

Report on the origin and spread of typhoid fever in the U. S. military camps during the Spanish War of 1898 / by Walter Reed, Victor C. Vaughan, and Edward O. Shakespeare.

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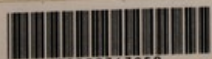
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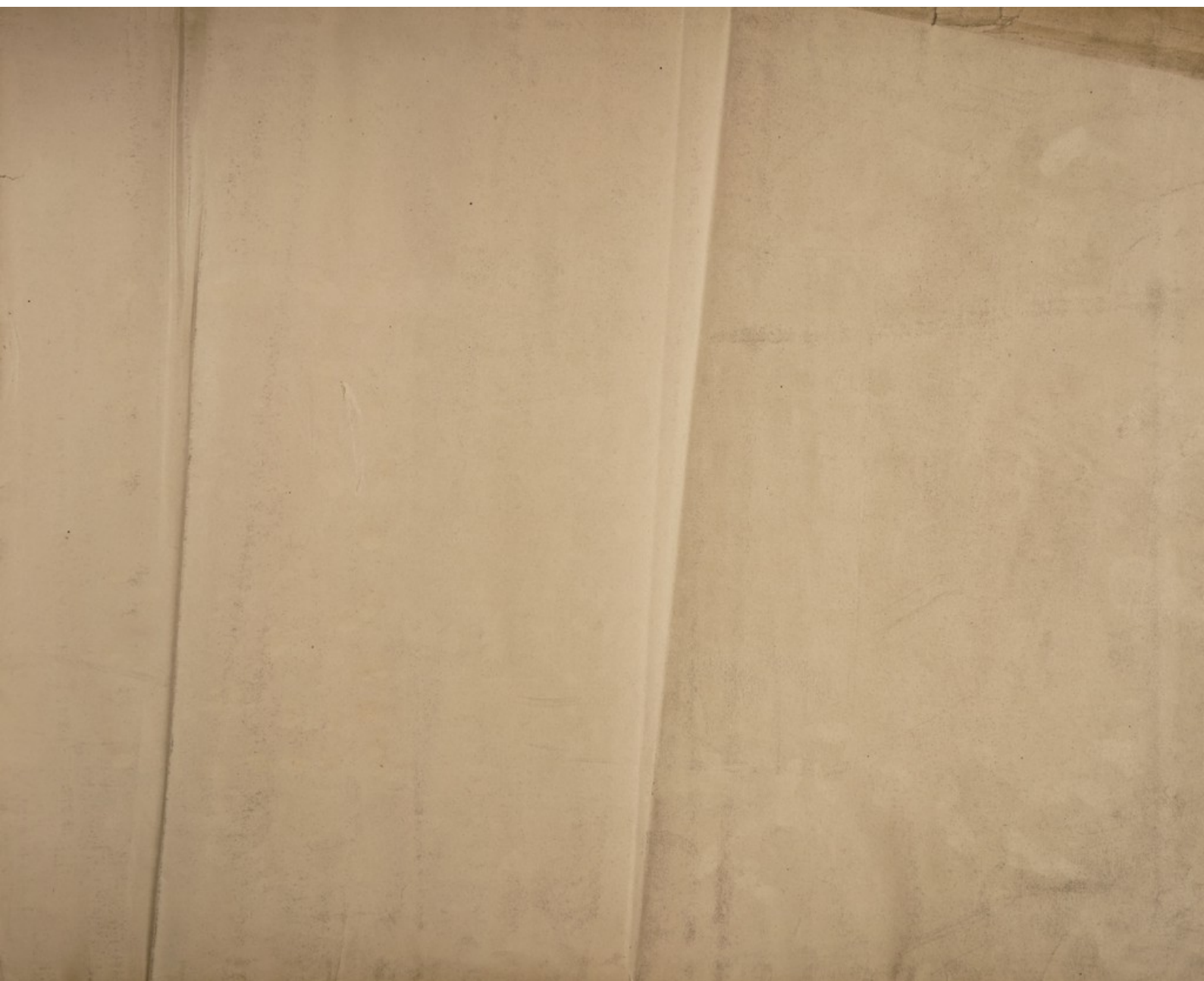
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REPORT
ON THE
ORIGIN AND SPREAD
OF
TYPHOID FEVER
IN
U. S. MILITARY CAMPS
DURING THE
SPANISH WAR OF 1898
—
VOL. 2
MAPS AND CHARTS
—
1904



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REPORT

ON THE SPREAD OF LYMPHIC PLATELLETIC LEUKAEMIA
DURING THE SPANISH WAR

BY

JOHN H. B. M. M. D.

OF THE UNIVERSITY OF CHICAGO

AND

OF THE UNIVERSITY OF MICHIGAN

AND

OF THE UNIVERSITY OF CALIFORNIA

AND

OF THE UNIVERSITY OF TEXAS

AND

OF THE UNIVERSITY OF ILLINOIS

AND

OF THE UNIVERSITY OF WISCONSIN

AND

1918



REPORT

ON THE

ORIGIN AND SPREAD OF TYPHOID FEVER IN U. S. MILITARY CAMPS DURING THE SPANISH WAR OF 1898

BY

WALTER REED,
MAJOR AND SURGEON, U. S. ARMY,

VICTOR C. VAUGHAN,
MAJOR AND DIVISION SURGEON, U. S. VOLUNTEERS,

AND

EDWARD O. SHAKESPEARE,
MAJOR AND BRIGADE SURGEON, U. S. VOLUNTEERS.

Vol. II.
MAPS AND CHARTS.

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REPORT

ORIGIN AND SPREAD OF TYPHOID FEVER IN U. S. MILITARY CAMPS DURING THE SPANISH WAR OF 1898

WALTER REED
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Vol. II.
PART II. CHARTS

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INTRODUCTION.

The maps and charts in this volume are intended to show graphically what has been stated in words in volume 1. The map of Chickamauga Park gives the location and relative position of all the military organizations camped in the park in 1898. In case one regiment occupied more than one location, the two camps are given. The symbols show the corps or other organization to which each regiment belonged. The small circles indicate the location of wells and springs from which the samples of water examined by Doctor Slocum were taken. The location of the pumping station and the distribution of the pipes that carried Chickamauga River water through the camps are given.

The meteorological chart of Chattanooga, Tenn., shows the variations in meteorological conditions prevalent in Chickamauga Park during the period in which the regiments were encamped there.

The map of Camp Alger, Va., shows the two sites occupied by the organizations of the Second Army Corps. The camp covering the right portion of the map was that first occupied, while the smaller camp, lying to the left, shows the second location, occupied by certain regiments of the First Division of the Second Army Corps after the first camp had become badly infected and after other regiments had been moved. This map also shows the locations of both dug and artesian wells.

The meteorological chart for Washington, D. C., gives the meteorological conditions existing at Camp Alger during the period when the troops occupied this location.

The meteorological chart of Harrisburg, Pa., gives the conditions of weather prevalent at Camp Meade, a map of which is given, during the occupation of that place by the Second Army Corps.

Inasmuch as the development of typhoid fever and its extensive prevalence in the Fifteenth Minnesota Volunteer Infantry at its State camp is of great interest, we have introduced a meteorological chart of St. Paul. This regiment assembled at the fair grounds at St. Paul, where typhoid fever became alarmingly prevalent, after which it was first moved to Fort Snelling, and later to Camp Meade. The meteorological chart of St. Paul shows the weather conditions prevalent at both of the above-mentioned State encampments.

The meteorological chart of Tampa, Fla., and that of Jupiter, Fla., show the weather conditions prevalent in southern Florida during the period when the Fourth Army Corps and the First Division of the Seventh Army Corps were stationed at Tampa and Miami, respectively.

The sketch map of Camp Cuba Libre, Jacksonville, Fla., shows the locations of the divisions of the Seventh Army Corps. Attention may be called to the fact that the regiments of the First Division were encamped on the bank of the St. Johns River, into which fecal matter was carried by means of the flushing tanks described in the text. The Second Division was furnished with half-barrel receptacles for fecal matter, and these were carried away and dumped into a sewer, while the Third Division used ordinary latrines.

The meteorological charts of Jacksonville, Fla., and Savannah, Ga., show the weather conditions existing at these points during the summer and fall of 1898.

The object in charting the diseases prevalent in the different regiments is to show to the eye the distribution of these diseases, especially typhoid fever, not only in point of time, but also with reference to company outbreaks. A glance at almost any of these charts will emphasize more strongly than words can the fact which we have so frequently insisted upon in the text—that typhoid fever generally appeared as separate company outbreaks. This, it appears to us, is most convincing proof that the agent of infection, as a rule at least, was not present in either the food or drink supplied to the regiment. Typhoid fever must have been spread largely by personal contact, and by the contamination of tents, blankets, clothing, and the person of individuals. This has already been emphasized in the smaller maps introduced into the text, in which the tent distribution of the disease has been demonstrated. The relation between typhoid fever, diarrheal diseases, and the so-called malarias, both short and long, is graphically illustrated in many of the charts. We might have made charts of all the regiments studied, but we are of the opinion that we have presented sufficient evidence of the correctness of the conclusions which we have reached concerning the manner in which typhoid fever was distributed and the relation of this disease to other diseases prevalent in the different camps.

ILLUSTRATIONS.

1. Map of Chickamauga Park, Ga.
2. Meteorological chart of Chattanooga, Tenn.
3. Map of Camp Alger, Va.
4. Meteorological chart of Washington, D. C.
- 4½ Map of Camp George G. Meade, Pa.
5. Meteorological chart of Harrisburg, Pa.
6. Meteorological chart of St. Paul, Minn.
7. Meteorological chart of Block Island, R. I.
8. Meteorological chart of Tampa, Fla.
9. Meteorological chart of Jupiter, Fla.
10. Sketch map of Camp Cuba Libre, Jacksonville, Fla.
11. Meteorological chart of Jacksonville, Fla.
12. Meteorological chart of Savannah, Ga.

MORBIDITY CHARTS.

13. First Kentucky Volunteer Infantry.
14. Third Wisconsin Volunteer Infantry.
15. Fourth Ohio Volunteer Infantry.
16. Fourth Pennsylvania Volunteer Infantry.
17. Sixteenth Pennsylvania Volunteer Infantry.
18. Second Wisconsin Volunteer Infantry.
19. One hundred and fifty-eighth Volunteer Infantry.
20. Sixth Ohio Volunteer Infantry.
21. First West Virginia Volunteer Infantry.
22. First Pennsylvania Volunteer Infantry.
23. Fourteenth Minnesota Volunteer Infantry.
24. Second Ohio Volunteer Infantry.
25. Third North Carolina Volunteer Infantry.
26. Twelfth Minnesota Volunteer Infantry.
27. Eighth Massachusetts Volunteer Infantry.
28. Twenty-first Kansas Volunteer Infantry.
29. Twelfth New York Volunteer Infantry.
30. Second Missouri Volunteer Infantry.
31. First New Hampshire Volunteer Infantry.
32. First Missouri Volunteer Infantry.
33. Fifth Maryland Volunteer Infantry.
34. Second Nebraska Volunteer Infantry.
35. Second New York Volunteer Infantry.
36. Third Tennessee Volunteer Infantry.
37. First Vermont Volunteer Infantry.
38. Second Kentucky Volunteer Infantry.
39. Ninth New York Volunteer Infantry.
40. Fifth Missouri Volunteer Infantry.
41. Second Arkansas Volunteer Infantry.
42. Sixty-ninth New York Volunteer Infantry.
43. Fifty-second Iowa Volunteer Infantry.
44. First Mississippi Volunteer Infantry.
45. Third United States Volunteer Cavalry.
46. Sixty-fifth New York Volunteer Infantry.
47. Seventh Ohio Volunteer Infantry.
48. First New Jersey Volunteer Infantry.
49. Sixth Illinois Volunteer Infantry.
50. Sixth Massachusetts Volunteer Infantry.
51. Eighth Pennsylvania Volunteer Infantry.
52. Twelfth Pennsylvania Volunteer Infantry.
53. Thirteenth Pennsylvania Volunteer Infantry.
54. Third Virginia Volunteer Infantry.
55. First Connecticut Volunteer Infantry.
56. New York Volunteer Cavalry.
57. Twenty-second Kansas Volunteer Infantry.
58. One hundred and fifty-ninth Indiana Volunteer Infantry.
59. Third New York Volunteer Infantry.
60. Seventh Illinois Volunteer Infantry.
61. Sixth Pennsylvania Volunteer Infantry.
62. Fourth Missouri Volunteer Infantry.
63. Ninth Ohio Volunteer Infantry.
64. Third Missouri Volunteer Infantry.
65. First Rhode Island Volunteer Infantry.
66. Second Tennessee Volunteer Infantry.
67. First Maryland Volunteer Infantry.
68. Thirty-fifth Michigan Volunteer Infantry.
69. Tenth Ohio Volunteer Infantry.
70. Third Connecticut Volunteer Infantry.
71. Two hundred and second New York Volunteer Infantry.
72. Fifteenth Minnesota Volunteer Infantry.
73. Fourth New Jersey Volunteer Infantry.
74. Two hundred and third New York Volunteer Infantry.
75. Second West Virginia Volunteer Infantry.
76. Fifth Massachusetts Volunteer Infantry.
77. Two hundred and first New York Volunteer Infantry.
78. First Delaware Volunteer Infantry.
79. Second Pennsylvania Volunteer Infantry.
80. Second New Jersey Volunteer Infantry.
81. Second Illinois Volunteer Infantry.
82. First North Carolina Volunteer Infantry.
83. Fiftieth Iowa Volunteer Infantry.
84. Ninth Illinois Volunteer Infantry.
85. First Wisconsin Volunteer Infantry.
86. Second Virginia Volunteer Infantry.
87. Fourth Virginia Volunteer Infantry.
88. Forty-ninth Iowa Volunteer Infantry.
89. Second Mississippi Volunteer Infantry.
90. Fourth Illinois Volunteer Infantry.
91. First South Carolina Volunteer Infantry.
92. Second United States Volunteer Cavalry.
93. Third Nebraska Volunteer Infantry.
94. One hundred and sixty-first Indiana Volunteer Infantry.
95. Sixth Missouri Volunteer Infantry.
96. Second South Carolina Volunteer Infantry.



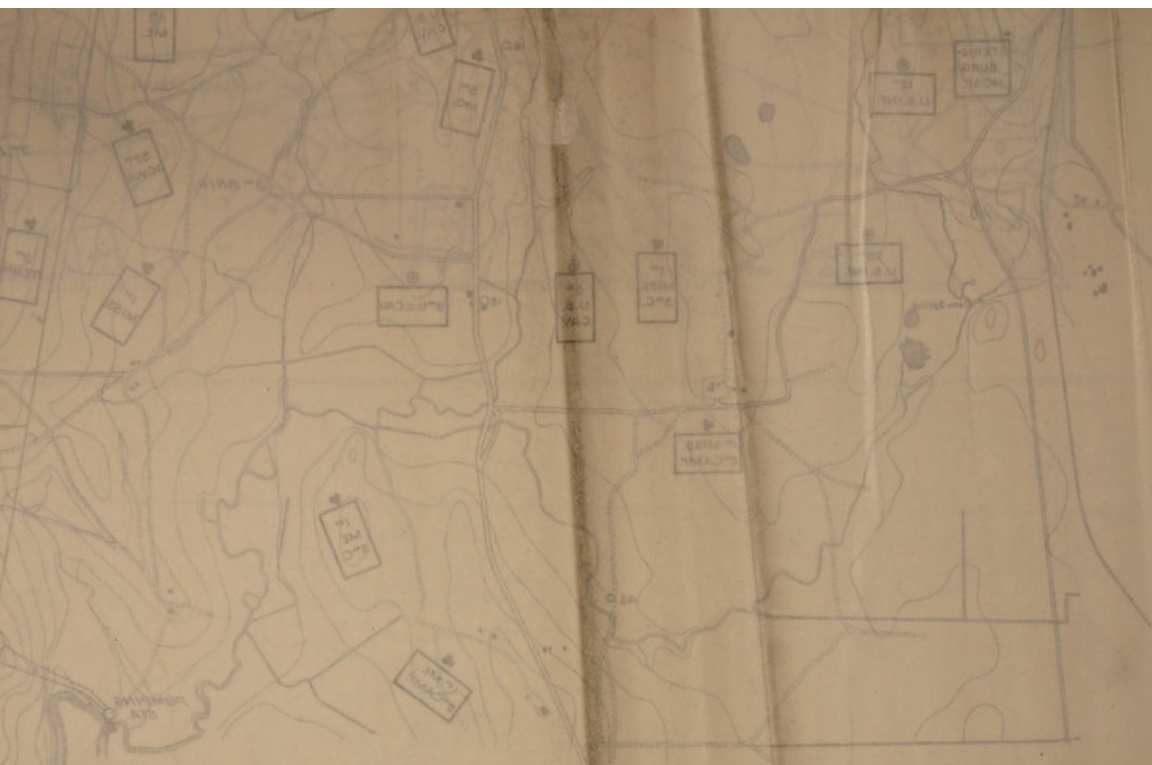
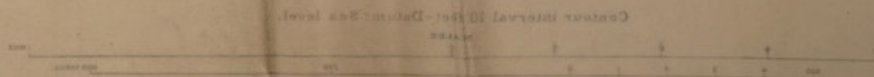


CHART No. 1
MAP OF
CHICKAMAUGA PARK
showing
CAMP "GEO. H. THOMAS"
occupied by
1ST and 3RD ARMY CORPS.
1898



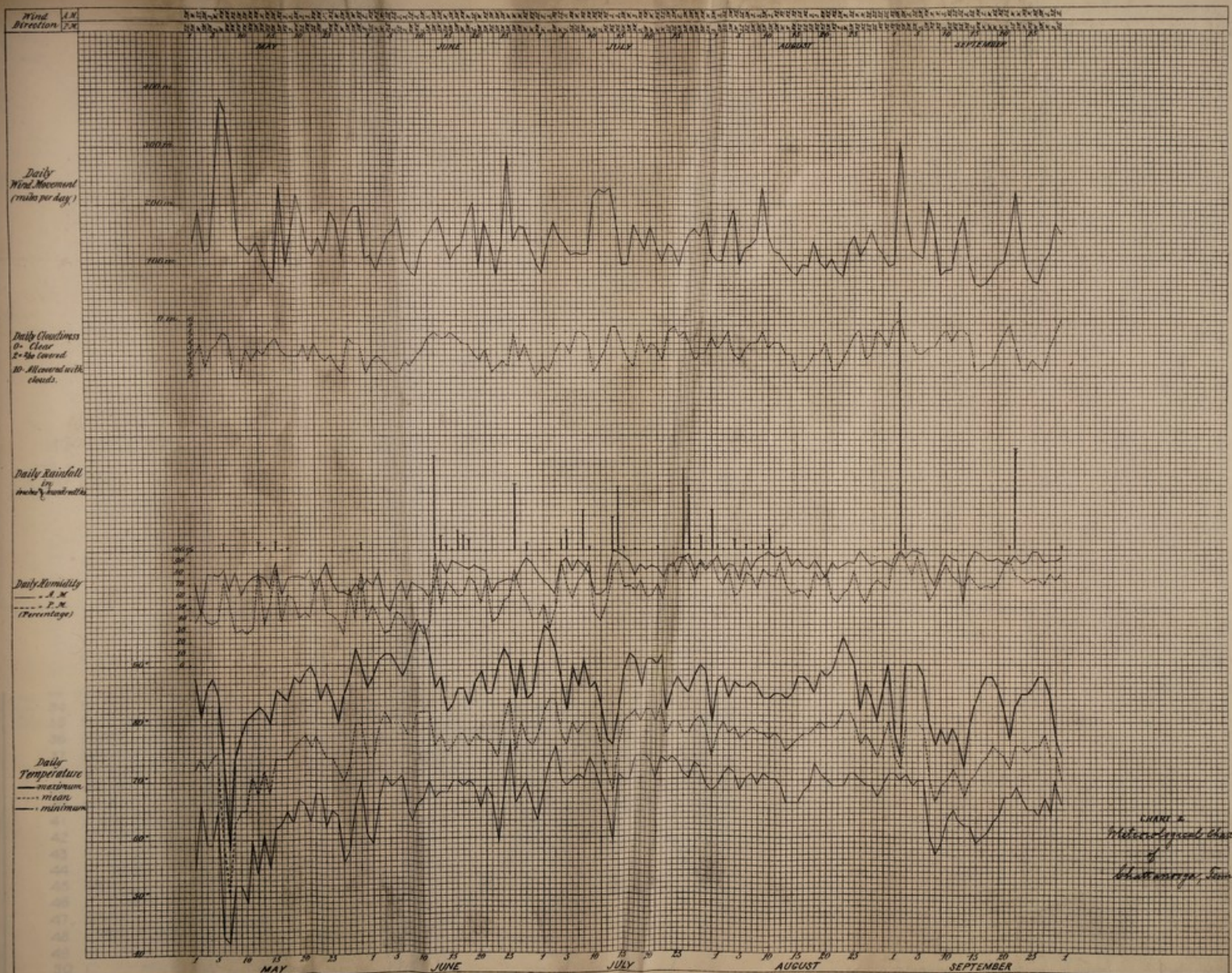
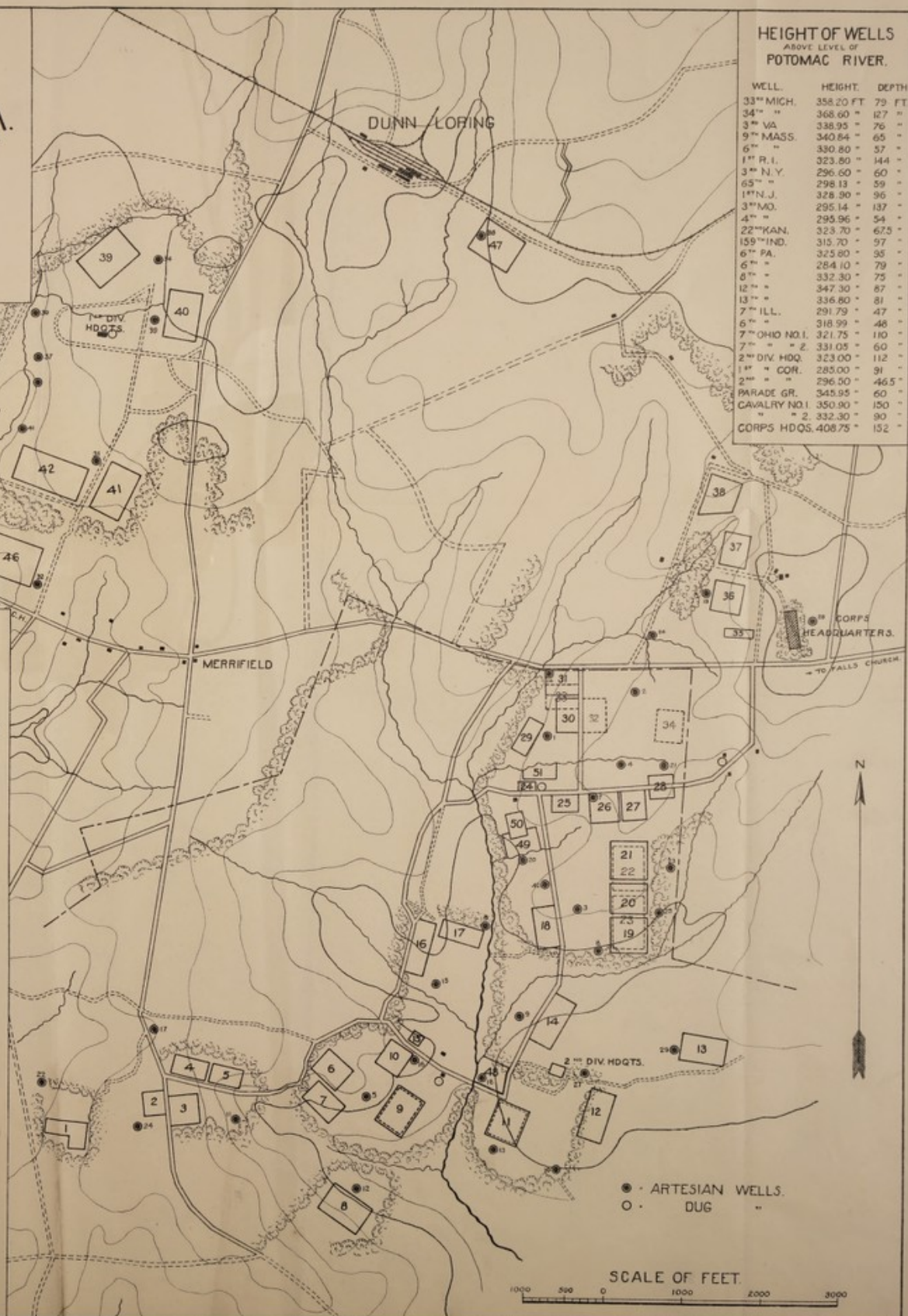


CHART 3
SKETCH MAP OF
CAMP ALGER VA.
INCLUDING NEW CAMP OF
1ST DIV. 2ND CORPS
NEAR DUNN LORING
1898

HEIGHT OF WELLS
ABOVE LEVEL OF
POTOMAC RIVER.

WELL.	HEIGHT.	DEPTH
33 RD MICH.	358.20 FT	79 FT
34 TH "	368.60 "	127 "
3 RD VA.	338.95 "	76 "
9 TH MASS.	340.84 "	65 "
6 TH "	330.80 "	57 "
1 ST R. I.	323.80 "	144 "
3 RD N. Y.	296.60 "	60 "
65 TH "	298.13 "	59 "
1 ST N. J.	328.90 "	96 "
3 RD MO.	295.14 "	137 "
4 TH "	295.96 "	54 "
22 ND KAN.	323.70 "	673 "
159 TH IND.	315.70 "	97 "
6 TH PA.	325.80 "	95 "
6 TH "	284.10 "	79 "
8 TH "	332.30 "	75 "
12 TH "	347.30 "	87 "
13 TH "	336.80 "	81 "
7 TH ILL.	291.79 "	47 "
6 TH "	318.99 "	48 "
7 TH OHIO NO. 1.	321.75 "	110 "
7 TH " " 2.	331.05 "	60 "
2 ND DIV. HDQ.	323.00 "	112 "
1 ST " CON.	285.00 "	91 "
2 ND "	296.50 "	465 "
PARADE GR.	345.95 "	60 "
CAVALRY NO. 1.	350.90 "	150 "
" " 2.	332.30 "	90 "
CORPS HDQS.	408.75 "	152 "

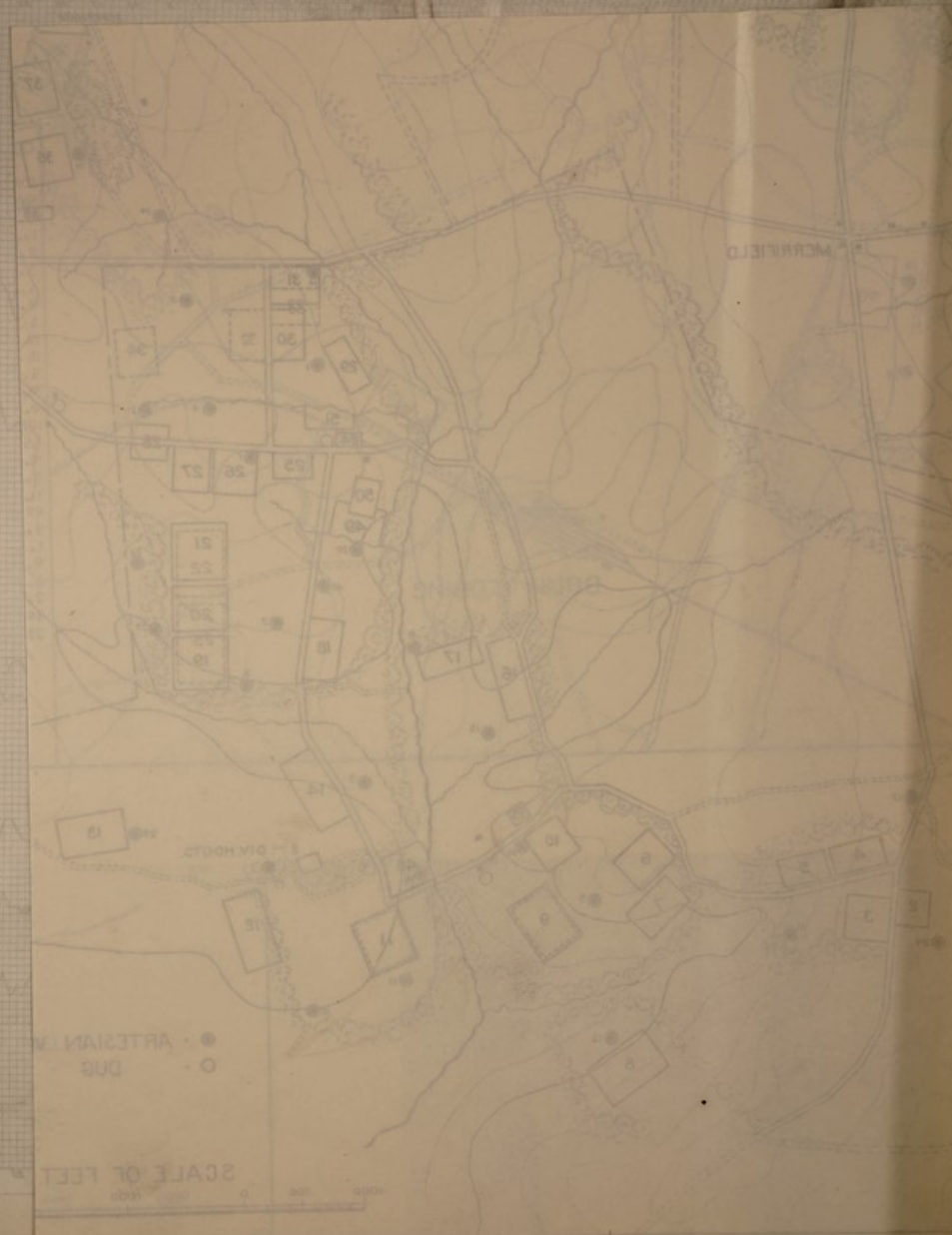
- 1 3RD VA. 1ST CAMP.
- 2 34TH MICH.
- 3 9TH MASS.
- 4 33RD MICH.
- 5 2ND TENN. 1ST CAMP.
- 6 22ND KAN.
- 7 1ST N. J. 1ST CAMP.
- 8 1ST R. I. 2ND "
- 9 7TH OHIO 1ST " 2ND TENN. 2ND CAMP.
- 10 159TH IND.
- 11 65TH N. Y. 1ST " 6TH PA. 2ND "
- 12 7TH ILL.
- 13 6TH PA. 3RD "
- 14 4TH MO. 2ND "
- 15 2ND DIV. HOSP.
- 16 3RD MO.
- 17 3RD N. Y.
- 18 RECRUITS DUFFIELDS BRIGADE.
- 19 65TH N. Y. 2ND CAMP.
- 20 7TH OHIO 2ND "
- 21 1ST N. J. 2ND "
- 22 4TH MO. 1ST "
- 23 1ST R. I. 1ST "
- 24 1ST DIV. HDQTS.
- 25 9TH OHIO 1ST CAMP.
- 26 8TH PA. 1ST "
- 27 13TH PA. 1ST "
- 28 12TH PA. 1ST "
- 29 6TH MASS.
- 30 8TH OHIO.
- 31 6TH ILL. 2ND "
- 32 6TH ILL. 1ST "
- 33 PA. SQUADRON.
- 34 6TH PA. 1ST "
- 35 N. Y. SQUADRON.
- 36 CORPS RES. HOSP.
- 37 SIGNAL CORPS.
- 38 9TH OHIO 2ND CAMP.
- 39 8TH PA. 2ND "
- 40 13TH PA. 2ND "
- 41 1ST DIV. HOSP. 3RD "
- 42 3RD VA. 2ND "
- 43 1ST N. J. 3RD "
- 44 7TH OHIO 3RD "
- 45 65TH N. Y. 3RD "
- 46 1ST CONN.
- 47 12TH PA. 2ND "
- 48 2ND DIV. CORRAL.
- 49 1ST "
- 50 1ST " HOSP. 1ST CAMP.
- 51 1ST " 2ND "



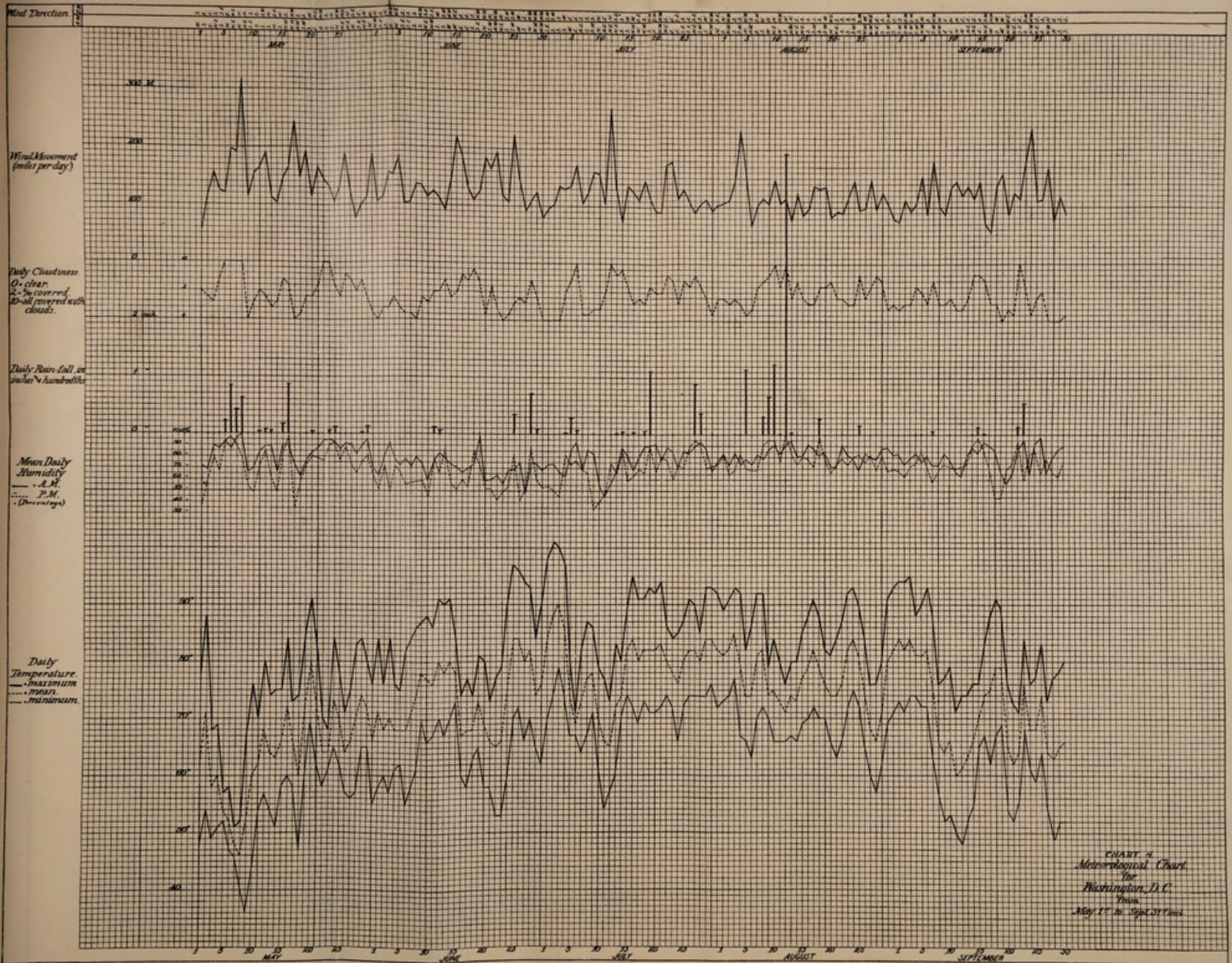
● ARTESIAN WELLS.
○ DUG "

SCALE OF FEET.

