107.5
B90493	Apr. 18, 1933	1:00 P.M.	22.2	109.0

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
B90494	Apr. 18, 1933	4:00 P.M.	21.6	109.0
B90495	Apr. 19, 1933	8:00 A.M.	20.6	108.5
	May 3, 1933	8:00 A.M.	18.2	
B90496	Apr. 19, 1933	8:00 A.M.	17.9	
B90497	Apr. 19, 1933	8:00 A.M.	19.6	107.5
	Apr. 20, 1933	8:00 A.M.	18.4	109.0
B90498	Apr. 19, 1933	11:00 A.M.	21.4	104.3
B90499	Apr. 25, 1933	8:00 A.M.	20.9	110.7
	Apr. 27, 1933	1:00 P.M.	19.0	111.3
B90500	Apr. 19, 1933	11:00 A.M.	22.1	108.5
c58201	Apr. 19, 1933	11:00 A.M.	21.4	108.5
c58204	Apr. 20, 1933	1:00 P.M.	18.8	109.5
c58205	Apr. 20, 1933	1:00 P.M.	22.5	107.7
c58206	Apr. 20, 1933	1:00 P.M.	20.5	107.7
c58207	Apr. 20, 1933	1:00 P.M.	17.9	108.0
c58208	Apr. 20, 1933	4:20 P.M.	23.6	110.0
c58210	Apr. 27, 1933	8:00 A.M.	22.2	108.8
c58215	Apr. 27, 1933	1:00 P.M.	22.3	109.3
c58213	Apr. 24, 1933	3:00 P.M.	16.4	107.5
c58220	Apr. 25, 1933	8:00 A.M.	19.2	106.7
c58223	Apr. 26, 1933	4:00 P.M.	19.0	109.7
	Apr. 27, 1933	1:00 P.M.	17.2	109.2
c58224	Apr. 29, 1933	9:15 A.M.	21.9	
c58225	Apr. 27, 1933	8:00 A.M.	21.0	106.9
c30370	Apr. 10, 1933		22.1	109.6
c30373	Apr. 10, 1933		17.3	108.3
c30378	Apr. 10, 1933	10:00 A.M.	18.9	107.2
c30381	Apr. 13, 1933	11:00 A.M.	18.6	108.4
c30386	Apr. 15, 1933	8:45 A.M.	20.4	110.3
c30387	Apr. 19, 1933	8:00 A.M.	19.4	108.5
c30389	Apr. 17, 1933	11:30 A.M.	24.1	108.1

[illegible]

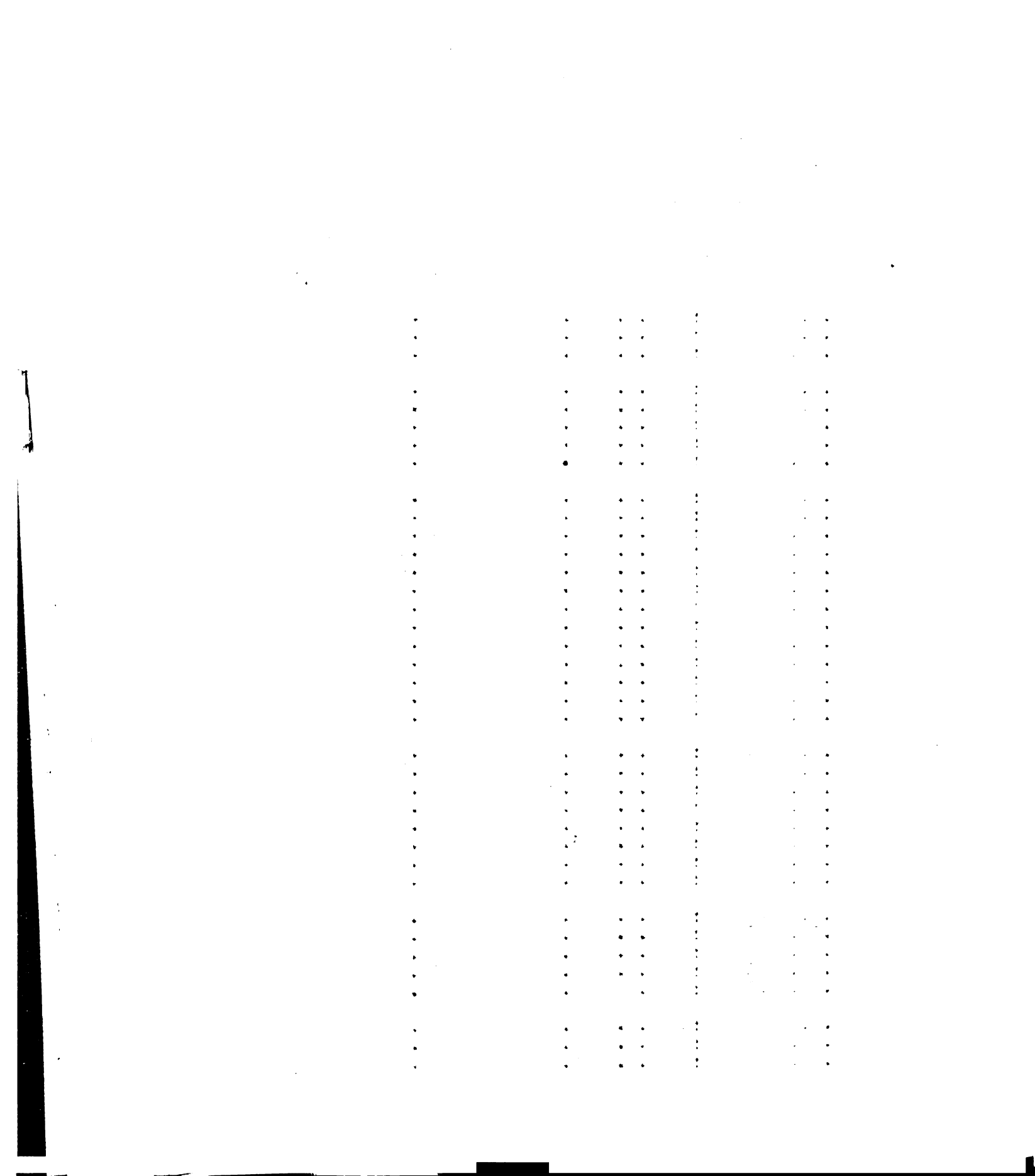
Band No.	Date	Time	Weight	Temperature
c30390	Apr. 18, 1933	2:00 P.M.	17.4	107.4
c30391	Apr. 18, 1933	2:15 P.M.	22.0	106.8
c30392	Apr. 18, 1933	2:15 P.M.	19.6	108.7
c30396	Apr. 20, 1933	8:00 A.M.	18.9	109.4
c38009	Apr. 20, 1933	3:45 P.M.	23.7	109.4
c38010	Apr. 21, 1933	8:00 A.M.	17.3	109.4
c38011	Apr. 21, 1933	11:00 A.M.	17.9	
c38012	Apr. 21, 1933	11:00 A.M.	18.3	107.6
	Apr. 25, 1933	1:00 P.M.	16.9	109.3
	May 5, 1933		17.1	109.6
c38013	Apr. 21, 1933	11:15 A.M.	17.2	108.2
	Apr. 24, 1933		17.5	110.3
c38014	Apr. 24, 1933	11:15 A.M.	19.1	109.9
c38033	Apr. 24, 1933	7:15 A.M.	19.0	109.7
c38036	Apr. 24, 1933	4:30 P.M.	18.6	108.6
c38037	Apr. 24, 1933	4:45 P.M.	19.6	109.6
c38047	Apr. 26, 1933	4:45 P.M.	22.9	109.3
c38051	Apr. 27, 1933	11:45 A.M.	20.5	107.8
c38060	Apr. 28, 1933	7:00 A.M.	18.7	
	Apr. 29, 1933		17.4	
c38070	Apr. 28, 1933	7:15 A.M.	17.4	
c38071	Apr. 28, 1933	11:30 A.M.	20.7	108.5
c38072	Apr. 28, 1933	11:45 A.M.	20.3	109.6

TABLE X

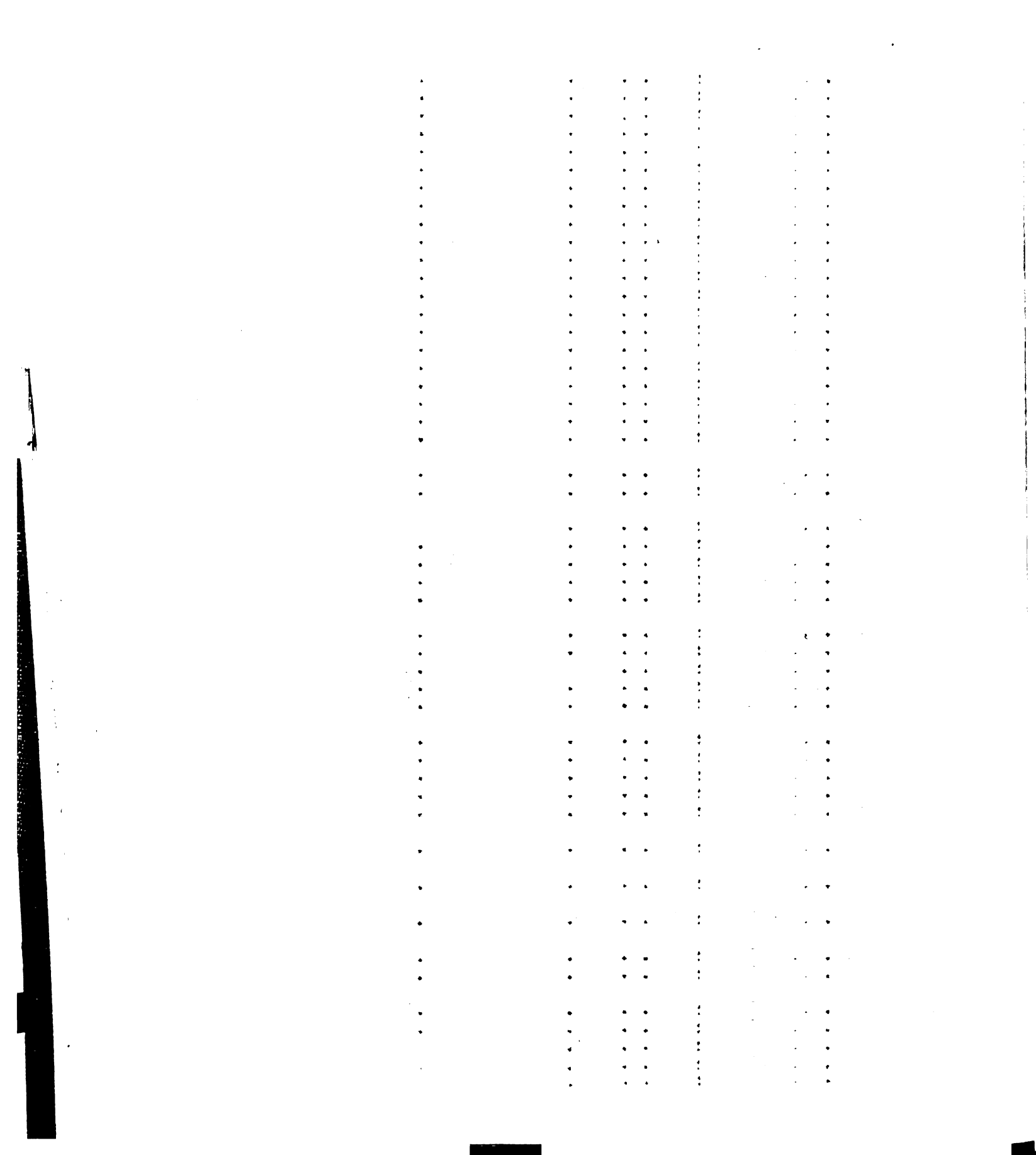
White-throated Sparrow

Zonotrichia albicollis

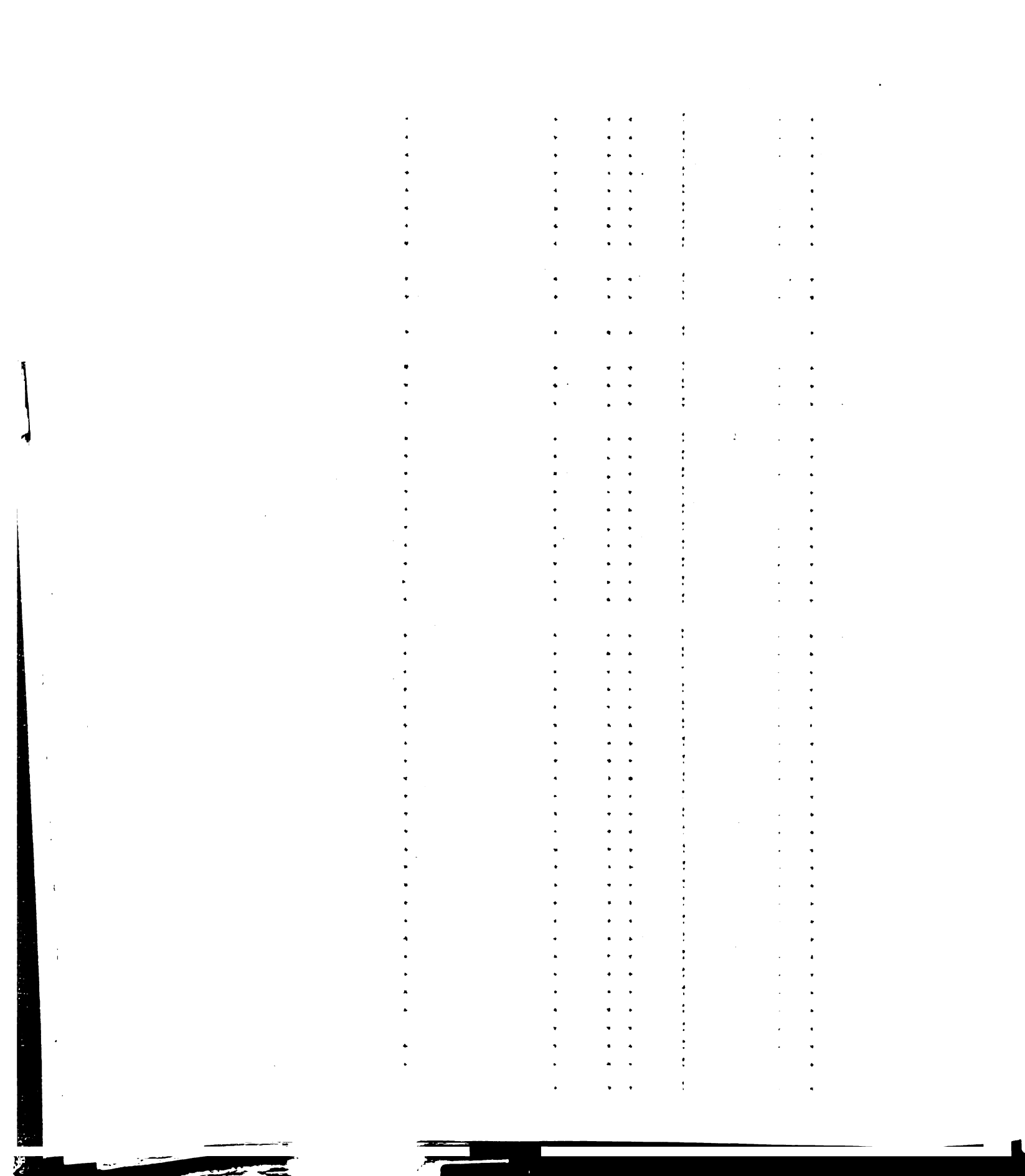
Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30741	Oct. 6, 1931	5:25 P.M.	25.3	111.2
	Oct. 8, 1931	3:10 P.M.	25.9	109.2
	Oct. 13, 1931	9:20 A.M.	24.2	109.7
c30743	Oct. 8, 1931	1:20 P.M.	24.2	108.7
	Oct. 9, 1931	10:10 A.M.	20.9	109.4
	Oct. 9, 1931	5:20 P.M.	20.4	109.1
	Oct. 10, 1931	5:45 P.M.	19.0	109.2
	Oct. 13, 1931	5:45 P.M.	19.0	110.6
c30744	Oct. 7, 1931	9:20 A.M.	25.6	106.2
	Oct. 7, 1931	6:00 P.M.	25.2	108.9
	Oct. 13, 1931	9:40 A.M.	23.2	110.3
	Oct. 13, 1931	2:15 P.M.	22.9	108.5
	Oct. 14, 1931	1:50 P.M.	23.2	109.3
	Oct. 14, 1931	5:45 P.M.	23.3	111.5
	Oct. 15, 1931	4:10 P.M.	20.7	107.0
	Oct. 16, 1931	10:20 A.M.	19.8	107.2
	Oct. 16, 1931	4:10 P.M.	19.8	111.0
	Oct. 17, 1931	9:30 A.M.	18.6	110.1
	Oct. 17, 1931	5:15 P.M.	19.3	111.5
	Oct. 18, 1931	9:50 A.M.	18.4	109.4
	Oct. 18, 1931	5:00 P.M.	18.2	109.5
c30745	Oct. 7, 1931	9:20 A.M.	29.0	108.3
	Oct. 9, 1931	10:00 A.M.	25.8	109.1
	Oct. 12, 1931	5:10 P.M.	24.0	108.7
	Oct. 13, 1931	2:00 P.M.	24.1	110.7
	Oct. 14, 1931	9:45 A.M.	22.8	109.5
	Oct. 14, 1931	5:50 P.M.	24.9	109.8
	Oct. 15, 1931	9:45 A.M.	22.7	108.0
	Oct. 15, 1931	4:10 P.M.	24.4	110.9
c30746	Oct. 7, 1931	9:35 A.M.	28.3	109.2
	Oct. 11, 1931	5:50 P.M.	27.1	108.7
	Oct. 14, 1931	5:45 P.M.	25.4	109.3
	Oct. 17, 1931	9:45 A.M.	24.5	110.1
	Oct. 19, 1931	12:50 P.M.	27.0	111.5
c30747	Oct. 7, 1931	9:35 A.M.	25.9	108.3
	Oct. 27, 1931	10:50 A.M.	24.8	110.5
	Oct. 30, 1931	4:10 P.M.	26.7	110.6



<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperatures</u>
c30749	Oct. 7, 1931	1:45 P.M.	24.2	108.7
	Oct. 11, 1931	5:50 P.M.	21.0	110.3
	Oct. 12, 1931	6:10 P.M.	20.0	110.4
	Oct. 13, 1931	2:15 P.M.	19.6	109.2
	Oct. 14, 1931	9:35 A.M.	17.9	109.8
	Oct. 14, 1931	5:50 P.M.	19.8	110.1
	Oct. 15, 1931	10:00 A.M.	17.9	108.0
	Oct. 16, 1931	10:05 A.M.	18.0	106.5
	Oct. 16, 1931	4:10 P.M.	18.2	110.2
	Oct. 17, 1931	12:30 P.M.	18.3	112.3
	Oct. 17, 1931	5:15 P.M.	17.3	111.1
	Oct. 19, 1931	2:12 P.M.	18.9	109.9
	Oct. 20, 1931	10:00 A.M.	18.6	111.2
	Oct. 24, 1931	4:30 P.M.	21.2	111.0
	Oct. 25, 1931	9:45 A.M.	19.3	110.7
	Oct. 25, 1931	6:00 P.M.	19.8	111.0
	Oct. 26, 1931	10:45 A.M.	18.2	111.0
	Oct. 26, 1931	4:50 P.M.	19.6	111.3
	Oct. 27, 1931	10:45 A.M.	17.1	110.4
	Oct. 27, 1931	5:40 P.M.	18.6	110.2
	Oct. 28, 1931	9:20 A.M.	15.4	105.3
c30755	Oct. 7, 1931	6:00 P.M.	25.9	108.7
	Oct. 15, 1931	2:30 P.M.	29.1	109.6
c30757	Oct. 7, 1931	6:15 P.M.	29.4	
	Oct. 10, 1931	9:10 A.M.	26.0	110.2
	Oct. 12, 1931	6:10 P.M.	26.7	110.6
	Oct. 13, 1931	5:30 P.M.	26.2	110.9
	Oct. 14, 1931	5:30 P.M.	27.4	110.9
c30771	Oct. 8, 1931	5:20 P.M.	26.2	107.3
	Oct. 11, 1931	5:35 P.M.	26.0	109.4
	Oct. 12, 1931	9:55 A.M.		107.1
	Oct. 12, 1931	6:10 P.M.	25.4	110.7
	Oct. 14, 1931	2:05 P.M.	23.2	110.1
c30773	Oct. 8, 1931	5:25 P.M.	23.5	109.4
	Oct. 9, 1931	10:15 A.M.	19.2	107.2
	Oct. 10, 1931	8:40 A.M.	18.2	107.2
	Oct. 10, 1931	6:10 P.M.	19.5	107.3
	Oct. 12, 1931	9:55 A.M.	16.5	106.2
c30780	Oct. 8, 1931	6:00 P.M.	26.1	108.6
c30782	Oct. 9, 1931	10:00 A.M.	23.5	108.7
c30783	Oct. 9, 1931	10:15 A.M.	23.7	108.3
c30785	Oct. 15, 1931	4:10 P.M.	25.5	112.0
	Oct. 9, 1931	10:25 A.M.	24.0	110.4
c30799	Oct. 9, 1931	6:00 P.M.	21.5	109.1
	Oct. 10, 1931	6:10 P.M.	22.1	109.3
	Oct. 12, 1931	9:30 A.M.	21.1	
	Oct. 12, 1931	6:10 P.M.	21.0	111.0
	Oct. 13, 1931	9:40 A.M.	19.2	110.2



Band No.	Date	Time	Weight	Temperature
	Oct. 13, 1931	2:15 P.M.	18.4	108.6
	Oct. 14, 1931	9:45 A.M.	18.0	108.8
	Oct. 14, 1931	1:18 P.M.	18.1	110.2
	Oct. 14, 1931	5:45 P.M.	19.0	108.9
	Oct. 15, 1931	9:45 A.M.	17.1	107.7
	Oct. 15, 1931	2:35 P.M.	19.7	109.7
	Oct. 16, 1931	10:20 A.M.	19.2	109.7
	Oct. 16, 1931	4:30 P.M.	18.5	110.5
c30800	Oct. 9, 1931	6:00 P.M.	23.1	110.6
	Oct. 27, 1931	10:45 A.M.	21.2	109.7
c30801	Oct. 10, 1931	8:40 A.M.	24.7	109.7
c30812	Oct. 11, 1931	5:50 P.M.	24.1	110.2
	Oct. 13, 1931	9:45 A.M.	23.2	109.9
	Oct. 13, 1931	5:30 P.M.	24.1	109.9
c30815	Oct. 13, 1931	2:15 P.M.	25.1	107.9
	Oct. 14, 1931	9:45 A.M.	23.9	109.0
	Oct. 15, 1931	10:00 A.M.	23.4	108.7
	Oct. 16, 1931	10:25 A.M.	20.6	108.6
	Oct. 16, 1931	4:10 P.M.	22.1	108.0
	Oct. 17, 1931	9:45 A.M.	19.4	109.4
	Oct. 17, 1931	12:15 P.M.	21.1	110.7
	Oct. 17, 1931	5:15 P.M.	21.1	110.8
	Oct. 18, 1931	9:50 A.M.	19.8	109.3
	Oct. 18, 1931	5:30 P.M.	18.8	108.7
c30825	Oct. 11, 1931	5:15 P.M.	27.3	108.2
	Oct. 13, 1931	9:40 A.M.	24.7	109.5
	Oct. 14, 1931	1:15 P.M.	25.2	109.8
	Oct. 16, 1931	10:20 A.M.	26.1	109.8
	Oct. 16, 1931	1:15 P.M.	27.1	109.5
	Oct. 16, 1931	4:10 P.M.	25.2	111.2
	Oct. 17, 1931	5:15 P.M.	23.5	111.5
	Oct. 18, 1931	9:50 A.M.	21.3	109.7
	Oct. 18, 1931	5:00 P.M.	21.9	110.2
	Oct. 19, 1931	10:05 A.M.	21.6	110.3
	Oct. 19, 1931	2:10 P.M.	22.9	110.2
	Oct. 20, 1931	10:00 A.M.	22.4	111.5
	Oct. 20, 1931	1:30 P.M.	23.8	110.4
	Oct. 20, 1931	5:30 P.M.	23.8	111.5
	Oct. 21, 1931	10:00 A.M.	22.6	110.4
	Oct. 21, 1931	2:00 P.M.	23.9	110.9
	Oct. 21, 1931	4:30 P.M.	22.9	109.8
	Oct. 22, 1931	1:30 P.M.	25.1	111.5
	Oct. 23, 1931	4:25 P.M.	24.2	109.3
	Oct. 24, 1931	4:30 P.M.	25.2	110.8
	Oct. 25, 1931	9:30 A.M.	24.0	110.2
	Oct. 25, 1931	6:00 P.M.	23.0	109.0
	Oct. 26, 1931	10:45 A.M.	22.4	
	Oct. 26, 1931	4:45 P.M.	23.0	111.4
	Oct. 27, 1931	10:45 A.M.	22.3	109.5
	Oct. 28, 1931	5:05 P.M.	23.1	110.1



Band No.	Date	Time	Weight	Temperature
	Oct. 29, 1931	10:15 A.M.	22.4	110.8
	Oct. 29, 1931	5:45 P.M.	23.3	109.9
	Oct. 30, 1931	4:45 P.M.	24.3	112.5
	Oct. 31, 1931	10:00 A.M.	23.1	110.2
	Nov. 3, 1931	10:10 A.M.	20.2	109.4
	Nov. 3, 1931	5:30 P.M.	21.9	108.3
	Nov. 4, 1931	10:05 A.M.	21.3	109.3
	Nov. 4, 1931	5:10 P.M.	22.0	111.7
	Nov. 5, 1931	10:15 A.M.	20.8	109.4
	Nov. 6, 1931	4:45 P.M.	24.2	110.6
	Nov. 7, 1931	9:55 A.M.	22.5	109.0
	Nov. 7, 1931	5:10 P.M.	24.0	112.1
	Nov. 8, 1931	5:38 P.M.	23.8	110.7
	Nov. 9, 1931	4:50 P.M.	24.1	112.6
	Nov. 11, 1931	9:45 A.M.	26.0	111.5
	Nov. 11, 1931	4:45 P.M.	27.8	110.9
	Nov. 12, 1931	9:45 A.M.	26.5	110.8
	Nov. 12, 1931	5:15 P.M.	27.6	112.4
	Nov. 13, 1931	4:15 P.M.	28.1	112.4
	Nov. 14, 1931	9:40 A.M.	27.4	112.2
	Nov. 16, 1931	4:45 P.M.	28.4	112.0
	Nov. 17, 1931	9:45 A.M.	28.3	110.8
	Nov. 17, 1931	5:20 P.M.	30.0	112.2
	Nov. 18, 1931	10:00 A.M.	28.9	110.3
	Nov. 19, 1931	5:30 P.M.	25.9	109.3
	Nov. 23, 1931	5:10 P.M.	25.4	110.5
	Nov. 24, 1931	5:05 P.M.	26.9	110.0
	Nov. 25, 1931	9:45 A.M.	25.1	111.1
	Nov. 26, 1931	5:10 P.M.	27.8	110.4
	Dec. 1, 1931	10:10 A.M.	27.5	111.7
	Dec. 1, 1931	5:40 P.M.	29.6	111.2
030828	Oct. 11, 1931	5:15 P.M.	29.5	107.5
	Oct. 12, 1931	5:30 P.M.	26.8	109.4
	Oct. 13, 1931	2:00 P.M.	28.3	110.5
	Oct. 14, 1931	9:20 A.M.	27.2	108.9
	Oct. 15, 1931	1:35 P.M.	29.2	109.1
	Oct. 18, 1931	9:50 A.M.	25.8	109.3
	Oct. 19, 1931	2:10 P.M.	28.1	109.7
	Oct. 20, 1931	9:45 A.M.	26.7	108.9
	Oct. 25, 1931	9:45 A.M.	28.5	111.6
	Oct. 27, 1931	10:45 A.M.	29.1	110.2
	Oct. 29, 1931	10:15 A.M.	31.0	110.8
	Oct. 29, 1931	5:45 P.M.	30.0	111.2
030831	Oct. 11, 1931	5:50 P.M.	25.8	110.0
	Oct. 12, 1931	6:15 P.M.	24.6	109.9
	Oct. 13, 1931	9:40 A.M.	23.2	110.3
	Oct. 13, 1931	2:15 P.M.	24.0	111.5
	Oct. 14, 1931	9:20 A.M.	23.0	109.4
	Oct. 14, 1931	1:40 P.M.	23.8	109.7
	Oct. 14, 1931	5:45 P.M.	23.8	110.7
	Oct. 15, 1931	10:00 A.M.	20.8	109.8
	Oct. 15, 1931	4:10 P.M.	21.7	110.6
030832	Oct. 12, 1931	9:15 A.M.	26.8	109.8

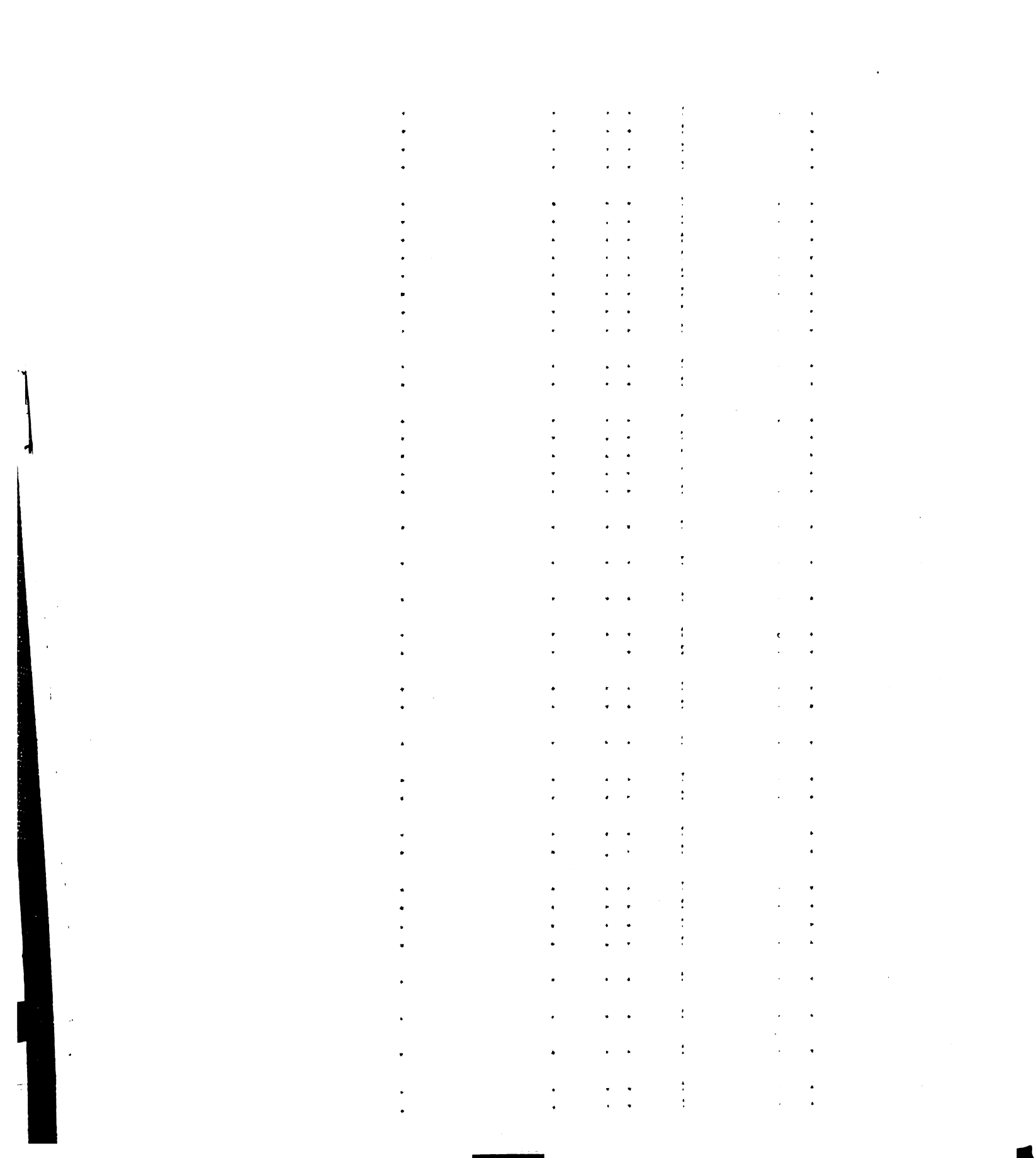
2. The second part of the document focuses on the implementation of internal controls to prevent fraud and ensure the accuracy of financial data. It outlines the key components of a robust internal control system, including segregation of duties, authorization procedures, and regular monitoring and evaluation.

3. The third part of the document addresses the challenges faced by organizations in managing their financial resources effectively. It discusses the importance of budgeting and forecasting, and the role of the accounting department in providing accurate and timely financial information to management for decision-making.

4. The fourth part of the document explores the impact of technology on the accounting profession. It discusses the benefits of automation and the use of cloud-based accounting systems, as well as the need for ongoing training and development for accounting professionals to stay current in their field.

5. The fifth part of the document concludes by emphasizing the importance of ethical behavior in the accounting profession. It discusses the role of the accounting department in ensuring compliance with accounting standards and the importance of maintaining the highest level of integrity and honesty in all financial reporting.

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c30835	Oct. 12, 1931	9:30 A.M.	24.3	110.5
	Oct. 13, 1931	2:00 P.M.	24.4	111.8
	Oct. 14, 1931	9:35 A.M.	21.2	109.4
	Oct. 14, 1931	5:45 P.M.	21.4	109.3
c30842	Oct. 12, 1931	5:30 P.M.	27.5	109.2
	Oct. 14, 1931	9:45 A.M.	24.7	109.3
	Oct. 15, 1931	9:45 A.M.	24.4	108.3
	Oct. 16, 1931	10:05 A.M.	24.5	109.7
	Oct. 17, 1931	9:30 A.M.	24.1	110.2
	Oct. 17, 1931	5:15 P.M.	25.0	111.2
	Oct. 19, 1931	10:05 A.M.	24.9	110.0
	Oct. 19, 1931	5:30 P.M.	26.6	111.1
c30848	Oct. 12, 1931	6:10 A.M.	23.3	106.9
	Oct. 13, 1931	1:50 P.M.	21.9	110.4
c30854	Oct. 13, 1931	5:25 P.M.	26.5	109.5
	Oct. 15, 1931	2:35 P.M.	25.9	110.1
	Oct. 17, 1931	5:30 P.M.	24.7	112.1
	Oct. 21, 1931	9:50 A.M.	25.2	111.9
	Oct. 24, 1931	4:15 P.M.	25.4	111.1
c30886	Oct. 18, 1931	5:15 P.M.	27.5	110.5
c30927	Oct. 27, 1931	10:45 A.M.	22.9	111.0
c30944	Oct. 31, 1931	10:00 A.M.	26.1	110.1
f78185	Apr. 25, 1932	4:00 P.M.	30.3	112.7
	Apr. 28, 1932	9:00 A.M.	30.0	110.4
a173543	Apr. 25, 1932	9:00 A.M.	29.7	110.2
	Apr. 25, 1932	4:00 P.M.	28.9	107.1
a173544	Apr. 26, 1932	4:00 P.M.	28.1	111.7
f78187	Apr. 24, 1932	11:00 A.M.	29.0	111.0
	Apr. 28, 1932	9:00 A.M.	28.7	110.4
a173546	Apr. 24, 1932	4:00 P.M.	30.7	111.0
	Apr. 27, 1932	9:00 A.M.	30.7	110.5
a173547	Apr. 25, 1932	9:00 A.M.	30.2	109.5
	Apr. 26, 1932	4:00 P.M.	28.4	110.6
	Apr. 27, 1932	4:00 P.M.	29.0	111.5
	Apr. 30, 1932	9:00 A.M.	32.8	110.0
a173549	Apr. 28, 1932	4:00 P.M.	32.5	108.7
a173600	Apr. 27, 1932	9:00 A.M.	32.8	109.1
a173601	Apr. 27, 1932	9:00 A.M.	34.1	109.7
a173606	Apr. 27, 1932	4:00 P.M.	31.2	111.0
	Apr. 30, 1932	9:00 A.M.	30.8	108.5



Band No.	Date	Time	Weight	Temperature
a173608	Apr. 29, 1932	9:00 A.M.	28.6	110.7
	May 2, 1932	4:00 P.M.	35.0	110.1
a173609	Apr. 29, 1932	9:00 A.M.	29.2	111.0
a173610	Apr. 29, 1932	9:00 A.M.	28.1	109.6
a173611	Apr. 29, 1932	9:00 A.M.	28.7	110.0
a173612	Apr. 29, 1932	4:00 P.M.	33.0	109.7
a173613	Apr. 29, 1932	4:00 P.M.	28.0	110.0
a173614	Apr. 29, 1932	4:00 P.M.	26.0	108.7
a173615	Apr. 29, 1932	4:00 P.M.	27.5	110.1
a173617	Apr. 29, 1932	4:00 P.M.	28.7	110.9
a173619	Apr. 29, 1932	4:00 P.M.	29.7	109.4
a173620	Apr. 29, 1932	4:00 P.M.	30.6	110.4
a173621	Apr. 29, 1932	4:00 P.M.	31.4	110.2
a173622	Apr. 29, 1932	4:00 P.M.	29.2	110.0
a173623	Apr. 30, 1932	9:00 A.M.		109.0
a173624	Apr. 30, 1932	9:00 A.M.	26.6	108.9
a173625	Apr. 30, 1932	9:00 A.M.	30.0	108.5
a173626	Apr. 30, 1932	4:00 P.M.	29.5	109.7
a173627	Apr. 30, 1932	4:00 P.M.	31.2	110.5
a173628	Apr. 30, 1932	4:00 P.M.	32.2	110.2
a173629	Apr. 30, 1932	4:00 P.M.	32.4	108.6
a173631	May 1, 1932	9:00 A.M.	29.1	110.0
a173632	May 1, 1932	9:00 A.M.	28.7	109.5
	May 3, 1932	4:00 P.M.	29.6	109.9
a173633	May 1, 1932	9:00 A.M.	25.4	109.8
	May 2, 1932	9:00 A.M.	25.7	108.6
	May 5, 1932	4:00 P.M.	30.4	110.0
a173637	May 1, 1932	4:00 P.M.	30.7	110.7
a173638	May 1, 1932	4:00 P.M.	31.3	111.4
a173639	May 1, 1932	4:00 P.M.	32.7	110.8
a173640	May 1, 1932	4:00 P.M.	27.1	111.1
	May 2, 1932	4:00 P.M.	28.1	110.2

Band No.	Date	Time	Weight	Temperature
	May 3, 1932	4:00 P.M.	30.2	110.9
	May 10, 1932	4:00 P.M.	25.4	
	May 11, 1932	4:00 P.M.	25.0	110.9
a173641	May 1, 1932	4:00 P.M.	29.0	110.0
	May 3, 1932	4:00 P.M.	29.9	110.0
a173643	May 2, 1932	9:00 A.M.	30.7	110.7
a173647	May 2, 1932	4:00 P.M.	30.1	110.1
a173648	May 3, 1932	9:00 A.M.	27.1	106.5
	May 8, 1932	9:00 A.M.	24.1	109.7
	May 11, 1932	4:00 P.M.	24.5	110.5
	May 16, 1932	4:00 P.M.	24.6	
	May 18, 1932	9:00 A.M.	21.9	110.9
	May 18, 1932	4:00 P.M.	21.8	111.5
	May 28, 1932	1:00 P.M.	23.3	112.1
a173649	May 3, 1932	9:00 A.M.	26.4	110.4
a173650	May 3, 1932	4:00 P.M.	29.3	111.0
a173653	May 3, 1932	4:00 P.M.	32.4	110.1
a173654	May 4, 1932	9:00 A.M.	25.5	109.7
a173655	May 4, 1932	9:00 A.M.	29.1	110.6
a173656	May 4, 1932	9:00 A.M.	29.4	111.2
a173657	May 6, 1932	4:00 P.M.	26.1	111.2
a173658	May 4, 1932	9:00 A.M.	27.0	111.2
a173659	May 4, 1932	4:00 P.M.	26.0	110.0
a173660	May 4, 1932	4:00 P.M.	30.2	110.1
a173661	May 4, 1932	4:00 P.M.	32.7	110.2
a173662	May 4, 1932	4:00 P.M.	30.6	110.1
a173667	May 5, 1932	4:00 P.M.	28.8	109.6
a173672	May 5, 1932	4:00 P.M.	29.5	110.4
a173668	May 5, 1932	4:00 P.M.	30.3	110.8
	May 11, 1932	4:00 P.M.	31.3	111.0
a173669	May 5, 1932	4:00 P.M.	31.2	109.6
a173670	May 5, 1932	4:00 P.M.	27.6	109.5
a173671	May 5, 1932	4:00 P.M.	30.6	109.4

[illegible]