1000 500 0 1000 2000 3000



1. 3rd VA. T. CAMP
2. 34. MICH.
3. 37. MASS.
4. 33. MICH.
5. 37. TENN. T. CAMP
6. 33. KAN.
7. 17. N.J. T. CAMP
8. 17. N.J. T. CAMP
9. 17. OHIO T. CAMP
10. 18. IND.
11. 38. N.Y. T. CAMP
12. 17. ILL.
13. 37. PA. T. CAMP
14. 37. MO. T. CAMP
15. 37. DIV. 2nd CORPS
16. 37. DIV. 2nd CORPS
17. 37. N.Y. T. CAMP
18. 37. N.Y. T. CAMP
19. 37. N.Y. T. CAMP
20. 37. N.Y. T. CAMP
21. 37. N.Y. T. CAMP
22. 37. N.Y. T. CAMP
23. 37. N.Y. T. CAMP
24. 37. N.Y. T. CAMP
25. 37. N.Y. T. CAMP
26. 37. N.Y. T. CAMP
27. 37. N.Y. T. CAMP
28. 37. N.Y. T. CAMP
29. 37. N.Y. T. CAMP
30. 37. N.Y. T. CAMP
31. 37. N.Y. T. CAMP
32. 37. N.Y. T. CAMP
33. 37. N.Y. T. CAMP
34. 37. N.Y. T. CAMP
35. 37. N.Y. T. CAMP
36. 37. N.Y. T. CAMP
37. 37. N.Y. T. CAMP
38. 37. N.Y. T. CAMP
39. 37. N.Y. T. CAMP
40. 37. N.Y. T. CAMP
41. 37. N.Y. T. CAMP
42. 37. N.Y. T. CAMP
43. 37. N.Y. T. CAMP
44. 37. N.Y. T. CAMP
45. 37. N.Y. T. CAMP
46. 37. N.Y. T. CAMP
47. 37. N.Y. T. CAMP
48. 37. N.Y. T. CAMP
49. 37. N.Y. T. CAMP
50. 37. N.Y. T. CAMP
51. 37. N.Y. T. CAMP



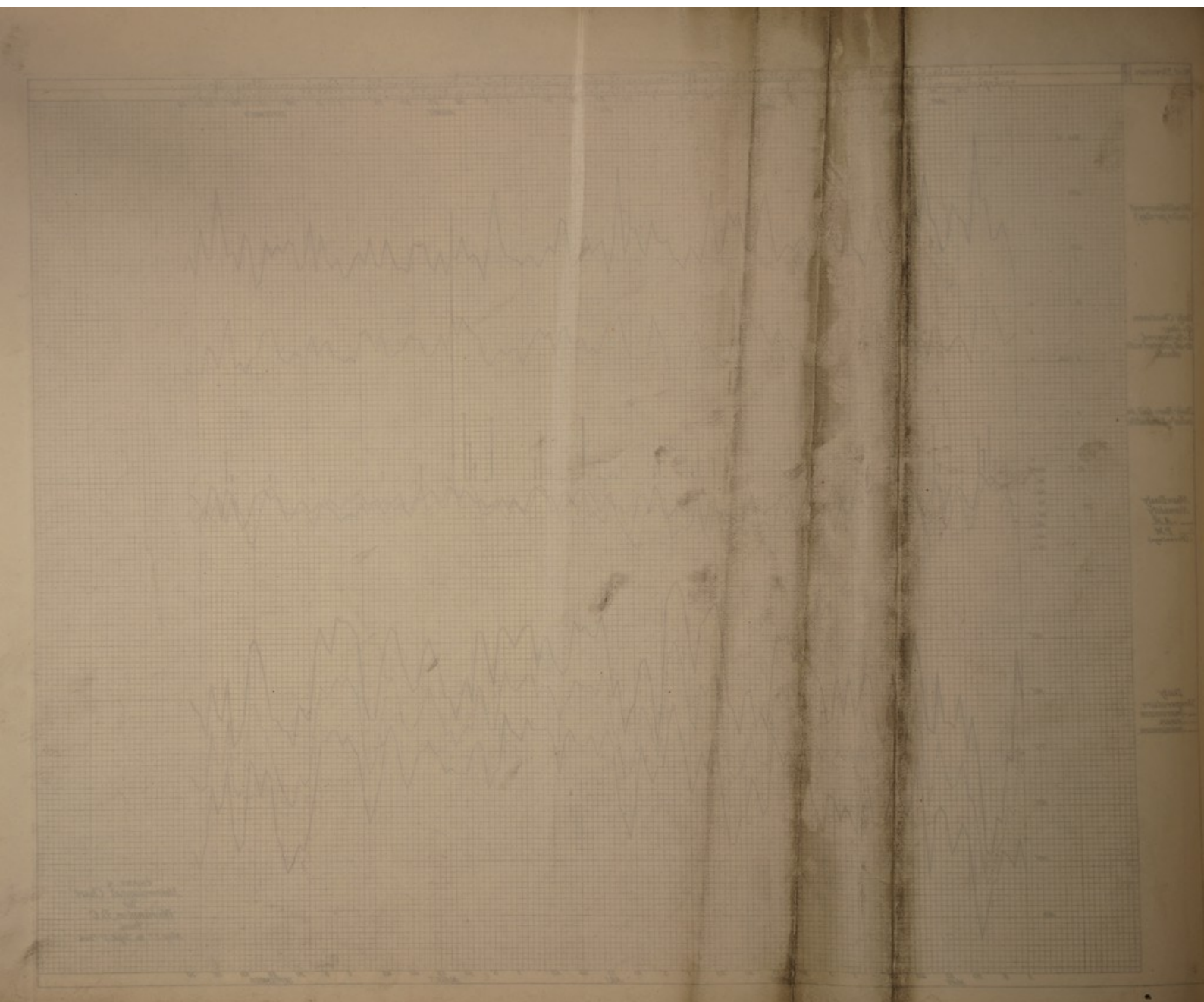
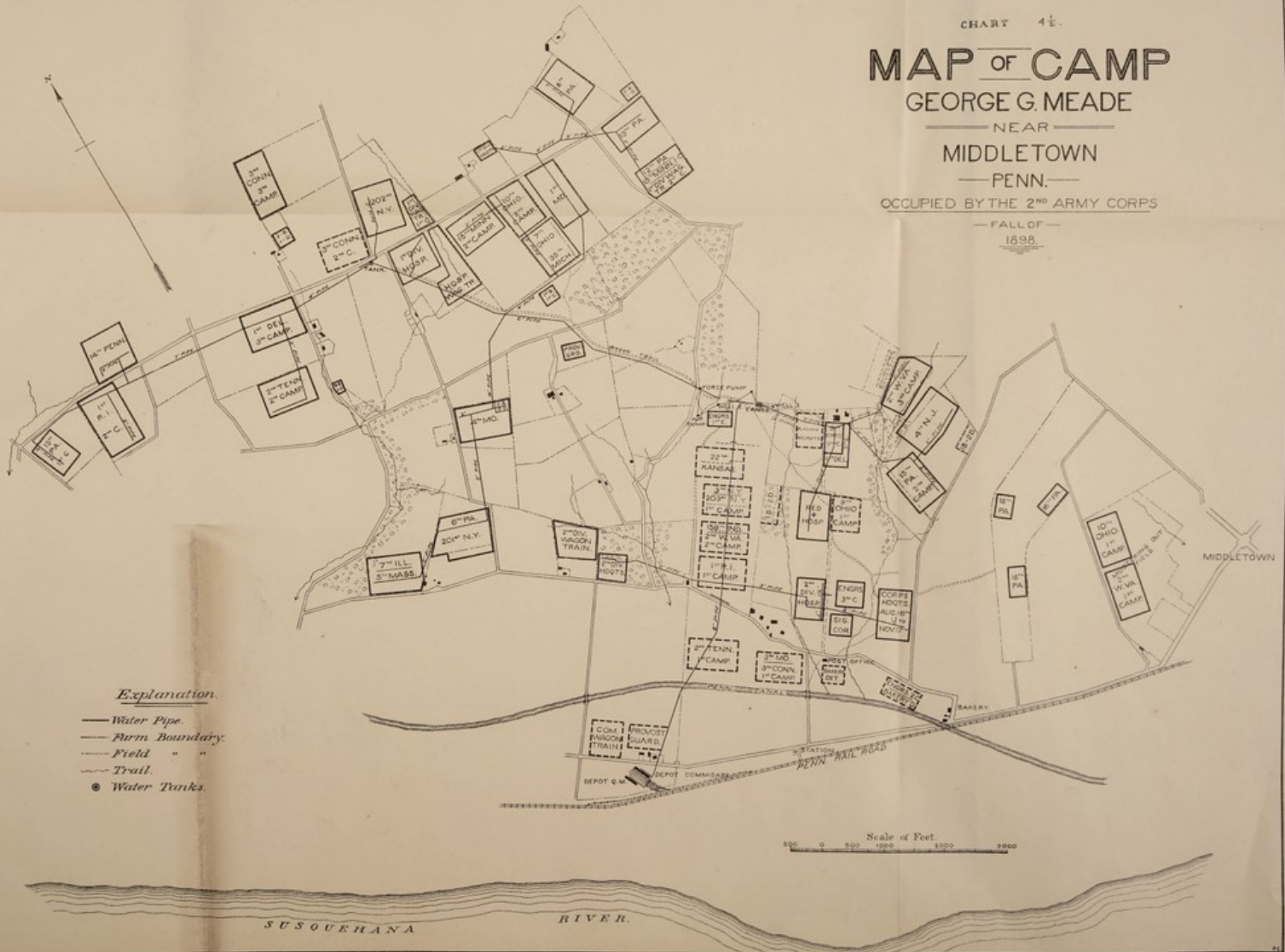


CHART 4 1/2.

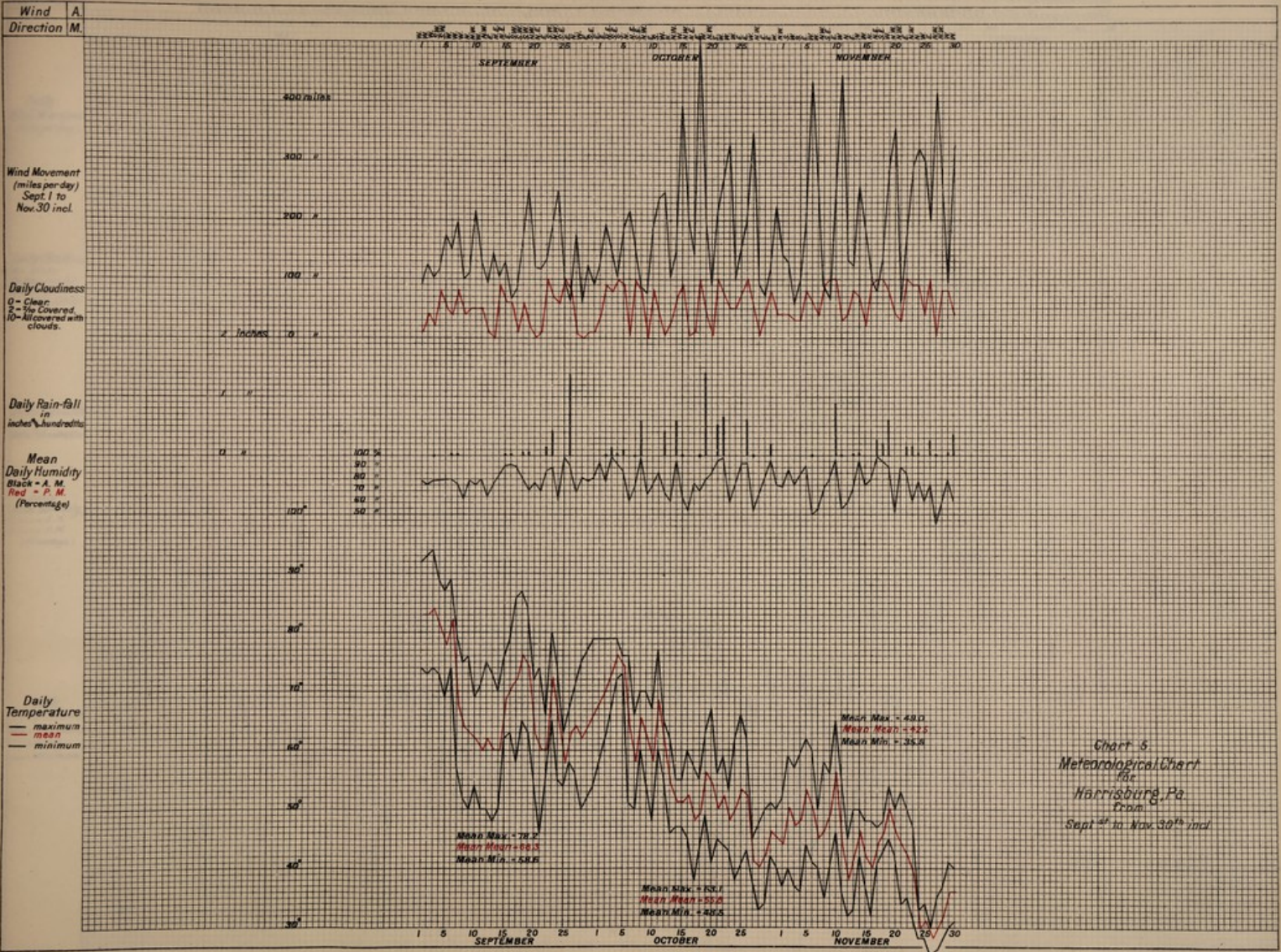
MAP OF CAMP GEORGE G. MEADE NEAR MIDDLETOWN PENN.

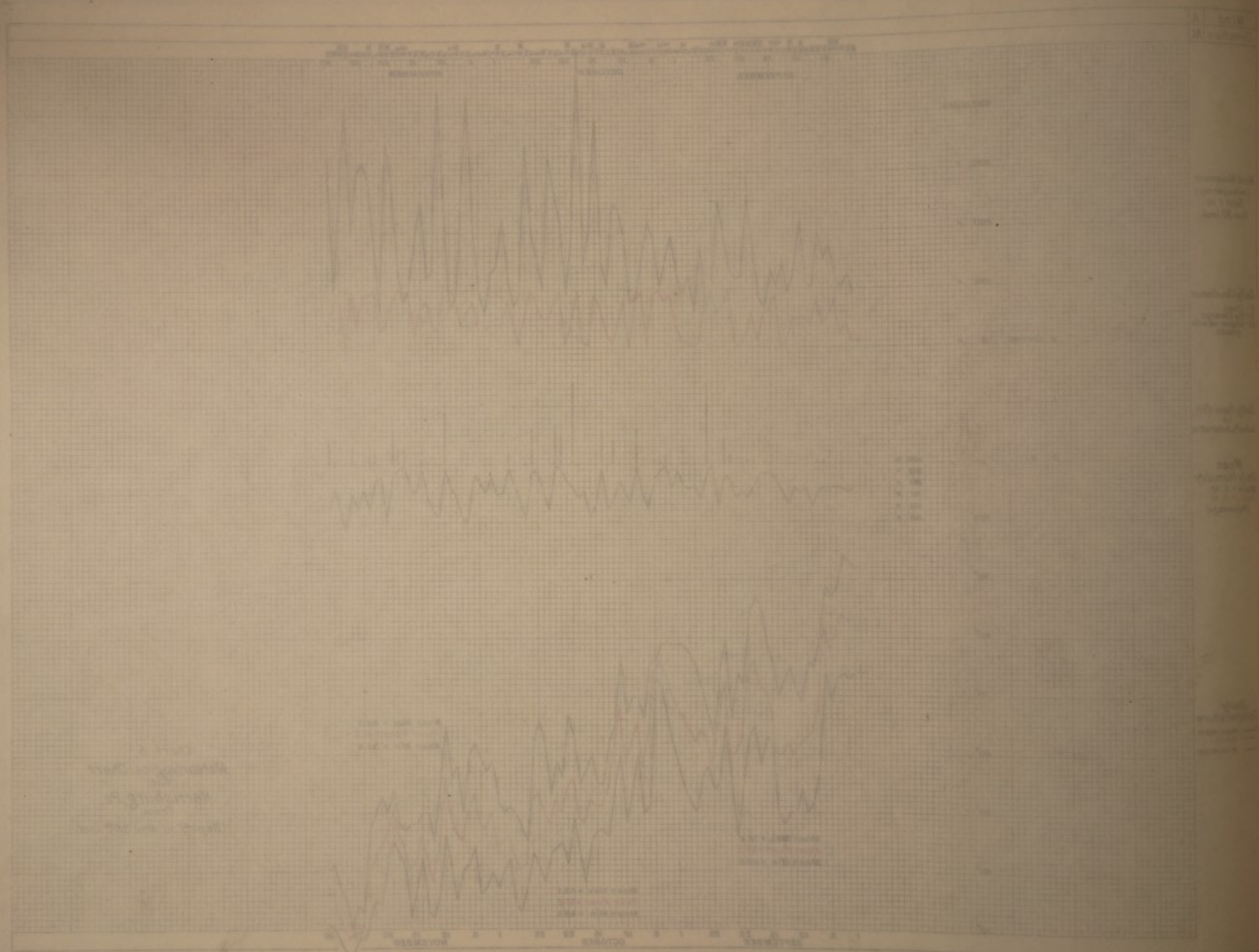
OCCUPIED BY THE 2ND ARMY CORPS

FALL OF
1898.









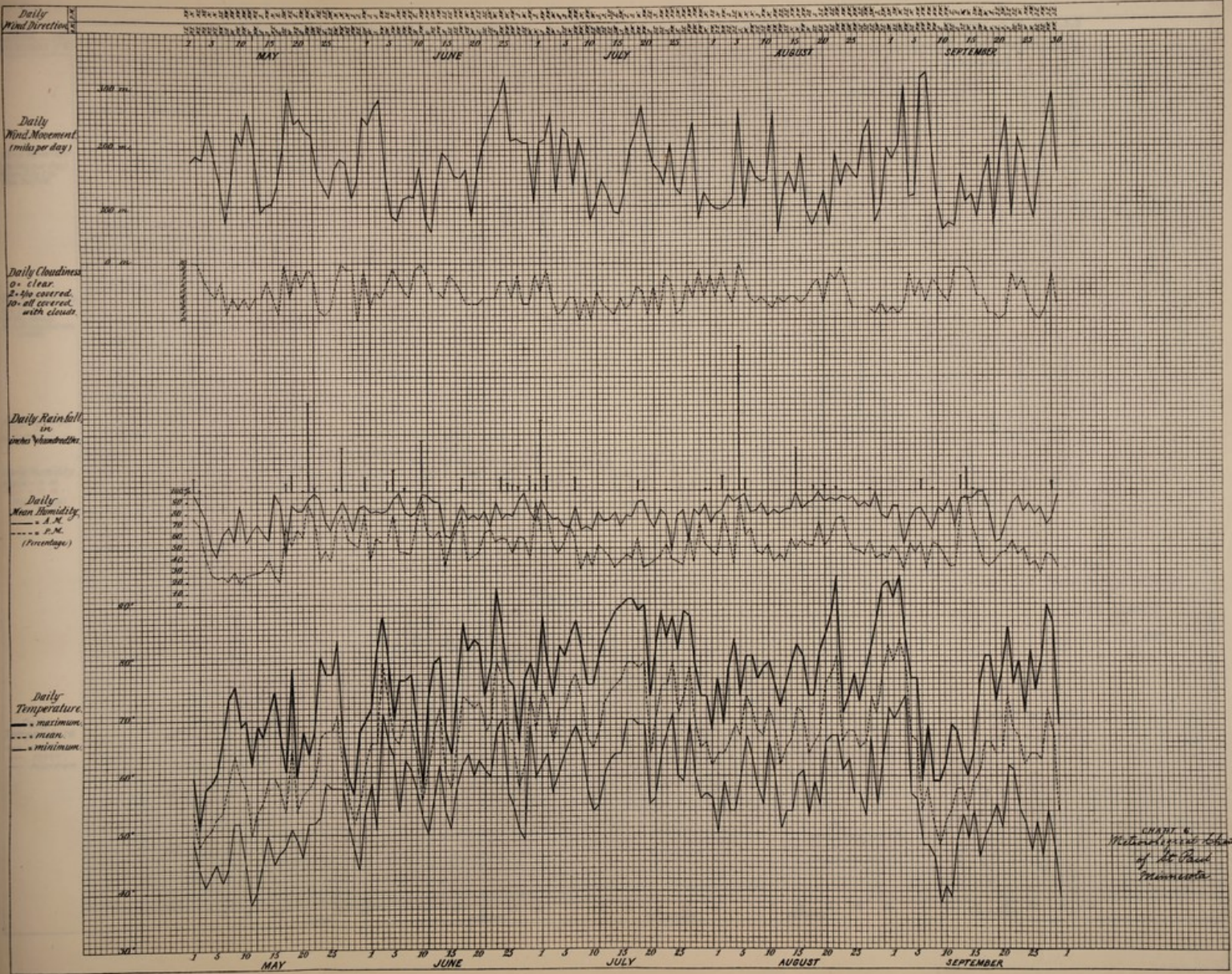
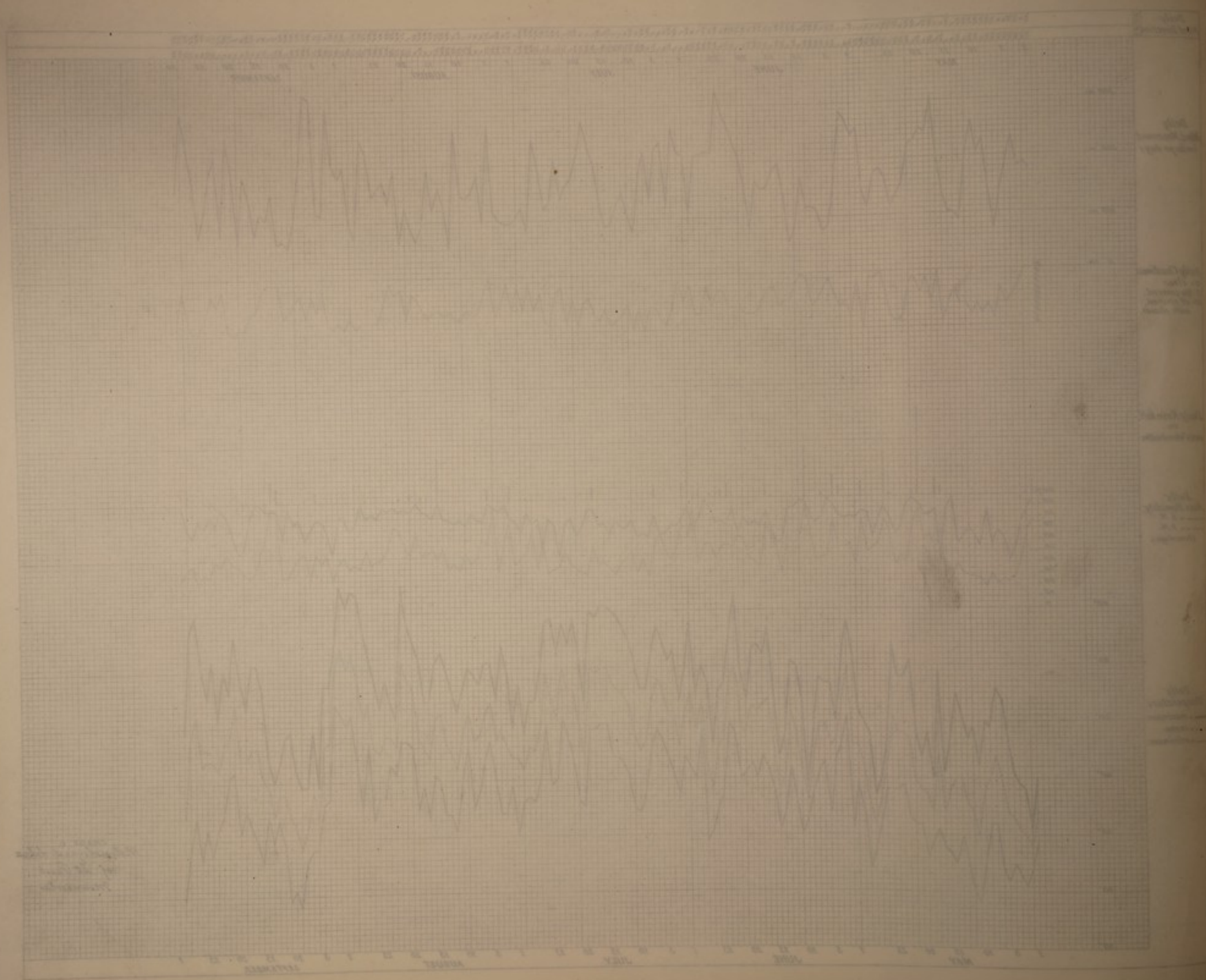
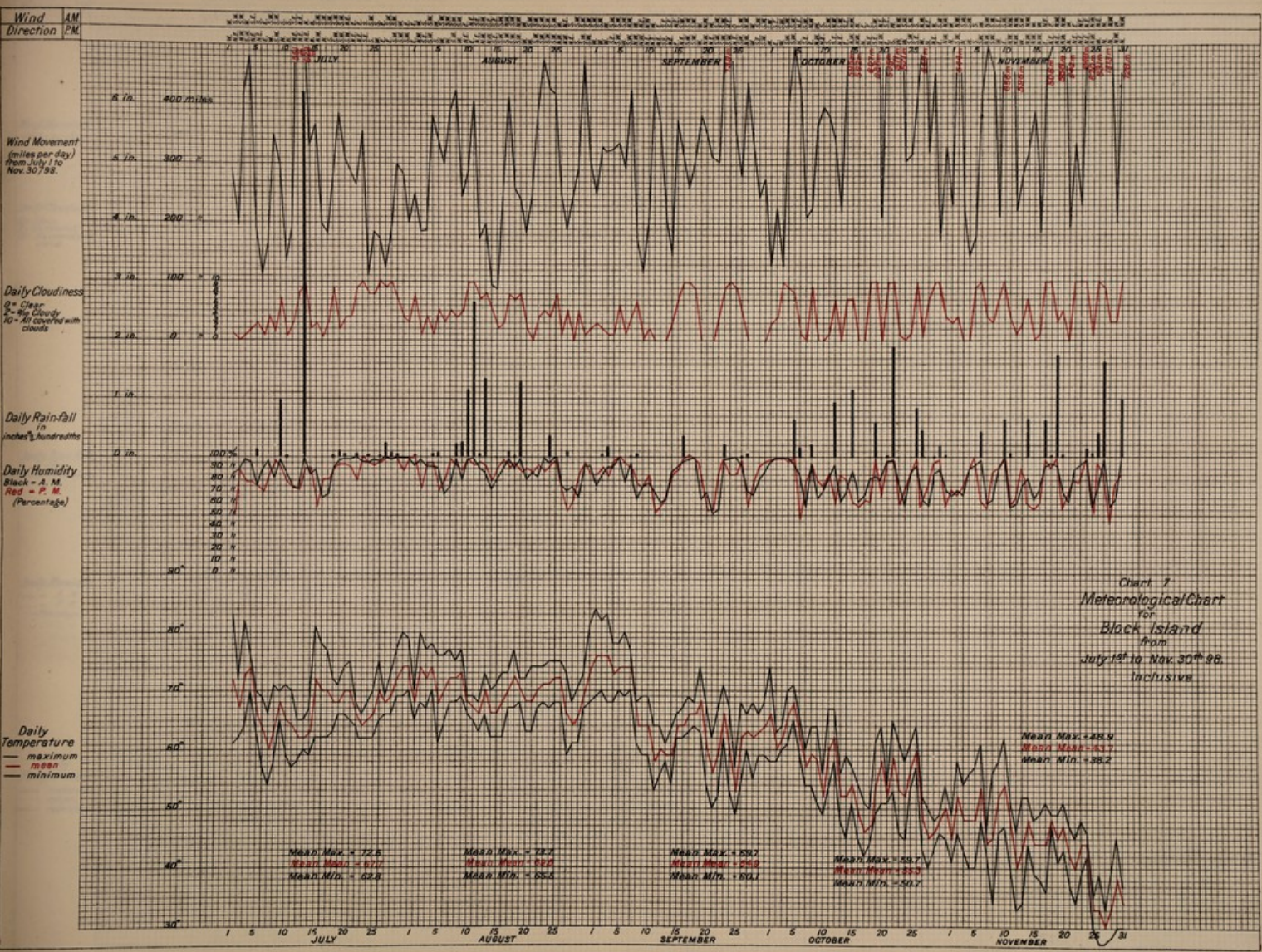
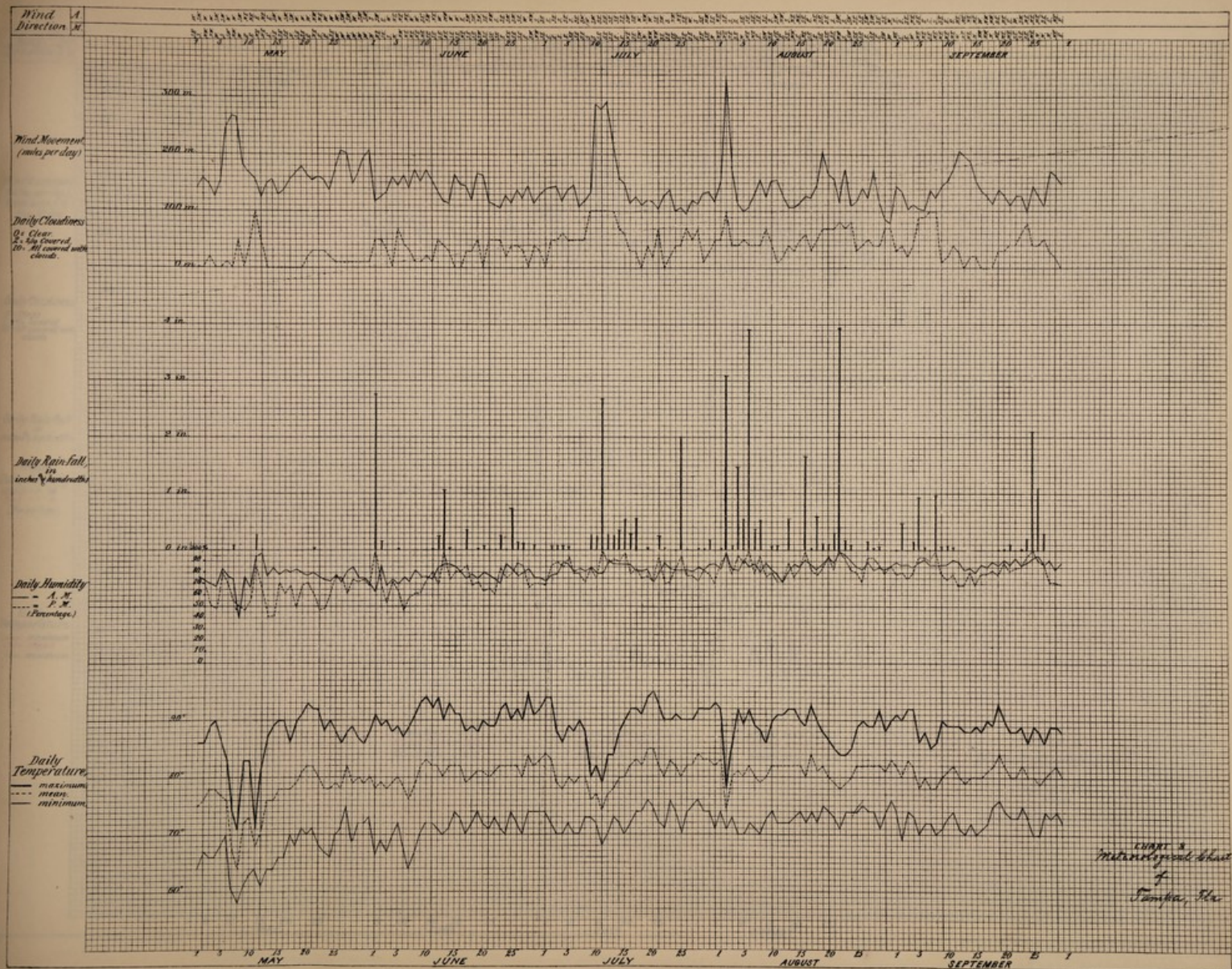
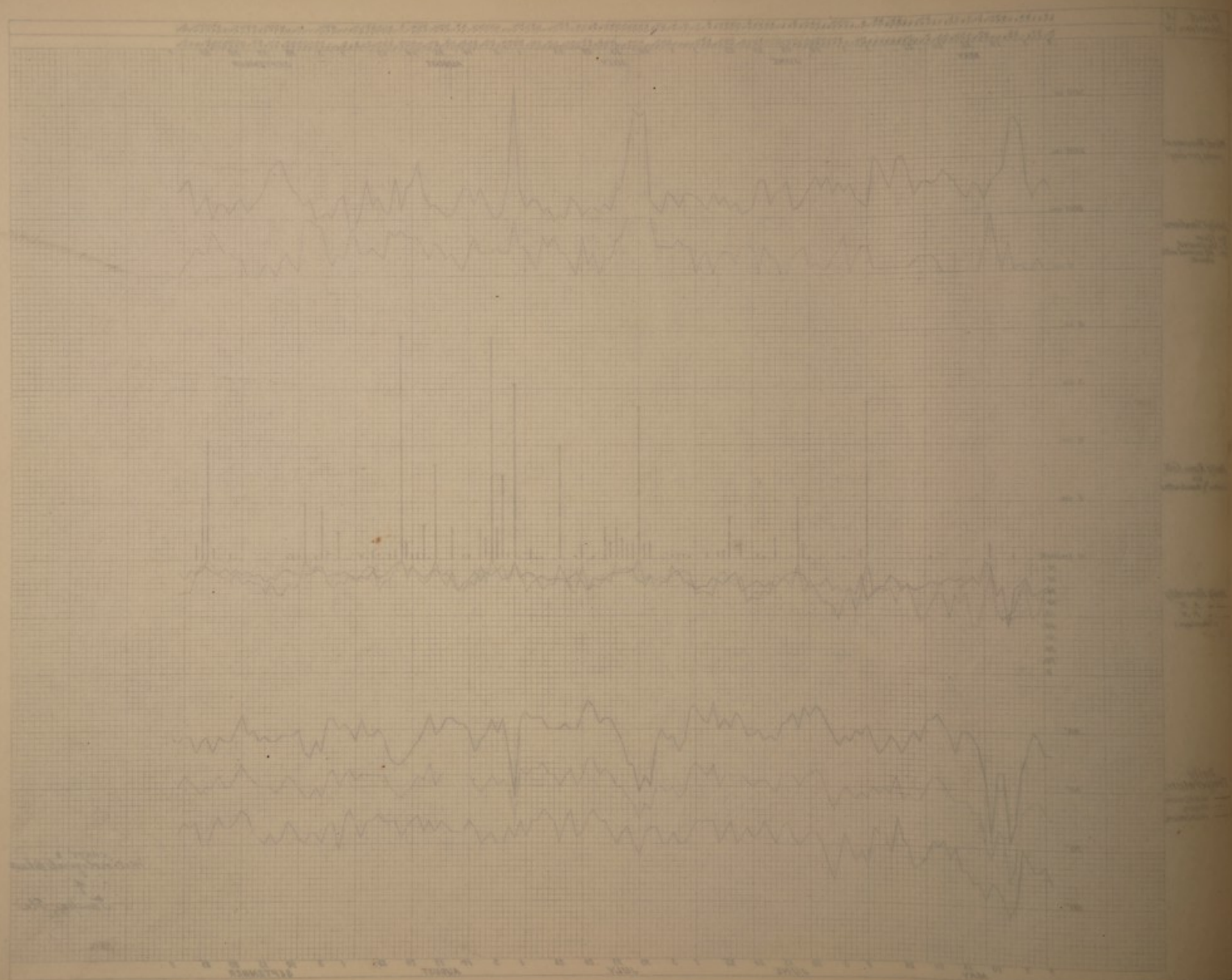


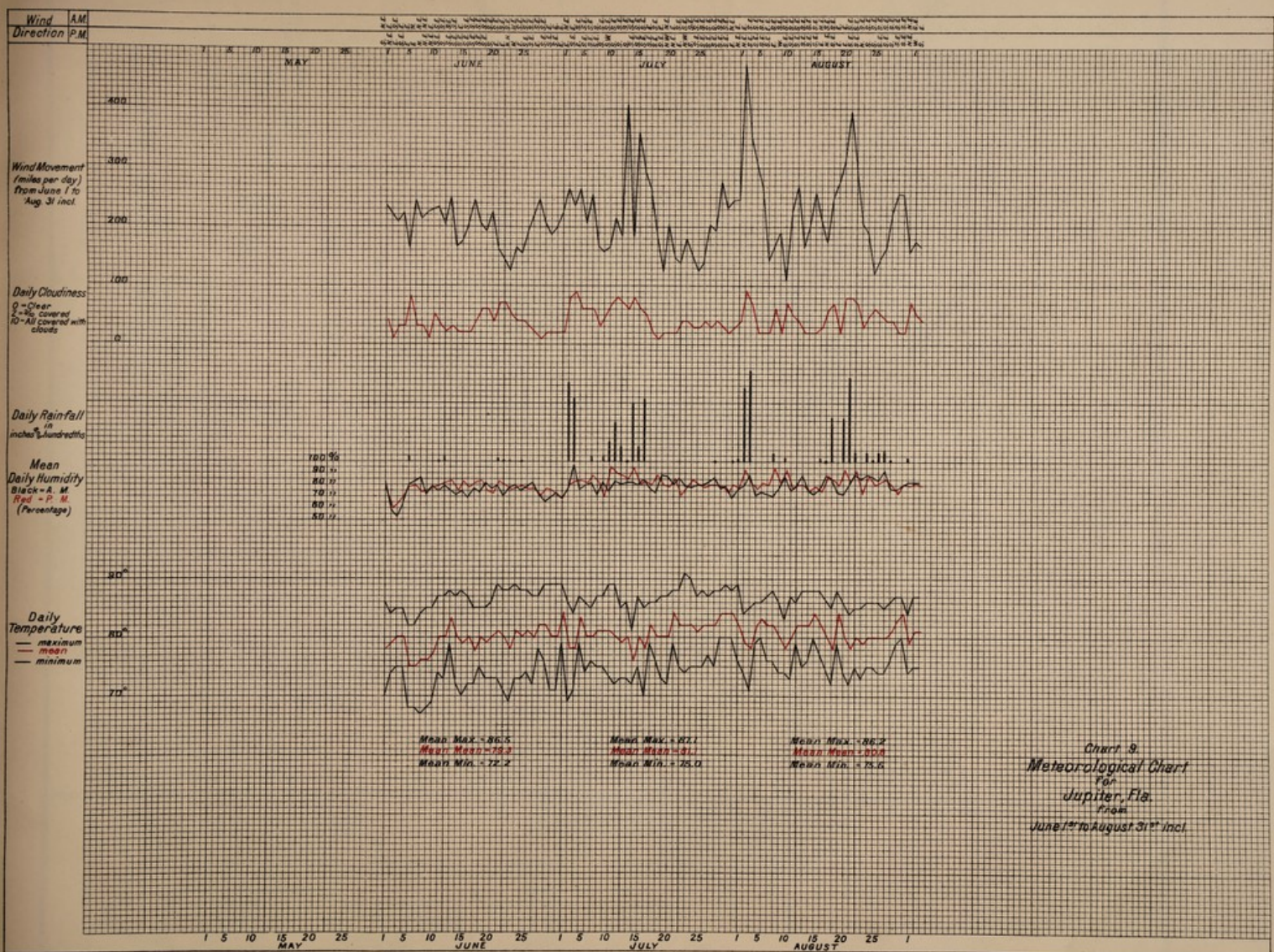
CHART 6.
Meteorological Chart
of the Coast
Maine.