Band No.	Date	Time	Weight	Temperature
a173676	May 10, 1932	9:00 A.M.	30.7	110.2
	May 11, 1932	4:00 P.M.	29.5	110.7
a173682	May 6, 1932	4:00 P.M.	26.0	110.4
	May 8, 1932	4:00 P.M.	25.7	108.6
	May 11, 1932	4:00 P.M.	23.2	110.0
	May 13, 1932	4:00 P.M.	19.7	108.4
a173683	May 6, 1932	4:00 P.M.	28.1	108.9
a173687	May 7, 1932	10:00 A.M.	28.8	109.7
a173690	May 7, 1932	4:00 P.M.	29.8	108.7
a173695	May 8, 1932	4:00 P.M.	25.9	109.6
	May 9, 1932	4:00 P.M.	26.0	110.5
	May 12, 1932	9:00 A.M.	23.2	110.9
	May 12, 1932	4:00 P.M.	22.5	110.2
	May 13, 1932	4:00 P.M.	22.3	110.0
a173701	May 7, 1932	4:00 P.M.	28.6	109.6
	May 13, 1932	4:00 P.M.	29.2	110.5
a173702	May 7, 1932	4:00 P.M.	26.3	109.9
a173703	May 7, 1932	4:00 P.M.	30.5	107.8
a173704	May 7, 1932	4:00 P.M.	26.2	109.5
c30187	May 7, 1932	4:00 P.M.	29.1	110.3
a173709	May 8, 1932	9:00 A.M.	28.7	109.1
a173710	May 8, 1932	9:00 A.M.	29.2	109.8
a173711	May 11, 1932	4:00 P.M.	33.2	110.1
a173716	May 8, 1932	4:00 P.M.	32.4	108.4
a173719	May 8, 1932	4:00 P.M.	31.1	109.5
a173720	May 8, 1932	4:00 P.M.	28.5	108.7
a173722	May 8, 1932	4:00 P.M.	24.5	109.2
a173723	May 8, 1932	4:00 P.M.	34.0	109.2
a173726	May 8, 1932	4:00 P.M.	25.7	109.0
	May 11, 1932	9:00 A.M.	27.1	110.2
a173727	May 8, 1932	4:00 P.M.	29.9	109.5
a173729	May 9, 1932	9:00 A.M.	25.4	109.8
a173731	May 9, 1932	9:00 A.M.	26.4	109.9
	May 11, 1932	4:00 P.M.	27.7	110.0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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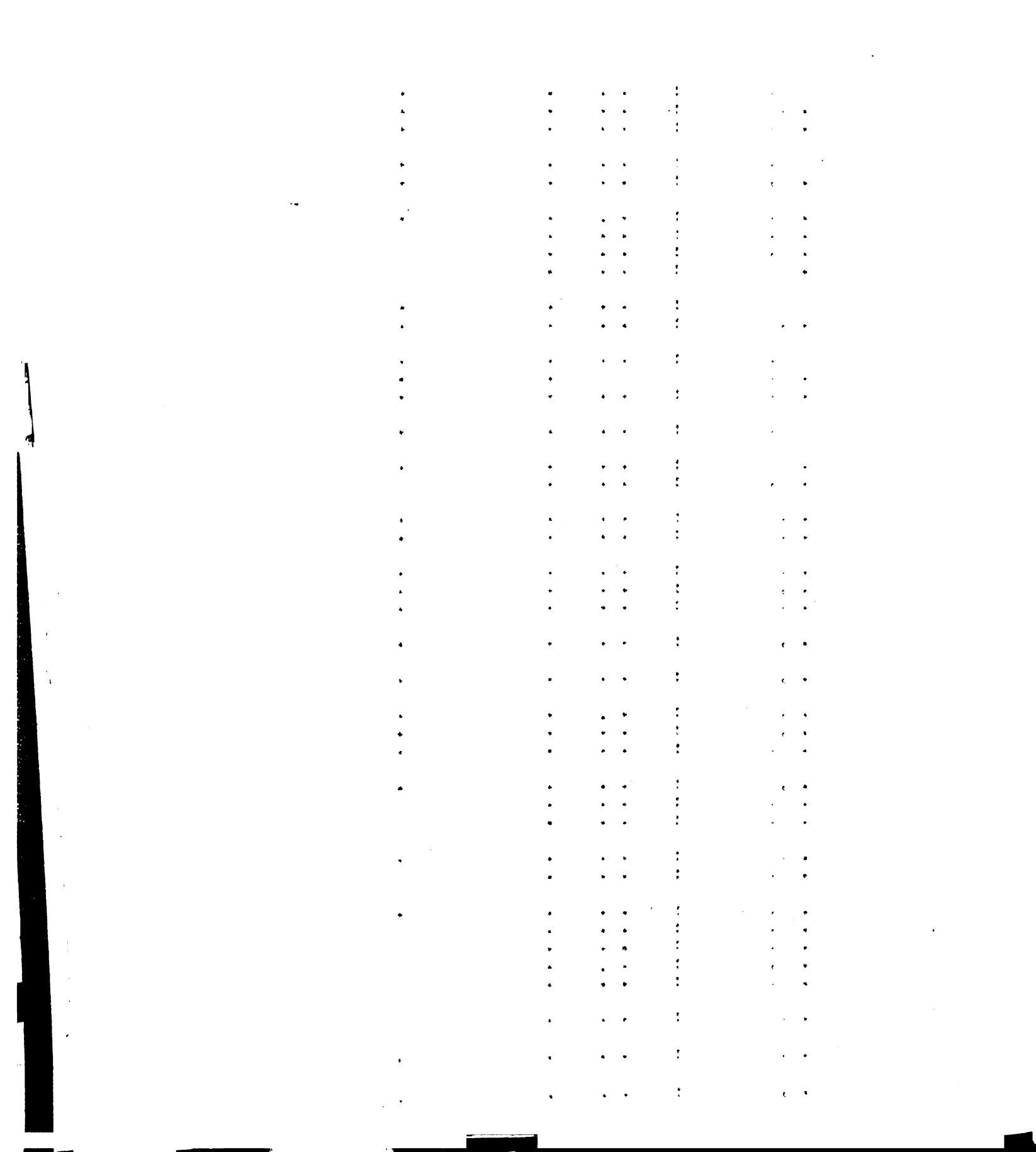
Band No.	Date	Time	Weight	Temperature
a173732	May 9, 1932	9:00 A.M.	26.6	109.3
a173733	May 9, 1932	9:00 A.M.	25.4	110.1
	May 11, 1932	9:00 A.M.	24.9	110.7
a173734	May 9, 1932	9:00 A.M.	30.5	
	May 11, 1932	9:00 A.M.	31.4	109.9
a173735	May 9, 1932	4:00 P.M.	31.8	109.9
a173736	May 9, 1932	4:00 P.M.	28.9	109.7
	May 11, 1932	9:00 A.M.	29.3	110.1
c33656	May 10, 1932	4:00 P.M.	27.8	109.0
a173743	May 10, 1932	9:00 A.M.	31.2	108.5
	May 13, 1932	9:00 A.M.	28.6	109.8
a173744	May 10, 1932	4:00 P.M.	31.2	108.7
a173747	May 10, 1932	4:00 P.M.	30.9	108.3
c33652	May 11, 1932	4:00 P.M.	25.1	
a173752	May 11, 1932	9:00 A.M.	31.6	109.4
a173754	May 11, 1932	4:00 P.M.	31.3	110.5
c33670	May 11, 1932	4:00 P.M.	29.1	110.3
a173756	May 11, 1932	4:00 P.M.	28.4	
a173758	May 11, 1932	4:00 P.M.	30.8	110.4
c30184	May 12, 1932	4:00 P.M.	34.5	110.2
c33660	May 13, 1932	9:00 A.M.	25.0	109.0
a173762	May 13, 1932	9:00 A.M.	29.4	108.3
a173768	May 13, 1932	4:00 P.M.	30.5	108.5
a173769	May 13, 1932	4:00 P.M.	28.8	108.8
c33673	May 16, 1932	4:00 P.M.	26.9	111.0
c30298	Sept 28, 1932	3:00 P.M.	22.9	110.8
c30299	Sept 28, 1932	3:00 P.M.	26.1	109.9
	Oct. 7, 1932	4:30 P.M.	24.2	110.8
	Oct. 8, 1932	4:00 P.M.	23.6	110.7
c30300	Sept 28, 1932	3:00 P.M.	19.1	108.4
c30301	Sept 28, 1932	3:00 P.M.	21.1	108.8
	Sept 29, 1932	3:00 P.M.	22.3	109.8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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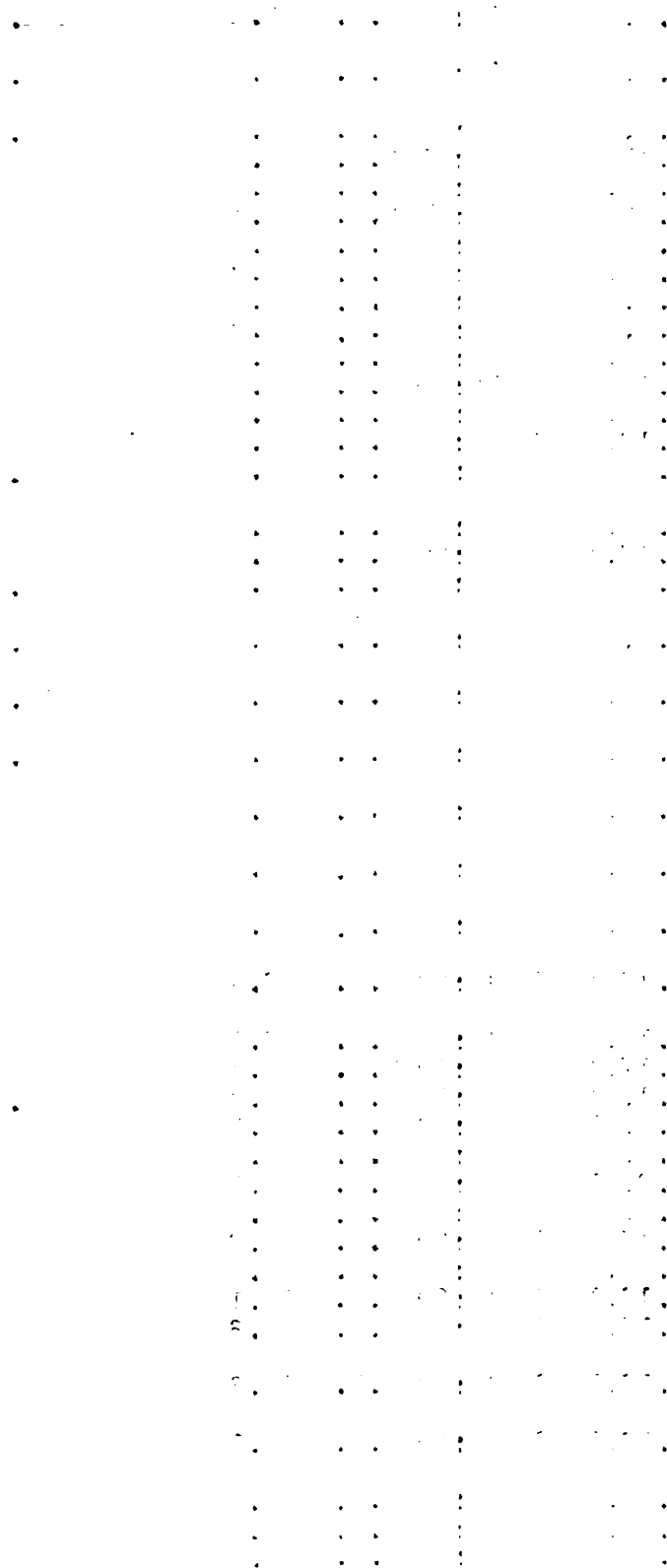
<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c30302	Oct. 4, 1932	3:00 P.M.	24.4	111.3
c30304	Sept 28, 1932	5:00 P.M.	26.7	109.8
	Sept 29, 1932	10:00 A.M.	23.6	109.8
	Oct. 6, 1932	10:00 A.M.	21.6	108.6
	Oct. 7, 1932	4:30 P.M.	22.4	110.0
	Oct. 19, 1932	3:00 P.M.	23.9	
	Oct. 25, 1932	3:00 P.M.	24.9	
	Oct. 27, 1932	10:00 A.M.	26.3	
	Oct. 29, 1932	5:00 P.M.	26.2	111.0
	Oct. 31, 1932	5:00 P.M.	27.3	
	Nov. 1, 1932	3:00 P.M.	25.7	110.8
	Nov. 3, 1932	3:00 P.M.	24.9	
	Nov. 4, 1932	3:00 P.M.	26.1	
	Nov. 7, 1932	3:00 P.M.	28.4	
	Nov. 8, 1932	5:00 P.M.	28.1	
	Nov. 9, 1932	3:00 P.M.	29.3	
	Nov. 10, 1932	3:00 P.M.	27.9	
	Nov. 11, 1932	10:00 A.M.	28.0	
	Nov. 12, 1932	10:00 A.M.	27.5	
	Nov. 14, 1932	10:00 A.M.	27.2	
	Nov. 14, 1932	3:00 P.M.	27.8	
	Nov. 16, 1932	5:00 P.M.	29.6	
	Nov. 18, 1932	10:00 A.M.	27.0	
	Nov. 18, 1932	5:00 P.M.	28.1	
	Nov. 19, 1932	10:00 A.M.	27.1	
	Nov. 23, 1932	10:00 A.M.	26.1	
	Nov. 26, 1932	10:00 A.M.	26.6	
	Nov. 28, 1932	5:00 P.M.	29.3	
	Nov. 30, 1932	10:00 A.M.	26.6	
	Dec. 1, 1932	10:00 A.M.	26.7	
	Dec. 1, 1932	5:00 P.M.	27.9	
	Dec. 2, 1932	5:00 P.M.	27.0	
	Dec. 3, 1932	5:00 P.M.	26.2	
	Dec. 8, 1932	5:00 P.M.	27.9	
	Dec. 9, 1932	5:00 P.M.	30.7	
	Dec. 12, 1932	5:00 P.M.	31.1	
	Dec. 13, 1932	10:00 A.M.	29.4	
	Dec. 13, 1932	5:00 P.M.	31.0	
c30310	Sept 29, 1932	3:00 P.M.	24.5	111.2
	Oct. 4, 1932		23.2	111.6
c30311	Sept 30, 1932	10:00 A.M.	21.7	110.0
c30312	Oct. 5, 1932	3:00 P.M.	22.3	110.2
c30313	Sept 29, 1932	3:00 P.M.	25.7	110.0
c30316	Sept 29, 1932	3:00 P.M.	28.9	109.5
	Oct. 4, 1932	3:00 P.M.	29.2	110.3
	Oct. 5, 1932	3:00 P.M.	26.0	110.0
c30319	Sept 29, 1932	5:00 P.M.	28.1	108.7
	Oct. 3, 1932	5:00 P.M.	24.0	111.3
	Oct. 11, 1932	3:00 P.M.	22.4	

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c30318	Sept29,1932	5:00 P.M.	24.3	109.6
	Oct.3, 1932	5:00 P.M.	22.5	110.8
	Oct.10,1932	3:00 P.M.	23.0	111.2
c30321	Sept29,1932	5:00 P.M.	31.5	110.4
	Oct. 8,1932	4:00 P.M.	32.6	111.2
c30320	Oct. 4,1932	10:00 A.M.	19.4	109.2
	Oct.17,1932	5:00 P.M.	18.4	
	Oct.19,1932	3:00 P.M.	18.0	
	Oct.23,1932	10:00 A.M.	19.2	
a173961	Sept30,1932	10:00 A.M.	23.2	110.1
	Oct.3, 1932	5:00 P.M.	24.4	111.6
a173962	Sept30,1932	10:00 A.M.	21.5	110.9
	Oct. 4,1932		20.7	109.3
	Oct. 7,1932	4:30 P.M.	19.4	110.3
c30325	Sept30,1932	3:00 P.M.	23.8	111.5
a173964	Oct.7, 1932	4:30 P.M.	21.4	111.5
	Oct.17,1932	5:00 P.M.	19.7	
a173969	Oct.3, 1932	5:00 P.M.	27.8	110.2
	Oct.5, 1932	3:00 P.M.	26.2	109.6
a173970	Oct.3, 1932	5:00 P.M.	24.6	111.6
	Oct.4, 1932	3:00 P.M.	24.4	111.0
	Oct.5, 1932	3:00 P.M.	23.0	111.5
a173971	Oct.4, 1932	10:00 A.M.	24.7	109.2
c30332	Oct.4, 1932	10:00 A.M.	27.5	110.0
a173973	Oct.4, 1932	3:00 P.M.	27.6	108.5
	Oct.5, 1932	5:00 P.M.	27.6	109.7
	Oct.10,1932	3:00 P.M.	24.4	111.0
a173978	Oct.5, 1932	3:00 P.M.	27.8	109.7
	Oct.11,1932	3:00 P.M.	27.2	
	Oct.24,1932	5:00 P.M.	29.1	
a173968	Oct.6, 1932	10:00 A.M.	19.1	109.0
	Oct.27,1932	10:00 A.M.	24.2	
a173979	Oct. 5,1932	5:00 P.M.	22.3	111.0
	Oct.11,1932	3:00 P.M.	20.4	
	Oct.13,1932	3:00 P.M.	20.3	
	Oct.18,1932	3:00 P.M.	21.5	
	Oct.23,1932	4:00 P.M.	20.4	
a173980	Oct.6, 1932	10:00 A.M.	24.6	
a173985	Oct.6, 1932	5:00 P.M.	25.4	111.5
c30347	Oct.7, 1932	10:00 A.M.	26.1	110.1



<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c30349	Oct. 7, 1932	10:00 A.M.	27.1	111.2
c30350	Oct. 7, 1932	10:00 A.M.	25.2	111.4
c30352	Oct. 7, 1932	10:00 A.M.	25.5	110.3
	Oct. 11, 1932	3:00 P.M.	21.2	
	Oct. 18, 1932	3:00 P.M.	22.1	
	Oct. 20, 1932	3:00 P.M.	21.2	
	Oct. 28, 1932	3:00 P.M.	23.8	
	Oct. 31, 1932	5:00 P.M.	24.7	
	Nov. 3, 1932	3:00 P.M.	24.3	
	Nov. 9, 1932	10:00 A.M.	28.7	
	Nov. 11, 1932	3:00 P.M.	27.7	
	Nov. 12, 1932	10:00 A.M.	26.3	
	Nov. 17, 1932	10:00 A.M.	27.0	
	Nov. 18, 1932	5:00 P.M.	28.2	
	Nov. 23, 1932	10:00 A.M.	27.1	111.2
al73986	Oct. 10, 1932	3:00 P.M.	26.2	
	Oct. 17, 1932	5:00 P.M.	26.3	
	Oct. 23, 1932	4:00 P.M.	26.7	111.0
al73808	Oct. 8, 1932	4:00 P.M.	25.1	109.0
al73815	Oct. 10, 1932	3:00 P.M.	23.1	110.7
c30356	Oct. 10, 1932	10:00 A.M.	25.0	110.4
al73824	Oct. 12, 1932	10:00 A.M.	25.3	
al73826	Oct. 12, 1932	10:00 A.M.	23.2	
al73827	Oct. 12, 1932	10:00 A.M.	27.1	
al73828	Oct. 12, 1932	10:00 A.M.	26.4	
al73829	Oct. 12, 1932	10:00 A.M.	26.0	
	Oct. 17, 1932	4:00 P.M.	22.5	
	Nov. 1, 1932	4:00 P.M.	23.7	112.2
	Nov. 2, 1932	4:00 P.M.	22.6	
	Nov. 3, 1932	3:00 P.M.	18.8	
	Nov. 8, 1932	5:00 P.M.	20.0	
	Nov. 9, 1932	5:00 P.M.	21.2	
	Nov. 16, 1932	5:00 P.M.	25.6	
	Nov. 17, 1932	10:00 A.M.	23.8	
	Nov. 18, 1932	10:00 A.M.	20.1	
	Nov. 18, 1932	5:00 P.M.	20.6	
al73839	Oct. 13, 1932	10:00 A.M.	25.6	
al73838	Oct. 13, 1932	3:00 P.M.	25.1	
al73841	Oct. 13, 1932	5:00 P.M.	24.0	
	Oct. 18, 1932	5:00 P.M.	22.1	
	Oct. 19, 1932	3:00 P.M.	20.3	



<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
a173855	Oct. 14, 1932	10:00 A.M.	21.9	
	Oct. 14, 1932	5:00 P.M.	22.1	
f78310	Oct. 14, 1932	10:00 A.M.	25.4	
a173840	Oct. 18, 1932	3:00 P.M.	24.3	
a173844	Oct. 14, 1932	5:00 P.M.	29.4	
a182064	Oct. 18, 1932	10:00 A.M.	25.3	
	Oct. 20, 1932	1	25.6	
604656	Oct. 18, 1932	3:00 P.M.	23.3	
604657	Oct. 19, 1932	3:00 P.M.	27.8	
	Oct. 25, 1932	5:00 P.M.	28.1	
	Oct. 26, 1932	3:00 P.M.	27.2	111.5
	Oct. 28, 1932	3:00 P.M.	26.2	
604658	Oct. 20, 1932	10:00 A.M.	24.6	
604659	Oct. 20, 1932	3:00 P.M.	30.0	
604660	Oct. 20, 1932	3:00 P.M.	26.9	
604662	Oct. 23, 1932	10:00 A.M.	22.5	
	Oct. 25, 1932	3:00 P.M.	22.3	
604663	Oct. 21, 1932	3:00 P.M.	22.7	
604664	Oct. 21, 1932	3:00 P.M.	27.0	
604665	Oct. 23, 1932	10:00 A.M.	28.7	
	Oct. 27, 1932	3:00 P.M.	26.4	
	Nov. 4, 1932	3:00 P.M.	25.7	
	Nov. 7, 1932	5:00 P.M.	26.6	
	Nov. 8, 1932	5:00 P.M.	25.0	
	Nov. 10, 1932	3:00 P.M.	23.2	
	Nov. 11, 1932	10:00 A.M.	19.7	
604666	Oct. 21, 1932	3:00 P.M.	21.0	
	Oct. 23, 1932	4:00 P.M.	20.1	
604632	Oct. 23, 1932	5:00 P.M.	27.3	
604640	Oct. 23, 1932	4:00 P.M.	23.2	
604643	Oct. 26, 1932	10:00 A.M.	23.7	110.2
	Oct. 27, 1932	3:00 P.M.	21.8	
	Oct. 28, 1932	10:00 A.M.	18.4	
604644	Oct. 27, 1932	3:00 P.M.	25.7	

Case	Age	Sex	Occupation	Duration of illness	Onset	Course	Outcome
1	25	M	Student	10 days	Gradual	Recovery	Good
2	30	F	Housewife	15 days	Acute	Recovery	Good
3	35	M	Teacher	20 days	Gradual	Recovery	Good
4	40	F	Office worker	25 days	Acute	Recovery	Good
5	45	M	Farmer	30 days	Gradual	Recovery	Good
6	50	F	Retired	35 days	Acute	Recovery	Good
7	55	M	Businessman	40 days	Gradual	Recovery	Good
8	60	F	Homemaker	45 days	Acute	Recovery	Good
9	65	M	Retired	50 days	Gradual	Recovery	Good
10	70	F	Homemaker	55 days	Acute	Recovery	Good
11	75	M	Retired	60 days	Gradual	Recovery	Good
12	80	F	Homemaker	65 days	Acute	Recovery	Good
13	85	M	Retired	70 days	Gradual	Recovery	Good
14	90	F	Homemaker	75 days	Acute	Recovery	Good
15	95	M	Retired	80 days	Gradual	Recovery	Good

Band No.	Date	Time	Weight	Temperature
f78237	Sept28,1932	4:25 P.M.	23.8	109.7
	Oct. 7,1932		24.9	111.5
	Oct.10,1932		24.8	111.1
	Oct.18,1932		24.0	
f78238	Sept28,1932	4:40 P.M.	25.3	
a134776	Sept29,1932	11:20 A.M.	25.8	111.5
a134777	Sept30,1932		23.0	110.3
a134779	Sept30,1932		21.3	110.7
	Nov.26,1932		24.6	
a134782	Oct.3, 1932	5:00 P.M.	24.6	109.6
a134783	Oct.3, 1932		28.1	109.8
	Oct.6, 1932	3:00 P.M.	27.2	110.5
a134784	Oct.3, 1932		25.2	110.3
a134786	Oct.3, 1932		27.9	108.7
	Oct.4, 1932	8:00 A.M.	24.2	109.3
a134787	Oct.3, 1932		27.7	109.7
a134788	Oct.4, 1932	8:00 A.M.	23.9	109.4
a134792	Oct.4, 1932	1:00 P.M.	23.7	110.6
a134793	Oct.5, 1932	8:00 A.M.	26.2	109.8
a134794	Oct.5, 1932		23.1	109.3
a134795	Oct.5, 1932		24.2	109.6
a134797	Oct.6, 1932	7:00 A.M.	23.7	108.2
a134798	Oct.6, 1932		23.7	111.2
a134799	Oct.6, 1932		26.0	109.0
a134808	Oct.23,1932		28.7	
	Oct.24,1932		29.4	
	Oct.26,1932		27.9	
	Oct.27,1932		29.1	
a134811	Oct.10,1932	11:00 A.M.	24.4	109.9
	Oct.21,1932		20.6	
	Oct.23,1932		20.7	
	Oct.25,1932		19.9	
	Oct.26,1932		19.6	111.0
	Oct.27,1932		19.6	
	Oct.29,1932		19.2	111.6
	Oct.30,1932		16.6	

Band No.	Date	Time	Weight	Temperature
a134812	Oct. 10, 1932		28.9	110.6
a134814	Oct. 11, 1932		25.0	109.6
a134815	Oct. 11, 1932		27.5	108.1
a182005	Oct. 11, 1932		26.2	
a182006	Oct. 11, 1932		26.7	
a182013	Oct. 12, 1932	11:00 A.M.	24.2	
	Oct. 19, 1932		26.0	
	Oct. 24, 1932		24.2	
	Oct. 26, 1932		22.4	
	Oct. 28, 1932		22.1	
	Oct. 29, 1932		22.5	112.6
	Oct. 30, 1932		19.6	
	Oct. 31, 1932		20.5	
a182014	Oct. 13, 1932	7:00 A.M.	28.8	
a182015	Oct. 13, 1932		25.4	
a182017	Oct. 13, 1932		23.8	
a182018	Oct. 13, 1932		29.2	
a182029	Oct. 13, 1932		27.6	
	Oct. 27, 1932		29.8	
a182030	Oct. 18, 1932		24.6	
	Oct. 23, 1932		25.0	
	Oct. 23, 1932		24.3	
	Oct. 24, 1932		25.0	
	Oct. 27, 1932		26.5	
a182035	Oct. 13, 1932		26.9	
a182040	Oct. 14, 1932		26.0	
a182042	Oct. 14, 1932		24.7	
a182043	Oct. 14, 1932		20.2	
	Oct. 19, 1932		22.1	
a182133	Oct. 17, 1932		24.1	
a182137	Oct. 17, 1932		24.7	
a182139	Oct. 17, 1932		27.5	
a182147	Oct. 18, 1932		22.2	
	Oct. 23, 1932		19.8	
	Oct. 29, 1932		20.5	111.0
	Oct. 30, 1932		17.6	
	Oct. 24, 1932		19.3	
	Oct. 27, 1932		19.9	

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
	Oct. 26, 1932		21.1	111.1
	Oct. 27, 1932		21.9	
a182063	Oct. 27, 1932		19.5	
a182068	Oct. 21, 1932		27.0	
a182076	Oct. 21, 1932		23.7	111.6
a182092	Oct. 26, 1932		30.8	111.4
a182093	Nov. 1, 1932		22.5	112.7
a182094	Nov. 2, 1932		22.7	
	Nov 11, 1932		22.7	
a182108	Oct. 26, 1932		24.4	
b90473	Apr. 15, 1933	8:00 A.M.	27.3	110.2
b58219	Apr. 25, 1933	8:00 A.M.	23.8	109.4
40605	Apr. 25, 1933	2:30 P.M.	31.3	109.6
c58226	Apr. 27, 1933	1:00 P.M.	30.3	110.5
c58230	Apr. 29, 1933		26.8	110.7
c58231	Apr. 28, 1933	11:00 A.M.	31.4	110.0
c58232	Apr. 28, 1933	1:00 P.M.	31.7	109.9
40670	Apr. 29, 1933	9:45 A.M.	28.0	
	May 4, 1933	8:00 A.M.	24.6	108.5
	May 11, 1933	8:45 A.M.	25.7	
c58235	Apr. 29, 1933	9:15 A.M.	28.6	
c58236	Apr. 29, 1933	9:15 A.M.	29.4	
c58237	Apr. 29, 1933	9:15 A.M.	24.4	
c58238	Apr. 29, 1933	9:15 A.M.	25.7	
c58239	Apr. 29, 1933	9:30 A.M.	27.4	
c58240	Apr. 29, 1933	10:00 A.M.	27.2	
c58241	Apr. 29, 1933	10:00 A.M.	26.4	
c58242	Apr. 29, 1933	10:00 A.M.	29.9	
c58243	Apr. 29, 1933	10:00 A.M.	29.8	
c58244	Apr. 29, 1933	10:00 A.M.	29.9	
c58259	May 1, 1933		29.1	

Band No.	Date	Time	Weight	Temperature
	May 3, 1933	11:30 A.M.	26.4	110.2
c58263	May 1, 1933	11:15 A.M.	28.1	109.4
c58265	May 1, 1933	12:00 A.M.	25.8	108.8
c58266	May 1, 1933	12:00 A.M.	30.1	109.0
c58267	May 1, 1933	12:00 A.M.	25.4	110.3
	May 2, 1933	1:30 P.M.	25.7	111.1
c58282	May 2, 1933	9:30 A.M.	27.6	
c58283	May 2, 1933	1:30 P.M.	26.3	109.6
c58284	May 2, 1933	1:30 P.M.	27.8	108.6
c58288	May 4, 1933	1:30 P.M.	29.9	110.4
	May 9, 1933		31.8	
c58289	May 3, 1933	8:00 A.M.	26.3	109.2
c58294	May 4, 1933	8:00 A.M.	28.9	109.3
c58295	May 4, 1933	8:00 A.M.	25.7	110.0
c58504	May 10, 1933	8:30 A.M.	25.8	
	May 11, 1933	1:30 P.M.	26.1	110.5
c58507	May 9, 1933	8:45 A.M.	28.1	
40620	May 10, 1933	8:30 A.M.	26.7	
c58510	May 9, 1933	8:45 A.M.	29.1	
	May 10, 1933	4:30 P.M.	28.0	
c58511	May 9, 1933	8:45 A.M.	32.2	
	May 10, 1933		29.2	
	May 16, 1933	2:30 P.M.	30.7	110.6
c58512	May 9, 1933	8:45 A.M.	27.6	
c58513	May 9, 1933	8:45 A.M.	29.3	
c58514	May 9, 1933	8:45 A.M.	28.2	
	May 11, 1933		28.1	
c58515	May 9, 1933	8:45 A.M.	28.5	
c58516	May 9, 1933	8:45 A.M.	30.3	
c58517	May 9, 1933	8:45 A.M.	27.2	
	May 10, 1933		25.4	
	May 11, 1933		25.3	
	May 12, 1933	11:00 A.M.	26.6	

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c58518	May 9, 1933	8:45 A.M.	25.2	107.7
c58519	May 9, 1933	8:45 A.M.	28.8	
c58520	May 9, 1933	8:45 A.M.	30.7	
	May 12, 1933	8:00 A.M.	28.0	
c58521	May 9, 1933	8:45 A.M.	27.6	108.5
	May 11, 1933	8:45 A.M.	28.1	109.2
c58522	May 9, 1933	8:45 A.M.	27.2	108.6
	May 10, 1933	8:00 A.M.	25.0	
	May 11, 1933	1:30 P.M.	24.9	109.7
	May 11, 1933		25.0	
c58523	May 9, 1933	8:45 A.M.	31.2	108.4
c58524	May 9, 1933	8:45 A.M.	32.8	109.5
c58525	May 9, 1933	8:45 A.M.	29.9	109.8
c58526	May 9, 1933	1:30 P.M.	29.3	
c58527	May 9, 1933	1:30 P.M.	30.3	
c58529	May 10, 1933	8:30 A.M.	28.6	
c58547	May 12, 1933	8:00 A.M.	24.7	
c58549	May 10, 1933	11:15 A.M.	27.7	
	May 11, 1933	1:30 P.M.	27.1	109.9
	May 11, 1933		27.6	
40623	May 10, 1933	11:15 A.M.	29.2	
	May 11, 1933		29.9	108.5
c58552	May 10, 1933	8:30 A.M.	29.4	
c58554	May 10, 1933	8:30 A.M.	26.7	
c58555	May 10, 1933	8:30 A.M.	29.0	
	May 11, 1933	8:45 A.M.	28.5	
	May 12, 1933	8:00 A.M.	26.1	
c58556	May 10, 1933	8:30 A.M.	26.4	
c58558	May 10, 1933	11:15 A.M.	27.3	
40625	May 10, 1933	2:00 P.M.	31.5	
40626	May 10, 1933	2:00 P.M.	32.6	
40627	May 10, 1933	2:00 P.M.	29.6	
40628	May 10, 1933	2:15 P.M.	32.3	

[illegible]

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c58559	May 10, 1933	4:30 P.M.	27.8	
c58560	May 11, 1933	8:45 A.M.	27.5	110.0
c58563	May 11, 1933	1:30 P.M.	30.5	109.3
c58564	May 11, 1933	1:30 P.M.	30.8	109.6
c58567	May 11, 1933	4:00 P.M.	29.1	
	May 12, 1933		25.4	
c58569	May 12, 1933	8:00 A.M.	30.3	
c58571	May 12, 1933	8:00 A.M.	22.8	
c58577	May 15, 1933	4:30 P.M.	34.2	110.4
c58578	May 15, 1933	4:30 P.M.	28.8	110.1
c38056	Apr. 28, 1933	7:00 A.M.	24.4	108.0
c38057	Apr. 28, 1933	7:00 A.M.	27.9	
c38058	Apr. 28, 1933	7:00 A.M.	27.1	
	Apr. 29, 1933		26.7	
	May 1, 1933	11:15 A.M.	28.9	110.6
c38059	Apr. 28, 1933	7:15 A.M.	24.9	
c38061	Apr. 28, 1933	7:15 A.M.	27.1	
c38062	Apr. 28, 1933	7:15 A.M.	26.0	
c38063	Apr. 28, 1933	7:15 A.M.	25.8	
c38064	Apr. 28, 1933	7:30 A.M.	25.8	
c38065	Apr. 28, 1933	7:30 A.M.	25.5	108.7
c38066	Apr. 28, 1933	7:30 A.M.	29.0	
c38067	Apr. 28, 1933	7:30 A.M.	28.6	
c38069	Apr. 28, 1933	7:30 A.M.	27.1	
65914	Apr. 28, 1933	7:15 A.M.	27.0	
c38080	Apr. 29, 1933	8:00 A.M.	28.4	109.9
c38082	Apr. 29, 1933	8:30 A.M.	28.3	109.9
c38085	May 4, 1933	8:15 A.M.	26.9	108.8
c38087	May 4, 1933		30.5	
c38088	May 5, 1933		26.0	110.0

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c38094	May 3, 1933	3:30 P.M.	27.5	110.2
	May 4, 1933		25.6	110.3
c38095	May 1, 1933	11:00 A.M.	26.2	109.6
	May 5, 1933	3:15 P.M.	24.5	110.5
c38096	May 1, 1933	11:00 A.M.	29.2	109.7
c38097	May 1, 1933	11:00 A.M.	28.3	108.6
c38098	May 1, 1933	11:00 A.M.	25.9	110.0
c38099	May 1, 1933	4:30 P.M.	28.8	
c38100	May 1, 1933	4:30 P.M.	29.0	
c58301	May 1, 1933	4:30 P.M.	27.4	
c58302	May 1, 1933	4:30 P.M.	28.1	
516779	May 2, 1933	7:00 A.M.	29.5	
516782	May 4, 1933		28.9	111.3
516784	May 2, 1933	9:30 A.M.	30.3	
	May 5, 1933		29.5	109.9
c58306	May 2, 1933	1:30 P.M.	30.0	109.3
516788	May 3, 1933		28.4	110.3
c58313	May 3, 1933	1:15 P.M.	29.0	110.0
c58317	May 8, 1933	8:15 A.M.	23.6	108.8
c58318	May 8, 1933	8:15 A.M.	28.7	110.3
c58319	May 8, 1933	2:00 P.M.	25.5	109.2
c58322	May 8, 1933	3:20 P.M.	27.3	110.0
c58323	May 9, 1933	7:40 A.M.	26.7	
c58324	May 9, 1933	9:45 A.M.	28.9	108.2
c58325	May 10, 1933	11:15 A.M.	23.0	
c58326	May 9, 1933	12:00 P.M.	25.0	
516793	May 9, 1933	3:00 P.M.	27.3	108.4
	May 12, 1933	8:00 A.M.	25.8	
516794	May 9, 1933	3:30 P.M.	24.9	
c58329	May 11, 1933	8:30 A.M.	28.6	
	May 12, 1933	8:45 A.M.	25.6	

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c58330	May 12, 1933	8:15 A.M.	27.0	
c58331	May 12, 1933	8:15 A.M.	27.4	
c58333	May 12, 1933	8:30 A.M.	23.7	
c58334	May 12, 1933	8:45 A.M.	24.3	
c58335	May 12, 1933	8:45 A.M.	27.5	
c58336	May 12, 1933	9:45 A.M.	24.2	
c58337	May 12, 1933	9:45 A.M.	22.4	
40703	May 12, 1933	11:15 A.M.	22.7	
40708	May 15, 1933	11:30 A.M.	28.9	109.4
40721	May 18, 1933	11:00 A.M.	25.6	109.5
c58343	May 18, 1933	9:00 A.M.	26.7	108.2
c58344	May 18, 1933	9:15 A.M.	25.1	110.0
c58345	May 18, 1933	9:15 A.M.	30.4	110.0
c58347	May 20, 1933	9:00 A.M.	22.4	109.3

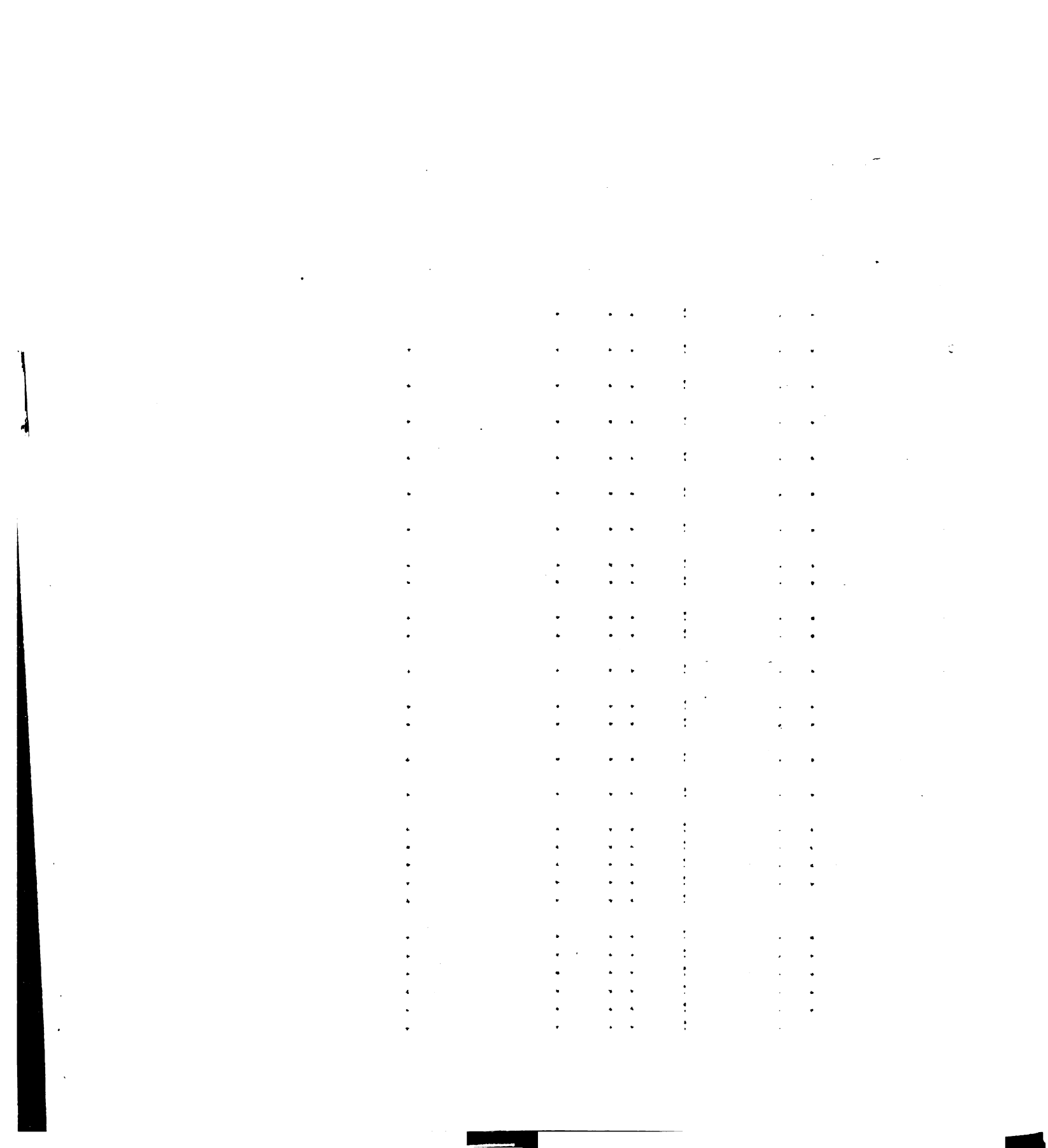
[illegible]

TABLE XI

Mississippi Song Sparrow

Melospiza melodia beata

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
o30758	Oct. 8, 1931	9:25 A.M.	21.3	
o30761	Oct. 8, 1931	9:45 A.M.	19.2	110.0
o30806	Oct. 10, 1931	5:30 P.M.	19.8	104.0
o30816	Oct. 11, 1931	4:45 P.M.	23.8	102.0
o30836	Oct. 12, 1931	9:30 A.M.	23.2	107.8
o30849	Oct. 13, 1931	9:30 A.M.	19.4	110.5
o30884	Oct. 18, 1931	10:00 A.M.	21.0	107.6
o30906	Oct. 24, 1931	8:20 A.M.	24.1	110.8
	Oct. 25, 1931	9:45 A.M.	22.1	111.4
o30971	Mar. 19, 1932	5:15 P.M.	21.3	110.3
	Mar. 21, 1932	12:05 P.M.	20.9	109.6
o30972	Mar. 29, 1932	12:15 P.M.	20.8	109.0
o30976	Apr. 1, 1932	12:10 P.M.	23.6	110.2
	Apr. 5, 1932	5:30 P.M.	24.5	110.0
o30983	Apr. 5, 1932	5:30 P.M.	20.1	111.5
o30985	Apr. 6, 1932	9:00 A.M.	20.8	111.3
o30987	Apr. 6, 1932	9:00 A.M.	20.7	110.5
	Apr. 14, 1932	9:00 A.M.	15.7	109.6
	Apr. 15, 1932	9:00 A.M.	20.1	109.9
	Apr. 20, 1932	4:00 P.M.	17.0	112.0
	May 4, 1932	4:00 P.M.	18.0	111.3
o30988	Apr. 6, 1932	5:00 P.M.	20.6	110.9
	Apr. 9, 1932	10:00 A.M.	19.7	109.9
	Apr. 10, 1932	11:00 A.M.	19.6	111.1
	Apr. 13, 1932	4:00 P.M.	17.8	111.3
	Apr. 22, 1932	9:00 A.M.	18.1	110.1
	May 23, 1932	9:00 A.M.	20.8	111.3