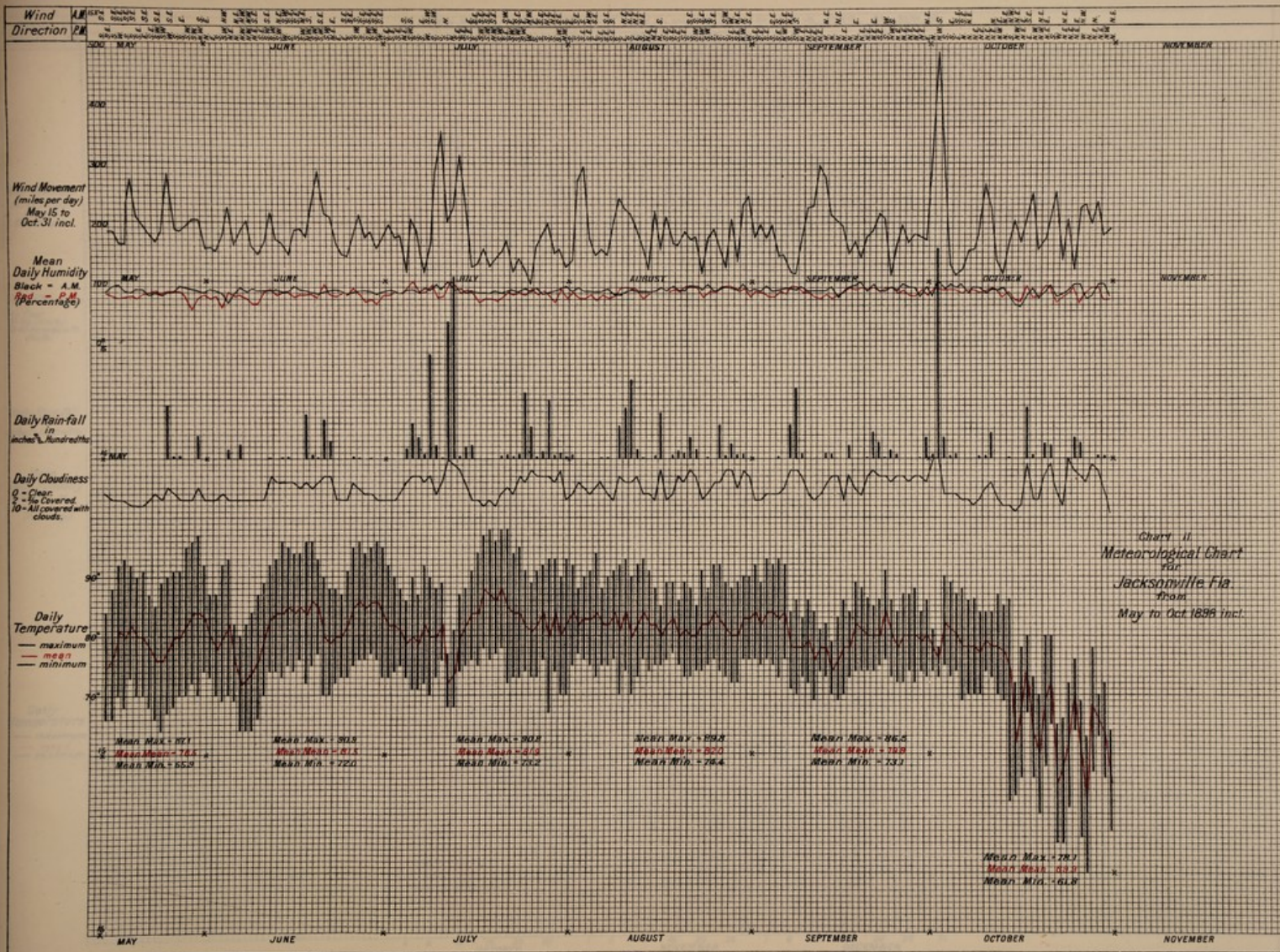


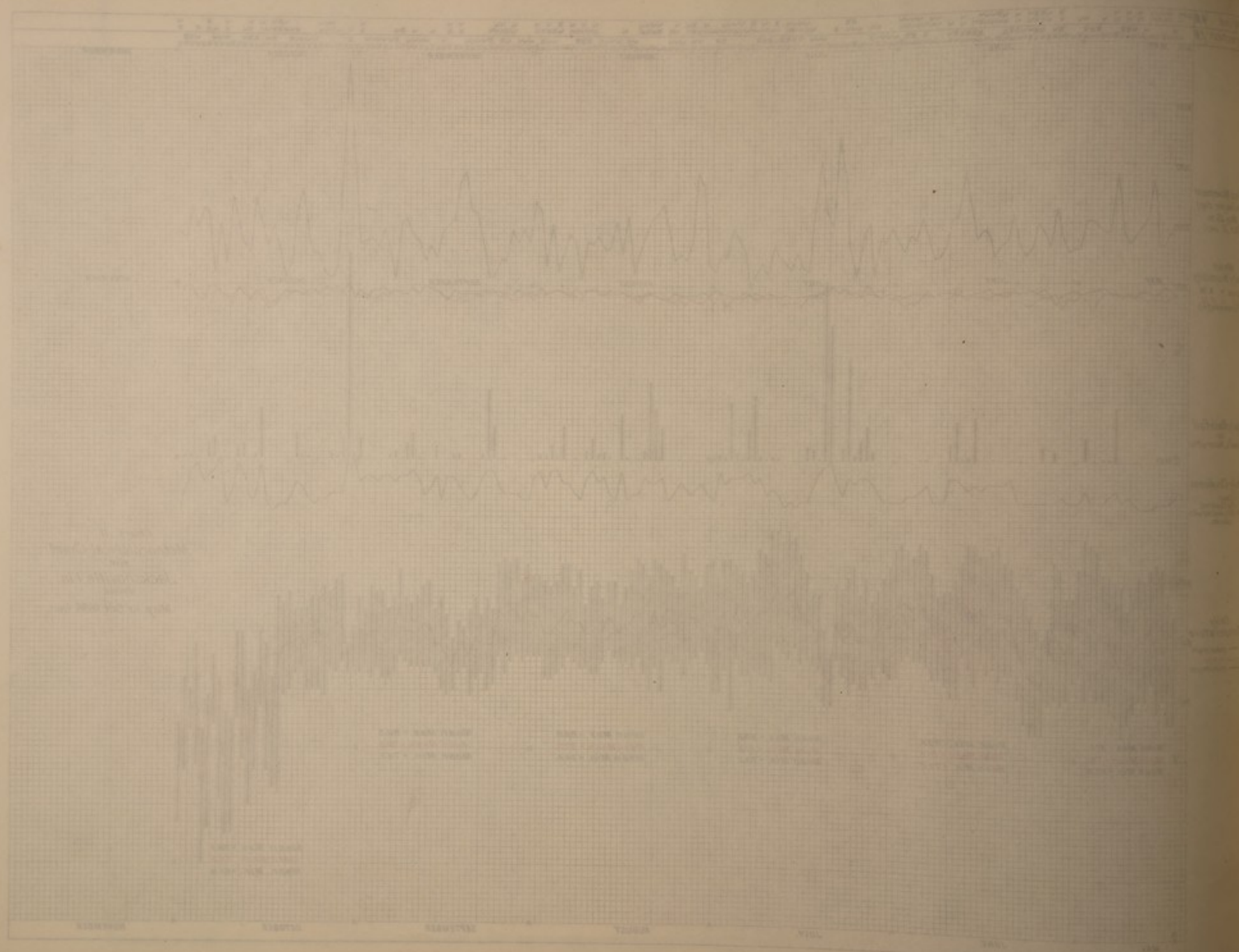


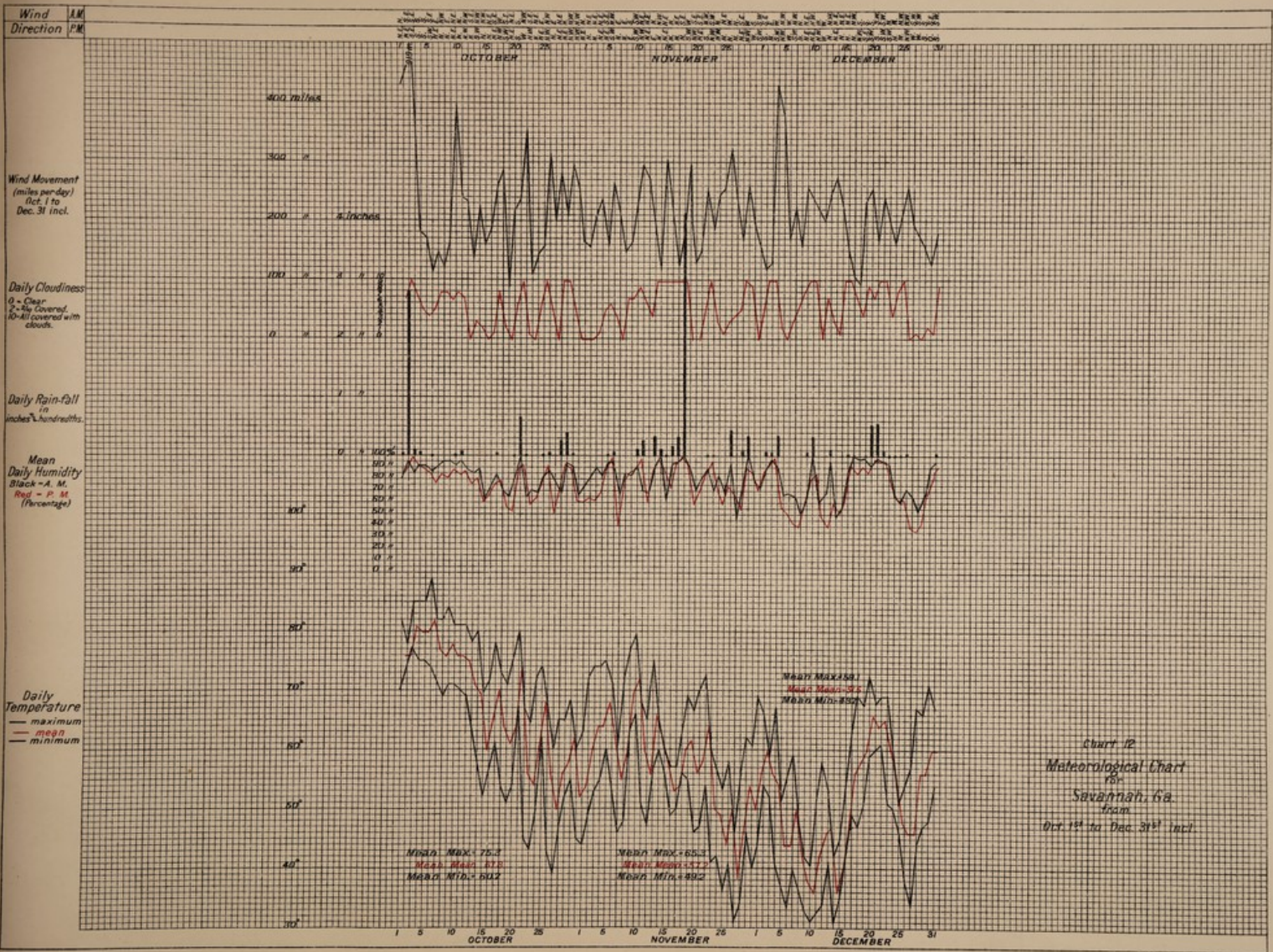


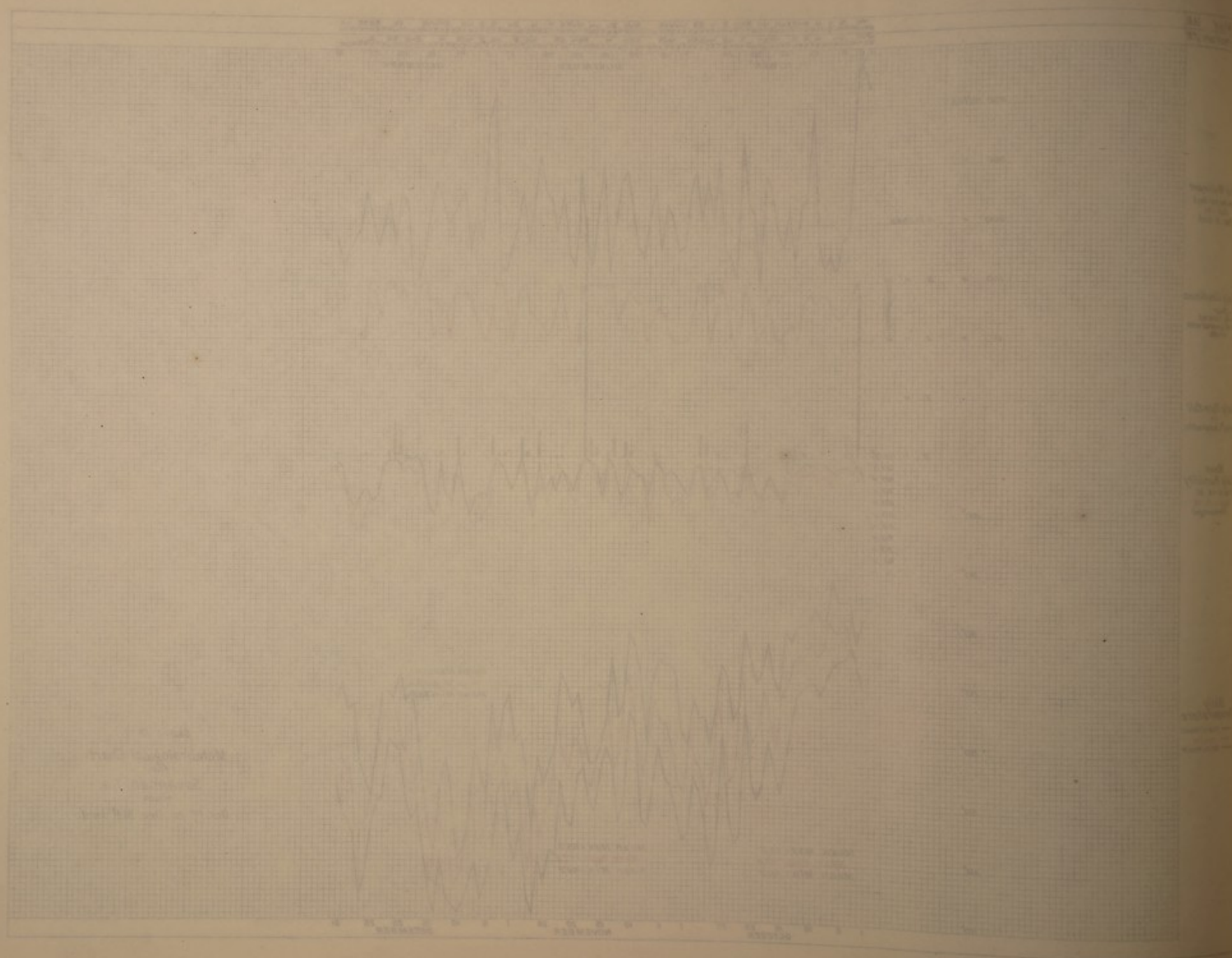














FIRST KENTUCKY VOLUNTEER INFANTRY.

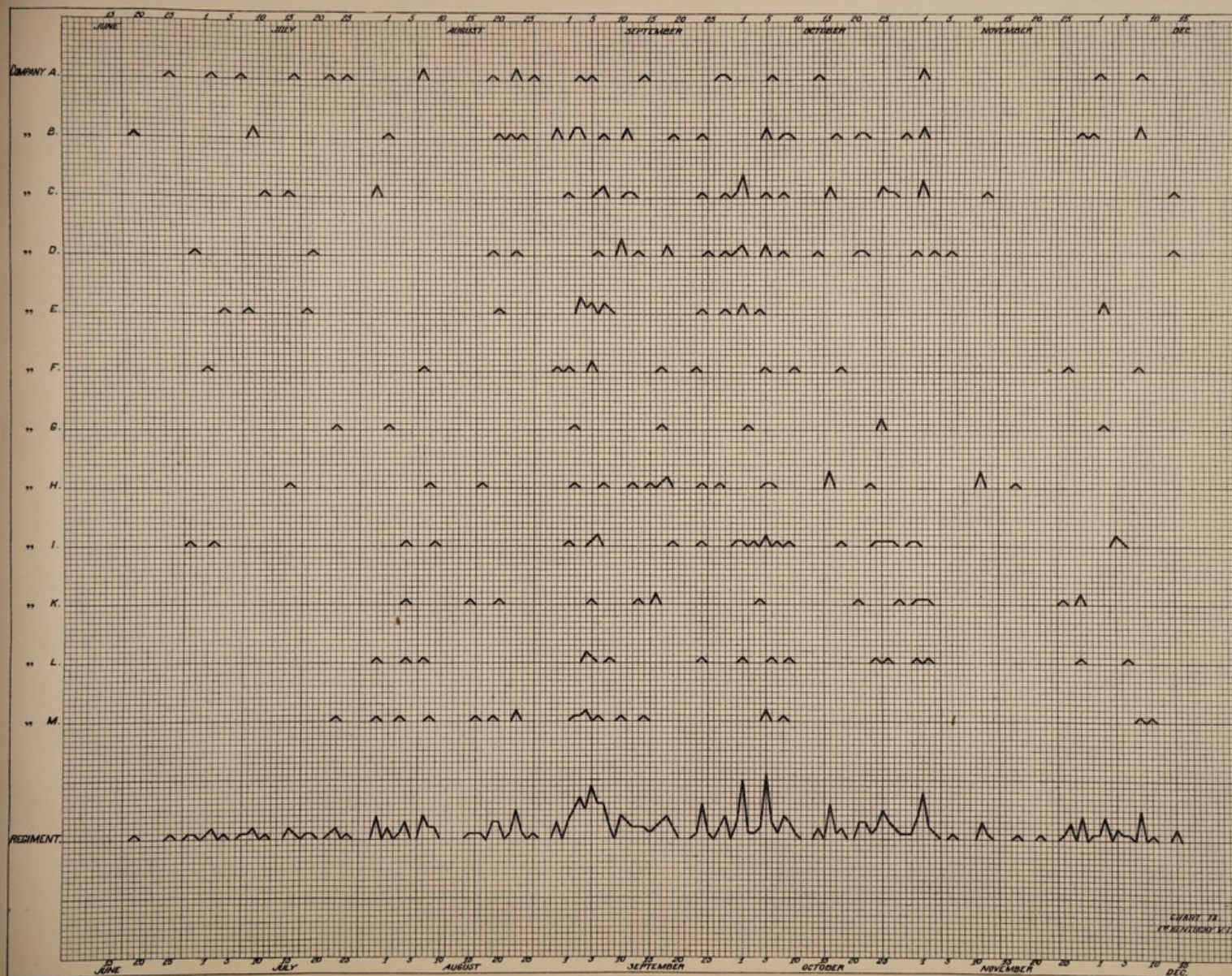
Chart 13, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 1.)

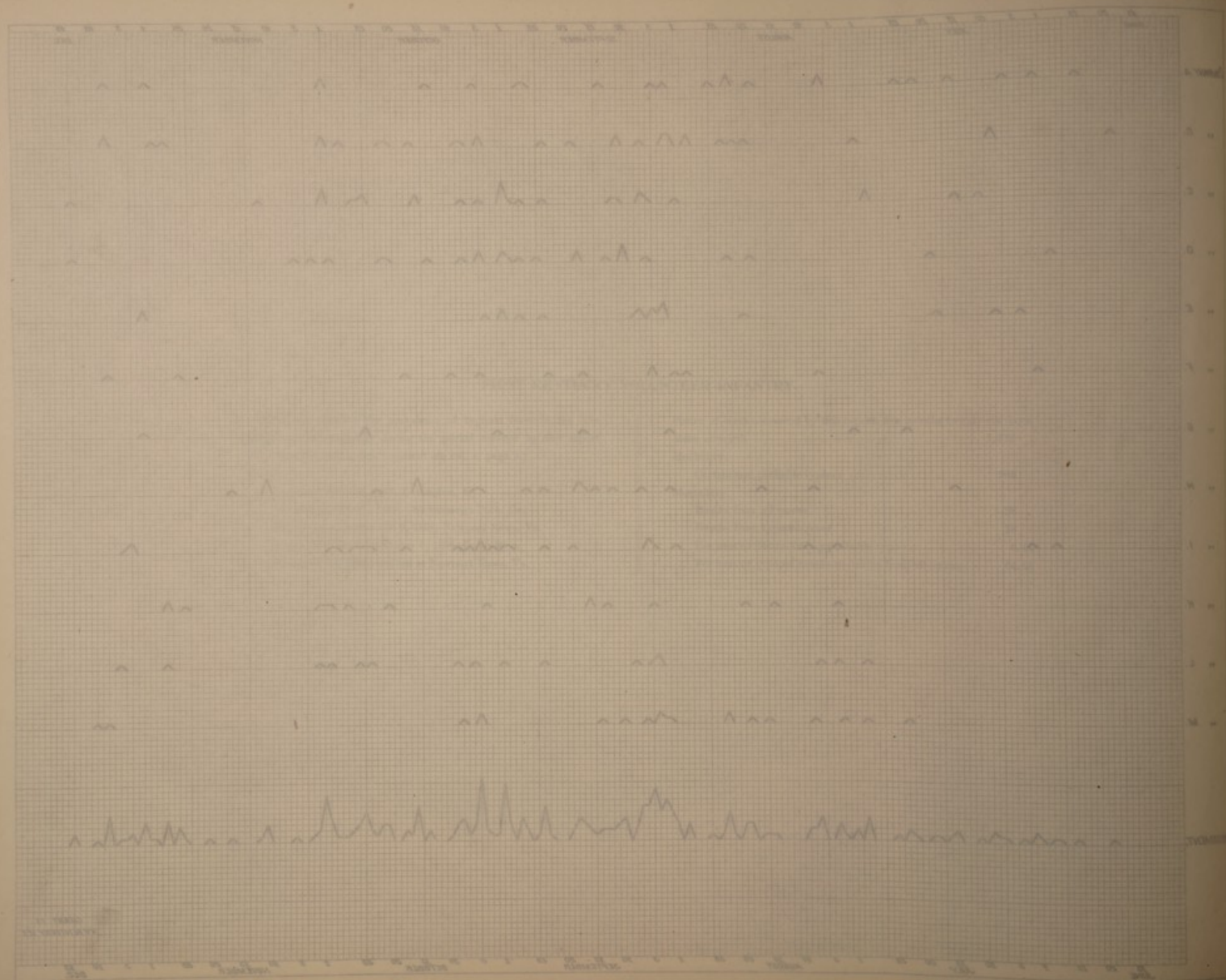
Camps:

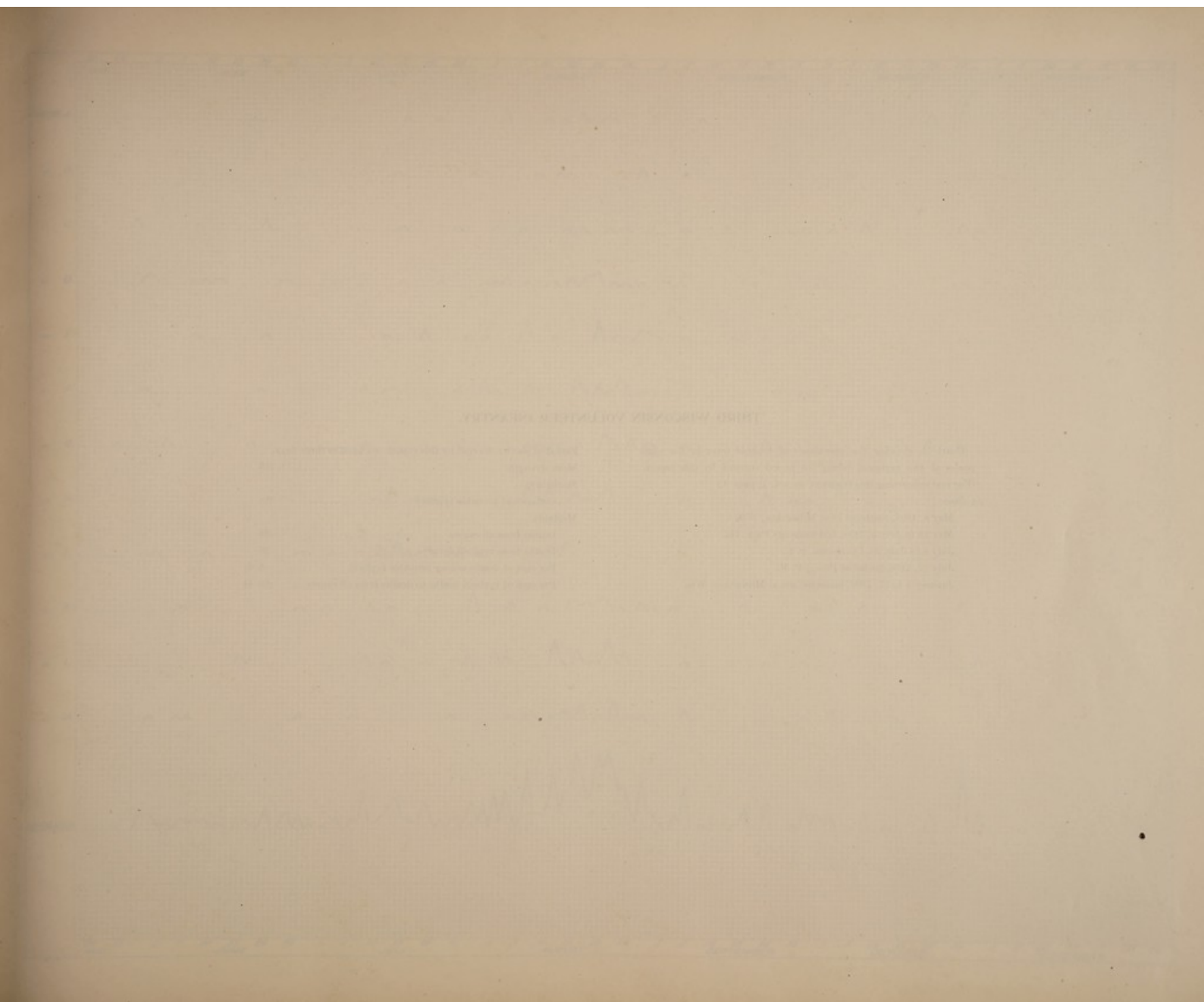
June 5 to June 10, 1898, Lexington, Ky.
 June 11 to July 26, 1898, Chickamauga Park, Ga.
 July 28 to August 1 and 9, 1898, Newport News, Va.
 August 8 to 16 to December 6, 1898, Porto Rico.
 December 10, 1898, arrived at Newport News, Va.

Period of service covered by this report, five months twenty-six days.

Mean strength.....	1,318
Morbidity:	
Certain and probable typhoid	262
Mortality:	
Deaths from all causes.....	28
Deaths from typhoid fever.....	18
Per cent of deaths among probable typhoid	6.87
Per cent of typhoid deaths to deaths from all causes...	64.28







THIRD WISCONSIN VOLUNTEER INFANTRY.

Chart 14, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 9.)

Camps:

May 8, 1898, mustered in at Milwaukee, Wis.
 May 15 to July 5, 1898, Chickamauga Park, Ga.
 July 6 to July 20, Charleston, S. C.
 July 27, 1898, landed at Ponce, P. R.
 January 4 to 17, 1899, mustered out at Milwaukee, Wis.

Period of service covered by this report, six months three days.

Mean strength..... 1,313

Morbidity:

Certain and probable typhoid 378

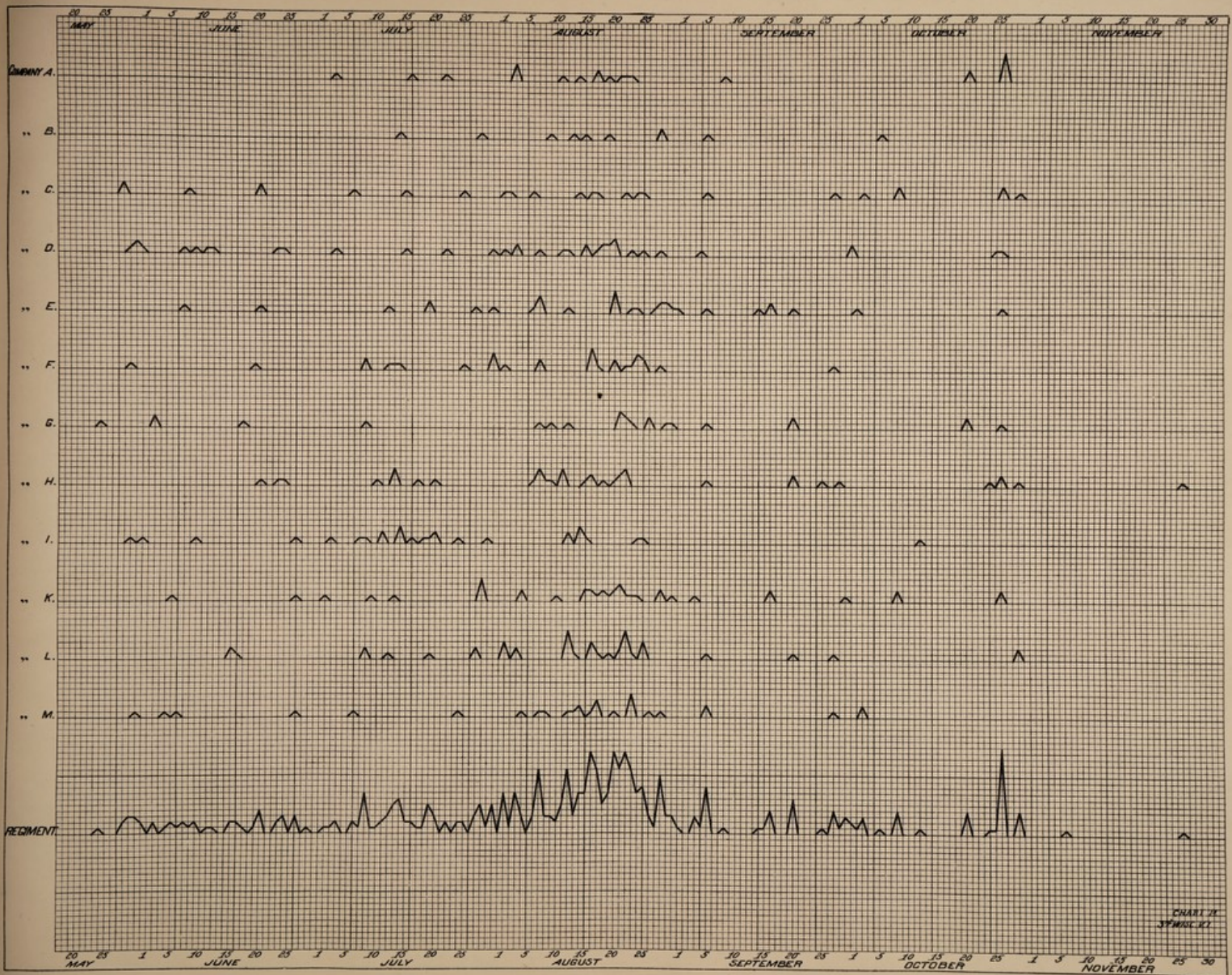
Mortality:

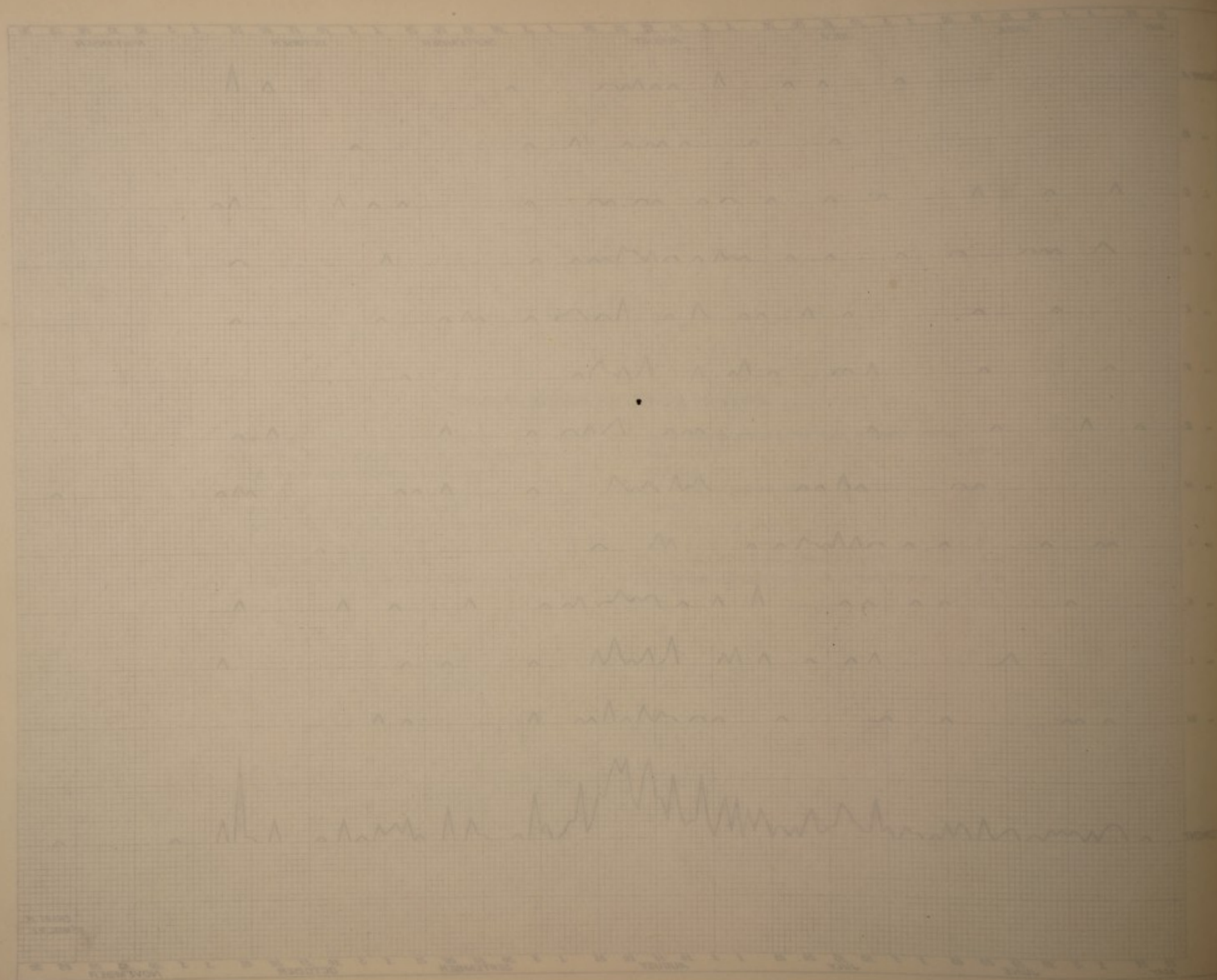
Deaths from all causes..... 36

Deaths from typhoid fever..... 25

Per cent of deaths among probable typhoid.... 6.61

Per cent of typhoid deaths to deaths from all causes... 69.44







FOURTH OHIO VOLUNTEER INFANTRY.

Chart 15, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 21.)

Camps:

May 9 to 16, 1898, Columbus, Ohio.
May 16 to July 22, 1898, Chickamauga Park, Ga.
July 22, 1898, left for Porto Rico.
January 20, 1899, mustered out, Columbus, Ohio.

Period of service covered by this report, five months nine days.