Band No.	Date	Time	Weight	Temperature
c30989	Apr. 6, 1932	5:00 P.M.	23.6	110.1
	Apr. 14, 1932	9:00 A.M.	19.7	107.6
c30778	Oct. 8, 1931	5:40 P.M.	19.2	110.3
	Apr. 7, 1932	9:30 A.M.	19.9	111.4
	Apr. 11, 1932	4:00 P.M.	20.2	
	Apr. 13, 1932	9:00 A.M.	18.7	108.9
c30994	Apr. 8, 1932	10:00 A.M.	23.1	108.2
	May 1, 1932	4:00 P.M.	21.1	109.0
	May 18, 1932	9:00 A.M.	20.1	109.9
c30993	Apr. 8, 1932	10:00 A.M.	20.1	109.4
	May 9, 1932	4:00 P.M.	21.1	109.7
	May 18, 1932	9:00 A.M.	19.9	110.3
f78003	Apr. 9, 1932	10:00 A.M.	23.4	110.3
	Apr. 14, 1932	4:00 P.M.	20.7	110.3
	Apr. 15, 1932	9:00 A.M.	19.2	110; 8
	Apr. 16, 1932	4:00 P.M.	19.3	110.0
	Apr. 18, 1932	4:00 P.M.	19.1	111.5
	Apr. 19, 1932	4:00 P.M.	19.9	111.4
	Apr. 26, 1932	9:00 A.M.	18.5	110.3
	Apr. 28, 1932	4:00 P.M.	20.3	111.3
	Apr. 29, 1932	9:00 A.M.	19.6	110.1
	Apr. 29, 1932	4:00 P.M.	18.9	111.0
	Apr. 30, 1932	9:00 A.M.	17.3	104.5
f78004	Apr. 9, 1932	10:00 A.M.	22.1	
f78005	Apr. 26, 1932	4:00 P.M.	21.6	110.5
	Apr. 29, 1932	9:00 A.M.	19.2	110.8
	Apr. 30, 1932	9:00 A.M.	19.0	110.4
f78012	Apr. 9, 1932	5:00 P.M.	20.7	
c30875	Oct. 17, 1931	9:45 A.M.	18.5	110.3
	Oct. 21, 1931	1:15 P.M.	19.6	111.0
	Apr. 11, 1932	4:00 P.M.	20.2	110.7
	Apr. 13, 1932	9:00 A.M.	18.5	110.9
b90262	Apr. 11, 1932	4:00 P.M.	21.4	111.5
f78132	Apr. 13, 1932	9:00 A.M.	21.5	107.7
f78136	Apr. 13, 1932	9:00 A.M.	20.3	110.7
f78137	Apr. 14, 1932	9:00 A.M.	20.8	110.3
	Apr. 15, 1932	9:00 A.M.	19.6	110.4
b90260	Apr. 26, 1932	4:00 P.M.	20.8	112.0
f78149	Apr. 15, 1932	4:00 P.M.	22.9	111.8
f78155	Apr. 16, 1932	9:00 A.M.	20.1	111.2
	May 9, 1932	9:00 A.M.	21.3	107.0
	May 10, 1932	9:00 A.M.	20.6	108.7

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Band No.	Date	Time	Weight	Temperature
f78173	Apr. 24, 1932	11:00 A.M.	20.4	
al73538	Apr. 18, 1932	9:00 A.M.	18.7	107.8
	Apr. 28, 1932	9:00 A.M.	17.9	
	Apr. 29, 1932	9:00 A.M.	18.1	110.2
	Apr. 30, 1932	9:00 A.M.	18.0	108.4
	May 4, 1932	4:00 P.M.	18.7	112.0
o30503	Apr. 19, 1932	9:00 A.M.	18.6	110.3
f78184	Apr. 22, 1932	4:00 P.M.	20.4	
f78190	Apr. 28, 1932	4:00 P.M.	21.3	111.5
o30508	May 4, 1932	9:00 A.M.	18.7	110.7
f78211	May 6, 1932	4:00 P.M.	20.3	110.4
f78214	May 10, 1932	4:00 P.M.	22.3	108.9
f78222	May 17, 1932	9:00 A.M.	21.8	111.6
f78224	May 18, 1932	4:00 P.M.	19.7	108.6
f78225	May 25, 1932	4:00 P.M.	19.9	110.6
	May 26, 1932	9:00 A.M.	19.7	109.3
f78226	May 19, 1932	4:00 P.M.	19.6	108.2
o30295	Sept 28, 1932	10:00 A.M.	20.3	109.5
o30297	Sept 28, 1932	3:30 P.M.	19.8	108.4
o30315	Sept 29, 1932	3:00 P.M.	19.2	108.6
	Apr. 10, 1933		18.9	110.5
o30346	Oct. 7, 1932	10:00 A.M.	20.5	111.5
	Apr. 13, 1933	3:30 P.M.	21.9	110.4
b90403	Oct. 20, 1932	10:00 A.M.	20.0	
f78432	Oct. 27, 1932	10:00 A.M.	19.8	
f78443	Nov. 1, 1932	10:00 A.M.	20.1	
f78240	Sept 29, 1932	9:45 A.M.	20.3	108.2
al34789	Oct. 4, 1932		19.4	109.9
al82033	Oct. 13, 1932		22.3	
f78326	Oct. 17, 1932		19.2	
b90023	Apr. 5, 1933	5:00 P.M.	20.3	110.2
	Apr. 7, 1933	8:00 A.M.	15.8	

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
b90414	Apr. 5, 1933	5:00 P.M.	22.6	110.9
	Apr. 6, 1933	1:00 P.M.	20.9	111.3
	Apr. 8, 1933	8:00 A.M.	19.6	110.0
	Apr. 11, 1933	8:00 A.M.	20.2	109.6
	Apr. 12, 1933		18.9	110.4
	Apr. 13, 1933	8:00 A.M.	17.8	110.1
	Apr. 15, 1933	11:00 A.M.	20.4	112.0
	Apr. 17, 1933		20.2	112.0
	Apr. 18, 1933	8:00 A.M.	19.9	111.3
	Apr. 20, 1933	8:00 A.M.	19.6	111.2
b90415	Apr. 6, 1933	1:00 P.M.	20.2	110.0
	Apr. 13, 1933	8:00 A.M.	19.0	111.4
b90416	Apr. 6, 1933	1:00 P.M.	20.3	110.7
b90421	Apr. 7, 1933	8:00 A.M.	17.9	
b90437	Apr. 11, 1933	2:00 P.M.	18.6	106.5
b90439	Apr. 8, 1933	11:00 A.M.	25.2	107.0
	Apr. 11, 1933	2:30 P.M.	25.6	110.1
	Apr. 13, 1933	1:00 P.M.	24.7	111.3
b90447	Apr. 12, 1933	2:00 P.M.	19.9	110.6
	May 12, 1933		19.0	
	May 26, 1933	8:15 A.M.	17.9	105.7
b90448	Apr. 11, 1933	2:00 P.M.	22.2	109.8
b90451	Apr. 11, 1933	2:00 P.M.	21.4	108.5
b90460	Apr. 13, 1933	3:30 P.M.	19.1	111.0
b90474	Apr. 19, 1933	8:00 A.M.	18.7	107.5
	Apr. 20, 1933	8:00 A.M.	17.5	109.2
	Apr. 20, 1933	2:30 P.M.	18.6	108.8
b90480	Apr. 19, 1933	2:00 P.M.	18.4	
c58202	Apr. 18, 1933	11:00 A.M.	20.3	109.9
c58203	Apr. 19, 1933	2:00 P.M.	21.5	108.7
c58214	Apr. 24, 1933	3:00 P.M.	20.3	110.6
	Apr. 25, 1933	1:00 P.M.	19.5	111.2
c58217	May 4, 1933	1:30 P.M.	20.3	
f78252	Apr. 25, 1933	2:30 P.M.	22.8	110.8
	Apr. 27, 1933	8:00 A.M.	20.2	109.3
	Apr. 28, 1933	8:00 A.M.	20.0	110.2
c58300	May 5, 1933	3:30 P.M.	22.0	110.6
	May 16, 1933	1:00 P.M.	20.1	110.3
c30380	Apr. 12, 1933	3:15 P.M.	20.4	108.6

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c30384	Apr.15,1933	8:00 A.M.	17.3	111.0
c38023	Apr.22,1933		17.8	109.7
c38032	Apr.24,1933	7:00 A.M.	17.6	109.5

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TABLE XII

Eastern Cowbird

Molothrus ater ater

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a256780	Apr. 7, 1932	5:00 P.M.	41.0	110.5
♀	Apr. 22, 1932	4:00 P.M.	42.7	111.3
	Apr. 26, 1932	4:00 P.M.	47.2	110.3
	May 2, 1932	9:00 A.M.	40.1	110.0
a256781	Apr. 8, 1932	10:00 A.M.	50.1	111.4
♂	Apr. 13, 1932	4:00 P.M.	46.9	110.1
	Apr. 16, 1932	9:00 A.M.	46.4	109.9
	Apr. 20, 1932	4:00 P.M.	45.3	112.0
	Apr. 25, 1932	4:00 P.M.	46.7	111.7
	Apr. 26, 1932	9:00 A.M.	47.0	111.0
	Apr. 26, 1932	4:00 P.M.	48.2	111.8
	Apr. 27, 1932	4:00 P.M.	48.0	112.7
	Apr. 28, 1932	9:00 A.M.	45.5	111.7
	May 2, 1932	9:00 A.M.	46.8	112.1
	May 2, 1932	4:00 P.M.	47.0	111.9
	May 9, 1932	4:00 P.M.	46.8	112.0
a256782	Apr. 8, 1932	10:00 A.M.	53.9	110.4
♂	May 10, 1932	4:00 P.M.	49.3	110.5
	May 12, 1932	4:00 P.M.	48.9	110.9
a256783	Apr. 9, 1932	5:00 P.M.	51.6	110.3
♂	Apr. 21, 1932	9:00 A.M.	49.2	111.7
	May 1, 1932	4:00 P.M.	52.0	112.0
	May 3, 1932	9:00 A.M.	49.3	109.7
	May 3, 1932	4:00 P.M.	48.4	110.1
	May 4, 1932	9:00 A.M.	47.0	109.8
a256784	Apr. 8, 1932	5:00 P.M.	50.3	110.1
♂				
391355	Apr. 8, 1932	5:00 P.M.	44.3	110.9
♀	May 19, 1932	9:00 A.M.	42.0	109.5
	May 22, 1932	11:00 A.M.	43.9	110.5
a256785	Apr. 9, 1932	10:00 A.M.	37.6	110.3
♀				
a256786	Apr. 14, 1932	4:00 P.M.	47.4	111.4
♂	Apr. 16, 1932	9:00 A.M.	42.9	110.3
	Apr. 19, 1932	9:00 A.M.	42.7	
107862	Apr. 15, 1932	4:00 P.M.	43.2	111.3
♂				
a256799	Apr. 15, 1932	4:00 P.M.	44.2	109.1
♂				

Band No.	Date	Time	Weight	Temperature
a256800	Apr. 15, 1932	4:00 P.M.	48.8	110.0
♂	Apr. 24, 1932	4:00 P.M.	49.8	111.2
	May 2, 1932	9:00 A.M.	47.9	110.0
	May 27, 1932	4:00 P.M.	47.9	111.3
	June 4, 1932	11:00 A.M.	46.1	110.4
391358	Apr. 15, 1932	4:00 P.M.	45.0	
♂	Apr. 10, 1933	4:00 P.M.	44.7	107.4
107867	May 3, 1932	9:00 A.M.	38.9	108.1
♀				
107869	Apr. 18, 1932	4:00 P.M.	49.8	110.3
♂	Apr. 21, 1932	9:00 A.M.	50.6	111.4
a256801	May 9, 1932	9:00 A.M.	49.8	110.5
♂	May 10, 1932	4:00 P.M.	51.3	111.2
a256802	Apr. 21, 1932	9:00 A.M.	51.6	111.0
♂				
a134735	Apr. 26, 1932	9:00 A.M.	40.7	108.8
♀	May 18, 1932	4:00 P.M.	43.6	110.5
a256804	May 2, 1932	9:00 A.M.	40.8	109.8
♀	May 24, 1932	9:00 A.M.	40.9	110.5
	May 27, 1932	4:00 P.M.	43.9	109.8
a256805	May 3, 1932	4:00 P.M.	47.7	110.7
♂	May 19, 1932	9:00 A.M.	45.2	
	May 25, 1932	9:00 A.M.	45.8	109.9
	May 28, 1932	1:00 P.M.	43.6	111.4
	May 31, 1932	9:00 A.M.	44.6	111.9
	May 31, 1932	4:00 P.M.	45.7	112.0
	June 2, 1932	9:00 A.M.	41.7	109.1
a256813	May 11, 1932	9:00 A.M.	49.1	110.8
♂	May 19, 1932	4:00 P.M.	47.7	110.9
	May 24, 1932	4:00 P.M.	43.0	110.3
	May 25, 1932	9:00 A.M.	43.0	109.6
a256814	May 11, 1932	4:00 P.M.	43.8	110.3
♂	May 24, 1932	9:00 A.M.	41.4	110.7
a256816	May 18, 1932	4:00 P.M.	48.3	110.5
♂				
a256818	May 18, 1932	4:00 P.M.	46.5	111.4
♂				
a256819	May 19, 1932	9:00 A.M.	47.8	
♂				
a256820	May 21, 1932	4:00 P.M.	42.4	111.3
♀				
516770	May 22, 1932	11:00 A.M.	45.4	110.7
♂	May 22, 1932	4:00 P.M.	47.8	111.5
	May 23, 1932	9:00 A.M.	46.1	111.2
a256821	May 28, 1932	1:00 P.M.	49.6	110.8
♂				

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Band No.	Date	Time	Weight	Temperature
40598	Apr. 5, 1933	11:00 A.M.	53.8	111.2
♂	Apr. 10, 1932	4:00 P.M.	50.3	110.4
40602	Apr. 10, 1932	11:00 A.M.	50.7	107.9
♂				
328303	Apr. 11, 1932	1:45 P.M.	49.1	
♂	Apr. 14, 1932		46.8	110.7
	Apr. 17, 1932	11:00 A.M.	47.2	110.7
107870	Apr. 14, 1932	11:00 A.M.	47.3	110.2
♂				
107871	Apr. 14, 1932	11:00 A.M.	53.8	110.8
♂				
107872	Apr. 15, 1932	8:00 A.M.	44.8	110.3
♂	Apr. 18, 1932	1:00 P.M.	45.0	109.7
	Apr. 19, 1932	8:00 A.M.	42.9	109.5
107888	Apr. 20, 1932	1:00 P.M.	51.9	108.5
♂				
107889	Apr. 20, 1932	1:00 P.M.	34.3	109.9
♀	May 4, 1932		35.4	111.1
107890	Apr. 20, 1932	1:00 P.M.	44.7	109.9
♂	May 4, 1932	1:30 P.M.	43.6	
328310	Apr. 24, 1932	3:00 P.M.	36.5	109.8
♀				
107893	Apr. 25, 1932	8:00 A.M.	48.2	110.1
♂				
391384	Apr. 14, 1932	9:15 A.M.	36.9	109.3
♀	May 19, 1932	8:30 A.M.	38.4	109.7
	May 25, 1932	8:00 A.M.	39.9	110.1
484814	Apr. 25, 1932	11:30 A.M.	46.9	109.0
♂				
484815	Apr. 25, 1932	11:45 A.M.	35.8	109.5
♀				

[illegible]

TABLE XIII

White - crowned Sparrow

Zonotrichia leucophrys leucophrys

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30767	Oct. 7, 1931	1:30 P.M.	23.4	106.8 Immature
c30768	Oct. 7, 1931	1:30 P.M.	23.4	109.2 Immature
	Oct. 10, 1931	10:30 A.M.	21.5	109.1
	Oct. 12, 1931	9:40 A.M.	21.5	109.4
	Oct. 13, 1931	9:30 A.M.	21.3	109.3
	Oct. 13, 1931	1:50 P.M.	21.0	108.1
	Oct. 14, 1931	9:35 A.M.	21.2	107.9
	Oct. 14, 1931	1:50 P.M.	20.9	110.4
	Oct. 14, 1931	5:40 P.M.	22.3	110.4
c30813	Oct. 12, 1931	5:30 P.M.	25.9	108.8 Immature
	Oct. 13, 1931	1:50 P.M.	23.7	109.5
	Oct. 14, 1931	1:55 P.M.	24.2	109.4
	Oct. 15, 1931	4:35 P.M.	24.6	111.0
c30856	Oct. 13, 1931	5:35 P.M.	24.3	104.6 Immature
c30908	Oct. 24, 1931	4:15 A.M.	28.0	110.7 Immature
a173673	May 7, 1932	10:00 A.M.	30.0	
	May 10, 1932	4:00 P.M.	33.0	110.2
a173684	May 6, 1932	4:00 P.M.	31.5	110.1
a173685	May 6, 1932	4:00 P.M.	33.0	
a173686	May 7, 1932	10:00 A.M.	29.5	108.9
	May 11, 1932	4:00 P.M.	34.1	110.3
a173697	May 12, 1932	4:00 P.M.	25.9	109.4
	May 13, 1932	4:00 P.M.	25.0	108.2
a173700	May 7, 1932	4:00 P.M.	33.3	108.0
a173705	May 8, 1932	9:00 A.M.	30.8	109.3
a173707	May 8, 1932	9:00 A.M.	33.4	109.3
	May 8, 1932	4:00 P.M.	32.7	110.6
	May 11, 1932	9:00 A.M.	33.6	110.2
	May 12, 1932	4:00 P.M.	35.8	111.7
	May 13, 1932	4:00 P.M.	36.0	110.5

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
a173708	May 8, 1932	9:00 A.M.	31.8	108.6
	May 9, 1932	9:00 A.M.	29.1	109.8
a173714	May 11, 1932	4:00 P.M.	38.1	
a173715	May 8, 1932	4:00 P.M.	34.4	108.8
a173717	May 8, 1932	4:00 P.M.	38.7	108.5
a173724	May 8, 1932	4:00 P.M.	27.2	107.7
a173725	May 8, 1932	4:00 P.M.	32.8	107.3
a173730	May 9, 1932	9:00 A.M.	28.6	109.3
	May 11, 1932	9:00 A.M.	28.5	109.4
	May 12, 1932	4:00 P.M.	29.6	110.5
a173738	May 9, 1932	4:00 P.M.	36.4	110.5
a173740	May 12, 1932	4:00 P.M.	30.2	109.4
a173741	May 10, 1932	9:00 A.M.	36.2	105.9
a173742	May 10, 1932	9:00 A.M.	31.1	108.3
a173745	May 10, 1932	4:00 P.M.	35.3	109.7
a173746	May 10, 1932	4:00 P.M.	31.7	109.8
a173748	May 12, 1932	4:00 P.M.	29.4	109.5
a173750	May 11, 1932	9:00 A.M.	32.4	109.0
a173751	May 11, 1932	9:00 A.M.	35.5	109.7
a173753	May 11, 1932	4:00 P.M.	32.4	109.9
a173755	May 11, 1932	4:00 P.M.	36.5	109.8
a173757	May 11, 1932	4:00 P.M.	36.3	107.5
	May 13, 1932	9:00 A.M.	35.1	108.0
a173761	May 12, 1932	4:00 P.M.	31.4	108.3
a173765	May 13, 1932	4:00 P.M.	32.6	106.0
a173770	May 17, 1932	9:00 A.M.	30.6	109.3
a173771	May 17, 1932	4:00 P.M.	22.9	110.1
a173772	May 17, 1932	4:00 P.M.	32.2	108.0
a173773	May 18, 1932	9:00 A.M.	29.5	109.0
a173975	Oct. 5, 1932	10:00 A.M.	27.8	109.0 Immature
a173982	Oct. 5, 1932	3:00 P.M.	29.4	109.5 Immature

[illegible]

Band No.	Date	Time	Weight	Temperature
c58320	May 8, 1933	2:00 P.M.	35.5	107.0
	May 10, 1933	8:30 A.M.	26.8	
	May 12, 1933	8:00 A.M.	26.8	
40610	May 2, 1933		31.7	110.5
	May 4, 1933	8:00 A.M.	30.4	110.3
40611	May 3, 1933	11:45 A.M.	25.9	110.8
	May 4, 1933	8:00 A.M.	25.0	110.9
	May 9, 1933	8:45 A.M.	27.2	109.6
c58285	May 2, 1933	1:30 P.M.	29.9	110.3
40613	May 3, 1933	11:45 A.M.	32.5	110.4
	May 5, 1933	8:00 A.M.	31.4	109.9
c58299	May 5, 1933	8:00 A.M.	32.3	109.6
c58528	May 11, 1933	4:00 P.M.	30.0	
c58541	May 11, 1933	1:30 P.M.	31.8	108.9
c58553	May 10, 1933	8:30 A.M.	34.7	
	May 12, 1933	8:00 A.M.	32.9	
c58557	May 10, 1933	11:15 A.M.	32.6	108.9
c58561	May 11, 1933	1:30 P.M.	34.5	109.0
c58565	May 11, 1933	4:00 P.M.	31.9	
c58566	May 11, 1933	4:00 P.M.	36.7	
c58570	May 12, 1933	8:00 A.M.	30.7	