Mean strength.....	1,313
Morbidity:	
Certain and probable typhoid	146
Mortality:	
Deaths from all causes	26
Deaths from typhoid fever	16
Per cent of deaths among probable typhoid.....	10.95
Per cent of typhoid deaths to deaths from all causes...	61.53

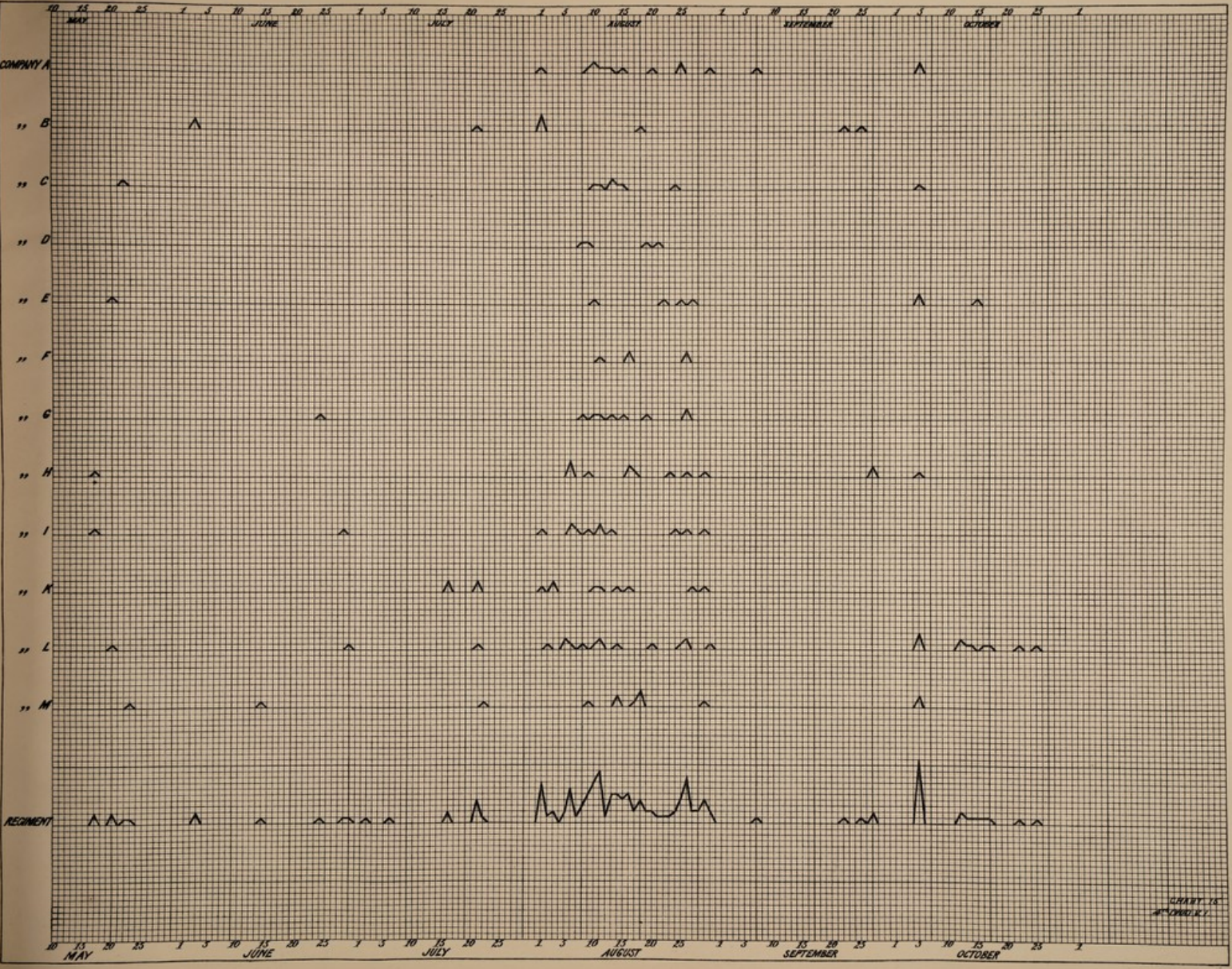
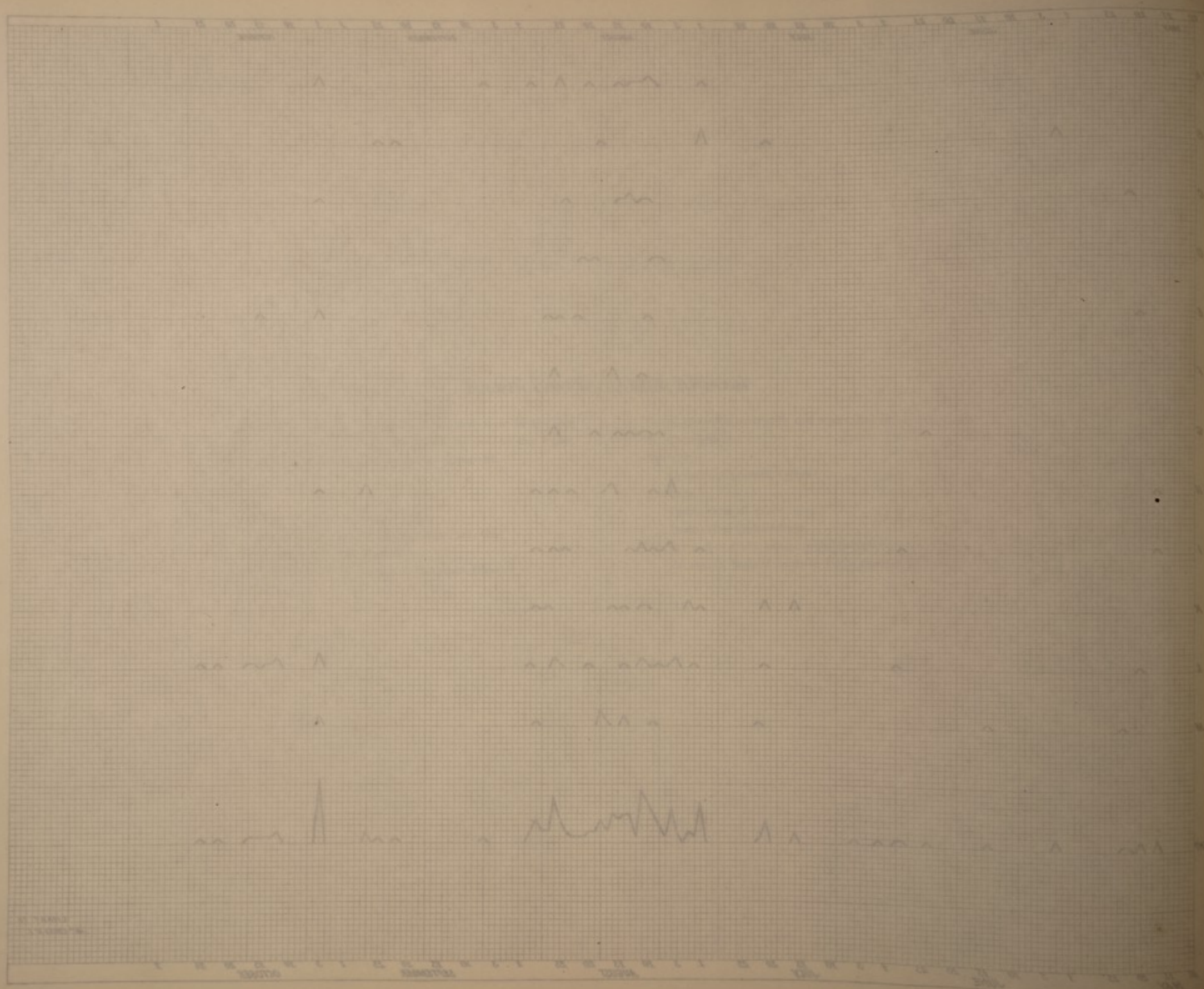


CHART 16
4th CHART 17





FOURTH PENNSYLVANIA VOLUNTEER INFANTRY.

Chart 16. For history of this regiment see vol. 1, page 27.

Summary:

Assembled at Mount Gretna, Pa., in April, 1898.
 Mustered into United States service May 10, 1898.
 Arrived at Chickamauga Park May 16, 1898.
 Strength on arrival, 640.
 Date of first case of probable typhoid fever, June 1, 1898.
 Date of first case of recognized typhoid fever, June 1, 1898.
 Left Chickamauga July 23, 1898.

Strength on departure.....	1,294
Number of cases probable typhoid fever developed at Chickamauga	26
Total deaths in the regiment	35
Deaths due to typhoid fever	24

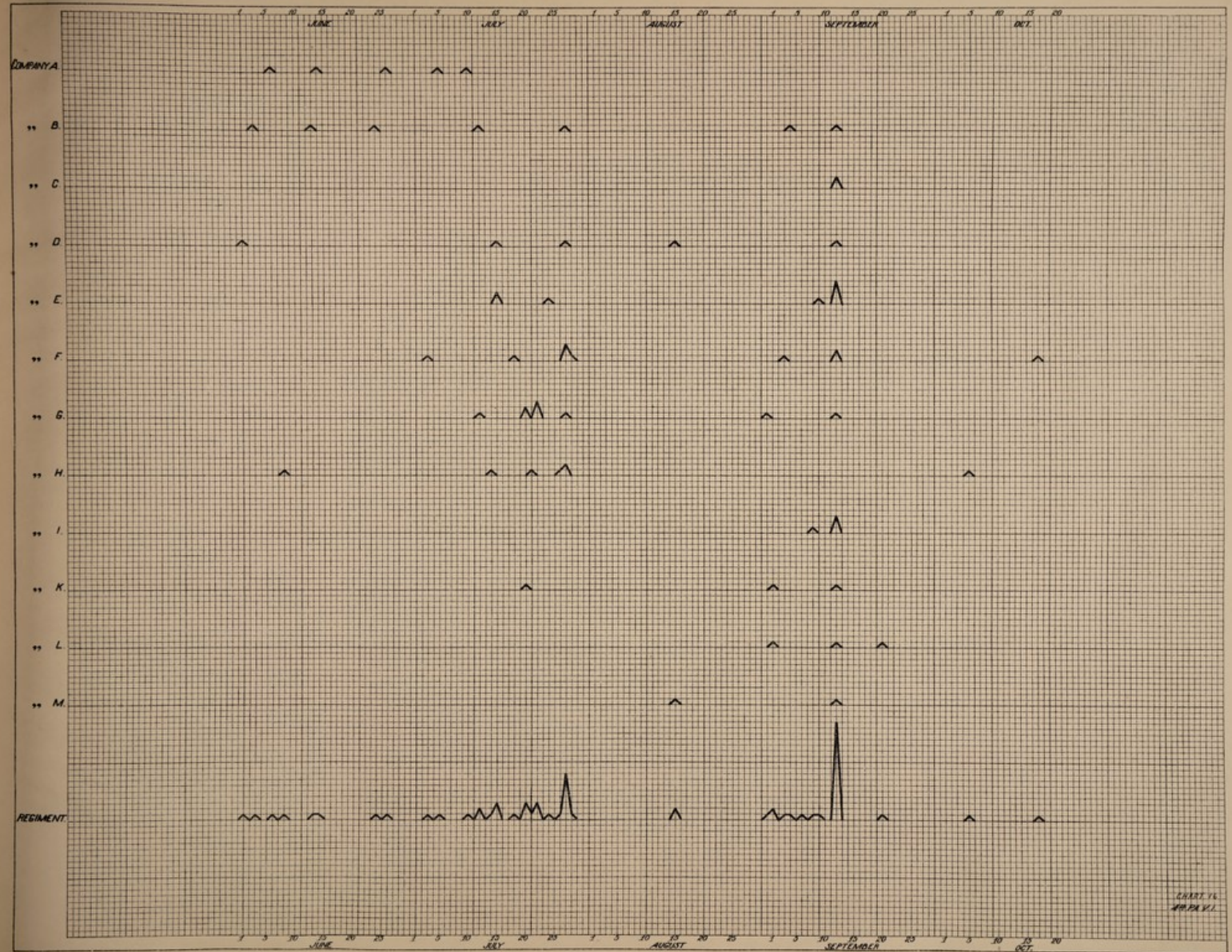
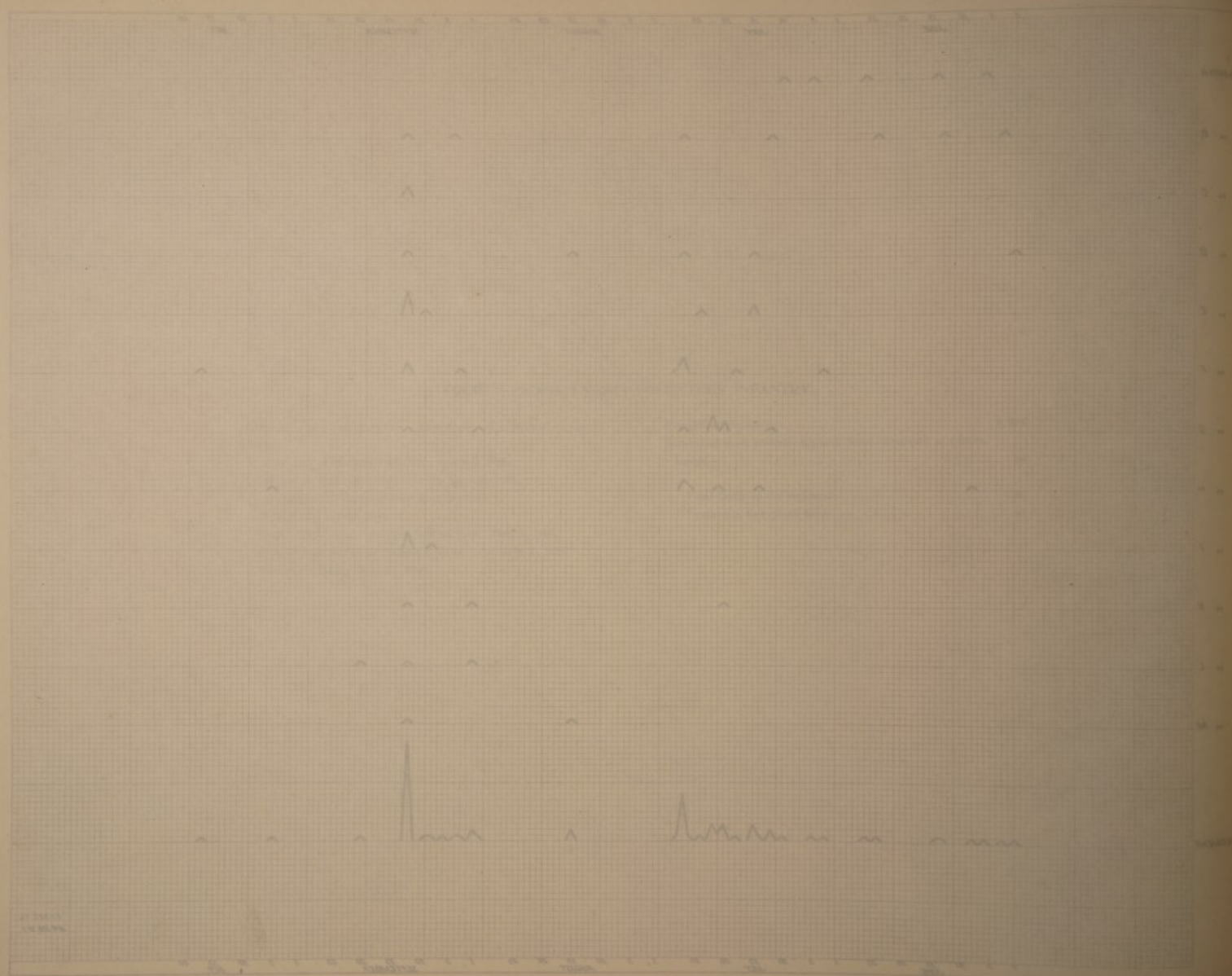
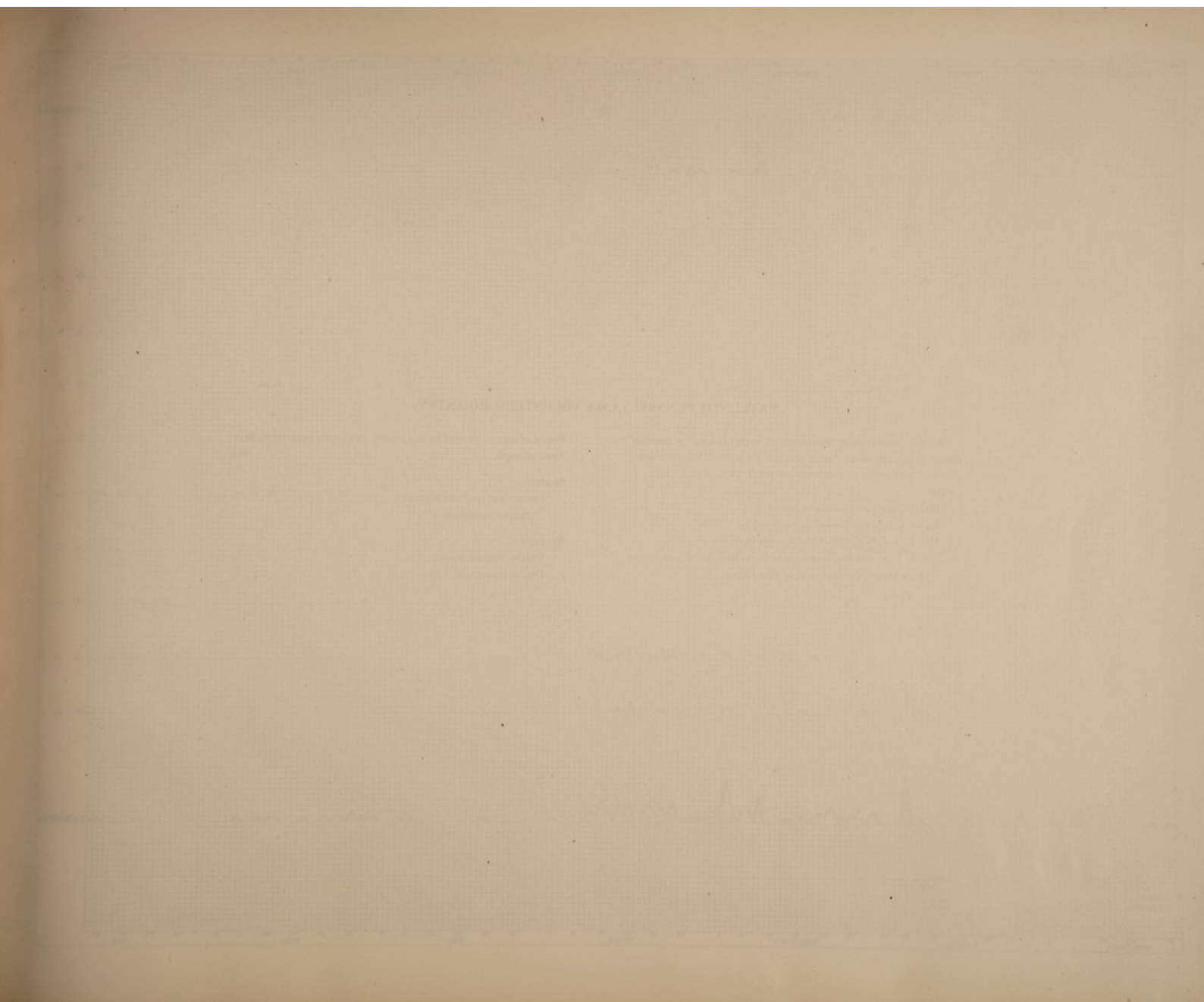


CHART 15
APP. 11





SIXTEENTH PENNSYLVANIA VOLUNTEER INFANTRY.

Chart 17, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 28.)

Camps:

May 10, 1898, two battalions mustered in.
 July 18, 1898, third battalion mustered in.
 May 17 to July 6, 1898, Chickamauga Park, Ga.
 July 6, 1898, first two battalions to Porto Rico, third battalion to Camp Meade, Pa., and later to Porto Rico.

Period of service covered by this report, six months twenty-two days.

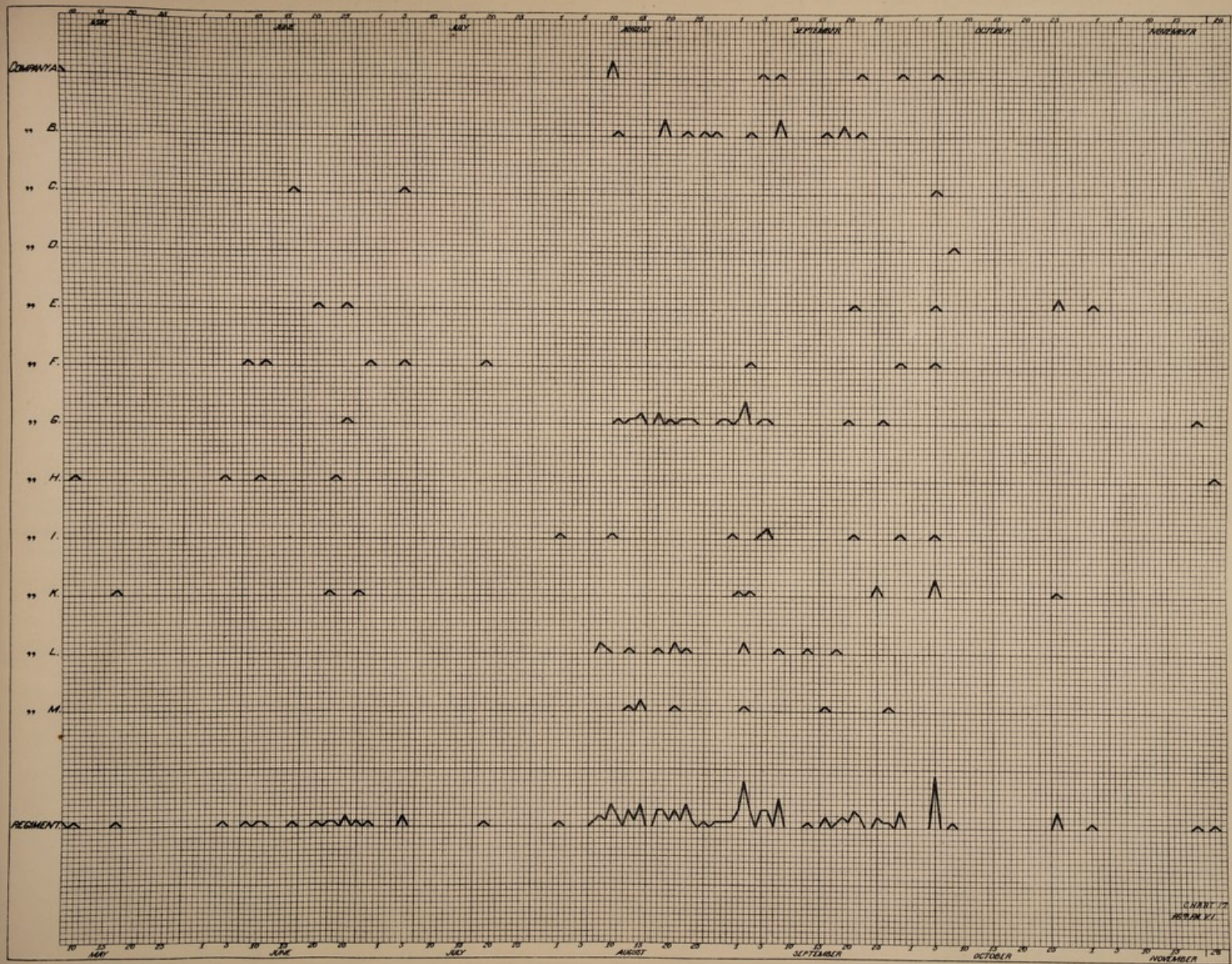
Mean strength..... 865

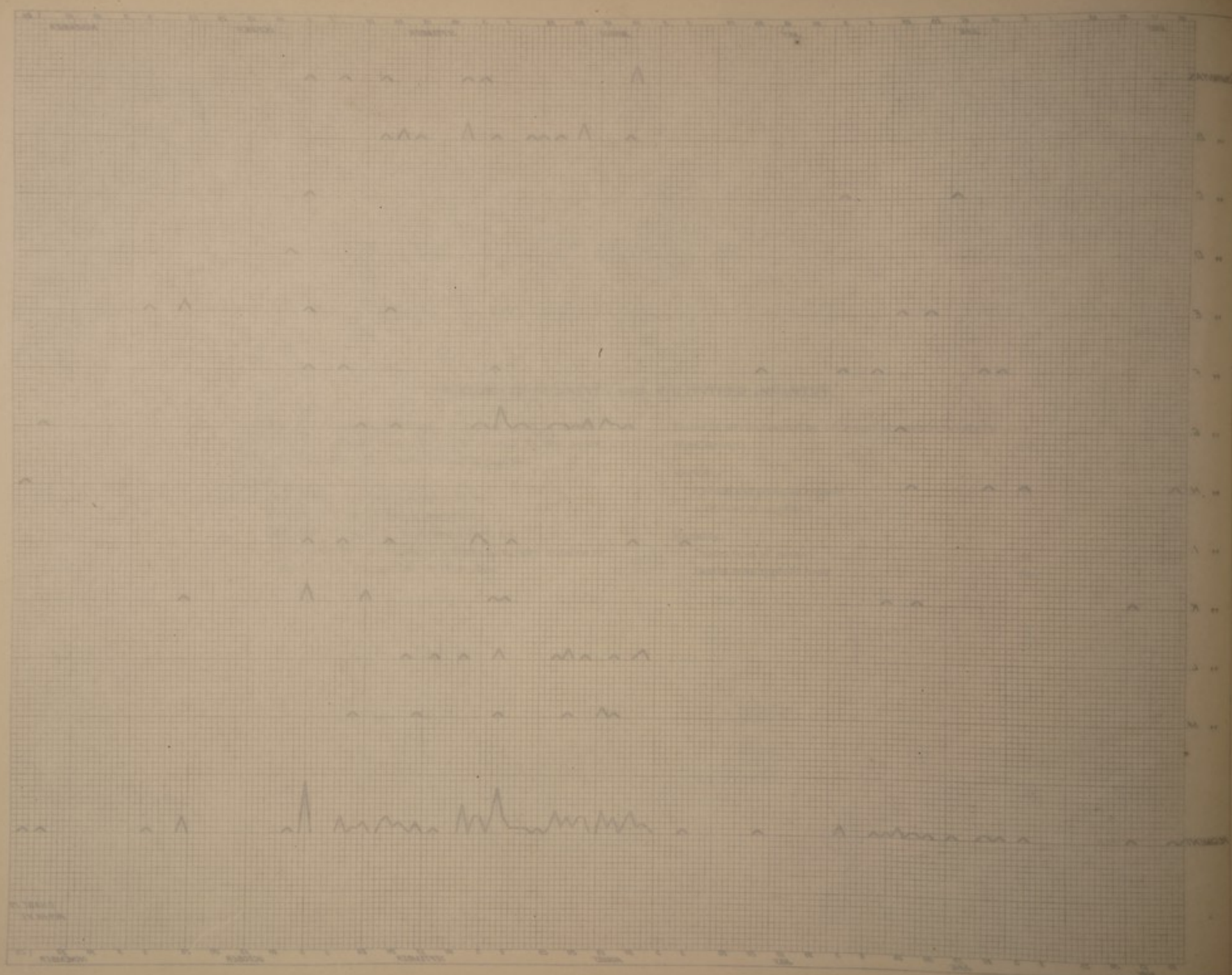
Morbidity:

Certain and probable typhoid 118
 (Record incomplete.)

Mortality:

Deaths from all causes..... 41
 Deaths from typhoid fever..... 34





SECOND WISCONSIN VOLUNTEER INFANTRY.

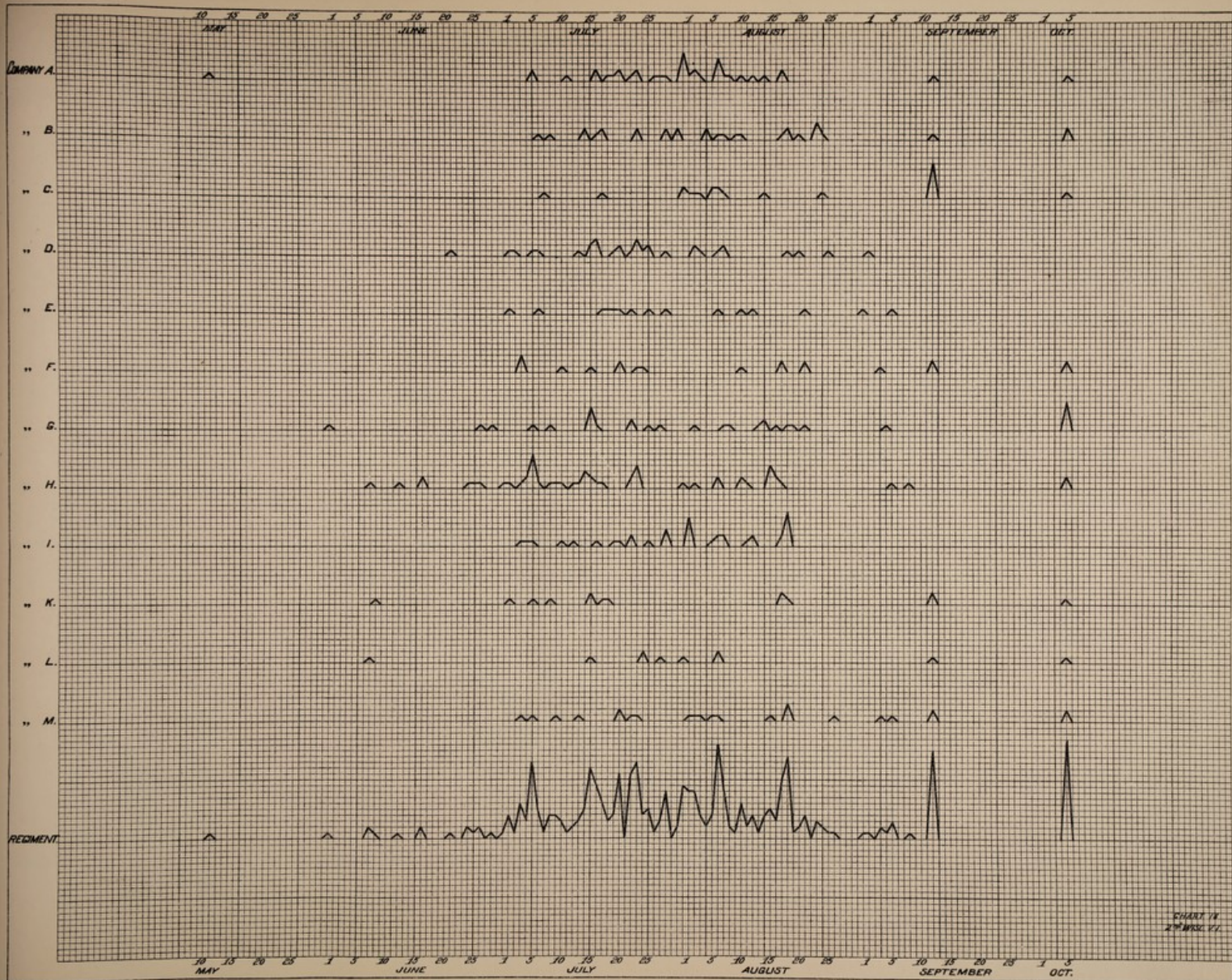
Chart 18, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 32.)

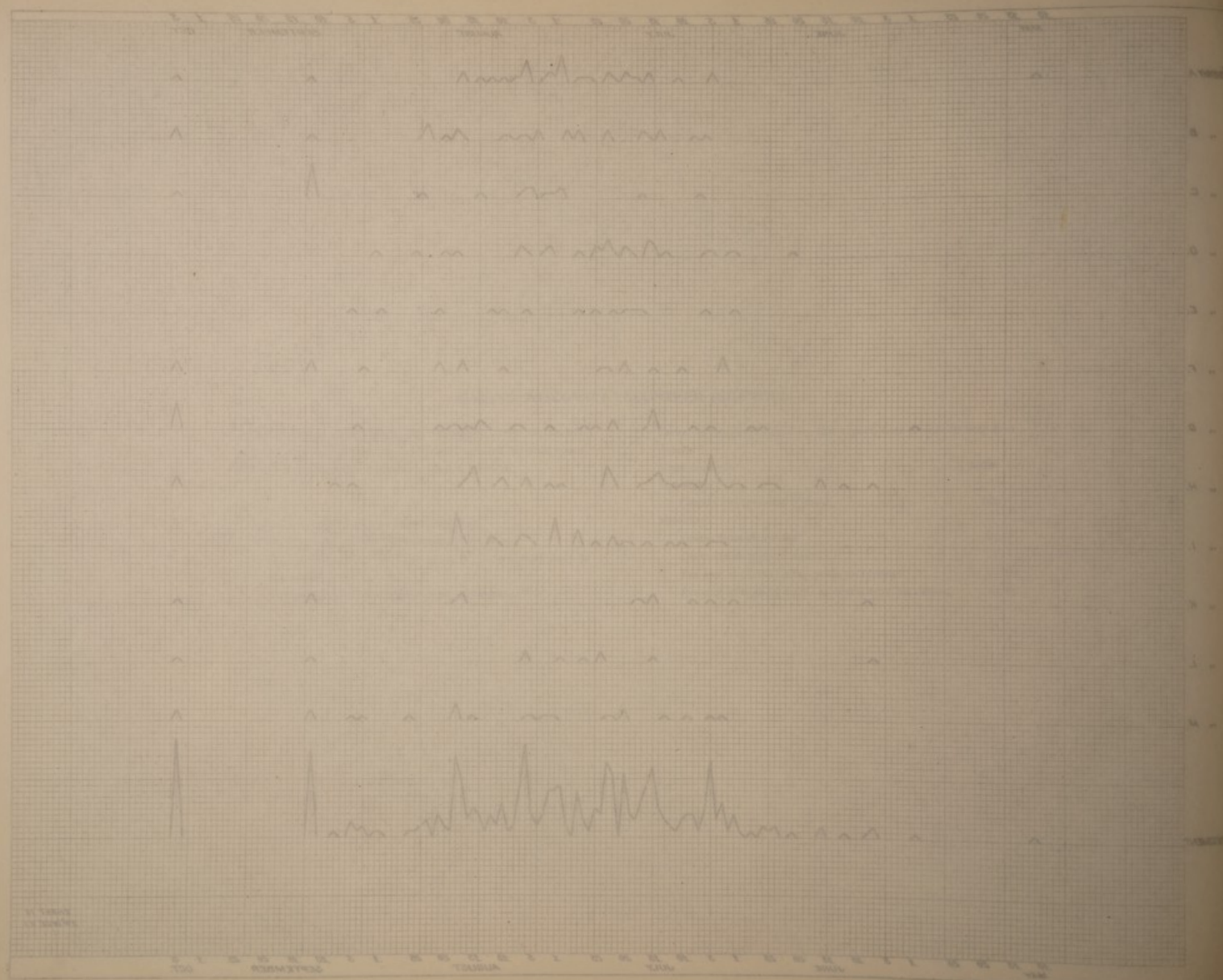
Camps:

April 28 to May 14, 1898, Milwaukee, Wis.
May 17 to July 6, 1898, Chickamauga Park, Ga.
July 7 to July 20, 1898, Charleston, S. C.; regiment went to Porto Rico.
November 9 to 21, 1898, mustered out, Milwaukee, Wis.

Period of service covered by this report, four months twenty-four days.

Mean strength.....	1,326
Morbidity:	
Certain and probable typhoid	329
Mortality:	
Deaths from all causes	41
Deaths from typhoid fever	27
Per cent of deaths among probable typhoid	8.20
Per cent of typhoid deaths to deaths from all causes...	65.85







ONE HUNDRED AND FIFTY-EIGHTH INDIANA VOLUNTEER INFANTRY.

Chart 19, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 62.)

Camps:

May 10 to May 16, 1898, Indianapolis, Ind.
 May 18 to August 25, 1898, Chickamauga Park, Ga.
 August 26 to September 12, 1898, Knoxville, Tenn.

Period of service covered by this report, two months nineteen days.

Mean strength..... 1,288

Morbidity:

Certain and probable typhoid 128

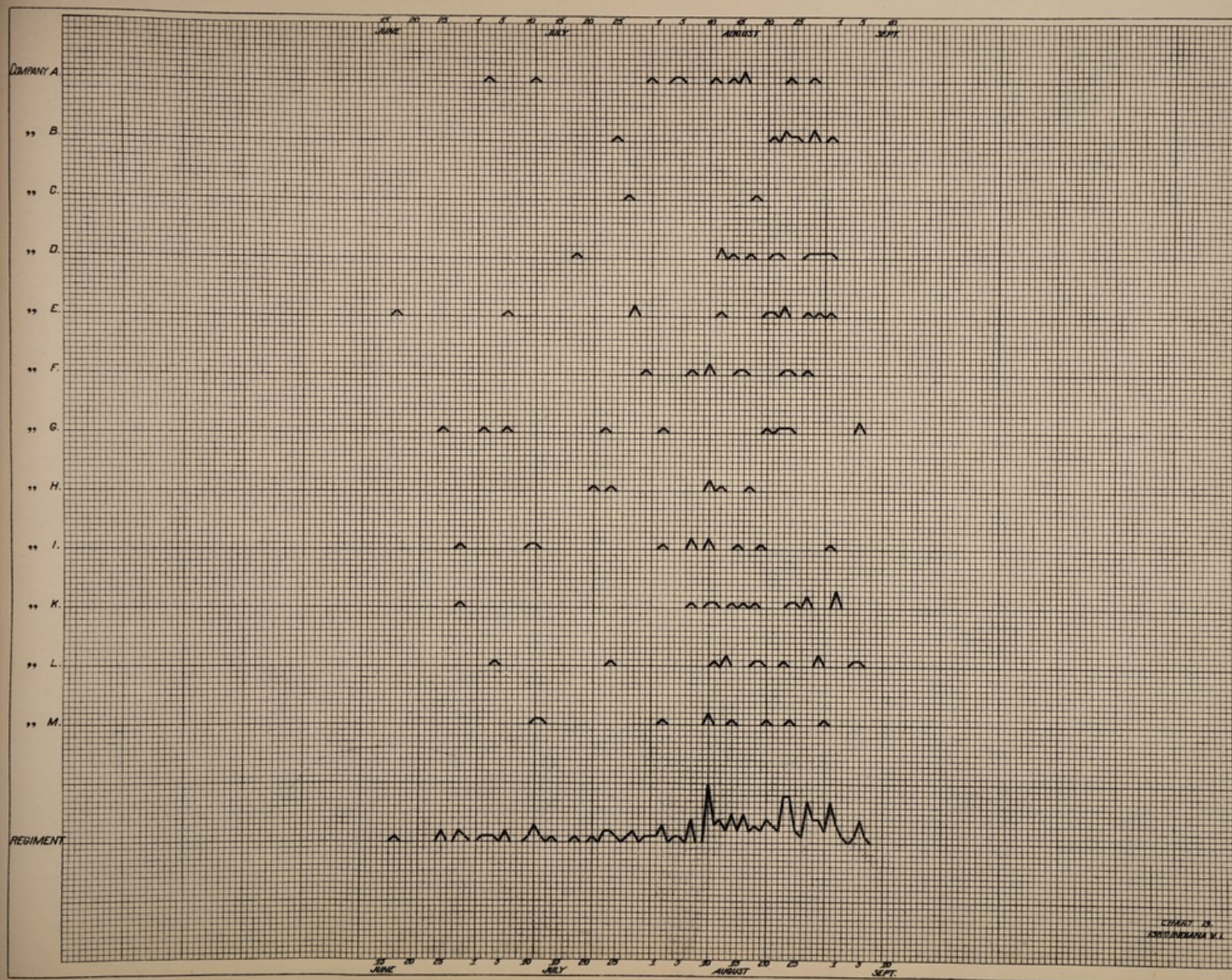
Mortality:

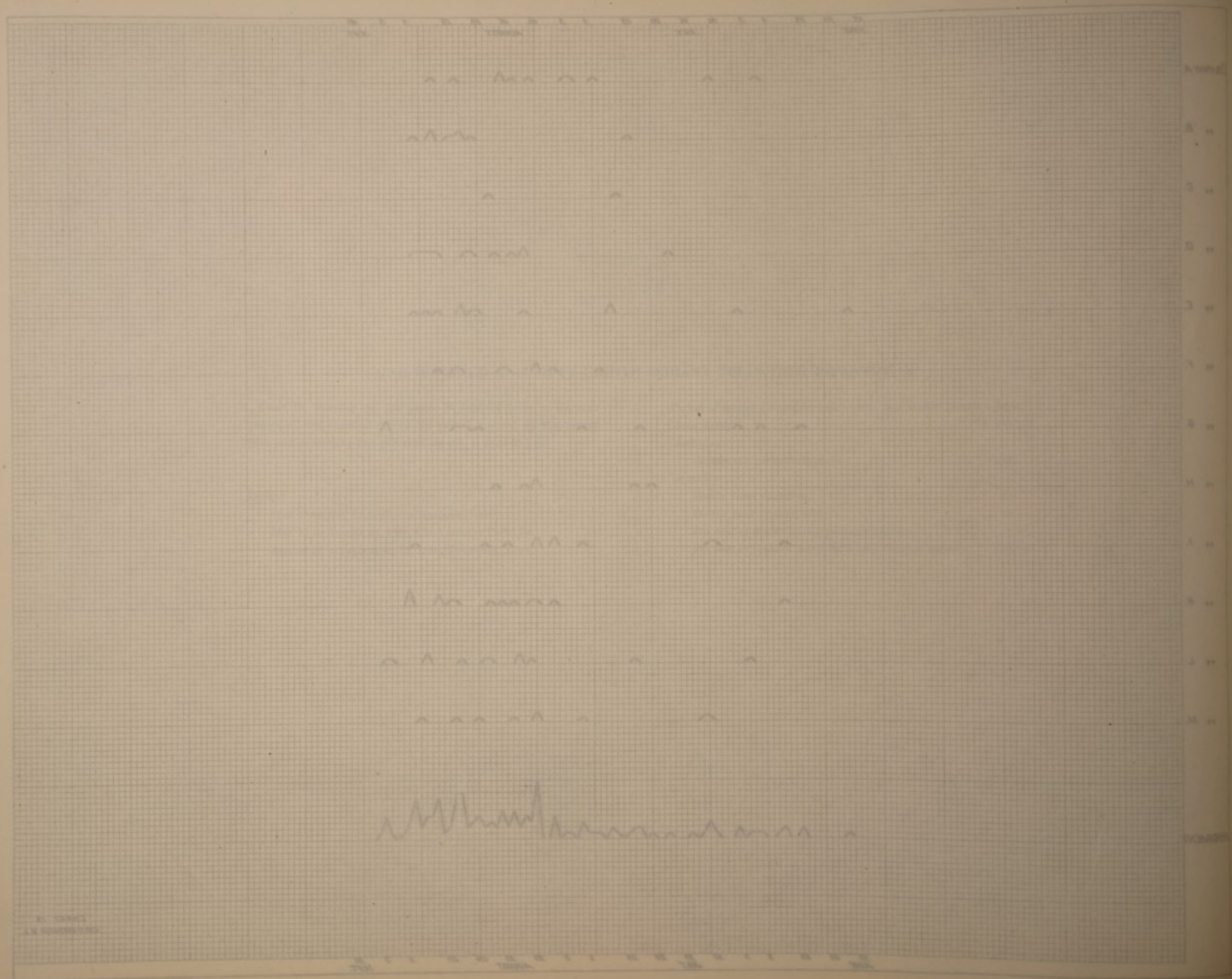
Deaths from all causes 12

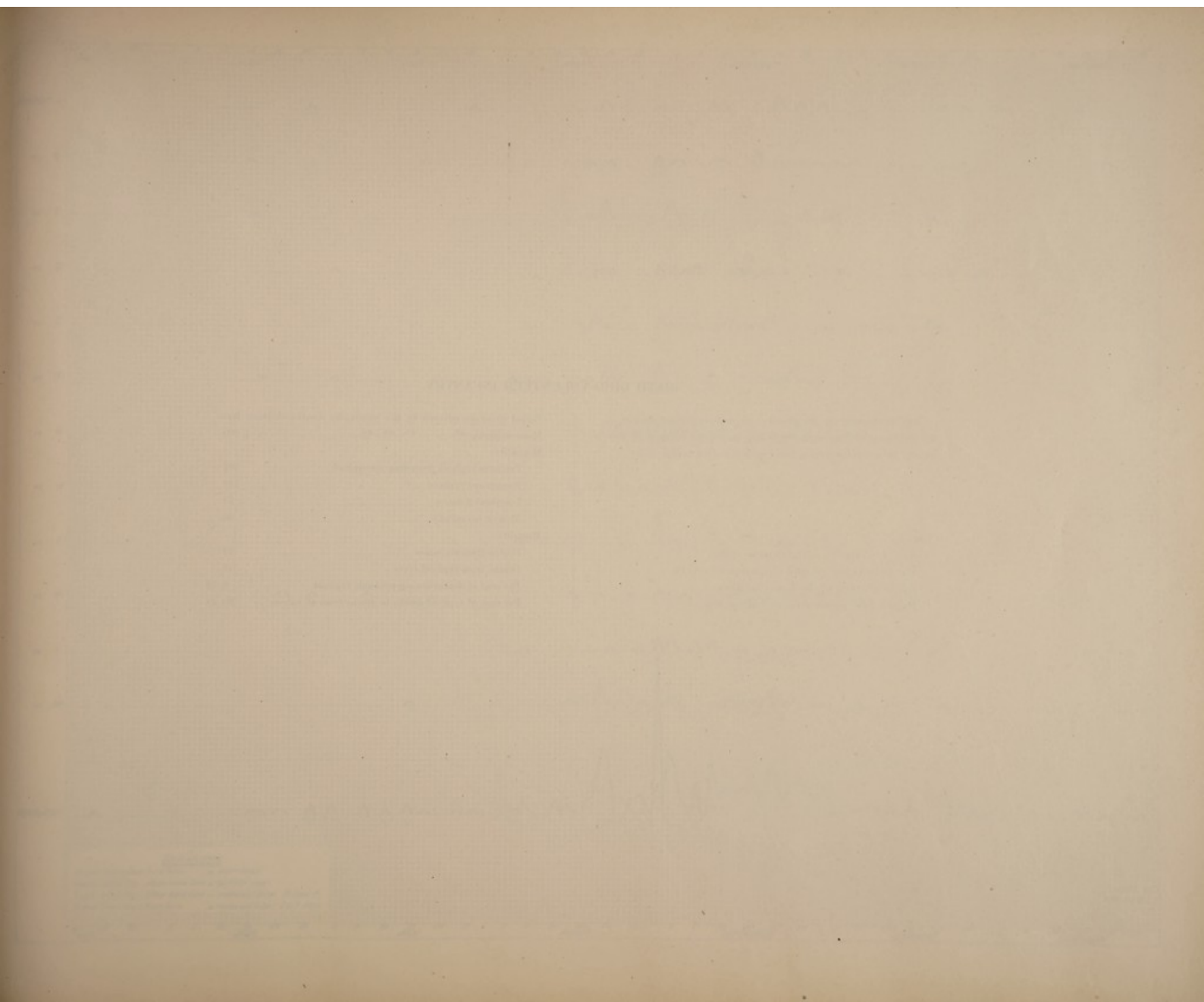
Deaths from typhoid fever..... 10

Per cent of deaths among probable typhoid..... 7.81

Per cent of typhoid deaths to deaths from all causes... 83.33







SIXTH OHIO VOLUNTEER INFANTRY.

Chart 29, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 65.)

Camps:

April 29 to May 15, 1898, Columbus, Ohio.
May 18 to August 27, 1898, Chickamauga Park, Ga.
August 27, 1898, left for Knoxville, Tenn.
May 24, 1899, mustered out at Augusta, Ga.

Period of service covered by this report, six months thirteen days.

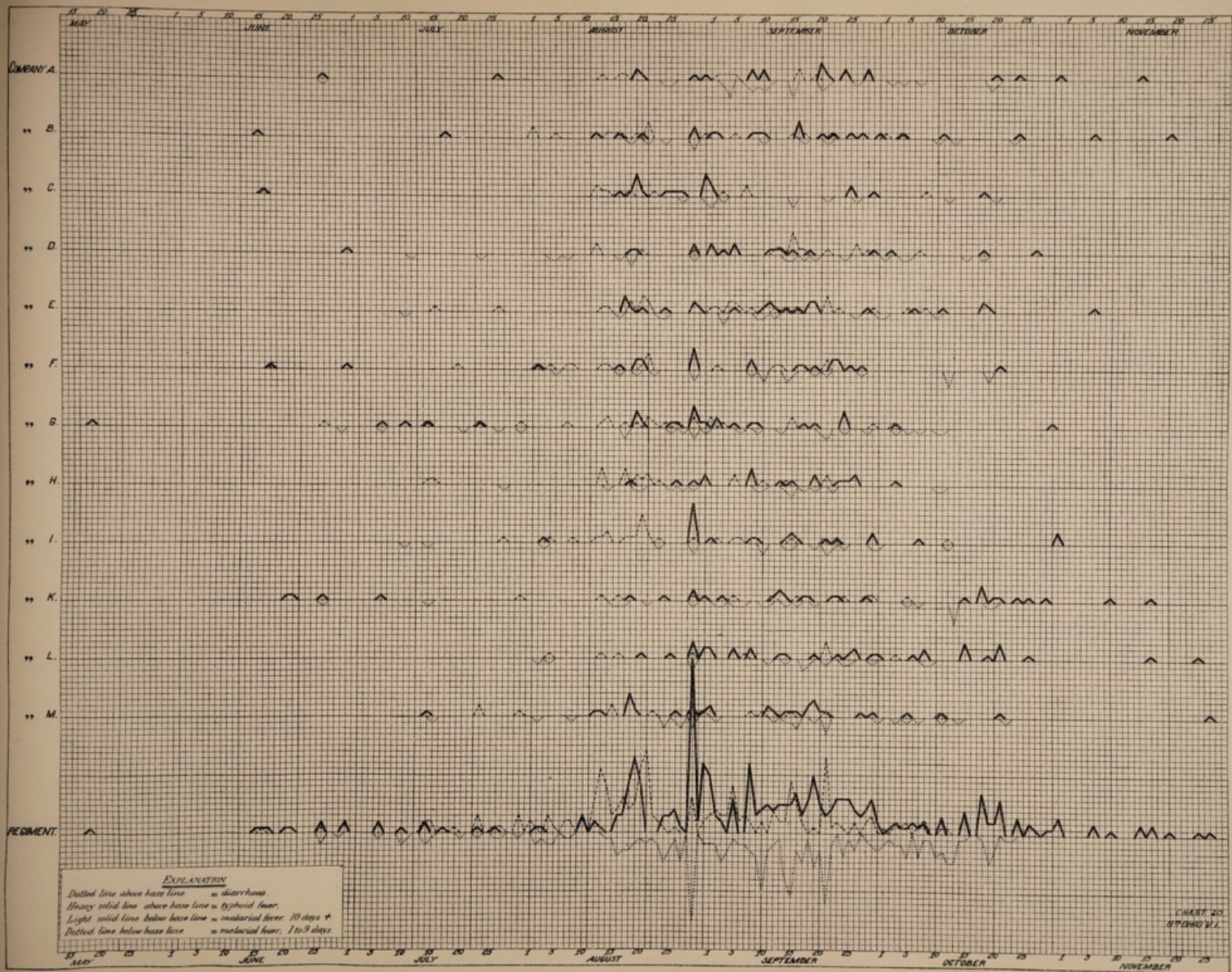
Mean strength..... 1,299

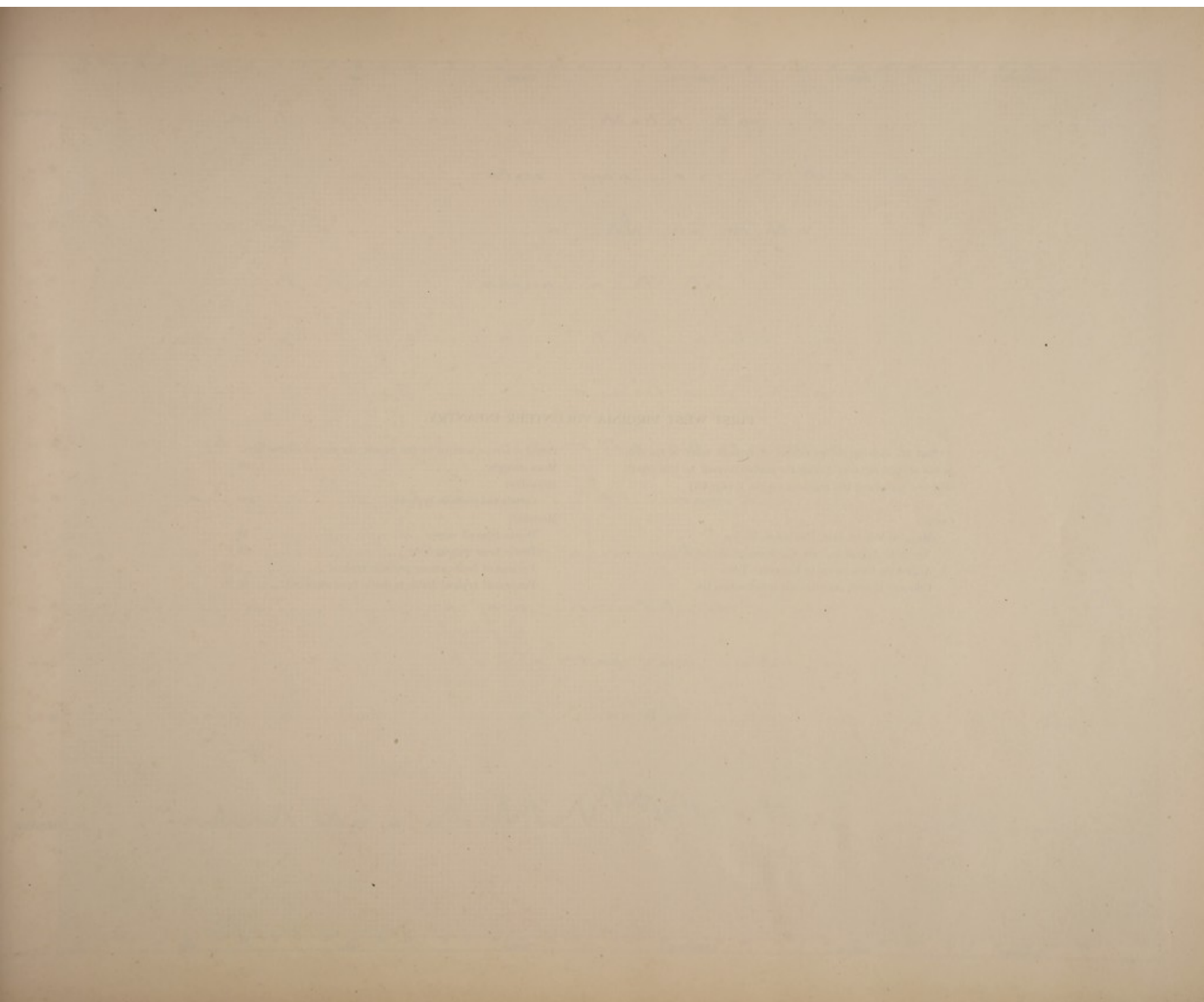
Morbidity:

Probable typhoid, including recognized 291
Recognized typhoid 148
Diarrheal diseases 57
Malaria (so called) 86

Mortality:

Deaths from all causes..... 21
Deaths from typhoid fever..... 19
Per cent of deaths among probable typhoid 6.52
Per cent of typhoid deaths to deaths from all causes... 90.48





FIRST WEST VIRGINIA VOLUNTEER INFANTRY.

Chart 21, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 74.)

Camps:

May 7 to May 19, 1898, Charleston, W. Va.
May 20 to August 26, 1898, Chickamauga Park, Ga.
August 26, 1898, moved to Knoxville, Tenn.
February 4, 1899, mustered out at Columbus, Ga.

Period of service covered by this report, six months sixteen days.

Mean strength..... 1,298

Morbidity:

Certain and probable typhoid 260

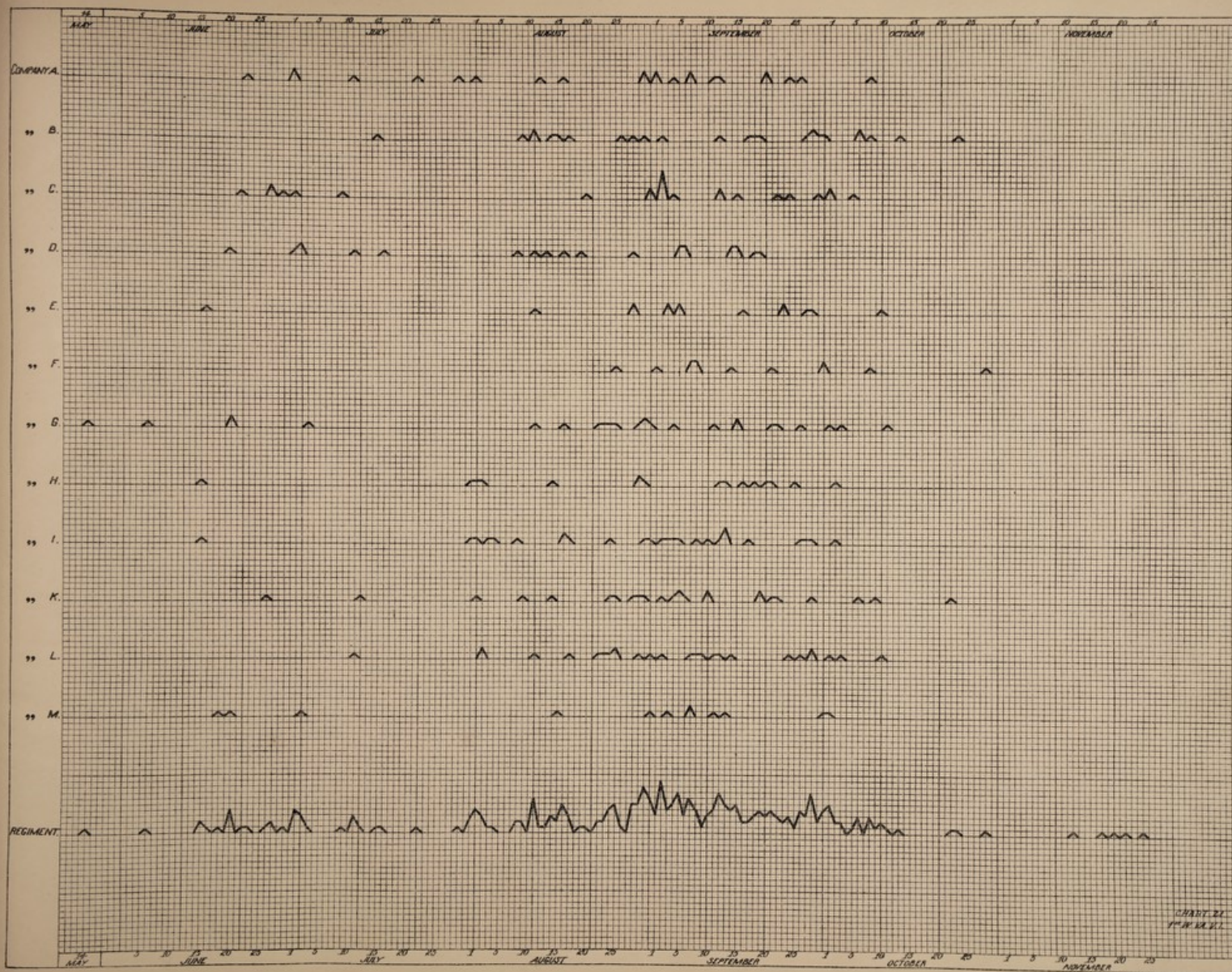
Mortality:

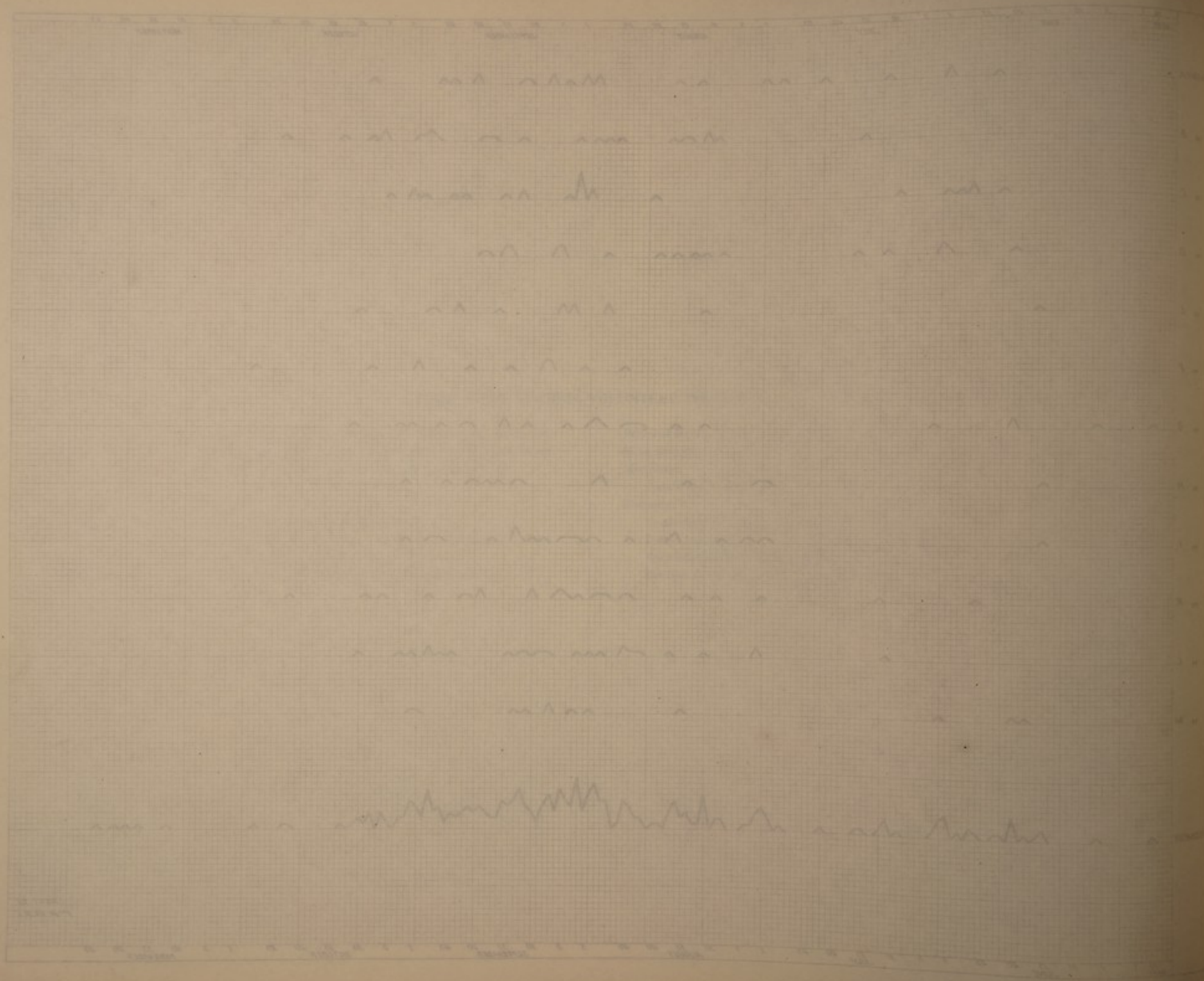
Deaths from all causes 15

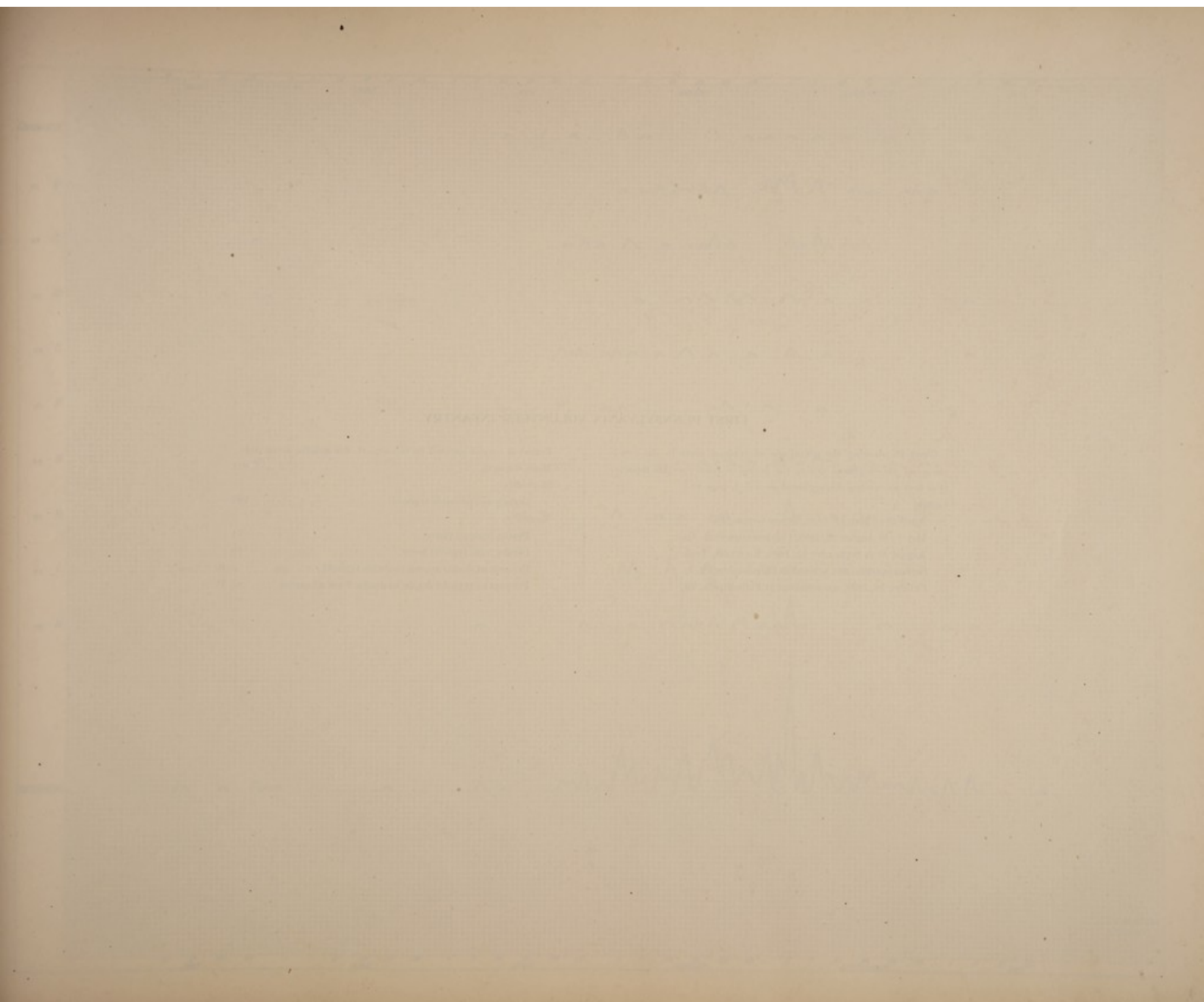
Deaths from typhoid fever..... 12

Per cent of deaths among probable typhoid..... 4.61

Per cent of typhoid deaths to deaths from all causes... 80.00







FIRST PENNSYLVANIA VOLUNTEER INFANTRY.

Chart 22, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 88.)

Camps:

April 28 to May 11, 1898, Mount Gretna, Pa.
May 18 to August 29, 1898, Chickamauga Park, Ga.
August 30 to September 15, 1898, Knoxville, Tenn.
September 16, 1898, arrived at Philadelphia, Pa.
October 26, 1898, mustered out at Philadelphia, Pa.

Period of service covered by this report, five months seven days.

Mean strength..... 1,071

Morbidity:

Certain and probable typhoid..... 222

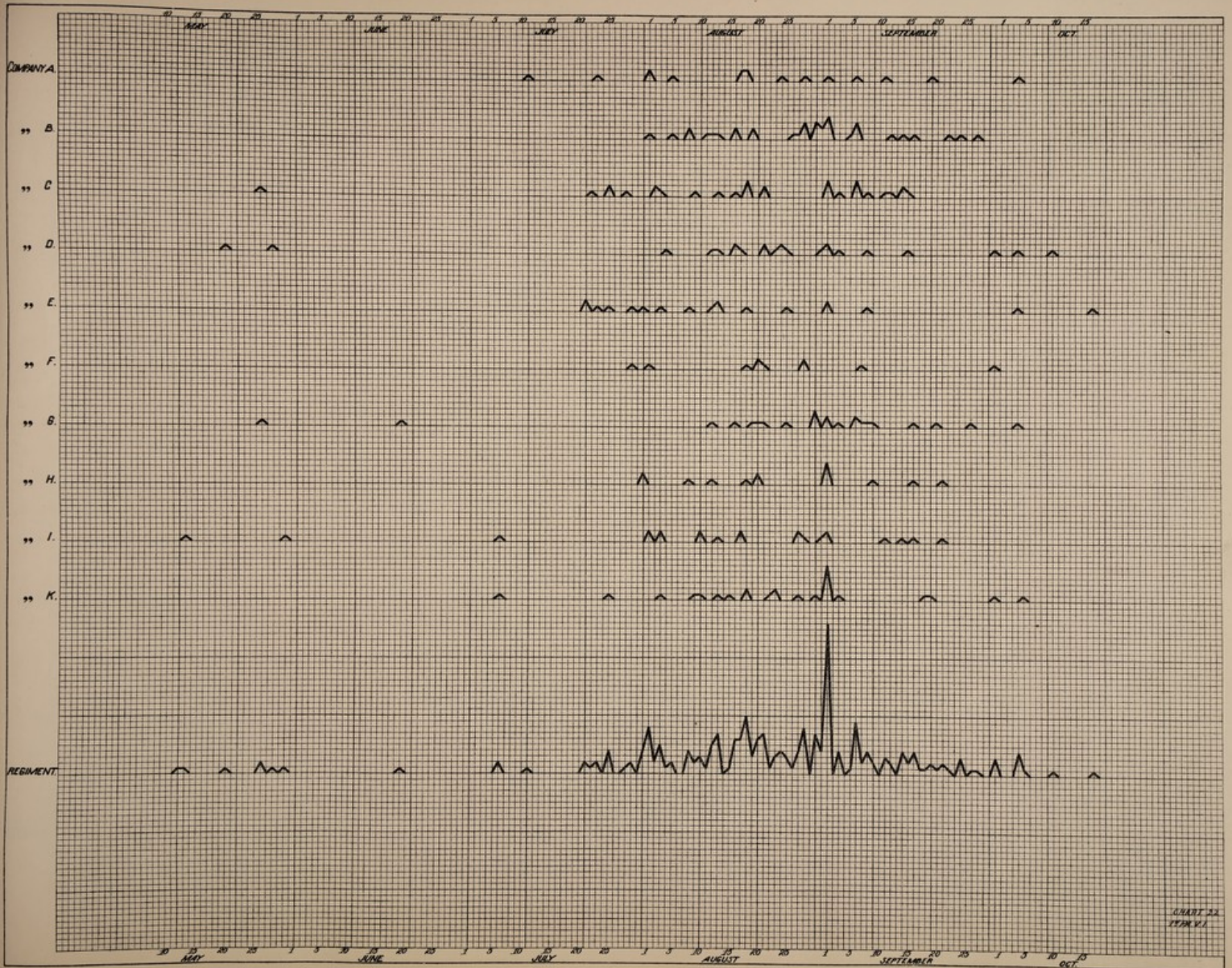
Mortality:

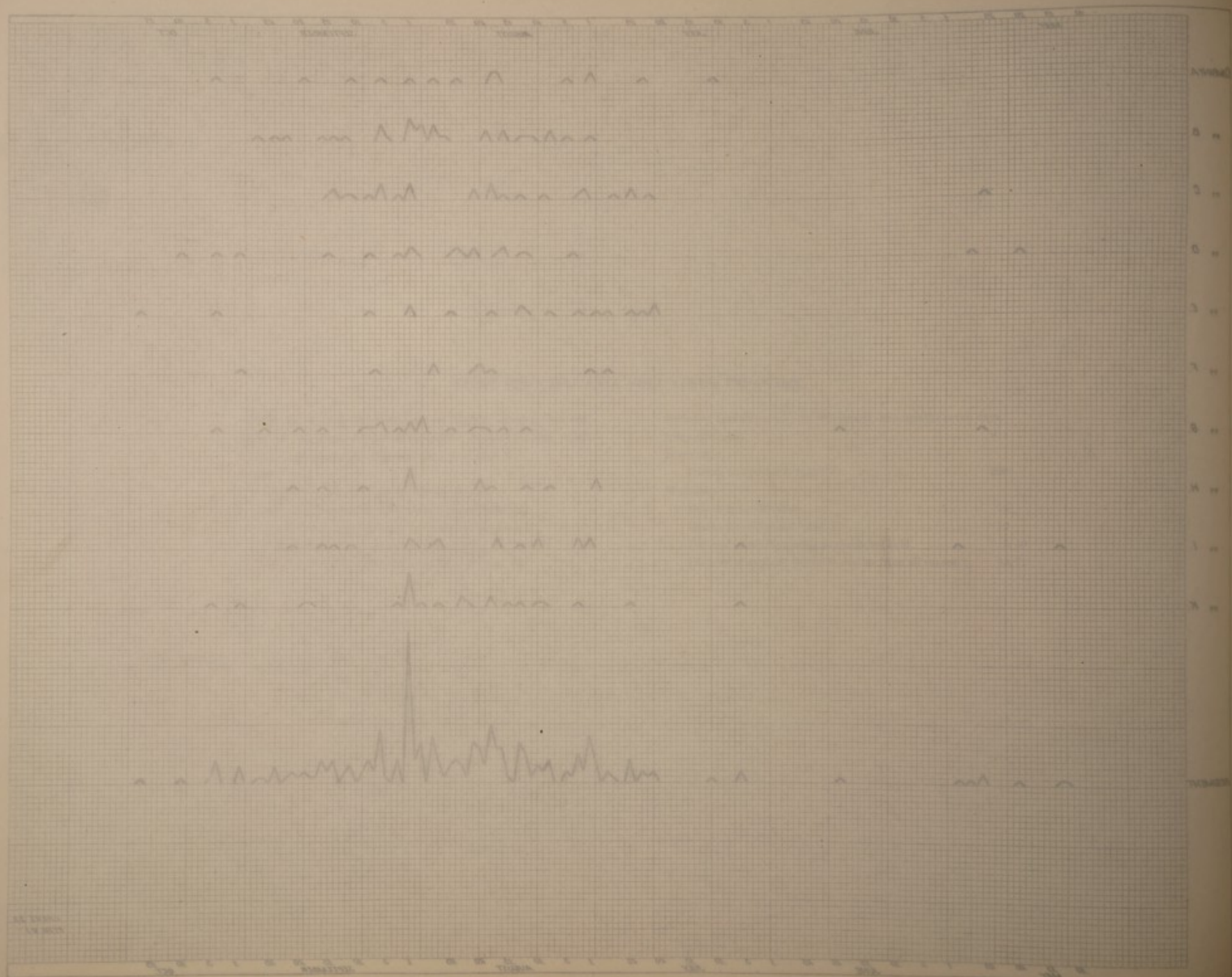
Deaths from all causes..... 14

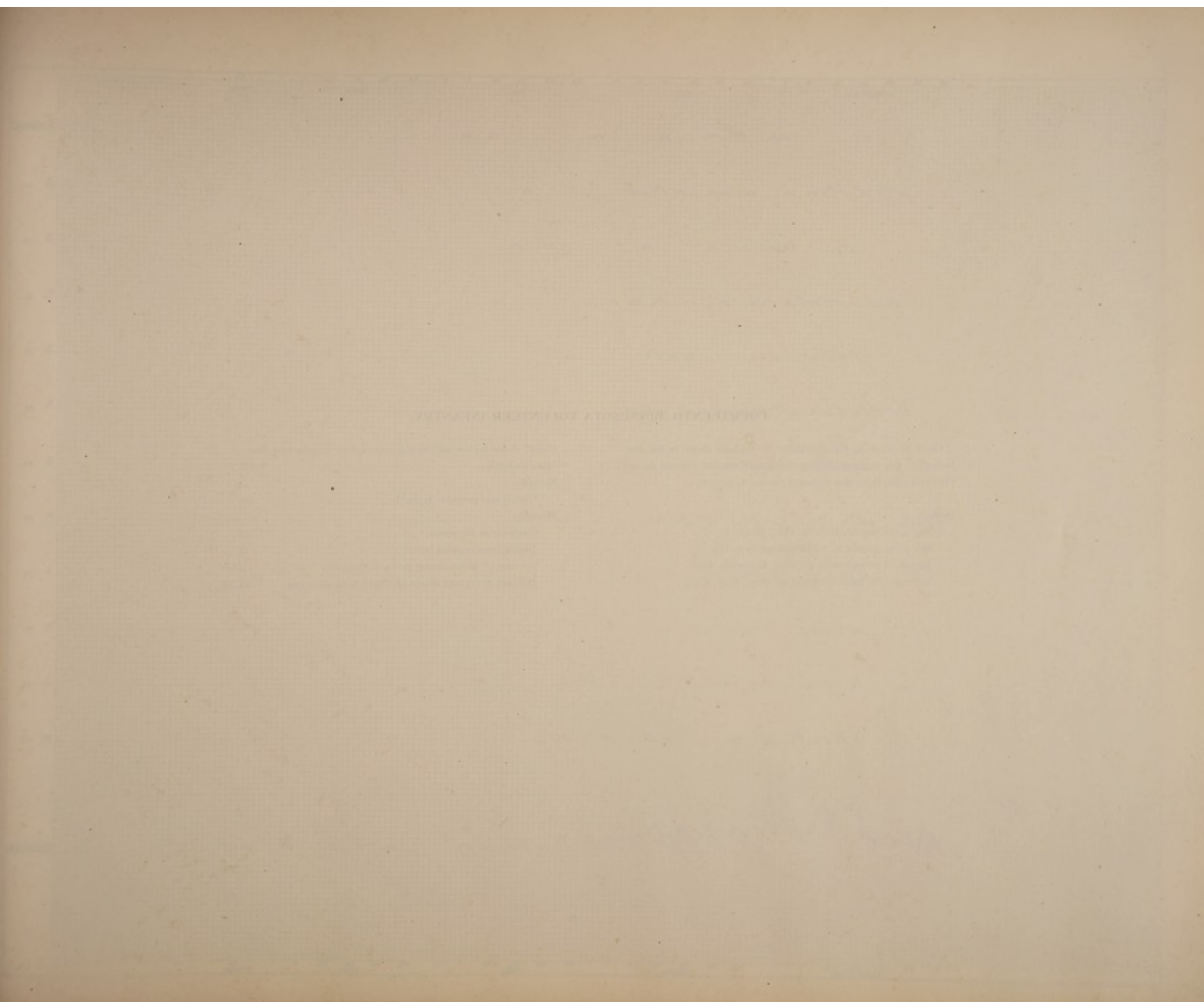
Deaths from typhoid fever..... 12

Per cent of deaths among probable typhoid. 5.40

Per cent of typhoid deaths to deaths from all causes... 85.71







FOURTEENTH MINNESOTA VOLUNTEER INFANTRY.