[illegible]

TABLE XIV

Bronzed Grackle

Quiscalus quiscula aeneus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F)
a425984	Apr. 4, 1932	4:30 P.M.	86.0	111.6
	Apr. 27, 1932	4:00 P.M.	88.7	111.7
a406516	Apr. 5, 1932	9:30 A.M.	91.3	111.0
a406517	Apr. 5, 1932	9:30 A.M.	91.3	111.7
a406518	Apr. 5, 1932	5:30 P.M.	122.7	112.5
a406519	Apr. 6, 1932	5:00 P.M.	102.0	111.6
527292	Apr. 8, 1932	5:00 P.M.	99.0	111.0
	May 2, 1932	4:00 P.M.	102.2	109.9
a425997	Apr. 8, 1932	5:00 P.M.	94.3	110.4
a406520	Apr. 8, 1932	5:00 P.M.	91.3	111.2
a406521	Apr. 8, 1932	5:00 P.M.	125.6	110.9
a406522	Apr. 8, 1932	5:00 P.M.	91.1	112.0
a406523	Apr. 9, 1932	10:00 A.M.	116.6	111.9
a406524	Apr. 9, 1932	10:00 A.M.	86.2	112.0
a406525	Apr. 9, 1932	5:00 P.M.	119.2	111.0
	Apr. 20, 1932	4:00 P.M.	103.2	109.8
	Apr. 21, 1932	9:00 A.M.	98.6	110.6
	Apr. 24, 1932	4:00 P.M.	113.0	111.7
a406526	Apr. 9, 1932	5:00 P.M.	125.1	109.8
a406527	Apr. 10, 1932	5:00 P.M.	122.4	110.7
a406536	Apr. 26, 1932	9:00 A.M.	90.3	110.3
	May 2, 1932	9:00 A.M.	88.1	112.5
a406543	Apr. 29, 1932	9:00 A.M.	123.0	
a406545	Apr. 19, 1932	9:00 A.M.	96.8	110.5
a406554	Apr. 13, 1932	4:00 P.M.	86.4	111.3

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
	Apr. 20, 1932	4:00 P.M.	79.8	112.0
	Apr. 22, 1932	9:00 A.M.	79.6	112.5
107863	Apr. 16, 1932	9:00 A.M.	95.5	111.7
107864	Apr. 16, 1932	9:00 A.M.	92.4	112.0
	Apr. 19, 1932	9:00 A.M.	86.9	109.8
a406560	Apr. 24, 1932	11:00 A.M.	88.5	111.0
a406562	Apr. 19, 1932	9:00 A.M.	131.1	110.5
	Apr. 23, 1932	4:00 P.M.	132.9	113.0
	Apr. 30, 1932	9:00 A.M.	118.9	111.8
a406566	Apr. 19, 1932	9:00 A.M.	92.5	110.3
a406568	Apr. 19, 1932	9:00 A.M.	111.1	109.3
	Apr. 20, 1932	4:00 P.M.	107.7	109.9
a406571	Apr. 18, 1932	9:00 A.M.	94.7	108.7
a406573	Apr. 18, 1932	4:00 P.M.	94.9	110.3
a406574	Apr. 18, 1932	4:00 P.M.	93.0	111.7
	May 18, 1932	4:00 P.M.	93.7	109.5
	May 20, 1932	9:00 A.M.	92.7	111.5
	May 24, 1932	4:00 P.M.	90.9	111.3
	May 29, 1932	11:00 A.M.	87.7	112.9
a406501	Apr. 19, 1932	9:00 A.M.	94.1	109.4
a406575	Apr. 19, 1932	9:00 A.M.	120.6	109.0
a406576	Apr. 19, 1932	9:00 A.M.	131.6	109.9
a406577	Apr. 19, 1932	4:00 P.M.	89.9	
a406578	Apr. 19, 1932	4:00 P.M.	99.7	111.3
a406579	Apr. 20, 1932	9:00 A.M.	89.2	106.9
a406580	Apr. 20, 1932	9:00 A.M.	120.2	109.6
a406581	Apr. 24, 1932	11:00 A.M.	109.4	109.0
a406582	Apr. 20, 1932	9:00 A.M.	122.0	109.4
a406583	Apr. 20, 1932	4:00 P.M.	110.7	111.0
a406584	Apr. 20, 1932	4:00 P.M.	123.1	112.0
	Apr. 27, 1932	9:00 A.M.	121.6	113.0
	May 19, 1932	9:00 A.M.	114.5	111.0
	Apr. 7, 1933	5:00 P.M.	131.7	111.2
a406585	Apr. 20, 1932	4:00 P.M.	111.5	111.3
	Apr. 23, 1932	4:00 P.M.	116.2	113.9

[illegible]

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
a406586	Apr. 20, 1932	4:00 P.M.	90.9	110.9
a406588	Apr. 21, 1932	9:00 A.M.	126.4	110.9
	Apr. 23, 1932	4:00 P.M.	117.8	112.8
	Apr. 25, 1932	4:00 P.M.	123.6	113.9
	Apr. 29, 1932	9:00 A.M.	124.9	112.2
a406589	Apr. 21, 1932	4:00 P.M.	119.6	108.1
527366	Apr. 23, 1932	9:00 A.M.	116.1	108.6
a406590	Apr. 22, 1932	9:00 A.M.	98.7	111.0
a406591	Apr. 22, 1932	9:00 A.M.	118.2	109.7
a406592	Apr. 22, 1932	9:00 A.M.	90.7	108.0
a406594	Apr. 23, 1932	4:00 P.M.	90.3	112.7
a406595	Apr. 23, 1932	4:00 P.M.	103.5	112.5
a406597	Apr. 24, 1932	11:00 A.M.	88.8	110.4
a406598	Apr. 25, 1932	4:00 P.M.	98.4	111.0
a406599	Apr. 26, 1932	9:00 A.M.	122.9	110.4
a406600	Apr. 26, 1932	9:00 A.M.	97.7	111.3
	Apr. 26, 1932	4:00 P.M.	94.8	109.9
527398	Apr. 26, 1932	4:00 P.M.	130.2	110.0
	May 2, 1932	4:00 P.M.	127.8	113.3
	May 3, 1932	9:00 A.M.	123.2	111.6
a406601	Apr. 27, 1932	9:00 A.M.	113.6	112.6
a406604	May 1, 1932	4:00 P.M.	106.3	111.0
a406605	May 2, 1932	9:00 A.M.	91.2	112.7
a406606	May 2, 1932	9:00 A.M.	89.1	110.2
a425966	May 2, 1932	9:00 A.M.	112.8	108.7
a406607	May 2, 1932	4:00 P.M.	98.6	111.5
a406608	May 2, 1932	4:00 P.M.	108.9	110.1
a406609	May 3, 1932	9:00 A.M.	137.0	110.0
a406610	May 3, 1932	9:00 A.M.	97.1	109.5
a406438	May 5, 1932	4:00 P.M.	92.7	110.3
	May 6, 1932	4:00 P.M.	88.8	111.0
	May 28, 1932	1:00 P.M.	84.9	111.0

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Band No.	Date	Time	Weight	Temperature
a406613	May 6, 1933	4:00 P.M.	105.0	109.7
	Apr. 27, 1933	8:00 A.M.	99.3	108.9
	May 12, 1933	8:00 A.M.	96.6	
	May 19, 1933	4:00 P.M.	104.0	111.7
a406615	May 17, 1932	9:00 A.M.	116.5	111.0
a406618	May 18, 1932	9:00 A.M.	108.6	109.4
a406472	May 18, 1932	9:00 A.M.	91.2	109.3
a414015	May 23, 1932	9:00 A.M.	117.3	110.3
a406620	May 24, 1932	9:00 A.M.	114.7	112.5
a406621	May 24, 1932	4:00 P.M.	95.7	110.7
a406622	May 28, 1932	1:00 P.M.	88.7	112.2
a406510	May 28, 1932	1:00 P.M.	85.7	108.8
a406629	June 4, 1932	11:00 A.M.	61.9	108.0
263288	Apr. 7, 1933	11:00 A.M.	135.7	110.3
263286	Apr. 7, 1933	8:00 A.M.	94 .0	110.3
263287	Apr. 7, 1933	8:00 A.M.	115.2	
	Apr. 8, 1933	11:00 A.M.	114.6	110.1
a406407	Apr. 7, 1933	8:00 A.M.	125.8	111.5
	Apr. 27, 1933	1:00 P.M.	126.4	111.5
	May 24, 1933	8:15 A.M.	110.0	111.5
507194	Apr. 8, 1933	8:00 A.M.	95.5	110.0
507195	Apr. 8, 1933	11:00 A.M.	131.0	109.7
507196	Apr. 8, 1933	11:00 A.M.	114.8	109.7
	Apr. 12, 1933	8:00 A.M.	98.7	108.5
328294	Apr. 10, 1933	11:00 A.M.	95.6	111.7
	Apr. 21, 1933	11:00 A.M.	95.6	
328295	Apr. 10, 1933	4:00 P.M.	85.0	109.3
328296	Apr. 10, 1933	4:00 P.M.	106.5	109.9
328297	Apr. 10, 1933	4:00 P.M.	107.0	109.2
	Apr. 18, 1933	8:00 A.M.	104.8	110.2
328298	Apr. 10, 1933	4:00 P.M.	107.8	109.3
328299	Apr. 10, 1933	4:00 P.M.	95.5	110.1

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Band No.	Date	Time	Weight	Temperature
328300	Apr. 10, 1933	4:00 P.M.	100.9	110.2
328301	Apr. 11, 1933	8:00 A.M.	87.9	110.5
328302	Apr. 11, 1933	8:00 A.M.	116.1	110.7
507198	Apr. 11, 1933	1:45 P.M.	116.0	
	Apr. 21, 1933	11:00 A.M.	111.7	110.1
328304	Apr. 11, 1933	2:30 P.M.	99.6	
a414002-r	Apr. 12, 1933	8:00 A.M.	122.4	111.3
507199	Apr. 12, 1933	8:00 A.M.	95.4	110.6
507200	Apr. 12, 1933	11:00 A.M.	92.3	111.2
a414033-r	Apr. 13, 1933	8:00 A.M.	92.6	110.4
	May 11, 1933	8:45 A.M.	93.0	
107873	Apr. 17, 1933	11:00 A.M.	117.4	110.3
107874	Apr. 17, 1933	4:00 P.M.	98.0	110.8
	Apr. 21, 1933	3:00 P.M.	92.3	111.0
107875	Apr. 17, 1933	4:00 P.M.	125.6	110.0
	Apr. 20, 1933	8:00 A.M.	116.2	110.3
	Apr. 21, 1933	3:00 P.M.	118.4	111.8
107876	Apr. 17, 1933	4:00 P.M.	97.5	109.9
107877	Apr. 18, 1933	8:00 A.M.	128.6	109.4
	Apr. 21, 1933	3:00 P.M.	117.7	112.1
107878	Apr. 18, 1933	8:00 A.M.	89.5	108.8
107879	Apr. 18, 1933	8:00 A.M.	87.6	110.0
107880	Apr. 18, 1933	8:00 A.M.	99.0	108.5
527233	Apr. 18, 1933	1:00 P.M.	120.8	107.9
527234	Apr. 18, 1933	1:00 P.M.	112.4	111.0
527235	Apr. 19, 1933	8:00 A.M.	89.2	109.7
107886	Apr. 19, 1933	1:45 P.M.	102.4	110.8
527236	Apr. 21, 1933	8:00 A.M.	128.1	109.9
527237	Apr. 21, 1933	11:00 A.M.	118.8	110.7
527238	Apr. 21, 1933	11:00 A.M.	96.2	109.5
527239	Apr. 21, 1933	11:00 A.M.	87.2	108.1

[illegible]

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
107892	Apr. 21, 1933	3:00 P.M.	119.9	111.7
527348	Apr. 25, 1933	8:00 A.M.	103.8	109.5
527347	Apr. 25, 1933	1:00 P.M.	118.0	111.1
	Apr. 28, 1933	11:00 A.M.	122.3	
527344	Apr. 26, 1933	11:00 A.M.	92.9	109.7
527343	Apr. 26, 1933	11:00 A.M.	122.3	110.7
527328	Apr. 27, 1933	8:00 A.M.	118.8	109.7
	May 3, 1933	8:00 A.M.	112.2	111.7
527330	Apr. 27, 1933	8:00 A.M.	97.7	110.5
527331	Apr. 27, 1933	8:00 A.M.	98.4	111.3
527332	Apr. 27, 1933	8:00 A.M.	128.6	110.6
527333	Apr. 27, 1933	1:00 P.M.	115.4	109.7
527306	Apr. 28, 1933	8:15 A.M.	123.5	
	May 3, 1933	8:00 A.M.	115.6	111.3
527307	Apr. 28, 1933	11:00 A.M.	97.6	
527308	Apr. 28, 1933	11:00 A.M.	109.9	
107896	May 24, 1933	4:00 P.M.	89.0	111.1
	May 25, 1933	8:00 A.M.	78.4	107.2
	May 26, 1933	2:45 P.M.	85.3	
527310	May 3, 1933	8:00 A.M.	94.1	
527313	May 5, 1933	8:00 A.M.	119.1	111.4
527316	May 1, 1933	11:30 A.M.	93.0	110.8
107903	May 10, 1933	8:30 A.M.	84.7	
527323	May 8, 1933	8:30 P.M.	113.8	110.0
107907	May 10, 1933	8:30 A.M.	91.2	
	May 11, 1933	8:45 A.M.	90.2	
527440	May 11, 1933	8:45 A.M.	99.8	
	May 26, 1933	8:15 A.M.	90.2	
527441	May 11, 1933	1:30 P.M.	100.5	110.1
527442	May 12, 1933	8:00 A.M.	90.8	
a219207	May 19, 1933	4:00 P.M.	108.6	111.2

[illegible]

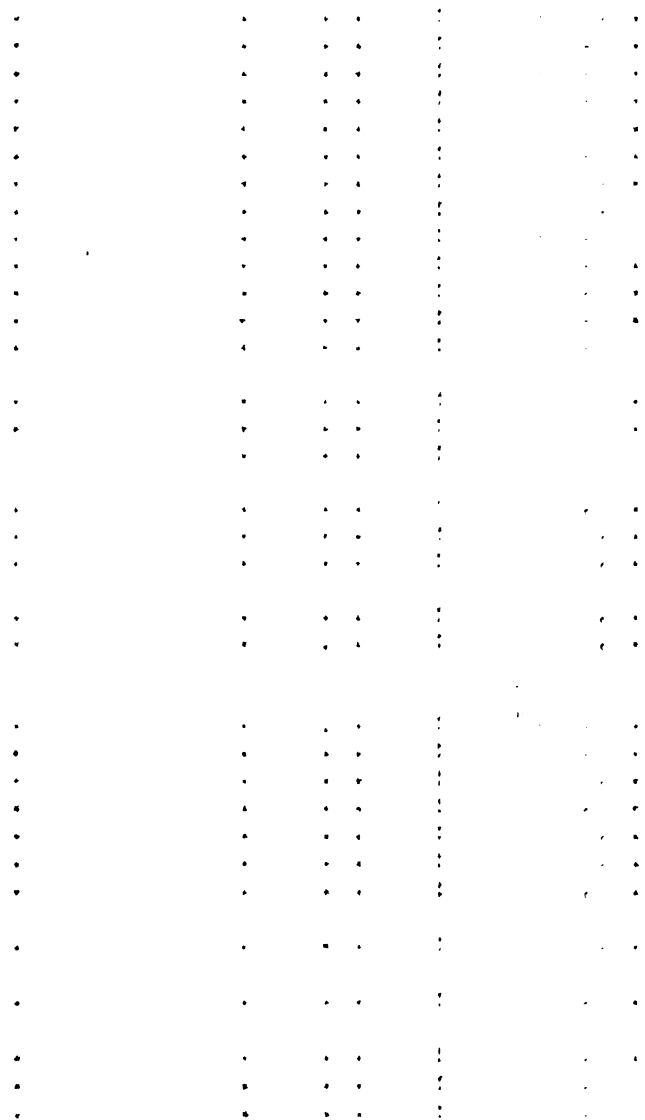
<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
a219208	May 22, 1933	11:45 A.M.	94.1	111.6
	May 24, 1933	8:15 A.M.	84.0	110.9
527450	May 24, 1933	8:15 A.M.	109.8	111.2
a406411-r	May 25, 1933	8:00 A.M.	98.3	110.3
527501	Apr. 10, 1933		135.1	111.8
507201	Apr. 17, 1933	11:30 A.M.	121.2	108.1
	Apr. 18, 1933	1:00 P.M.	113.7	107.5
	Apr. 25, 1933	8:00 A.M.	104.6	109.6
527503	May 5, 1933	8:30 A.M.	117.5	109.0
507209	May 9, 1933	9:30 A.M.	86.8	
507210	May 19, 1933	3:30 P.M.	83.5	110.4

TABLE XV

Blue Jay

Cyanocitta cristata cristata

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
107829	Oct. 8, 1931	3:10 P.M.	91.9	109.3
	Oct. 12, 1931	9:15 A.M.	87.8	109.8
	Oct. 18, 1931	9:50 A.M.	90.7	110.4
	Oct. 24, 1931	4:45 P.M.	87.6	110.7
	Nov. 26, 1931	12:05 P.M.	93.8	109.7
	Dec. 13, 1931	3:45 P.M.	85.9	106.8
	Dec. 3, 1931	9:45 A.M.	96.5	111.5
	Jan 14, 1932	10:30 A.M.	95.3	111.9
	Jan 16, 1932	10:50 A.M.	93.9	111.8
	Apr. 6, 1932	5:00 P.M.	91.1	112.2
	Apr. 29, 1932	9:00 A.M.	86.6	110.9
	Apr. 30, 1932	4:00 P.M.	85.1	108.6
	May 24, 1932	9:00 A.M.	88.2	111.0
107836	Dec. 4, 1931	9:50 A.M.	91.0	108.5
	Apr. 27, 1933	8:00 A.M.	80.8	110.2
	May 29, 1933	4:30 P.M.	79.9	
107857	Oct. 29, 1931	10:00 A.M.	85.3	107.7
	Nov. 7, 1931	5:00 P.M.	90.1	110.4
	Dec. 9, 1931	5:15 P.M.	94.5	109.1
107830	Dec. 3, 1931	5:20 P.M.	90.2	108.5
	Dec. 8, 1931	9:50 A.M.	90.4	109.5
91751) 107858)	Dec. 5, 1931	10:15 A.M.	82.4	110.7
	Jan. 18, 1932	3:25 P.M.	85.6	109.4
	Apr. 8, 1932	5:00 P.M.	78.8	110.4
	Apr. 25, 1932	4:00 P.M.	84.0	109.7
	Feb. 6, 1933	12:00 P.M.	83.2	109.8
	Feb. 8, 1933	5:00 P.M.	75.5	110.1
	Feb. 15, 1933	12:00 P.M.	79.1	109.8
107859	Apr. 2, 1932	12:10 P.M.	88.0	108.0
a357737	Apr. 23, 1932	4:00 P.M.	82.8	110.8
a357739	Apr. 26, 1932	4:00 P.M.	83.7	109.2
	June 2, 1932	9:00 A.M.	86.0	109.8
	May 25, 1933	1:00 P.M.	89.2	111.0



Band No.	Date	Time	Weight	Temperature
a357739	Apr. 30, 1932	9:00 A.M.	80.5	109.3
a357742	May 2, 1932	4:00 P.M.	73.2	109.0
a357749	May 10, 1932	4:00 P.M.	88.4	110.8
a357751	May 16, 1932	4:00 P.M.	75.2	109.0
	May 22, 1932	11:00 A.M.	80.1	109.7
a357752	May 16, 1932	4:00 P.M.	92.8	108.1
a357753	May 22, 1932	11:00 A.M.	87.1	110.8
	May 24, 1933	4:00 P.M.	83.8	110.5
484774	May 25, 1932	4:00 P.M.	81.3	111.6
	Feb. 8, 1933	5:00 P.M.	93.1	111.2
	Apr. 8, 1933	8:00 A.M.	80.7	109.5
a357754	May 26, 1932	9:00 A.M.	91.9	109.5
a406644	Oct. 20, 1931	10:00 A.M.	82.9	
	Nov. 5, 1931	10:00 A.M.	74.7	
a357758	Dec. 1, 1931	10:00 A.M.	96.3	
	Feb. 6, 1933	12:00 P.M.	86.7	109.1
	Feb. 15, 1933	12:00 P.M.	83.4	109.2
	Mar. 3, 1933	5:00 P.M.	84.4	110.1
a410238	Nov. 2, 1931	4:00 P.M.	90.4	110.0
a357759	Oct. 27, 1931	3:00 P.M.		110.0
a357763	Nov. 4, 1931	3:00 P.M.	82.2	
649002	Nov. 26, 1931	10:00 A.M.	77.9	
a357765	Dec. 5, 1931	10:00 A.M.	89.3	
328277	Sept 30, 1932	10:00 A.M.	85.5	108.5
a357766	Feb 3, 1933	12:00 P.M.	82.7	111.1
649009	Feb. 7, 1933	12:00 P.M.	76.2	111.2
a406642	Apr. 25, 1933	1:00 P.M.	85.0	111.3
	Apr. 27, 1933	8:00 A.M.	81.1	109.1
	Apr. 27, 1933	1:00 P.M.	83.2	110.0
	May 1, 1933	11:15 A.M.	81.5	109.0
107900	May 1, 1933	11:30 A.M.	78.5	109.5
	May 10, 1933	8:00 A.M.	76.5	
107910	May 2, 1933	1:30 P.M.	76.7	109.3
107902	May 3, 1933	8:00 A.M.	70.4	110.1
a219209	May 23, 1933	1:15 P.M.	79.3	108.9