Chart 23, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 94.)

Camps:

May 10 to May 15, 1898, St. Paul, Minn.
May 18 to August 29, Chickamauga Park, Ga.
August 30 to September 20, 1898, Knoxville, Tenn.
November 18, 1898, mustered out at St. Paul, Minn.

Period of service covered by this report, four months four days.

Mean strength..... 1,277

Morbidity:

Certain and probable typhoid 286

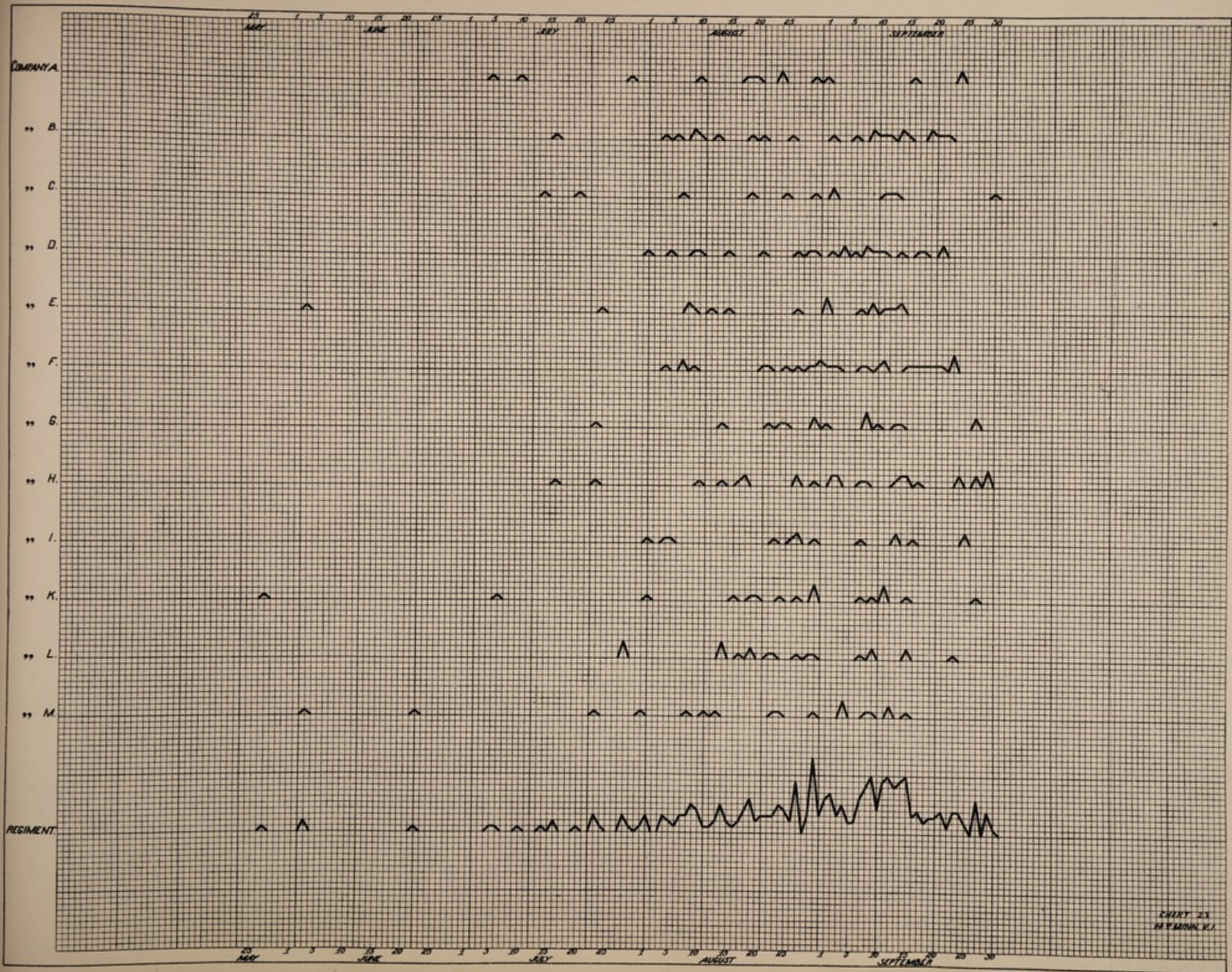
Mortality:

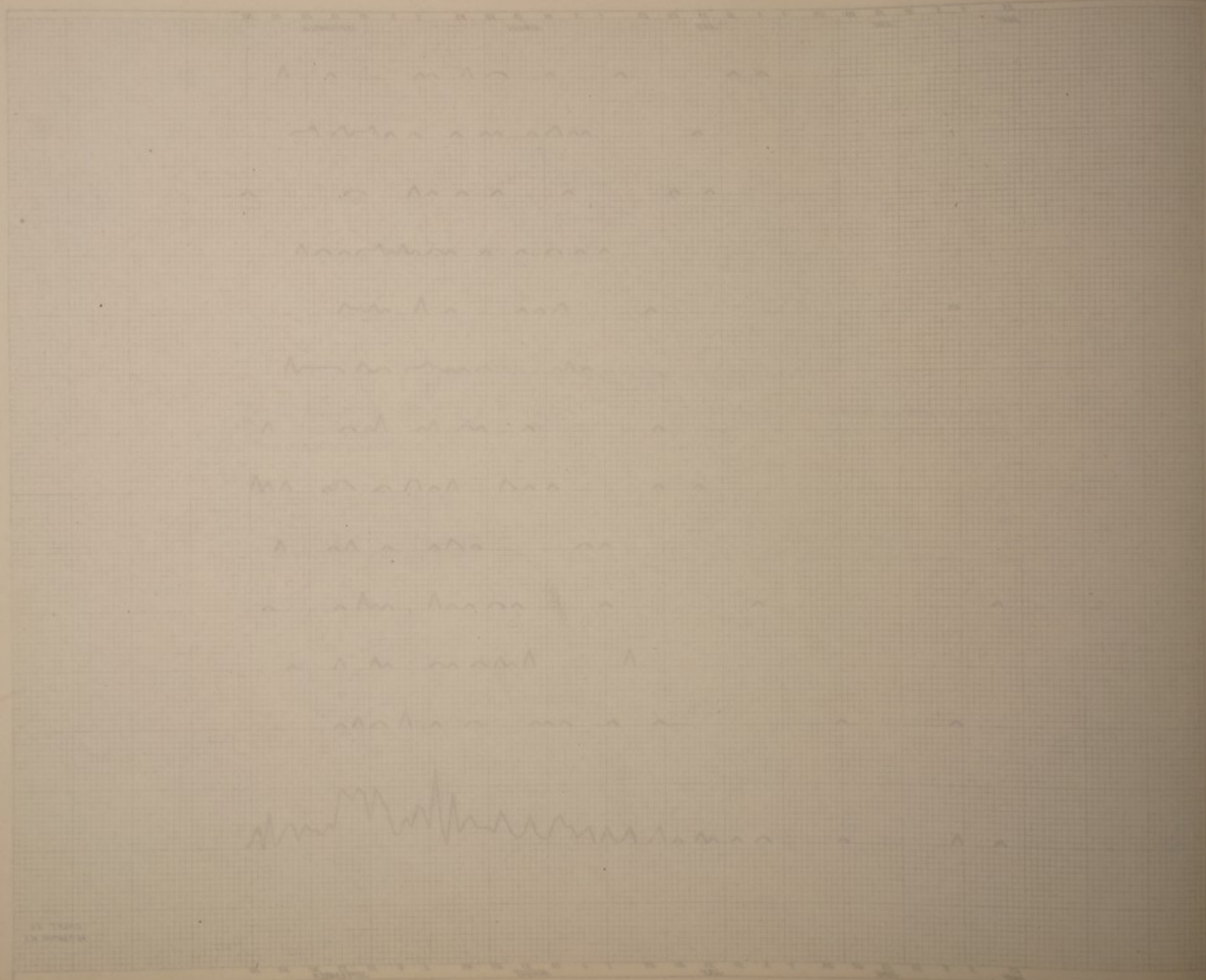
Deaths from all causes..... 13

Deaths from typhoid fever..... 12

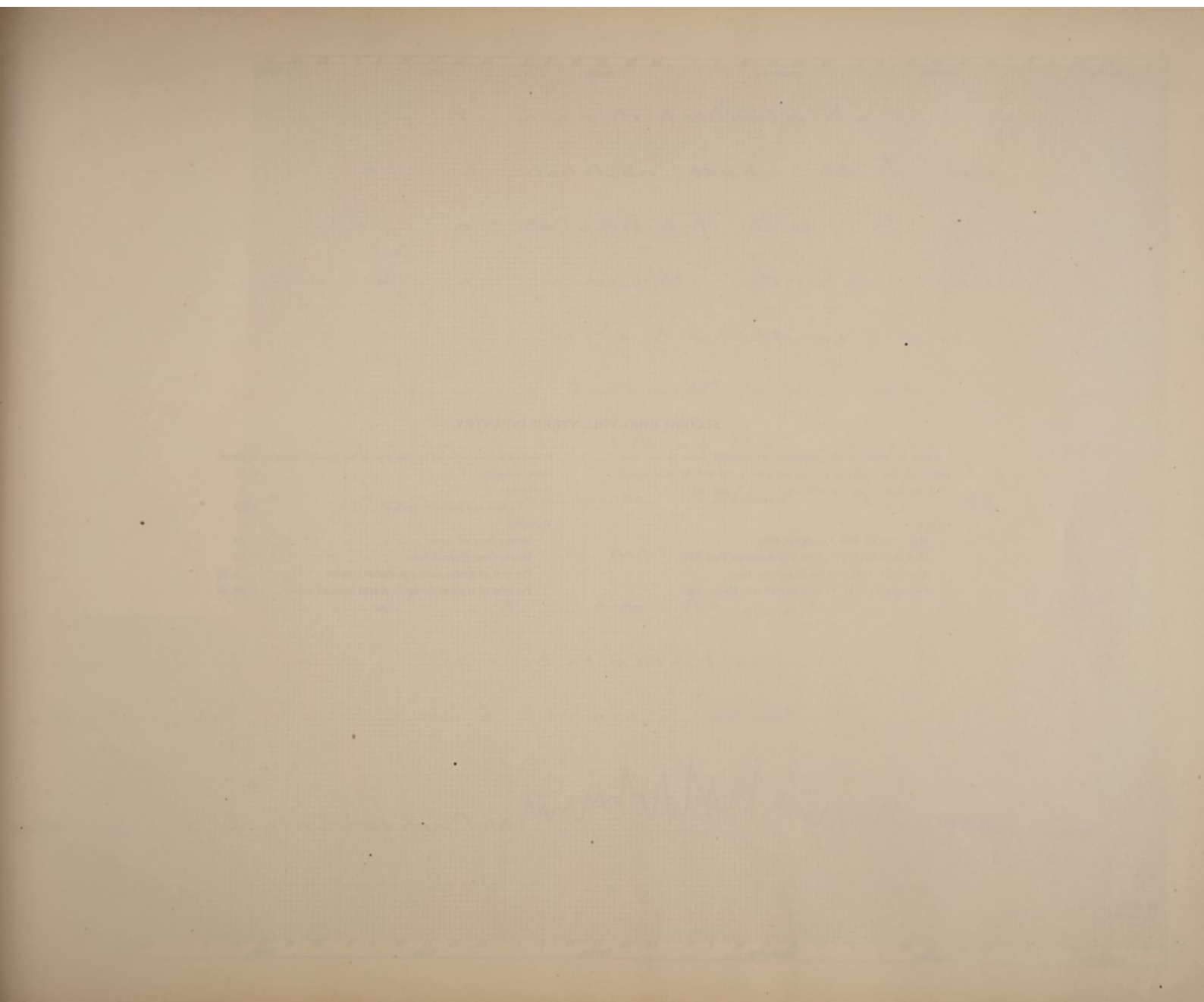
Per cent of deaths among probable typhoid..... 4.19

Per cent of typhoid deaths to deaths from all causes... 91.54





1000
10000



SECOND OHIO VOLUNTEER INFANTRY.

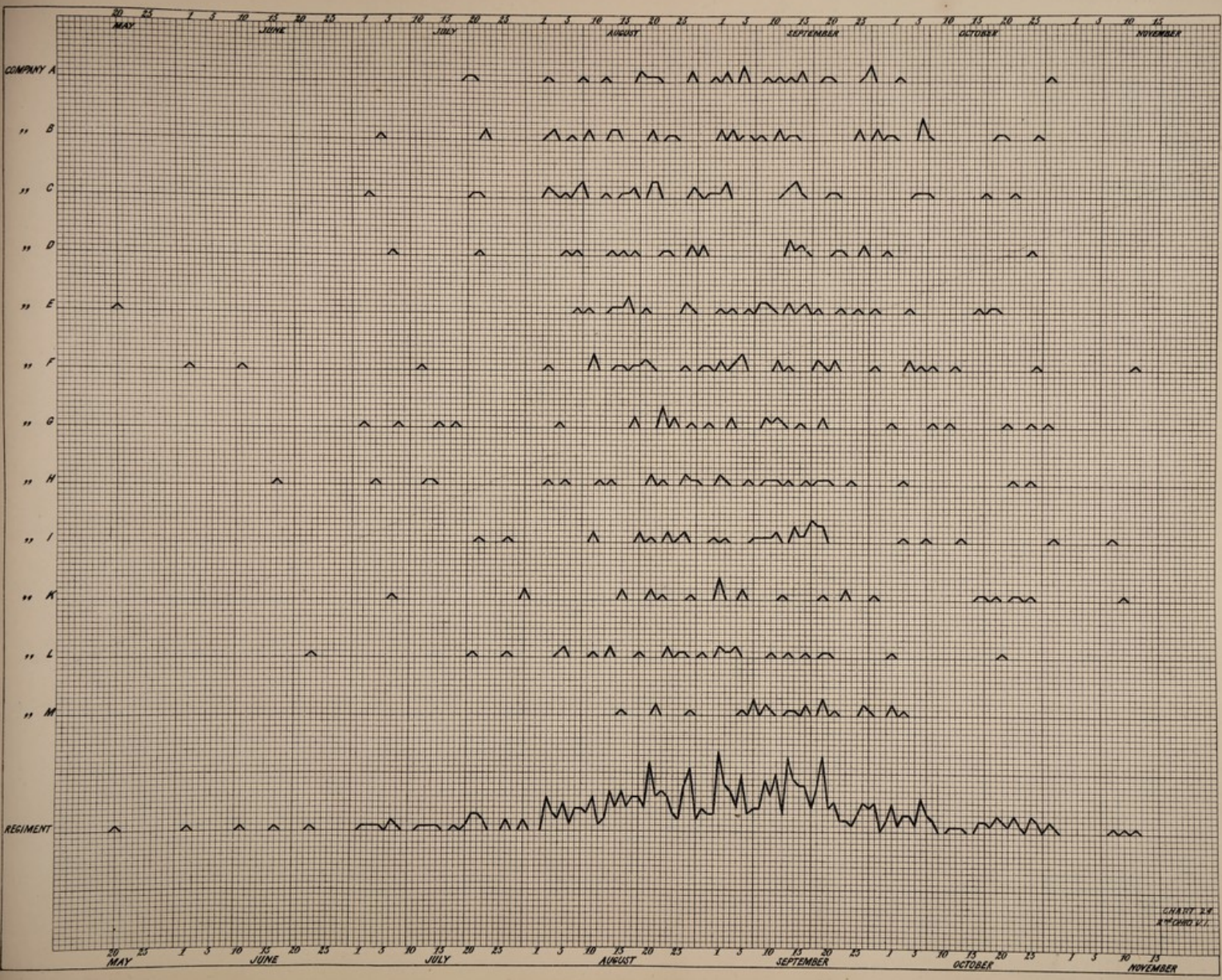
Chart 24, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 96.)

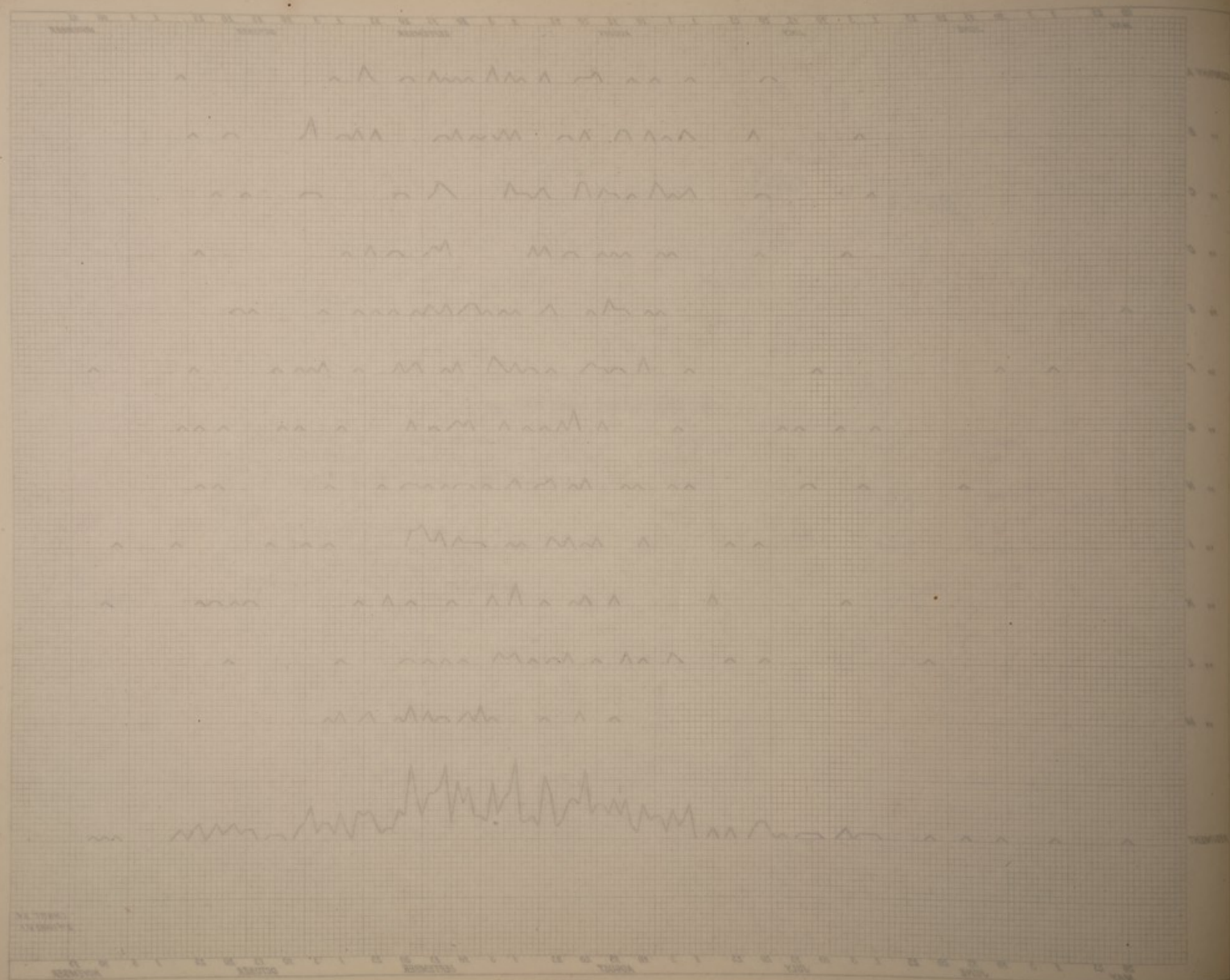
Camps:

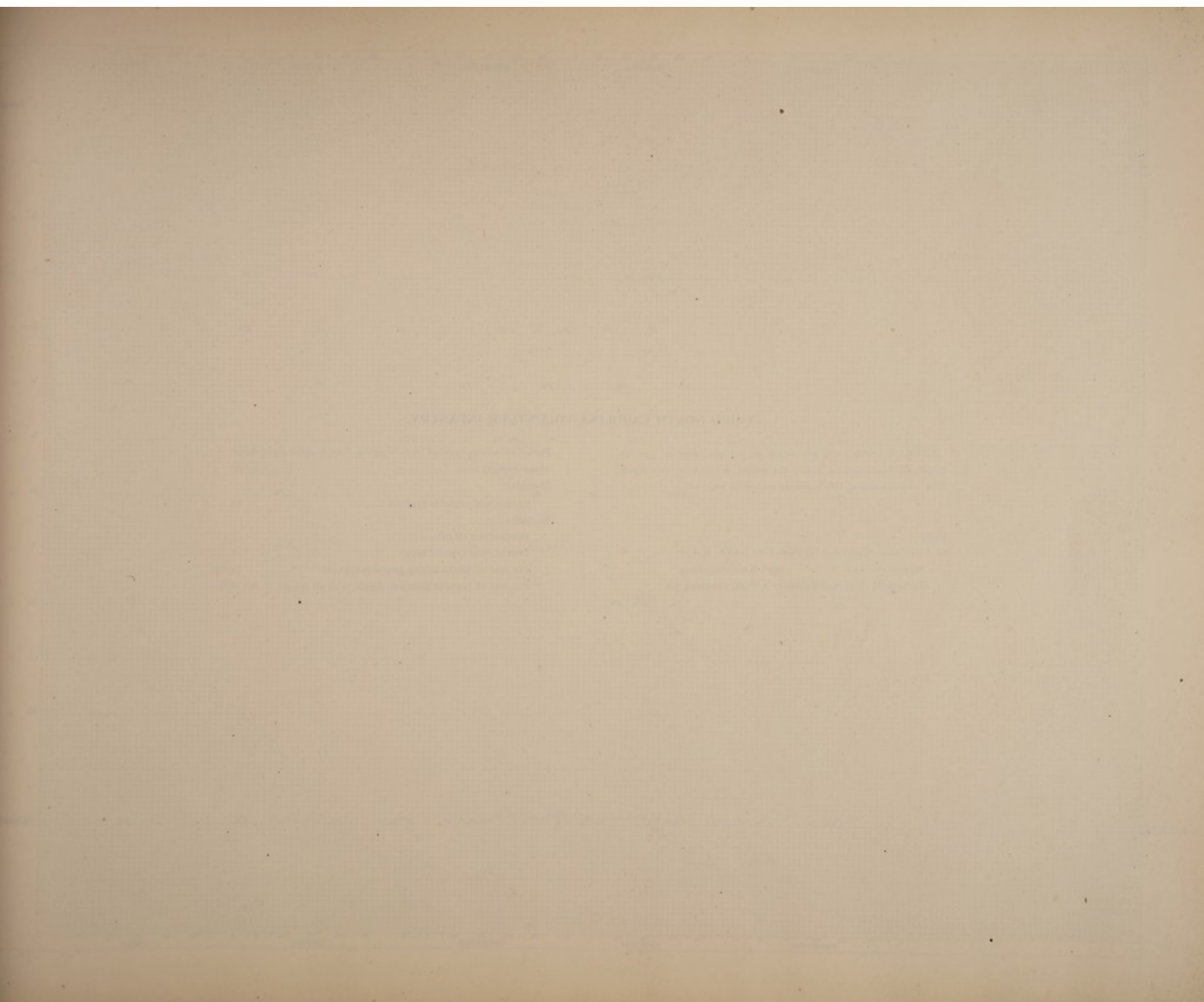
May 10 to 16, 1898, Columbus, Ohio.
May 18 to August 28, 1898, Chickamauga Park, Ga.
August 28, 1898, left for Knoxville, Tenn.
February 10 to 15, 1899, mustered out, Mason, Ga.

Period of service covered by this report, five months twenty-one days.

Mean strength.....	1,297
Morbidity:	
Certain and probable typhoid	403
Mortality:	
Deaths from all causes.....	14
Deaths from typhoid fever.....	13
Per cent of deaths among probable typhoid.....	3.22
Per cent of typhoid deaths to deaths from all causes ...	92.85







THIRD NORTH CAROLINA VOLUNTEER INFANTRY.

Chart 25, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 103.)

Camps:

May 12 to September 14, 1898, Fort Macon, N. C.
September 14 to ———, 1898, Knoxville, Tenn.
January 31, 1898, and February 8, 1899, mustered out.

Period of service covered by this report, four months eight days.

Mean strength 1,090

Morbidity:

Certain and probable typhoid 58

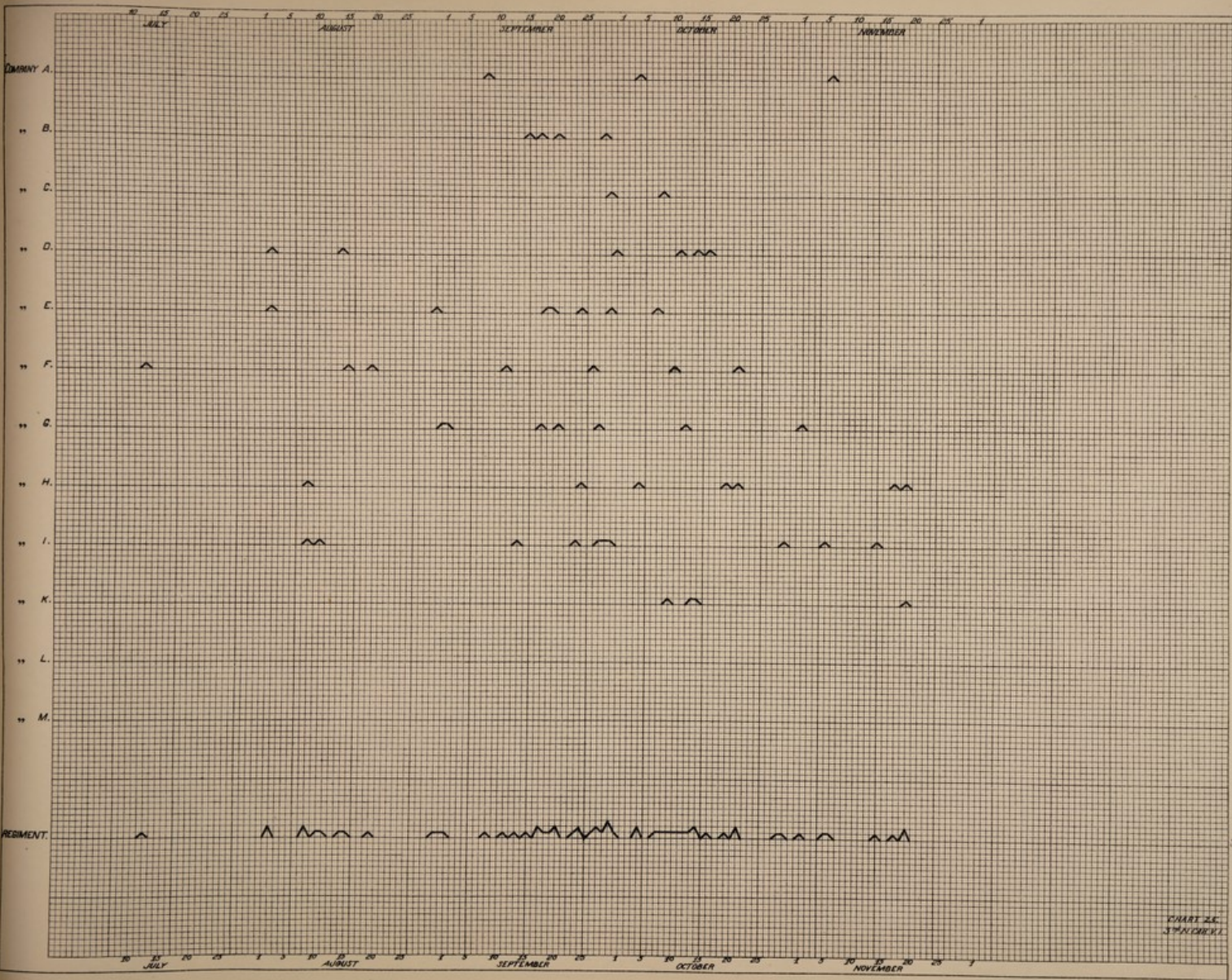
Mortality:

Deaths from all causes 7

Deaths from typhoid fever 7

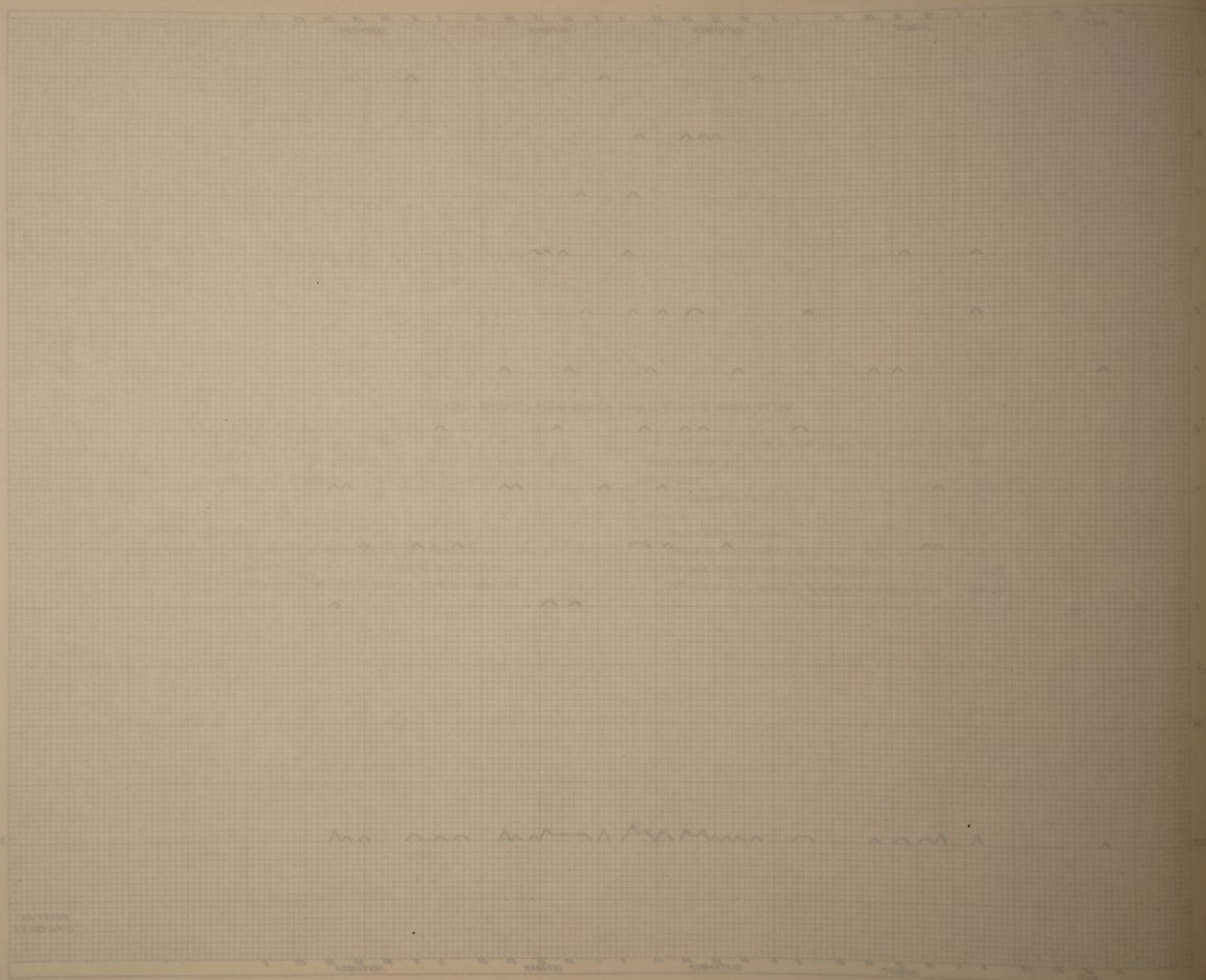
Per cent of deaths among probable typhoid 12.07

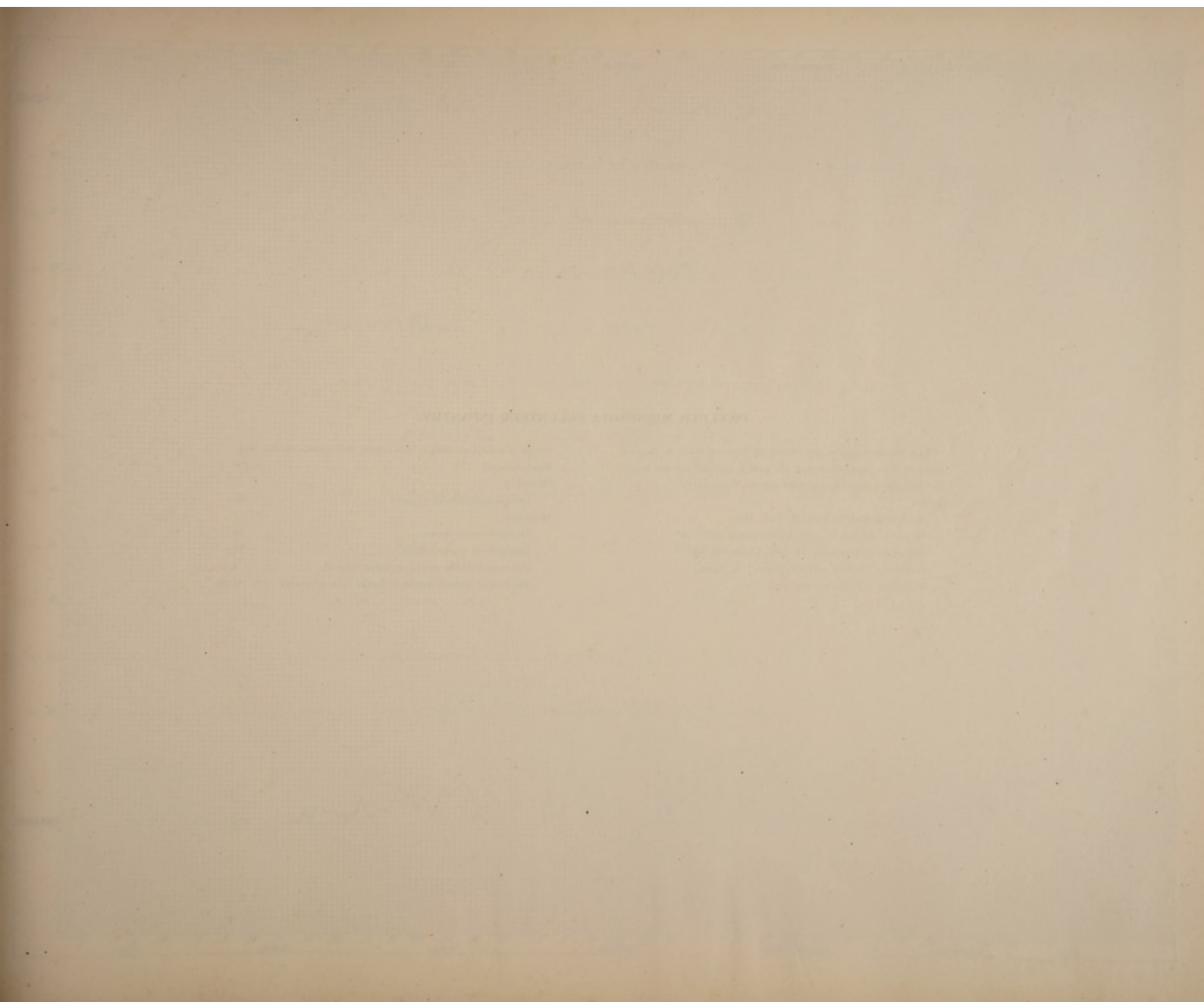
Per cent of typhoid deaths to deaths from all causes ... 100.00



3rd N. Co.

CHART 26.
3rd N. Co.





TWELFTH MINNESOTA VOLUNTEER INFANTRY.

Chart 26, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 113.)

Camps:

April 29 to May 17, 1898, St. Paul, Minn.
May 20 to August 23, 1898, Chickamauga Park, Ga.
August 25 to September 15, 1898, Lexington, Ky.
September 17, 1898, arrived at New Ulm, Minn.
November 5, 1898, mustered out.

Period of service covered by this report, five months twelve days.