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TABLE XVI

Bank Swallow

Riparia riparia riparia

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c33777	June 11, 1932	7:00 A.M.		104.5
c33780	June 11, 1932	7:00 A.M.		104.5
c33781	June 11, 1932	7:00 A.M.		105.4
c33783	June 11, 1932	7:00 A.M.		105.5
c33555	June 12, 1932	10:00 A.M.		106.9
c33837	June 12, 1932	10:00 A.M.		109.8
c33808	June 12, 1932	10:00 A.M.		110.7
c33558	June 12, 1932	10:00 A.M.		110.3
c33996	June 12, 1932	10:00 A.M.		110.9
c33559	June 12, 1932	10:00 A.M.		109.9
c33857	June 12, 1932	10:00 A.M.		109.4
c33991	June 12, 1932	11:00 A.M.	14.1	111.1
c33868	June 12, 1932	11:00 A.M.	14.6	109.3
c33927	June 12, 1932	11:00 A.M.	13.2	109.5
c33568	June 12, 1932	11:00 A.M.	14.1	109.4
c33569	June 12, 1932	11:00 A.M.	12.7	108.8
c33572	June 12, 1932	11:00 A.M.	14.5	109.9
c33578	June 12, 1932	11:00 A.M.	16.4	110.2
c33506	June 12, 1932	11:00 A.M.	13.2	109.5
c33877	June 12, 1932	12:00 P.M.	13.1	110.5
c33519	June 12, 1932	12:00 P.M.	13.3	108.8
c33584	June 12, 1932	12:00 P.M.	13.1	109.6

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c33453	June 12, 1932	12:00 P.M.	13.6	109.3
c33589	June 12, 1932	12:00 P.M.	14.4	109.9
c33599	June 12, 1932	12:00 P.M.	13.4	109.9
c33857	June 12, 1932	12:00 P.M.	14.0	109.8
c33838	June 12, 1932	12:00 P.M.	13.7	110.0
c30280	June 12, 1932	12:00 P.M.	14.2	109.6
c30278	June 12, 1932	12:00 P.M.	17.5	110.4
c30277	June 12, 1932	12:00 P.M.	13.3	108.8
c30279	June 12, 1932	12:00 P.M.	14.0	109.5

TABLE XVII

Black-capped Chickadee

Penthestes atricapillus atricapillus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30732	Oct. 7, 1931	1:20 P.M.	9.5	104.7
c30750	Oct. 7, 1931	5:40 P.M.	9.8	104.1
	Oct. 8, 1931	5:45 P.M.	9.4	108.1
c30779	Oct. 8, 1931	5:45 P.M.	10.3	108.6
	Oct. 9, 1931	5:05 P.M.	9.8	104.0
c30882	Oct. 18, 1931	9:50 A.M.	10.0	107.6
	Oct. 22, 1931	1:55 P.M.	10.1	110.6
	Oct. 25, 1931	6:00 P.M.	9.7	108.5
c30883	Oct. 18, 1931	9:50 A.M.	9.6	106.5
c30930	Oct. 27, 1931	5:40 P.M.	11.0	108.9
	Nov. 5, 1931	10:15 A.M.	9.9	108.1
	Nov. 8, 1931	5:25 P.M.	10.6	109.3
	Nov. 13, 1931	5:10 P.M.	10.3	109.9
	Dec. 5, 1931	4:40 P.M.	11.3	110.7
	Dec. 8, 1931	4:15 P.M.	11.2	107.5
	Dec. 15, 1931	5:05 P.M.	11.2	110.6
	Jan. 6, 1932	4:25 P.M.	11.5	111.1
	Jan. 18, 1932	3:30 P.M.	11.3	109.5
	Mar. 3, 1932	5:15 P.M.	11.4	110.8
	Apr. 19, 1932	4:00 P.M.	9.9	108.7
	May 11, 1932	4:00 P.M.	11.1	108.7
c30934	Oct. 28, 1931	4:50 P.M.	10.1	109.7
	Oct. 28, 1931	5:10 P.M.	9.8	109.5
c30947	Dec. 5, 1931	4:40 P.M.	10.1	111.3
	Dec. 15, 1931	5:00 P.M.	10.4	105.0
	Jan. 8, 1932	3:25 P.M.	10.7	110.4
	Jan. 24, 1932	5:00 P.M.	10.2	109.5
c30961	Dec. 2, 1932	4:35 P.M.	11.4	110.0
f78178	Apr. 18, 1932	4:00 P.M.	9.6	

[illegible]

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
f78218	May 13, 1932	9:00 A.M.	11.0	107.9
f78249	Oct. 7, 1932		10.0	
f78263	Oct. 11, 1932	1:00 P.M.	9.7	
f78262	Oct. 11, 1932		10.3	
f78292	Oct. 28, 1932	3:00 P.M.	10.4	
f78357	Nov. 4, 1932		11.8	
f78483	Dec. 16, 1932	10:00 A.M.	9.2	
f78486	Jan. 31, 1933	5:30 P.M.	11.7	109.8
f78365	Mar. 10, 1933	12:00 A.M.	10.4	

TABLE XVIII

White-breasted Nuthatch

Sitta carolinensis carolinensis

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30850	Nov.1, 1931	10:50 A.M.	21.0	106.8
	Nov.8, 1931	10:00 A.M.	20.6	110.0
	Nov.12, 1931	5:00 P.M.	21.2	109.5
	Dec.1, 1931	5:30 P.M.	21.5	110.1
	Dec.5, 1931	4:40 P.M.	20.3	111.1
	Feb.2, 1932	5:15 P.M.	23.3	110.3
	Mar.10, 1932	4:05 P.M.	22.6	109.9
	Mar.21, 1932	5:30 P.M.	21.4	109.5
c30905	Oct.23, 1931	4:10 P.M.	20.9	109.8
c30954	Nov.5, 1931		21.1	108.2
	Nov.13, 1931		21.0	109.1
93333	Nov.16, 1931	4:25 P.M.	22.9	108.9
	Dec.2, 1931	5:10 P.M.	24.2	109.8
	Oct.17, 1931		22.2	
c30962	Dec.2, 1931	5:10 P.M.	21.8	110.0
	Dec.5, 1931	4:40 P.M.	19.8	
c30966	Dec.15, 1931	5:05 P.M.	21.3	109.5
a173958	Oct.17, 1932	5:00 P.M.	21.5	
	Nov.20, 1932	12:00 P.M.	22.6	
	Apr.12, 1933	11:00 A.M.	21.3	108.5
604685	Nov.13, 1932		21.7	
f78482	Dec.12, 1932	5:00 P.M.	22.7	
a182034	Oct.13, 1932		20.4	
a182072	Oct.21, 1932	2:00 P.M.	19.6	
	Nov.7, 1932		20.3	
a182098	Oct.24, 1932		20.2	107.8

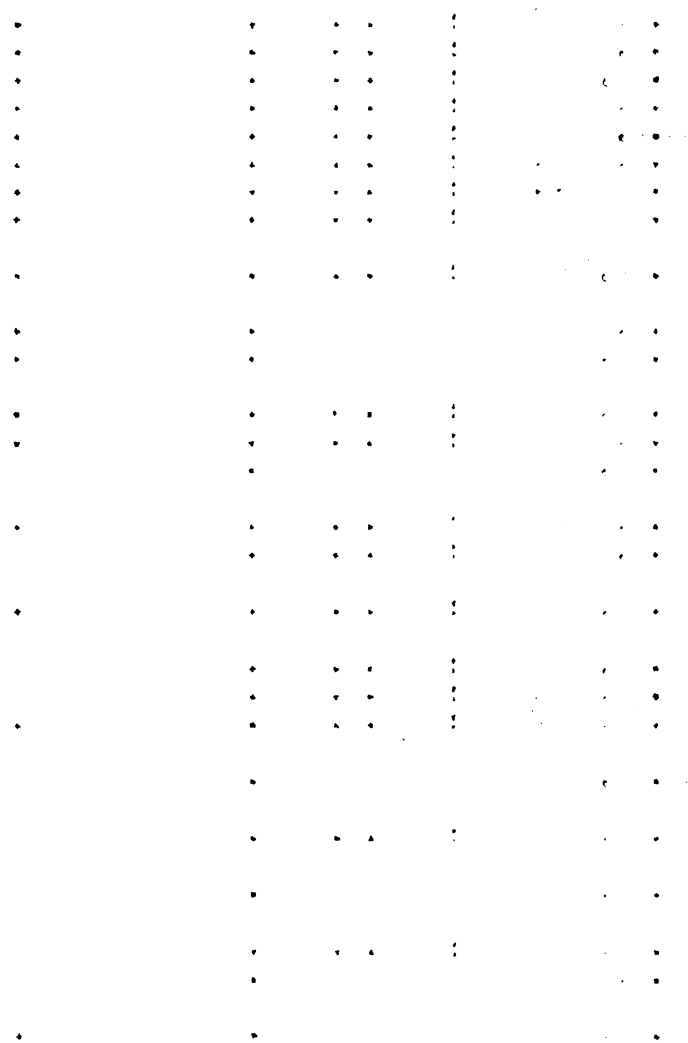


TABLE XIX

Eastern Robin

Turdus migratorius migratorius

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
107860	Apr.23,1932	4:00 P.M.	71.8	111.7
107861	Apr.14,1932	9:00 A.M.	79.6	109.0
516745	May 7, 1932	10:00 A.M.	72.4	109.7
516740	May 7, 1932	4:00 P.M.	75.2	110.6
a357755	May 26,1932	4:00 P.M.	56.5	108.7 juvenile
a256720	May 12,1932			105.1 juvenile
a256721	May 12,1932			105.8 juvenile
a256722	May 12,1932			103.9 juvenile
a256723	May 12,1932			103.4 juvenile
a357756	Sept28,1932	10:00 A.M.	78.8	110.5
a410286	Sept28,1932	4:15 P.M.	74.5	109.4
a410287	Oct.3, 1932	11:00 A.M.	75.4	109.7
a410288	Oct.3, 1932		78.8	110.3
328279	Oct.3, 1932		70.1	109.3
a410290	Oct.3, 1932		80.9	109.2
a410291	Oct.3, 1932		72.4	110.5
a410292	Oct.3, 1932		72.7	108.9
a410293	Oct.6, 1932		85.8	110.1
a410294	Oct.6, 1932		82.6	111.4
40599	Apr.5, 1933	5:00 P.M.	71.6	109.2
40600	Apr.7, 1933	8:00 A.M.	68.8	107.6
328307	Apr.17,1933		74.4	
328311	Apr.24,1933	3:00 P.M.	72.6	109.4

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
107909	May 10, 1933	8:00 A.M.	62.3	
391331	Apr. 10, 1933		68.7	110.4
40701	Apr. 10, 1933		69.9	112.3
391374	Apr. 10, 1933		63.1	107.4
391375	Apr. 10, 1933		74.5	109.1
	Apr. 13, 1933	8:00 A.M.	68.1	
391376	Apr. 10, 1933		72.4	110.0
391377	Apr. 10, 1933		71.0	109.4
391378	Apr. 10, 1933		73.9	108.0
	Apr. 14, 1933	1:45 P.M.	66.5	107.2
328263	Apr. 11, 1933		74.0	106.8
391380	Apr. 11, 1933	2:00 P.M.	75.0	
	May 8, 1933	2:00 P.M.	76.3	
391381	Apr. 12, 1933	10:00 A.M.	68.5	109.3
391382	Apr. 12, 1933	3:15 P.M.	80.9	108.6
391383	Apr. 12, 1933	3:30 P.M.	75.5	107.6
	May 26, 1933	8:15 A.M.	65.7	
391387	Apr. 15, 1933	8:45 A.M.	68.1	108.0
391390	Apr. 17, 1933	3:00 P.M.	86.5	111.5
484798	Apr. 19, 1933	10:00 A.M.	68.4	105.2
484799	Apr. 18, 1933	4:30 P.M.		110.8
484800	Apr. 19, 1933	10:30 A.M.	78.0	110.0
484803	Apr. 20, 1933	9:30 A.M.	69.3	108.3
484808	Apr. 21, 1933	9:30 A.M.	69.9	110.5
484809	Apr. 24, 1933	7:30 A.M.	67.6	107.8
484810	Apr. 24, 1933	8:15 A.M.	73.2	109.0
484813	Apr. 25, 1933	11:30 A.M.	73.8	111.2
484816	Apr. 25, 1933	3:15 P.M.	85.5	110.5
484812	Apr. 25, 1933		69.1	108.7
484817	Apr. 28, 1933	7:30 A.M.	78.4	109.0

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<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
626802	May 4, 1933	8:30 A.M.	75.7	111.2
626807	May 8, 1933	2:00 P.M.	77.1	108.9
626810	May 9, 1933	1:30 P.M.	74.5	
626814	May 10, 1933	8:30 A.M.	70.3	
626815	May 11, 1933	12:30 P.M.	72.6	108.0
626832	May 18, 1933	8:45 A.M.	69.4	108.1
626833	May 18, 1933	11:30 A.M.	71.5	108.2
626840	May 24, 1933		84.1	108.7
626841	May 25, 1933	4:30 P.M.	90.6	115.8
626842	May 26, 1933	8:15 A.M.	67.0	
626843	May 27, 1933		71.5	
40736	May 31, 1933	10:30 A.M.	63.7	juvenile

TABLE XX

Mourning Dove

Zenaidura macroura carolinensis

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a406513	Feb. 7, 1932		115.5	107.2
528654	Feb. 9, 1932		144.8	107.0
a406514	Feb. 16, 1932	5:15 P.M.	136.0	107.2
a406515	Mar. 9, 1932	5:10 P.M.	118.4	106.9
a406614	May 11, 1932	4:00 P.M.	134.1	109.2
a406619	May 23, 1932	9:00 A.M.	137.0	108.7
	May 24, 1932	9:00 A.M.	135.4	109.7
a418477	May 26, 1932	4:00 P.M.	145.1	105.6
	May 31, 1932	4:00 P.M.	145.7	107.1
a406457	May 29, 1932	5:00 P.M.	146.2	108.2
a406624	May 30, 1932	6:00 P.M.	146.9	109.0
a406625	May 31, 1932	9:00 A.M.	145.5	105.3
a406626	May 31, 1932	4:00 P.M.	137.3	109.3
a406627	June 1, 1932	4:00 P.M.	146.6	109.5
528638	June 3, 1932	4:00 P.M.	128.0	107.8
a406628	June 4, 1932	11:00 A.M.	135.6	108.9
649001	Sept 30, 1932	10:00 A.M.	111.9	107.1
507197	Apr. 10, 1933	11:00 A.M.	107.6	106.2
527265	Apr. 11, 1933	8:00 A.M.	123.7	106.0
527444	May 18, 1933	4:00 P.M.	123.0	107.8
527448	May 27, 1933	8:30 A.M.	129.3	
527449	May 24, 1933	8:15 A.M.	130.2	
527452	May 27, 1933	8:50 A.M.	103.6	

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TABLE XXI

Eastern Cardinal

Richmondia cardinalis cardinalis

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a256776	Nov. 16, 1931	9:30 A.M.	41.0	108.9
♀ 391367	Feb. 2, 1932	10:45 A.M.	47.3	110.5
♀ + a256777	May 17, 1932	9:00 A.M.	44.0	109.9
♂ 391342	Feb. 3, 1932	10:45 A.M.	51.9	110.0
♂ a260471	Mar. 9, 1932	5:05 P.M.	53.2	108.5
♂ a260471	Apr. 9, 1932	10:00 A.M.	40.5	110.3
♂ a390453	May 18, 1932	4:00 P.M.	41.3	110.0
a390453	Apr. 28, 1932	4:00 P.M.	43.9	110.2
a256815	May 17, 1932	9:00 A.M.	46.3	109.4
♀ + a256815	May 17, 1932	4:00 P.M.	46.2	109.5
♀ + a256815	May 18, 1932	9:00 A.M.	43.2	109.7
a256817	May 18, 1932	4:00 P.M.	43.0	112.0
a256965	Nov. 16, 1932	10:00 A.M.	37.8	
♀ + a256965	Nov. 16, 1932	5:00 P.M.	38.7	
♂ a256966	Dec. 12, 1932	10:00 A.M.	42.9	
♂ a256967	Dec. 12, 1932	10:00 A.M.	51.1	
328284	Oct. 10, 1932	3:00 P.M.	44.5	109.1
a182016	Oct. 13, 1932		40.3	
♀ + a182016	Feb. 7, 1933	12:00 P.M.	45.7	110.1
328290	Oct. 19, 1932	5:00 P.M.	43.4	
♂ 328293	Nov. 1, 1932		40.0	109.7
♂ 604687	Feb. 7, 1933	12:00 P.M.	48.4	111.3
♂ a256969	Feb. 7, 1933	12:00 P.M.	49.8	111.1
♀ a256970	Feb. 7, 1933	5:00 P.M.	49.7	
♀ a256971	Feb. 7, 1933	5:00 P.M.	47.8	
♂ a256971	Feb. 8, 1933	5:00 P.M.	48.2	109.9

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
a256972 ♂	Feb. 7, 1933	5:00 P.M.	50.2	
a256973) a410257) ♂	Mar. 20, 1933	12:00 P.M.	39.3	
107884) 328308) ♂	Apr. 19, 1933	8:00 A.M.	34.6	106.0
484801) 507202) ♀	Apr. 19, 1933	11:15 A.M.	38.9	108.6

TABLE XXII

Eastern Chipping Sparrow
Spizella passerina passerina

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78175	Apr. 18, 1932	4:00 P.M.	19.7	110.0
f78180	Apr. 19, 1932	4:00 P.M.	12.9	110.3
f78188	Apr. 25, 1932	9:00 A.M.	12.8	106.8
f78196	Apr. 29, 1932	4:00 P.M.	12.6	108.7
	Apr. 30, 1932	9:00 A.M.	12.2	110.2
	Apr. 30, 1932	4:00 P.M.	11.9	109.0
	May 9, 1932	4:00 P.M.	13.6	109.9
	May 10, 1932	9:00 A.M.	13.3	109.6
	May 12, 1932	9:00 A.M.	13.2	110.6
	May 12, 1932	4:00 P.M.	13.5	110.6
f78199	Apr. 30, 1932	4:00 P.M.	12.6	110.3
	May 16, 1932	4:00 P.M.	13.9	110.4
	May 19, 1932	9:00 A.M.	11.7	109.2
f78204	May 3, 1932	4:00 P.M.	13.9	109.0
478209	May 6, 1932	4:00 P.M.	19.1	110.1
a92175	May 9, 1932	4:00 P.M.	12.0	110.7
	May 17, 1932	9:00 A.M.	11.7	109.0
f78220	May 16, 1932	4:00 P.M.	11.9	109.7
f78221	May 17, 1932	9:00 A.M.	11.8	108.3
f78223	May 17, 1932	4:00 P.M.	12.5	108.8
	May 18, 1932	9:00 A.M.	11.6	110.0
	May 19, 1932	9:00 A.M.	11.4	109.6
	May 19, 1932	4:00 P.M.	11.8	110.0
	May 23, 1932	9:00 A.M.	12.3	109.2
	May 23, 1932	4:00 P.M.	12.0	111.0
f78227	May 25, 1932	4:00 P.M.	13.0	109.7
f78229	May 23, 1932	4:00 P.M.	12.3	110.8
f78230	May 30, 1932	6:00 P.M.	12.1	109.0
c30317	Sept 29, 1932	3:00 P.M.	11.9	109.9
c30353	Oct. 7, 1932	4:30 P.M.	11.3	

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
c58229	Apr. 28, 1933	8:15 A.M.	11.7	
c58269	May 5, 1933	8:00 A.M.	10.3	
c38050	Apr. 27, 1933	11:30 A.M.	12.2	

TABLE XXIII

Eastern Hermit Thrush
Hylocichla guttata faxoni

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30974	Mar. 30, 1932	4:15 P.M.	30.0	109.0
c30982	Apr. 5, 1932	5:30 P.M.	31.6	109.0
a173646	May 2, 1932	4:00 P.M.	35.3	109.8
a256962	Oct. 12, 1932	3:00 P.M.	28.5	
a134775	Sept 29, 1932	7:00 A.M.	25.0	104.3
f78239	Sept 29, 1932	7:00 A.M.	26.0	106.6
a134780	Oct. 11, 1932		27.4	
	Oct. 21, 1932		32.6	
a134796	Oct. 5, 1932		26.6	109.1
328280	Oct. 6, 1932	11:00 A.M.	23.8	107.2
328281	Oct. 6, 1932		29.5	108.7
a134817	Oct. 11, 1932			110.2
a134818	Oct. 11, 1932		27.5	110.1
a134819	Oct. 11, 1932		28.2	108.7
	Oct. 12, 1932		29.4	
a182001	Oct. 11, 1932		30.0	109.2
a182010	Oct. 12, 1932	8:00 A.M.	25.4	
a182012	Oct. 12, 1932		30.0	
a182019	Oct. 13, 1932		25.6	
a182037	Oct. 14, 1932	7:00 A.M.	27.2	
a182038	Oct. 14, 1932		27.1	
a182039	Oct. 14, 1932		24.6	
a182058	Oct. 17, 1932		26.1	
a182059	Oct. 17, 1932		30.6	