Mean strength..... 1,299

Morbidity:

Certain and probable typhoid 433

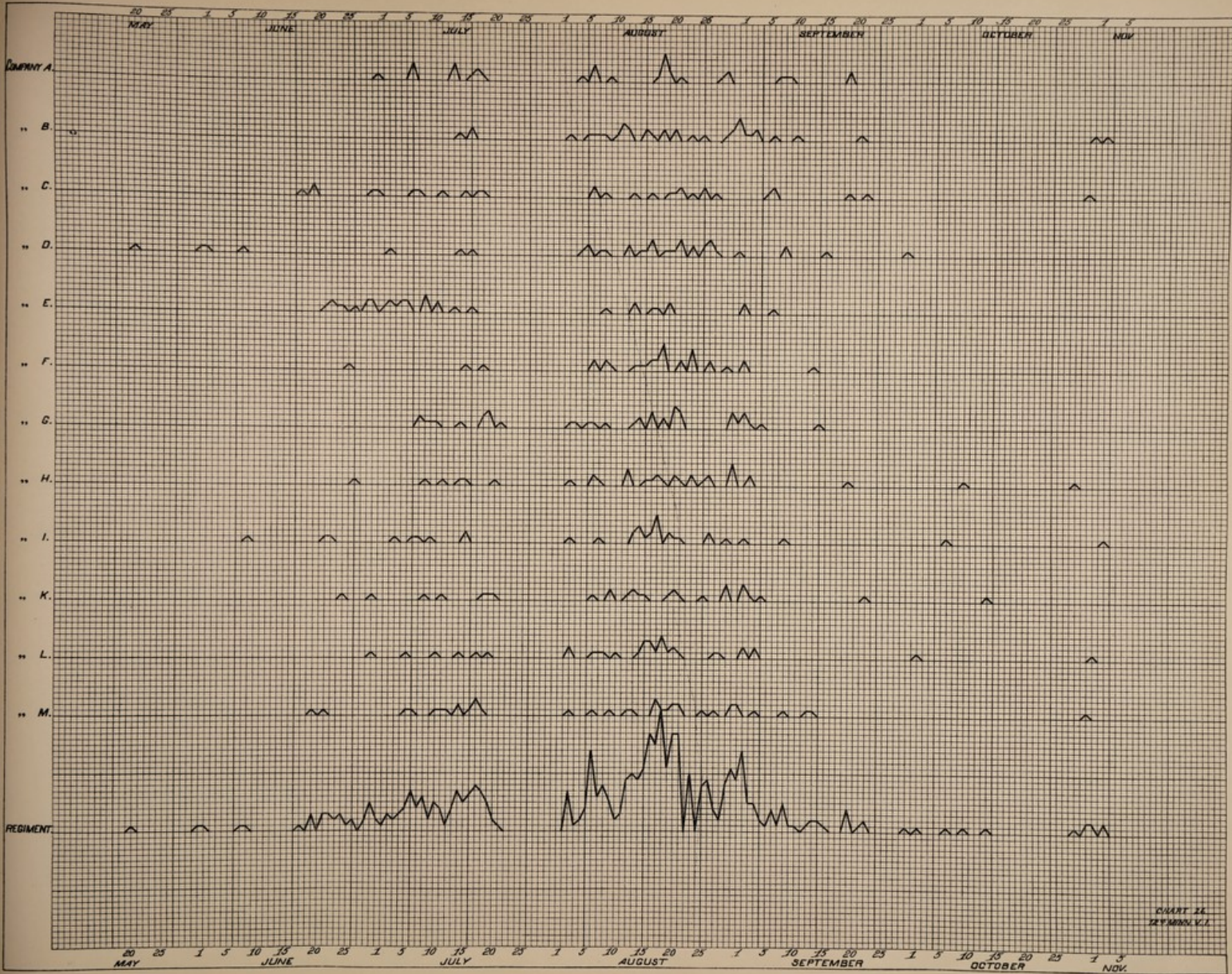
Mortality:

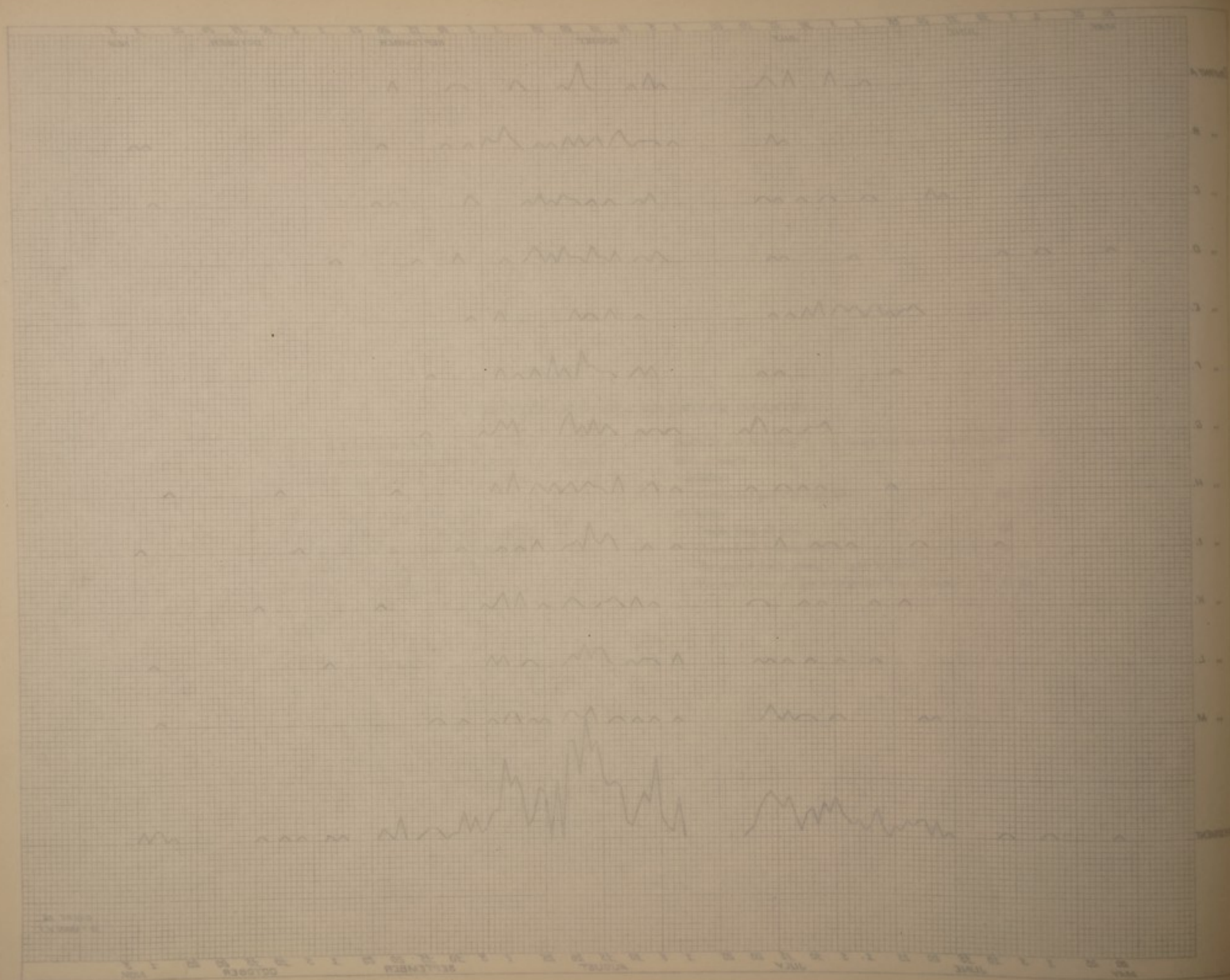
Deaths from all causes..... 20

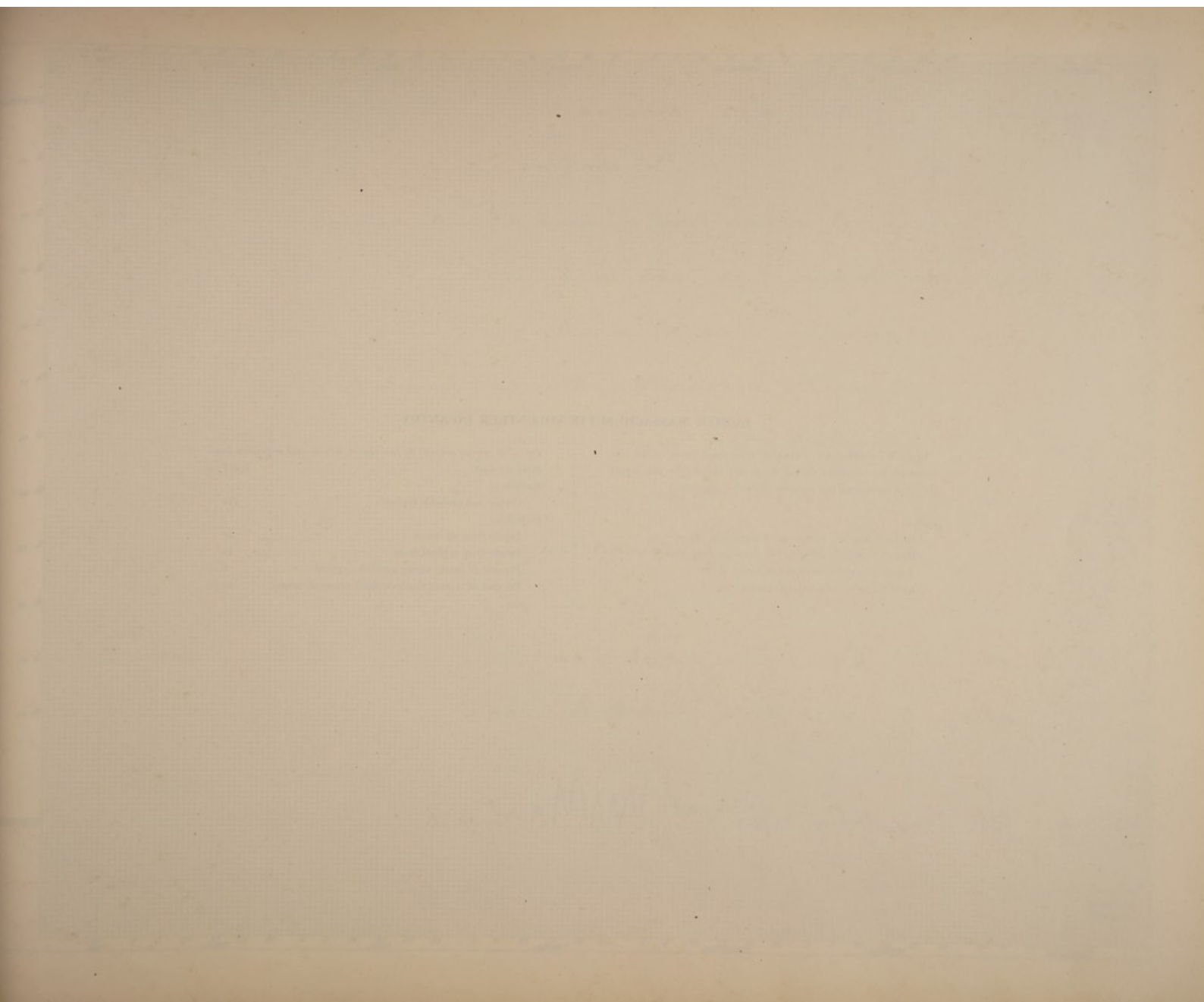
Deaths from typhoid fever..... 19

Per cent of deaths among probable typhoid 4.38

Per cent of typhoid deaths to deaths from all causes... 95.00







EIGHTH MASSACHUSETTS VOLUNTEER INFANTRY.

Chart 27, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 123.)

Camps:

May 5 to May 18, 1898, South Framingham, Mass.
May 20 to August 23, 1898, Chickamauga Park, Ga.
August 25, 1898, arrived at Lexington, Ky.
April 28, 1899, mustered out, Boston, Mass.

Period of service covered by this report, five months seventeen days.

Mean strength..... 1,317

Morbidity:

Certain and probable typhoid 272

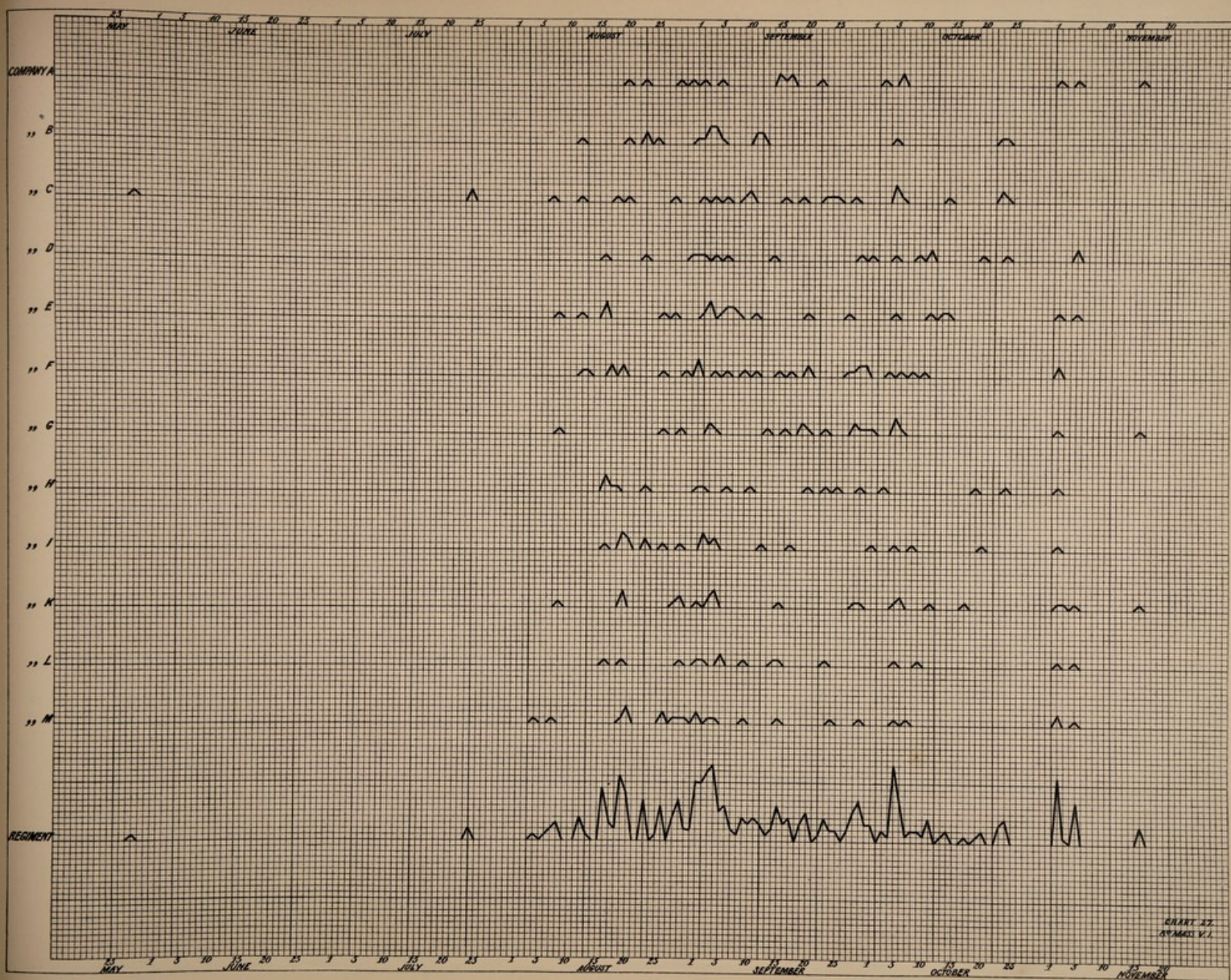
Mortality:

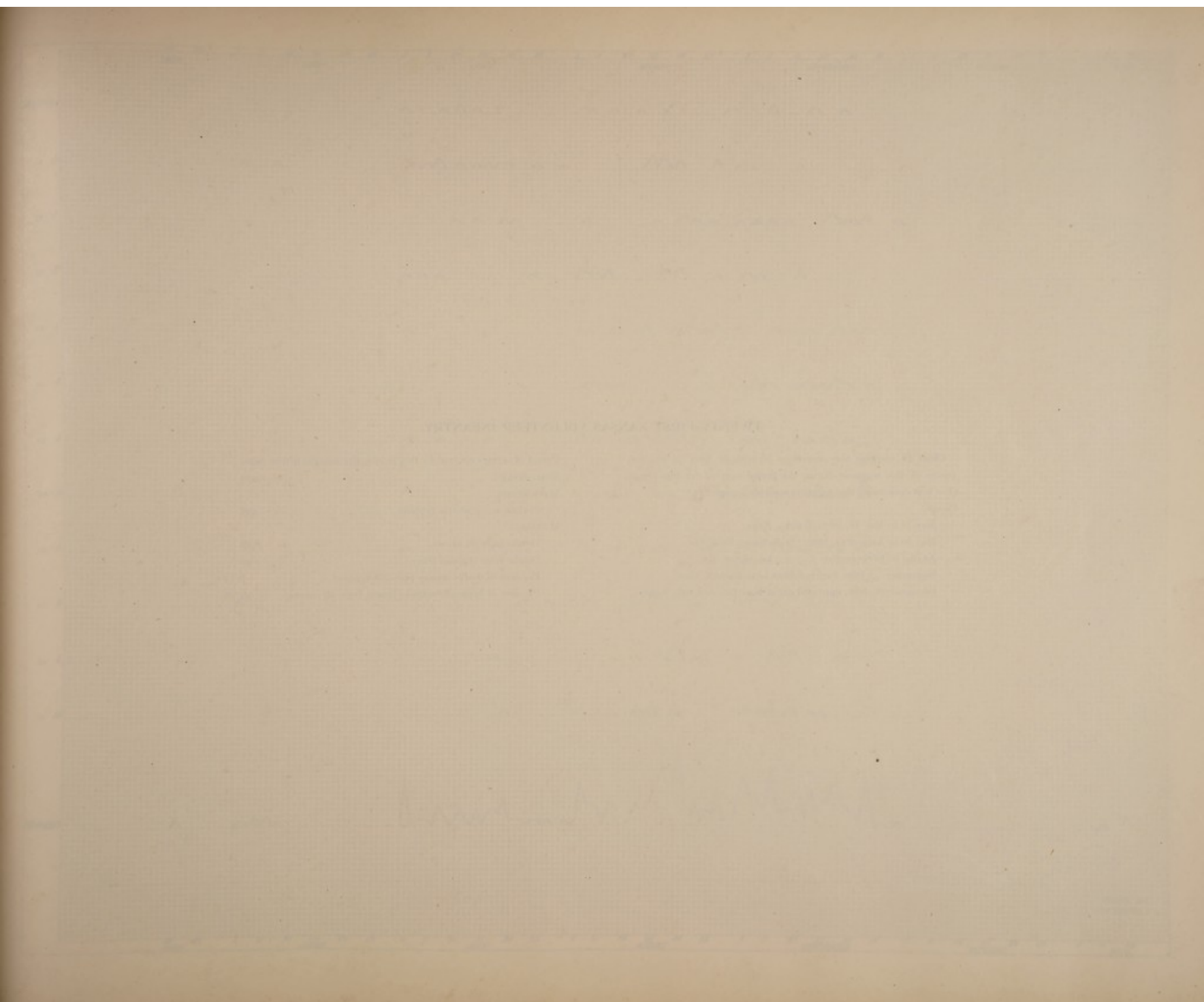
Deaths from all causes..... 30

Deaths from typhoid fever..... 19

Per cent of deaths among probable typhoid 6.98

Per cent of typhoid deaths to deaths from all causes ... 63.33





TWENTY-FIRST KANSAS VOLUNTEER INFANTRY.

Chart 28, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 128.)

Camps:

May 12 to May 17, 1898, Topeka, Kans.

May 20 to August 24, 1898, Chickamauga Park, Ga.

August 25 to September —, —, Lexington, Ky.

September —, 1898, furloughed at Leavenworth, Kans.

December 10, 1898, mustered out at Fort Leavenworth, Kans.

Period of service covered by this report, five months fifteen days.

Mean strength 1,264

Morbidity:

Certain and probable typhoid 294

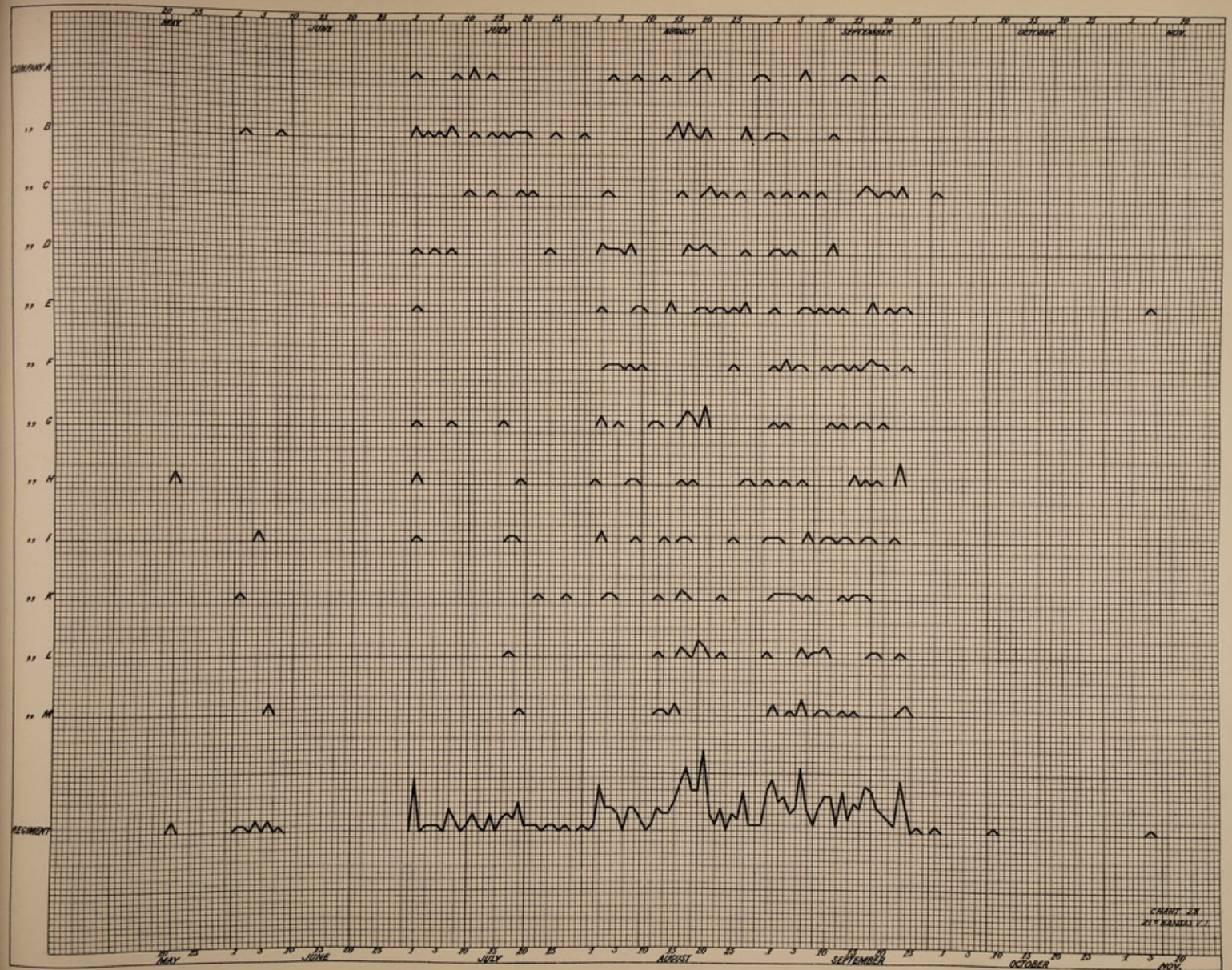
Mortality:

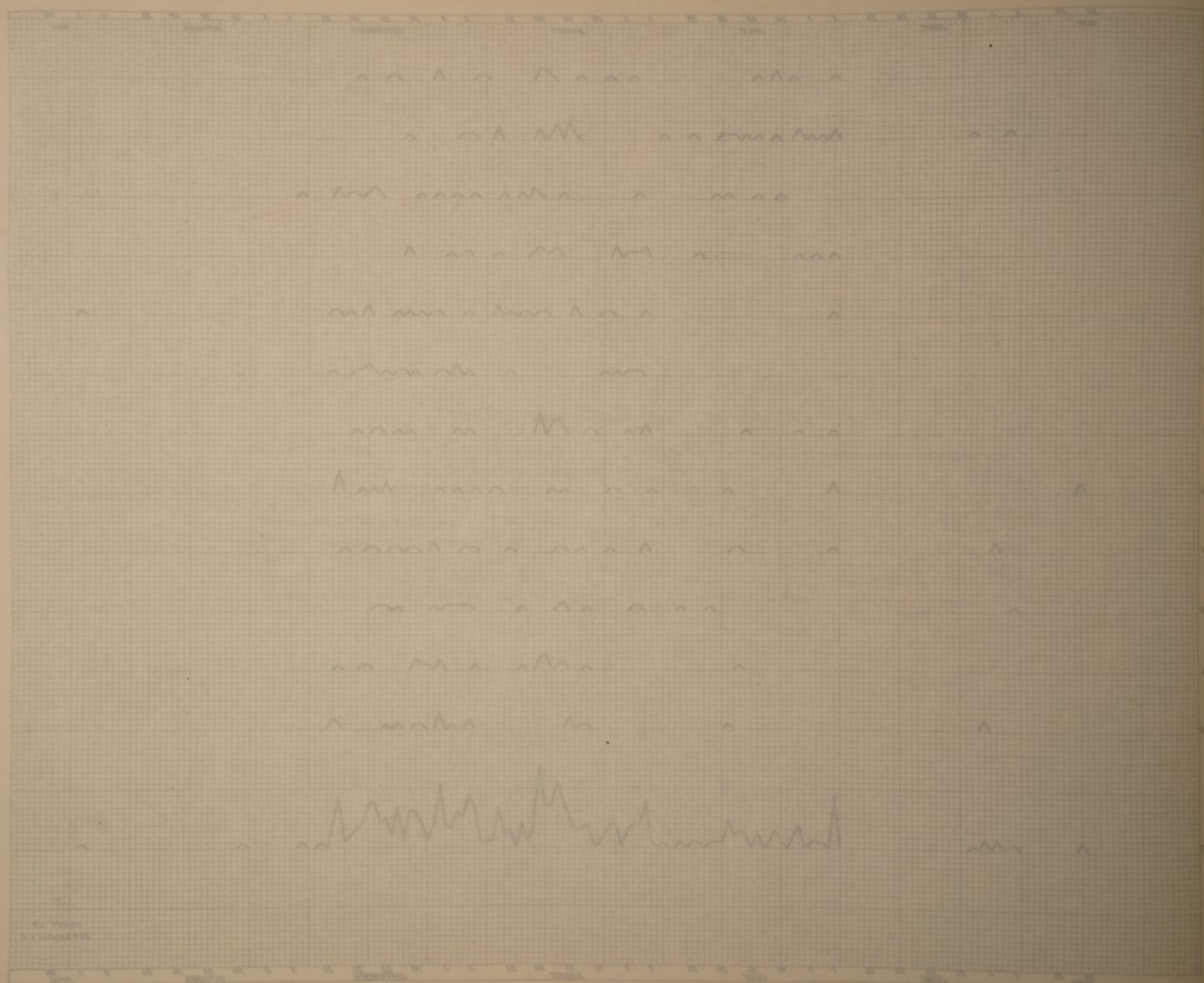
Deaths from all causes 23

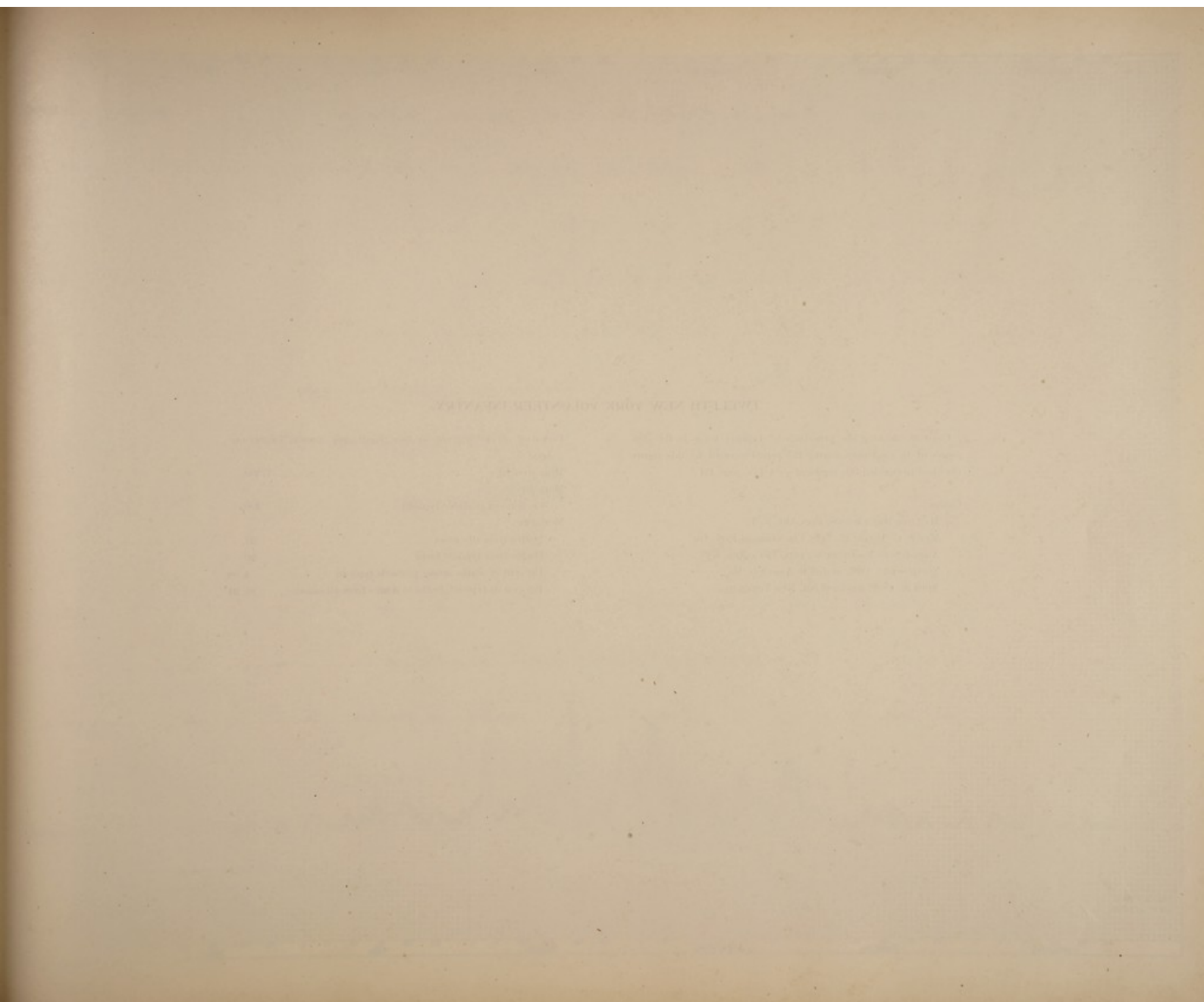
Deaths from typhoid fever 21

Per cent of deaths among probable typhoid 7.14

Per cent of typhoid deaths to deaths from all causes ... 95.65







TWELFTH NEW YORK VOLUNTEER INFANTRY.

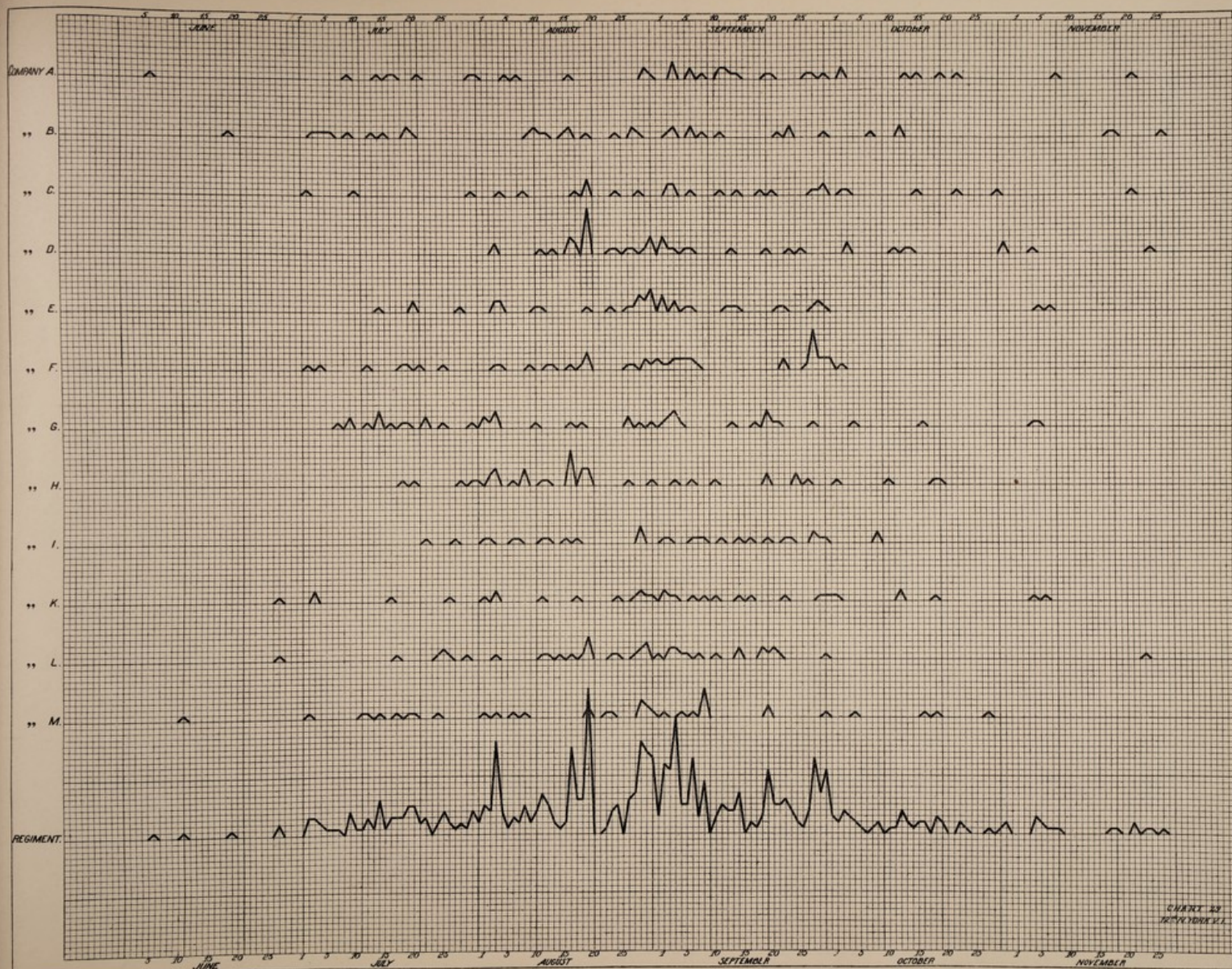
Chart 29, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 134.)

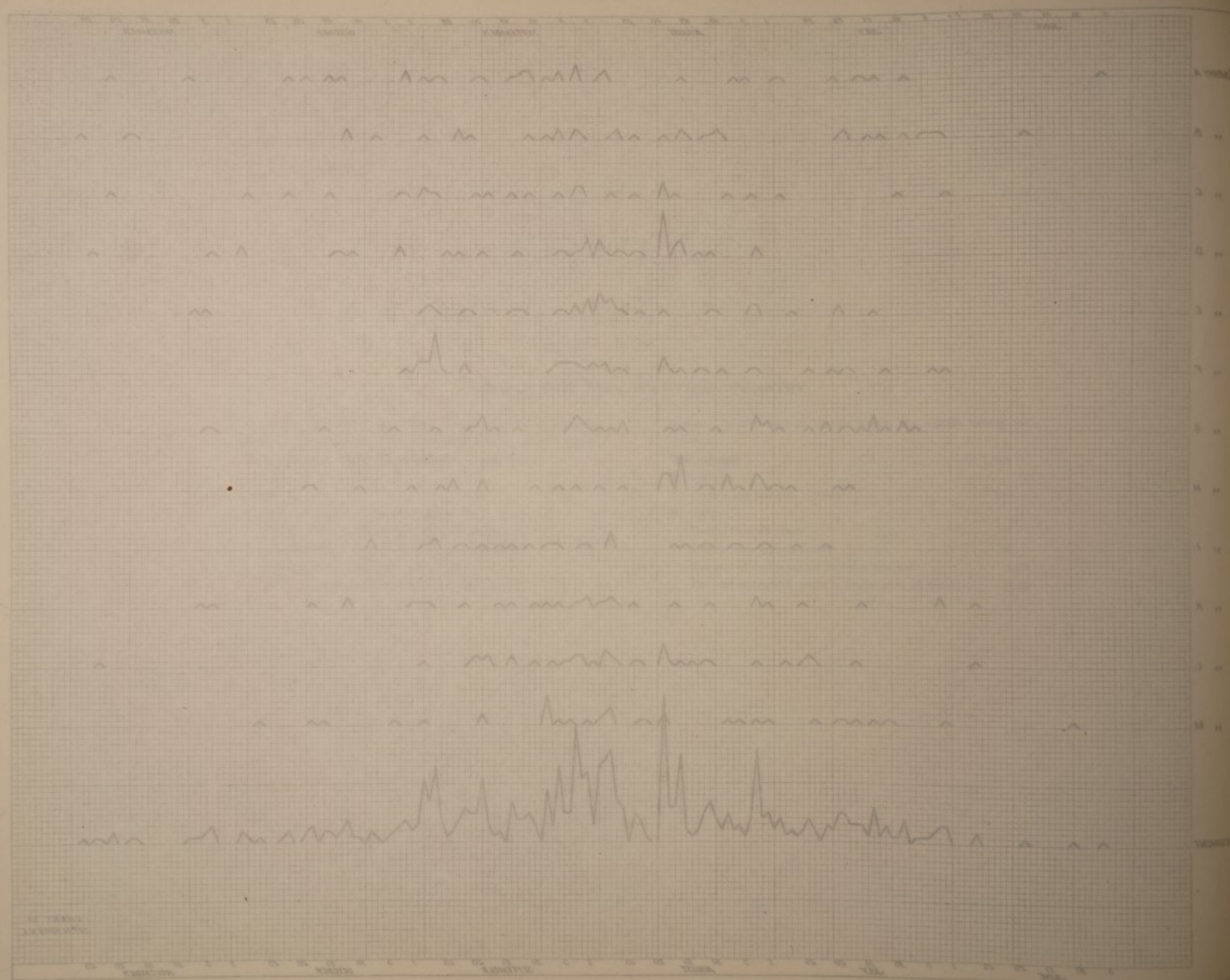
Camps:

May 2 to May 17, 1898, Peekskill, N. Y.
May 20 to August 25, 1898, Chickamauga Park, Ga.
August 26 to November 13, 1898, Lexington, Ky.
November 13, 1898, moved to Americus, Ga.
April 20, 1899, mustered out, New York City.