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
a182145	Oct. 18, 1932	10:00 A.M.	33.5	
a182146	Oct. 18, 1932		31.3	
a182066	Oct. 19, 1932		29.7	109.6
a182069	Oct. 21, 1932		32.0	
a182070	Oct. 21, 1932		30.8	
a182120	Oct. 31, 1932		29.5	110.5
c30366	Apr. 10, 1933		34.5	109.1
c30367	Apr. 10, 1933		30.9	110.0
c30368	Apr. 10, 1933		31.5	109.5
c30376	Apr. 11, 1933		27.7	109.3
65911	Apr. 13, 1933	3:30 P.M.	31.0	109.0
516719	Apr. 28, 1933	7:15 A.M.	26.6	110.0
65915	Apr. 28, 1933	7:30 A.M.	27.7	109.0
65916	Apr. 28, 1933	7:30 A.M.	25.5 25.3	107.3 110.4
516720	Apr. 28, 1933	11:30 A.M.	29.1	110.4
516722	Apr. 28, 1933	11:30 A.M.	30.5	110.9
516724	Apr. 28, 1933	3:15 P.M.	30.1	
516725	Apr. 28, 1933 Apr. 29, 1933	4:15 P.M.	29.7 28.2	109.4 110.8
516777	May 1, 1933	1:00 P.M.	30.8	110.8
c58303	May 1, 1933	4:30 P.M.	29.5	
516787	May 3, 1933 May 4, 1933	10:15 A.M. 8:15 A.M.	30.1 27.8	111.0 110.4
516790	May 5, 1933	11:30 A.M.	29.7	
40604	Apr. 15, 1933		30.6	109.3

<u>Band No.</u>	<u>Date</u>	<u>Time</u>	<u>Weight</u>	<u>Temperature</u>
a182145	Oct. 18, 1932	10:00 A.M.	33.5	
a182146	Oct. 18, 1932		31.3	
a182066	Oct. 19, 1932		29.7	109.6
a182069	Oct. 21, 1932		32.0	
a182070	Oct. 21, 1932		30.8	
a182120	Oct. 31, 1932		29.5	110.5
c30366	Apr. 10, 1933		34.5	109.1
c30367	Apr. 10, 1933		30.9	110.0
c30368	Apr. 10, 1933		31.5	109.5
c30376	Apr. 11, 1933		27.7	109.3
65911	Apr. 13, 1933	3:30 P.M.	31.0	109.0
516719	Apr. 28, 1933	7:15 A.M.	26.6	110.0
65915	Apr. 28, 1933	7:30 A.M.	27.7	109.0
65916	Apr. 28, 1933	7:30 A.M.	25.5 25.3	107.3 110.4
516720	Apr. 28, 1933	11:30 A.M.	29.1	110.4
516722	Apr. 28, 1933	11:30 A.M.	30.5	110.9
516724	Apr. 28, 1933	3:15 P.M.	30.1	
516725	Apr. 28, 1933 Apr. 29, 1933	4:15 P.M.	29.7 28.2	109.4 110.8
516777	May 1, 1933	1:00 P.M.	30.8	110.8
c58303	May 1, 1933	4:30 P.M.	29.5	
516787	May 3, 1933 May 4, 1933	10:15 A.M. 8:15 A.M.	30.1 27.8	111.0 110.4
516790	May 5, 1933	11:30 A.M.	29.7	
40604	Apr. 15, 1933		30.6	109.3

TABLE XXIV

Eastern Tree Sparrow
Spizella arborea arborea

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees E.)
604645	Oct. 28, 1932	3:00 P.M.	18.5	110.0
f78445	Nov. 2, 1932	10:00 A.M.	15.8	111.5
a182075	Oct. 21, 1932		15.4	

TABLE XXV

Ovenbird

Seiurus aurocapillus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
516751	May 8, 1932	9:00 A.M.	22.7	107.5
c30179	May 9, 1932	4:00 P.M.	20.1	108.4
c58312	May 3, 1933	10:30 A.M.	16.8	
c58328	May 10, 1933	3:30 P.M.	18.0	
	May 12, 1933	11:15 A.M.	18.6	
c58341	May 16, 1933	8:15 A.M.	17.0	109.7

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TABLE XXVI

Eastern Bob-white

Colinus virginianus virginianus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
649003 ♂	Jan. 26, 1933	1:15 P.M.	199.2	107.3
649004 ♂	Jan. 26, 1933	1:15 P.M.	199.0	107.9
	Feb. 21, 1933	12:00 P.M.	180.2	
649005 ♀	Jan. 26, 1933	1:15 P.M.	177.1	107.5
	Feb. 15, 1933	12:00 P.M.	170.2	108.4
	Feb. 20, 1933	5:00 P.M.	175.9	107.3
649006 ♀	Jan. 26, 1933	1:15 P.M.	191.9	108.2
	Feb. 14, 1933	12:00 P.M.	185.4	107.1
	Feb. 15, 1933	12:00 P.M.	166.8	110.1
	Feb. 20, 1933	5:00 P.M.	187.0	106.8
	Feb. 22, 1933	12:00 P.M.	173.9	106.7
649007 ♂	Jan. 26, 1933	1:15 P.M.	192.4	108.5
649008 ♂	Jan. 26, 1933	1:15 P.M.	206.5	107.7

TABLE XXVII

Brown Creeper

Certhia familiaris americana

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78267	Oct. 13, 1932		8.0	
c30400	Apr. 19, 1933	1:15 P.M.	8.8	

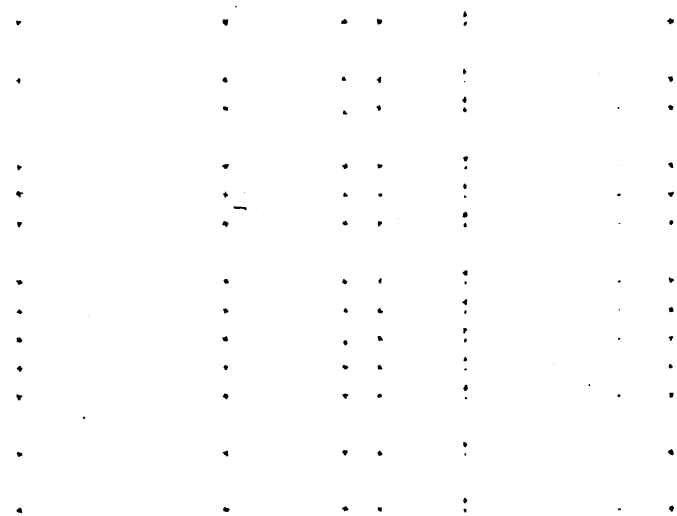


TABLE XXVIII

Magnolia Warbler
Dendroica magnolia

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30763	Oct. 8, 1931	1:30 P.M.	11.7	109.7
c30847	Oct. 12, 1931	6:10 P.M.	11.3	108.4
h90013 σ	May 19, 1933	3:45 P.M.	9.0	

TABLE XXIX

Red-breasted Nuthatch
Sitta canadensis

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30748	Oct. 7, 1931	1:20 P.M.	8.7	103.7

TABLE XXX

Gambel's Sparrow
Zonotrichia leucophrys gambeli

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
al73693	May 7, 1932	10:00 A.M.	27.1	109.5

TABLE XXXI

Swamp Sparrow

Melospiza georgiana

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78279	Oct. 25, 1932		17.4	111.5
b90431	Apr. 7, 1933	3:00 P.M.	16.4	108.9

TABLE XXXII

Eastern House Wren

Troglodytes aedon aedon

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78213	May 7, 1932	10:00 A.M.	9.3	
h90021	May 26, 1933		10.2	

TABLE XXXIII

Blue-headed Vireo

Vireo solitarius solitarius

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a182051	Oct. 14, 1932		14.4	

TABLE XXXIV

Eastern Hairy Woodpecker
Dryobates villosus villosus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a410289 ♀	Oct. 6, 1932		62.1	106.6

TABLE XXXV

Catbird

Dumetella carolinensis

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a256809	May 5, 1932	9:00 A.M.	38.0	109.7
a173530	May 9, 1933	1:30 P.M.	33.6	
328314	May 9, 1933	1:30 P.M.	34.0	
328315	May 12, 1933		31.2	
626836	May 22, 1933	8:30 A.M.	32.2	107.8
484825	May 2, 1933	1:30 P.M.	36.3	108.3
516789	May 5, 1933	11:30 A.M.	35.4	109.4
626806	May 8, 1933	1:35 P.M.	38.5	110.0
516791	May 8, 1933	1:35 P.M.	39.0	109.0
626826	May 16, 1933	3:15 P.M.	32.8	108.8

TABLE XXXVI
Tufted Titmouse
Baeolophus bicolor

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a182156	Nov. 3, 1932	11:00 A.M.	19.3	108.1
	Feb. 7, 1933	5:00 P.M.	19.8	108.4
a182162	Nov. 7, 1932	11:00 A.M.	22.4	
	Feb. 7, 1933	5:00 P.M.	23.4	108.0
a182163	Nov. 7, 1932		21.0	
604688	Feb. 13, 1933	5:00 P.M.	23.9	108.3

TABLE XXXVII
Eastern Goldfinch
Spinus tristis tristis

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78293 ♂	Oct. 28, 1932		13.1	
f78294 ♀	Oct. 28, 1932		13.5	
f78295 ♀	Nov. 1, 1932	8:00 A.M.	11.4	
f78353 ♀	Nov. 2, 1932		11.6	
c38015 ♂	Apr. 21, 1933	11:30 A.M.	13.8	
c38016 ♀	Apr. 21, 1933	12:00 P.M.	12.9	
c38017 ♀	Apr. 21, 1933	12:00 P.M.	11.8	
c38018 ♂	Apr. 21, 1933	12:00 P.M.	12.9	
c38034 ♂	Apr. 24, 1933	3:45 P.M.	14.0	

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c38046 ♂	Apr. 26, 1933	4:30 P.M.	14.0	
h90016 ♂	May 23, 1933	11:30 A.M.	11.7	

TABLE XXXVIII

Eastern Ruby-crowned Kinglet

Corthylio calendula calendula

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78286	Oct. 12, 1932		6.6	
f78332	Oct. 18, 1932		6.2	
f78343	Oct. 21, 1932		6.6	
f78276 ♂	Oct. 24, 1932		6.5	
c38045 ♀	Apr. 26, 1933	4:30 P.M.	6.1	

TABLE XXXIX

Yellow-bellied Sapsucker

Sphyrapicus varius varius

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
328282 ♀	Oct. 6, 1932		49.1	109.3
484802 ♀	Apr. 20, 1933	7:00 A.M.	44.2	107.6

TABLE XL
Red-headed Woodpecker
Melanerpes erythrocephalus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a256807	May 4, 1932	4:00 P.M.	73.2	108.9
a256823	June 2, 1932	9:00 A.M.	88.0	108.4
a219201	May 11, 1933	1:30 P.M.	78.0	107.0
a219202 ♂	May 11, 1933	4:00 P.M.	86.4	
581129 ♀	May 3, 1933	3:30 P.M.	70.5	109.2
	May 6, 1933		71.0	

TABLE XLI
Cedar Waxwing
Bombycilla cedrorum

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a182157	Nov. 3, 1932	4:00 P.M.	36.8	
a182160 ♂	Nov. 4, 1932		34.6	
a182161 ♀	Nov. 4, 1932		35.6	

TABLE XLII

Red-eyed Towhee

Pipilo erythrophthalmus erythrophthalmus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
2173548	Apr. 25, 1932	4:00 P.M.	41.1	
	Apr. 30, 1932	4:00 P.M.	37.3	110.9
	May 2, 1932	4:00 P.M.	37.0	111.7
a257803	Apr. 26, 1932	4:00 P.M.	45.1	110.0
a256963 ♀	Oct. 13, 1932	10:00 A.M.	37.4	
328288	Oct. 13, 1932	2:00 P.M.	42.1	
328291	Oct. 20, 1932	7:00 A.M.	43.4	
328292 ♂	Oct. 27, 1932			110.0
a182127 ♀	Nov. 1, 1932		35.2	109.0

TABLE XLIII

Eastern Golden-crowned Kinglet

Regulus satrapa satrapa

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78335	Oct. 19, 1932		6.0	
f78337 ♀	Oct. 19, 1932		6.8	
f78345 ♂	Oct. 21, 1932		6.3	
f78277 ♀	Oct. 24, 1932		6.0	
f78285 ♂	Oct. 25, 1932		6.8	
f78286 ♂	Oct. 25, 1932		6.8	
f78287 ♂	Oct. 26, 1932	5:30 P.M.	6.9	
c30383 ♂	Apr. 14, 1933	4:00 P.M.	6.5	
c38003	Apr. 19, 1933	1:30 P.M.	6.2	

TABLE XLIV

Lincoln's Sparrow

Melospiza lincolni lincolni

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
f78212	May 7, 1932	10:00 A.M.	19.3	
f78215	May 7, 1932	4:00 P.M.	19.7	110.1
f78216	May 8, 1932	9:00 A.M.	18.8	104.5
a182077	Oct. 21, 1932		16.0	
c58562	May 11, 1933	1:30 P.M.	20.1	109.8
c58568	May 12, 1933	8:00 A.M.	15.2	
h90001	May 8, 1933	1:35 P.M.	19.7	108.8
c58327	May 9, 1933	3:30 P.M.	18.8	
	May 10, 1933	8:15 A.M.	16.6	

TABLE XLV

Brown Thrasher

Toxostoma rufum

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a357740	Apr. 30, 1932	4:00 P.M.	72.4	109.3
a357741	May 1, 1932	9:00 A.M.	69.3	109.3
a357743	May 4, 1932	4:00 P.M.	66.0	
a357744	May 4, 1932	4:00 P.M.	71.6	
a357746	May 6, 1932	4:00 P.M.	73.2	109.6
a357747	May 6, 1932	4:00 P.M.	69.0	111.1
a357748	May 6, 1932	4:00 P.M.	65.1	109.5

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
328260	May 8, 1932	4:00 P.M.	62.7	109.5
a357757	Sept 28, 1932	3:00 P.M.	82.3	111.2
107898	May 1, 1933	11:00 A.M.	66.1	109.0
	May 2, 1933	8:15 A.M.	59.5	
328313	May 5, 1933	8:00 A.M.	69.3	110.5
a219203	May 12, 1933	11:00 A.M.	74.2	
484818	Apr. 28, 1933	2:00 P.M.	74.0	110.5
484821	May 1, 1933	11:00 A.M.	74.8	108.2
484822	May 1, 1933	1:15 P.M.	73.0	111.3
581124	May 2, 1933	1:30 P.M.	78.2	108.2
	May 3, 1933	4:30 P.M.	79.7	109.1
	May 4, 1933	11:30 A.M.	74.6	109.0
	May 5, 1933		74.1	107.9

TABLE XLVI

Eastern Fox Sparrow

Passerella iliaca iliaca

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
a173535	Apr. 17, 1932	5:00 P.M.	45.5	110.4
a173539	Apr. 19, 1932	4:00 P.M.	40.2	109.7
a173540	Apr. 20, 1932	9:00 A.M.	40.0	108.8
40601	Apr. 8, 1933	8:00 A.M.	41.2	107.8
c30369	Apr. 10, 1933		30.4	109.0

TABLE XLVII

Northern Downy Woodpecker
Dryobates pubescens medianus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
40532 ♂	Nov. 10, 1931		27.2	106.9
a256778 ♀	Apr. 1, 1931	5:00 P.M.	28.9	107.5
	Apr. 5, 1931	5:30 P.M.	29.1	111.2
a256779	Apr. 6, 1931	5:00 P.M.	26.8	107.6
328285	Oct. 11, 1932		26.3	
a122164 ♀	Nov. 7, 1932		26.2	

TABLE XLVIII

Olive-backed Thrush
Hylocichla ustulata swainsoni

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
o33691	May 20, 1932	4:00 P.M.	37.8	109.8
328276	Sept. 28, 1932	4:20 P.M.	31.5	109.7
a134790	Oct. 4, 1932		27.7	110.5
a134805	Oct. 7, 1932		24.6	108.5
516783	May 2, 1933	9:30 A.M.	24.7	
516785	May 2, 1933	1:30 P.M.	31.3	110.6
516786	May 2, 1933	1:30 P.M.	25.0	110.2
516799	May 10, 1933	1:15 P.M.	36.2	
o58332	May 12, 1933	8:15 A.M.	25.9	
40709	May 16, 1933	8:30 A.M.	28.8	110.1
40717	May 18, 1933	8:30 A.M.	33.5	110.6

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
40718	May 18, 1933	8:30 A.M.	32.8	108.9
40719	May 18, 1933	9:00 A.M.	36.4	108.7
40720	May 18, 1933	9:15 A.M.	33.8	109.8
40722	May 18, 1933	11:15 A.M.	38.7	108.6
40723	May 18, 1933	1:30 P.M.	30.4	108.0
40724	May 19, 1933	8:15 A.M.	33.8	110.3
c58346	May 19, 1933	1:00 P.M.	34.5	107.9
40732	May 25, 1933	8:15 A.M.	27.6	112.1
40730	May 26, 1933	8:30 A.M.	32.8	
40733	May 26, 1933	9:30 A.M.	31.1	111.3
40734	May 26, 1933	9:30 A.M.	36.7	111.1
40735	May 26, 1933		39.4	

TABLE XLIX

Virginia Rail

Rallus limicola limicola

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
527317	May 2, 1933	7:15 A.M.	69.9	

TABLE L

Eastern Field Sparrow

Spizella pusilla pusilla

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c58218	Apr. 25, 1933	8:00 A.M.	12.1	

TABLE LI

Rose-breasted Grosbeak

Hedymeles ludovicianus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
40614 ♀	May 3, 1933	2:00 P.M.	45.7	108.1
40707 ♀	May 13, 1933	8:45 A.M.	43.9	

TABLE LII

White-eyed Vireo

Vireo griseus griseus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c58310	May 2, 1933	3:45 P.M.	11.3	

TABLE LIII

Northern Flicker

Colaptes auratus luteus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
507208 ♀	May 5, 1933	8:30 A.M.	137.6	104.6

TABLE LIV
Baltimore Oriole
Icterus galbula

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
626819	May 13, 1933	11:45 A.M.	38.1	
♀ 626825	May 15, 1933	1:30 P.M.	33.0	108.6
♂ 626831	May 18, 1933	8:50 A.M.	30.8	103.4
♂ 40725	May 19, 1933	8:30 A.M.	28.9	109.4
♀				

TABLE LV
Wood Thrush
Hylocichla mustelina

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
516797	May 10, 1933	8:30 A.M.	47.7	

TABLE LVI
Canada Warbler
Wilsonia canadensis

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
h90009	May 19, 1933	8:30 A.M.	8.8	
h90022	May 31, 1933	1:30 P.M.	10.1	

TABLE LVII
Mourning Warbler
Oporornis philadelphia

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
h90011 ♂	May 19, 1933	8:00 A.M.	10.3	
h90012 ♂	May 19, 1933	8:00 A.M.	11.7	
	May 22, 1933	8:30 A.M.	11.4	
	May 26, 1933	9:30 A.M.	12.0	
h90015 ♂	May 20, 1933	9:00 A.M.	10.9	

TABLE LVIII
Alder Flycatcher
Empidonax traillii traillii

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
h90017	May 22, 1933	11:45	8.8	

TABLE LIX
Chestnut-sided Warbler
Dendroica pensylvanica

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
h90010 ♂	May 19, 1933	8:45 A.M.	8.3	

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TABLE LX

Yellow-bellied Flycatcher

Empidonax flaviventris

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
h90018	May 23, 1933	12:00 P.M.	12.0	
h90020	May 26, 1933	8:30 A.M.	11.8	

TABLE LXI

Eastern Wood Pewee

Myiochanes virens

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
h90023	June 1, 1933	1:30 P.M.	13.1	

TABLE LXII

Black and White Warbler

Mniotilta varia

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c58305	May 2, 1933	8:30 A.M.	9.5	
c58314	May 4, 1933	9:30 A.M.	9.9	

TABLE LXIII
American Redstart
Setophaga ruticilla

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
h90008	May 18, 1933	8:40 A.M.	7.0	
♀ h90019	May 25, 1933	1:30 P.M.	7.9	
♂				

TABLE LXIV
Eastern Phoebe
Sayornis phoebe

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30379	Apr. 13, 1933	10:15 A.M.	16.9	107.8

TABLE LXV
Northern Pine Siskin
Spinus pinus pinus

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
c30395	Apr. 18, 1933	4:30 P.M.	13.6	

TABLE LXVI
Veery
Hylocichla fuscescens fuscescens

Band No.	Date	Time	Weight (in grams)	Temperature (in degrees F.)
40704	May 12, 1933	1:30 P.M.	35.9	

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Nov 24 '35

Dec 9 '36

Nov 2 '37

Apr 10 '38

Apr 24 '39

Oct 16 '39

Nov 15 '39

Nov 29 '39

Dec 13 '39

Jan 4 '40

Feb 23 '40

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