Period of service covered by this report, five months twenty-one days.

Mean strength	1,302
Morbidity:	
Certain and probable typhoid	490
Mortality:	
Deaths from all causes	21
Deaths from typhoid fever	20
Per cent of deaths among probable typhoid	4.08
Per cent of typhoid deaths to deaths from all causes...	95.24





SECOND MISSOURI VOLUNTEER INFANTRY.

Chart 30, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 145.)

Camps:

May 5 to May 18, 1898, Jefferson Barracks, Mo.
May 20 to August 27, 1898, Chickamauga Park, Ga.
August 29 to November 8, 1898, Lexington, Ky.
November 8 to March 3, 1899, Albany, Ga.

Period of service covered by this report, six months nine days.

Mean strength..... 1,269

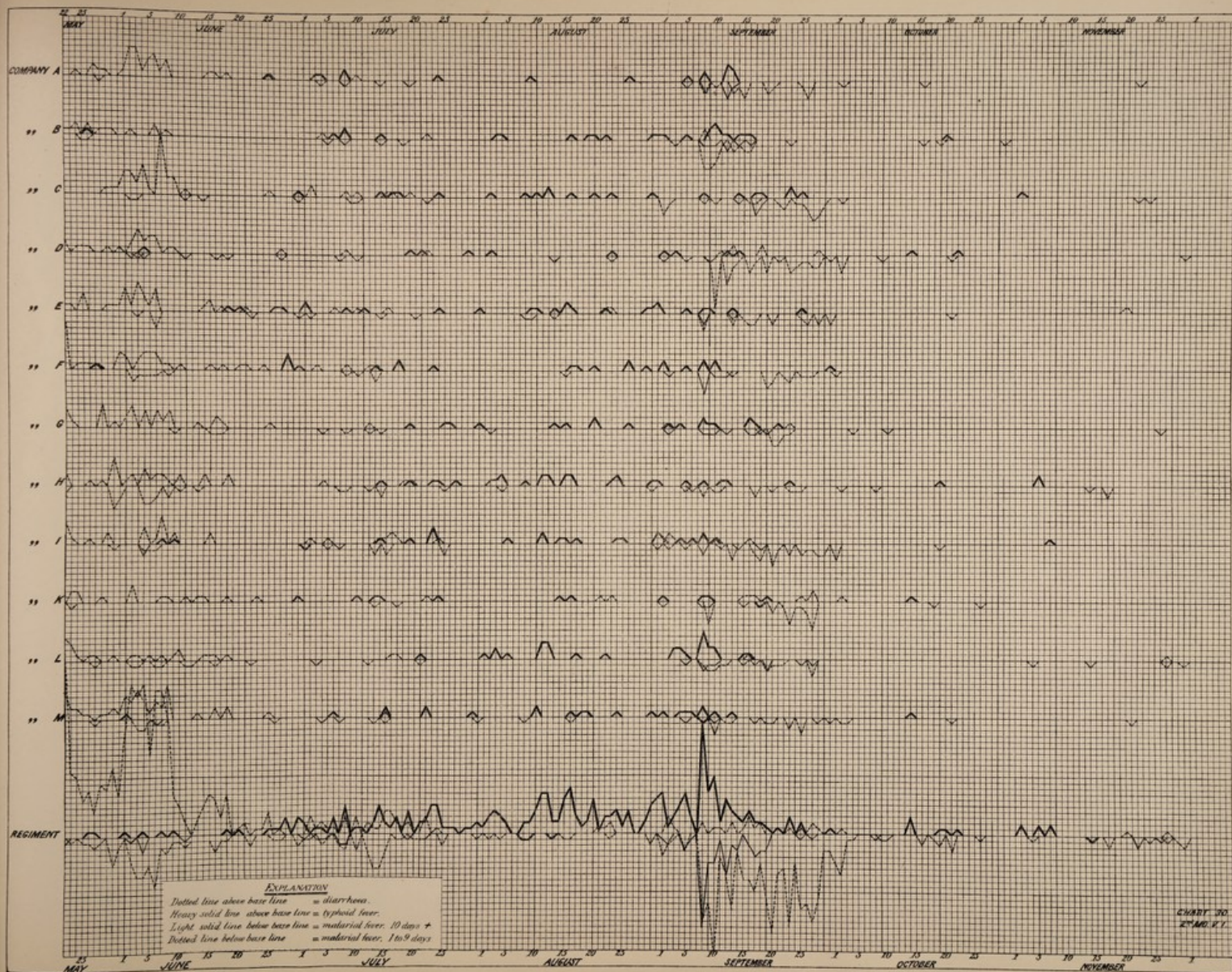
Morbidity:

Probable typhoid, including recognized 268
Recognized typhoid 181
Diarrheal diseases 2
Malaria (so called)..... 85

268

Mortality:

Deaths from all causes..... 20
Deaths from typhoid fever..... 19
Per cent of deaths among probable typhoid..... 7.08
Per cent of typhoid deaths to deaths from all causes... 95.00



FIRST NEW HAMPSHIRE VOLUNTEER INFANTRY.

Chart 31, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report.
(For text concerning this regiment see vol. 1, page 149.)

Camps:

May 8 to May 19, 1898, Camp Ramsdell, N. H.
May 22 to August 26, 1898, Chickamauga Park, Ga.
August 28, 1898, proceeded to Camp Ramsdell, N. H.
October 31, 1898, mustered out at Camp Ramsdell, N. H.

Period of service covered by this report, three months twenty days.

Mean strength..... 1,296

Morbidity:

Certain and probable typhoid..... 297

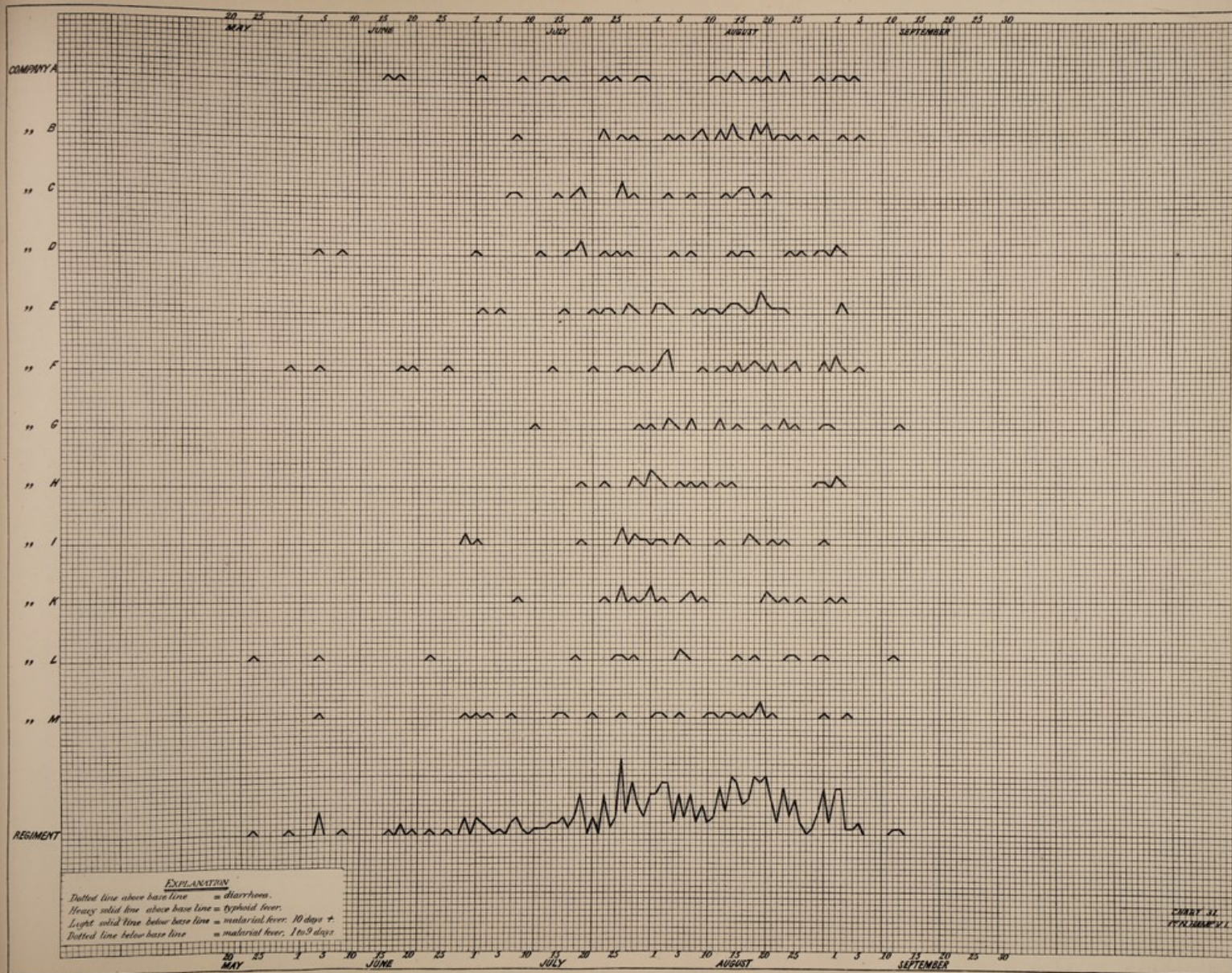
Mortality:

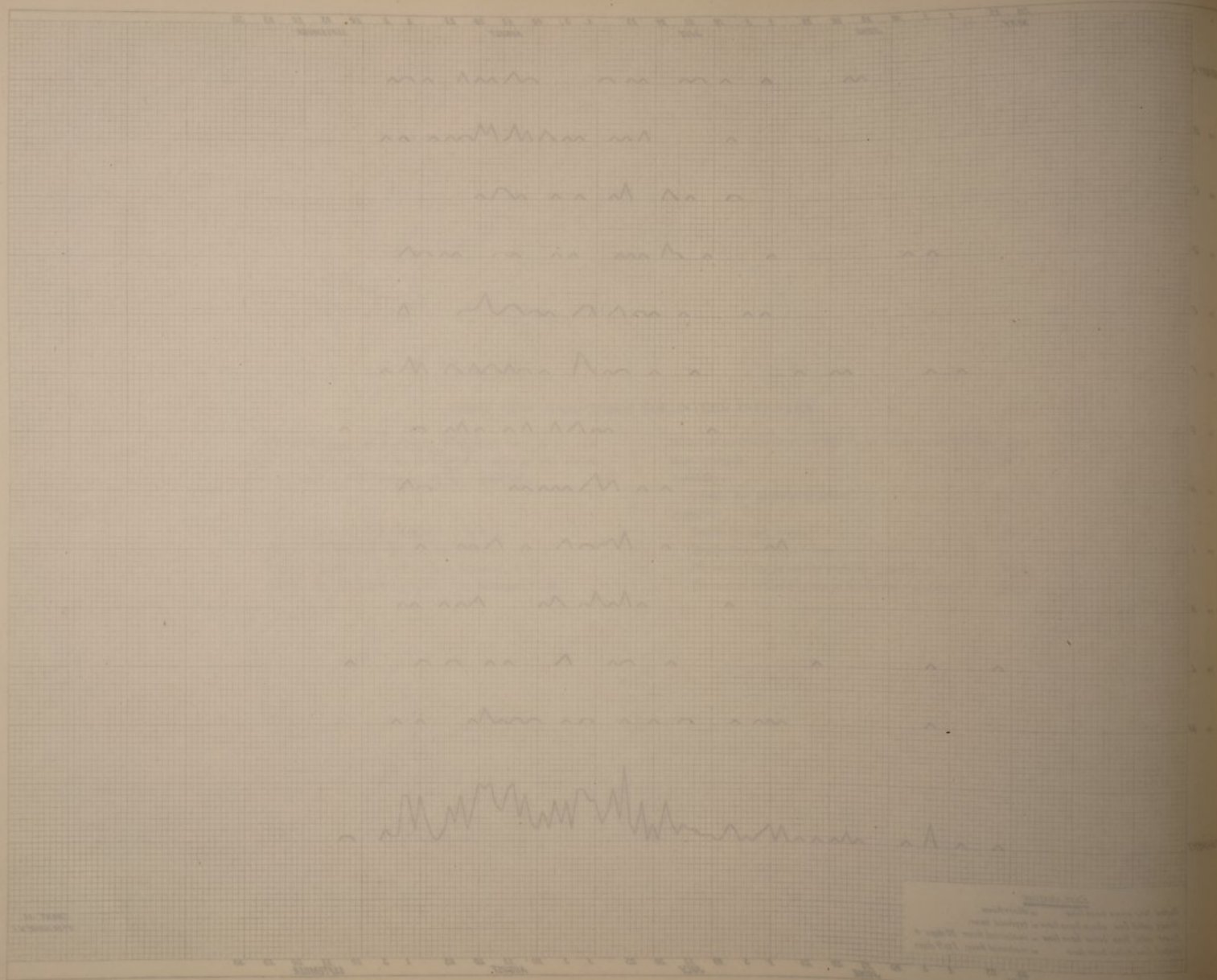
Deaths from all causes..... 32

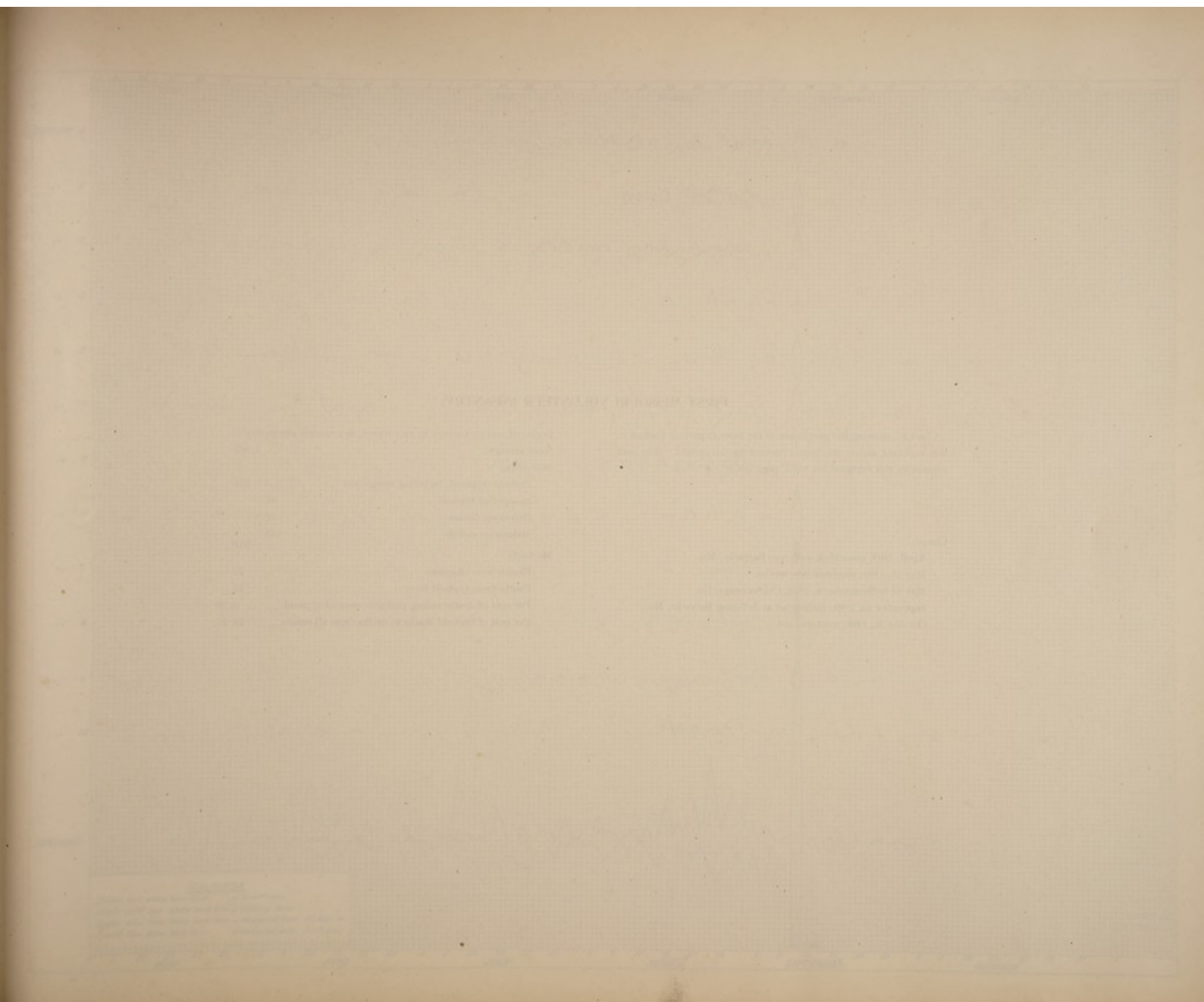
Deaths from typhoid fever..... 30

Per cent of deaths among probable typhoid..... 10. 10

Per cent of typhoid deaths to deaths from all causes... 93. 75







FIRST MISSOURI VOLUNTEER INFANTRY.

Chart 32, showing the prevalence of the more important diseases in this regiment during the period covered by this report. (For text concerning this regiment see vol 1, page 163.)

Camps:

April, 1898, assembled, Jefferson Barracks, Mo.
May 13, 1898, mustered into service.
May 21 to September 4, 1898, Chickamauga, Ga.
September 10, 1898, furloughed at Jefferson Barracks, Mo.
October 31, 1898, mustered out.

Period of service covered by this report, five months eleven days.

Mean strength..... 1,275

Morbidity:

Probable typhoid, including recognized 216

Recognized typhoid 46

Diarrhoeal diseases 19

Malaria (so called) 151

216

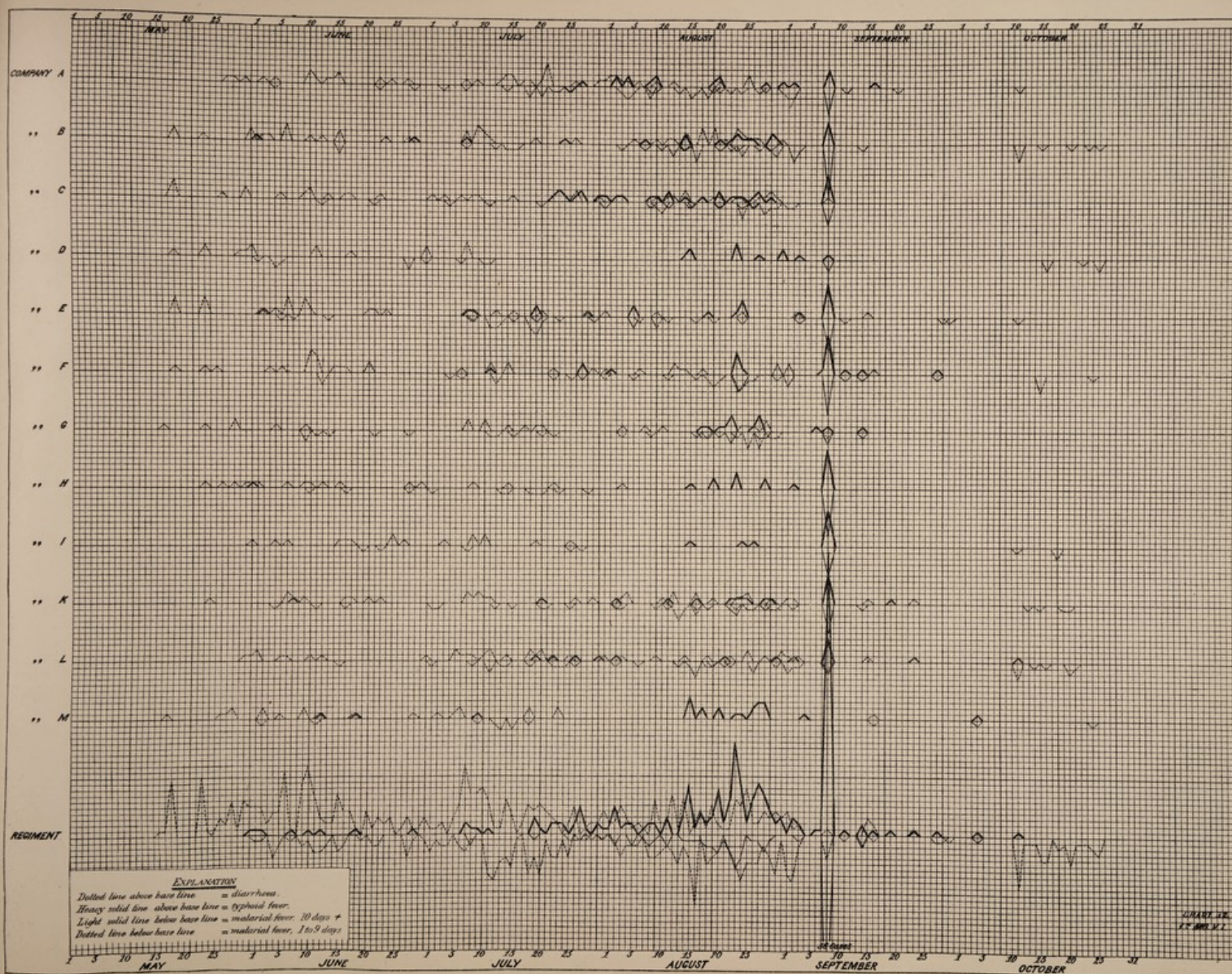
Mortality:

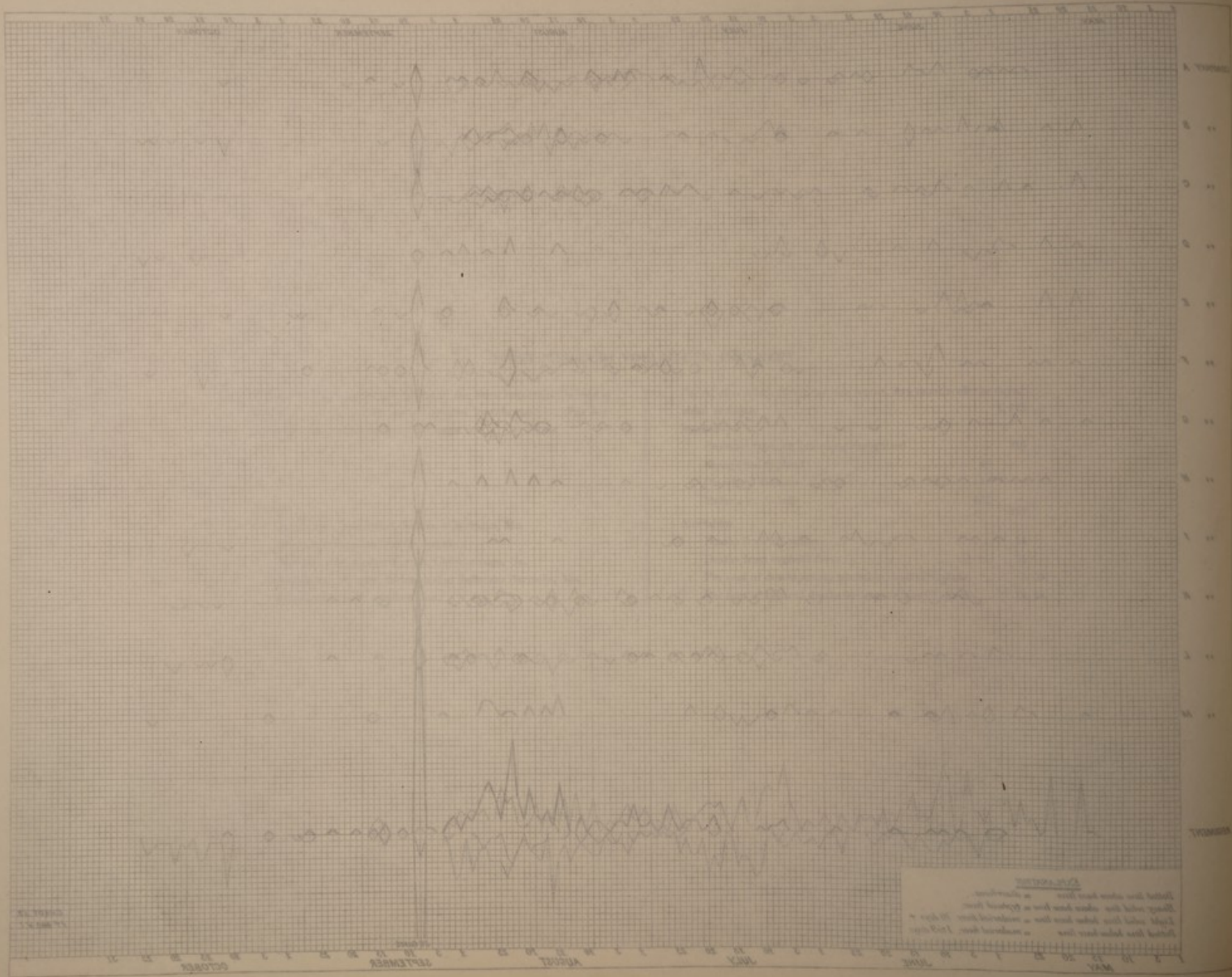
Deaths from all causes 14

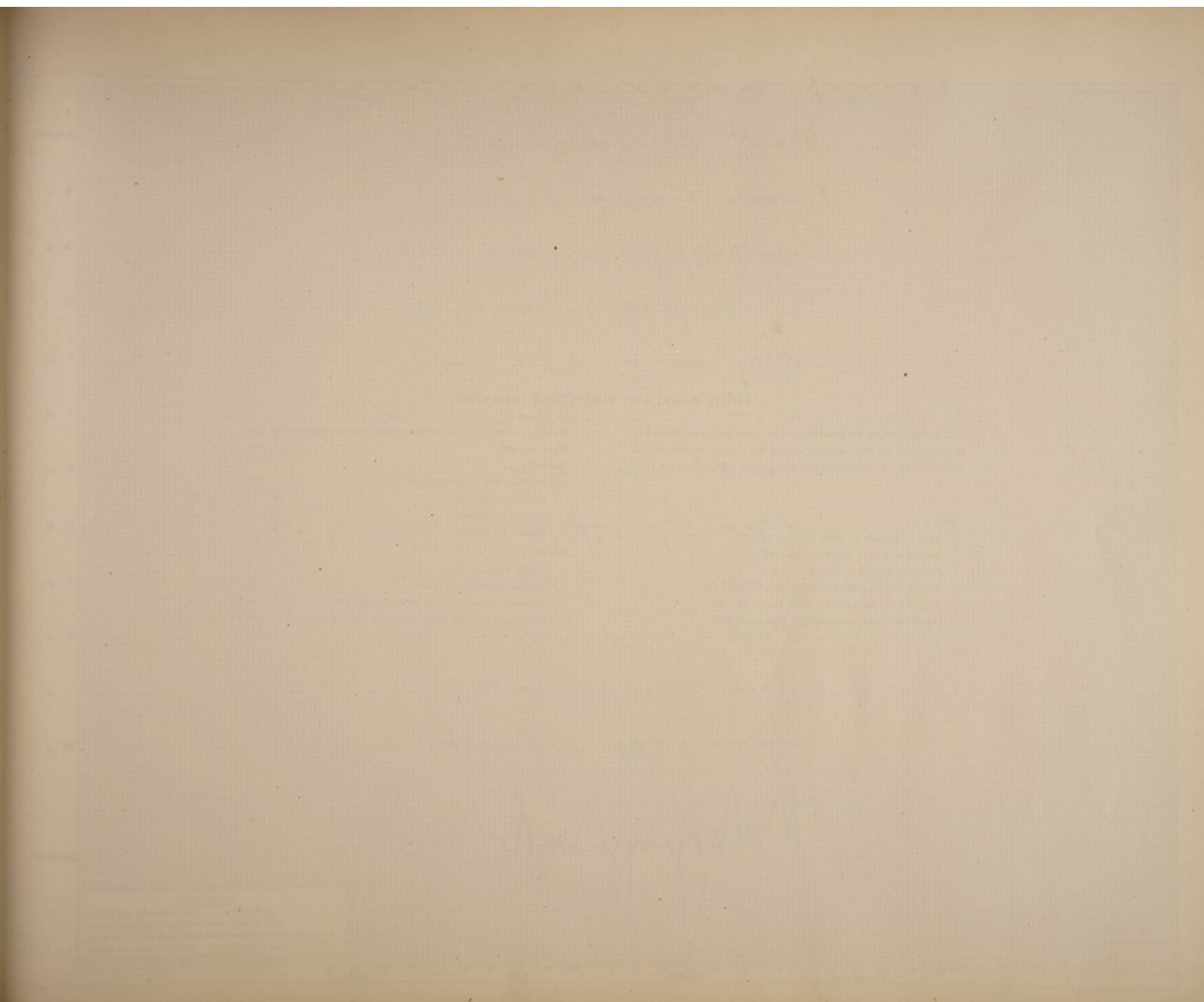
Deaths from typhoid fever 11

Per cent of deaths among probable cases of typhoid ... 5.09

Per cent of typhoid deaths to deaths from all causes... 78.57







FIFTH MARYLAND VOLUNTEER INFANTRY.

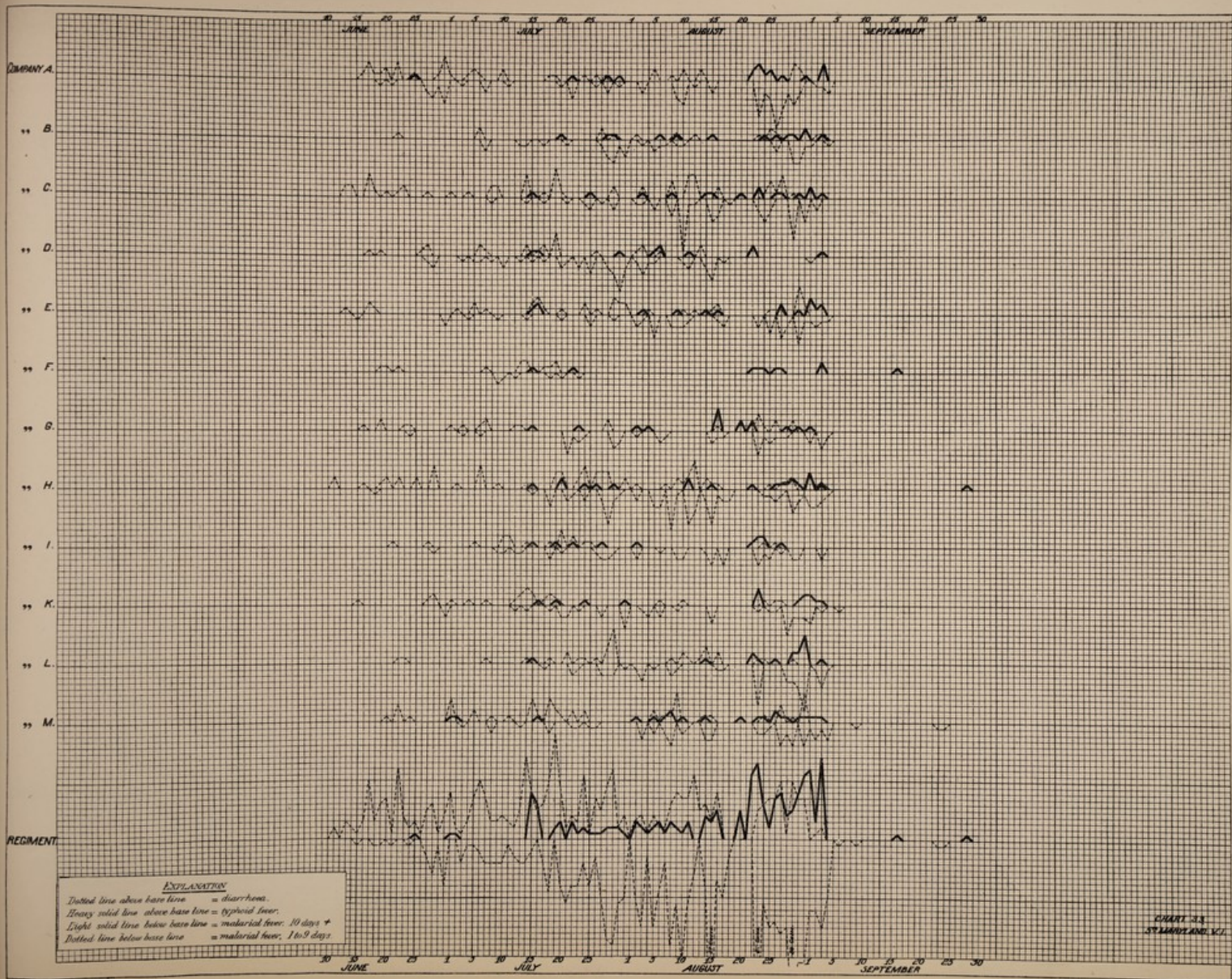
Chart 33, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 168.)

Camps:

April — to May 20, 1898, Pimlico, Md.
May 21 to June 2, Chickamauga Park, Ga.
June 5 to August 1, 1898, Tampa, Fla.
August 1 to August 18, 1898, Tampa Heights, Fla.
August 21 to September 5, 1898, Huntsville, Ala.
October 22, 1898, mustered out, Baltimore, Md.

Period of service covered by this report, three months twenty days.

Mean strength.....	985
Morbidity:	
Probable and certain typhoid.....	250
Recognized typhoid	147
Diarrhoeal diseases	13
Malaria (so called)	90
	— 250
Mortality:	
Deaths from all causes.....	18
Deaths from typhoid fever.....	17
Per cent of deaths among probable typhoid	6.80
Per cent of typhoid deaths to deaths from all causes.....	94.44



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SECOND NEBRASKA VOLUNTEER INFANTRY.

Chart 34, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 174.)

Camps:

April 27 to May 19, 1898, Lincoln, Nebr.
May 22 to August 31, 1898, Chickamauga Park, Ga.
October 24, 1898, mustered out, Omaha, Nebr.

Period of service covered by this report, three months ten days.

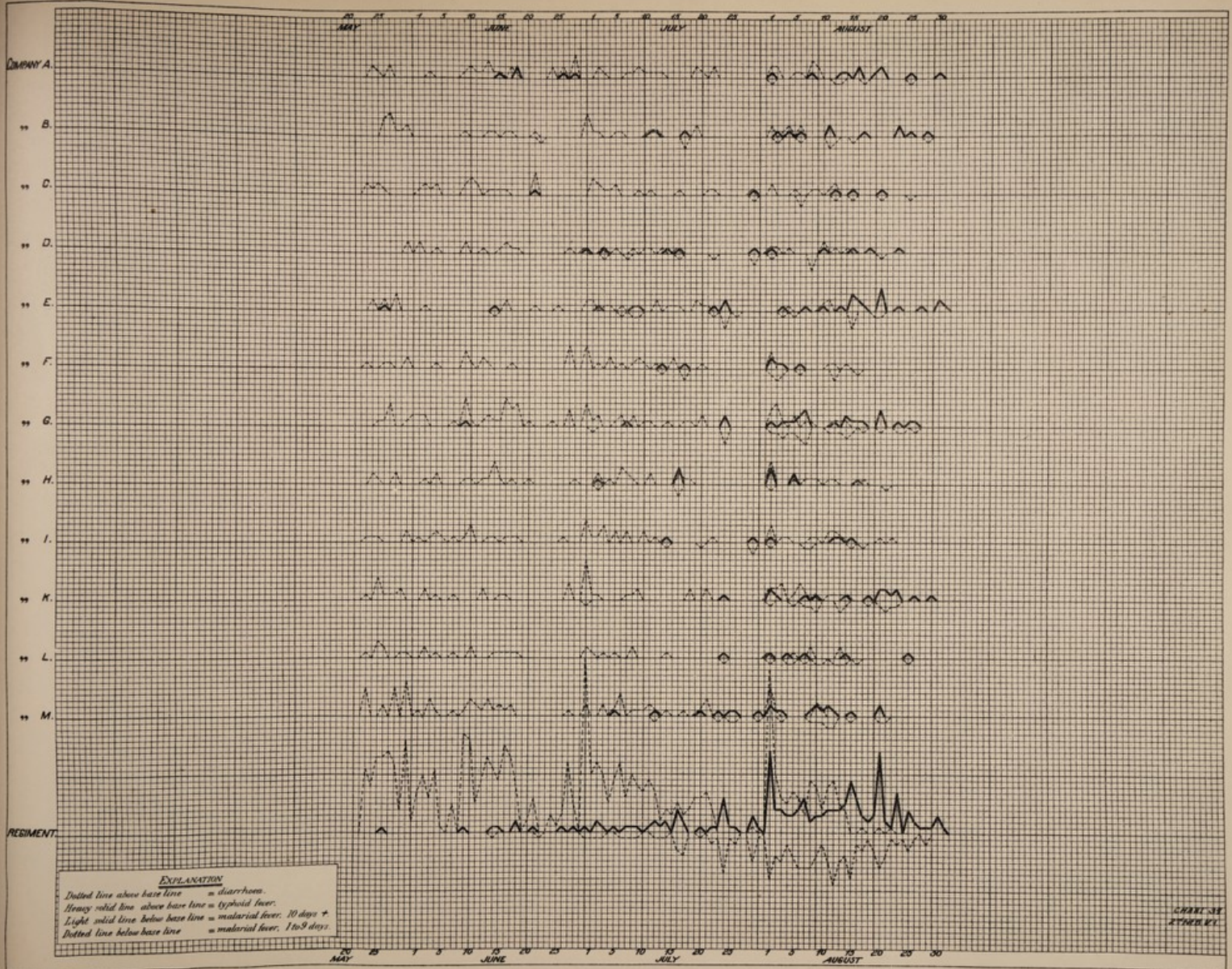
Mean strength..... 1,303

Morbidity:

Probable and certain typhoid.....	167
Recognized typhoid.....	56
Diarrheal diseases.....	29
Malaria (so called).....	82
	<hr/>
	167

Mortality:

Deaths from all causes.....	26
Deaths from typhoid fever.....	22
Per cent of deaths among probable typhoid.....	13.16
Per cent of typhoid deaths to deaths from all causes...	84.61

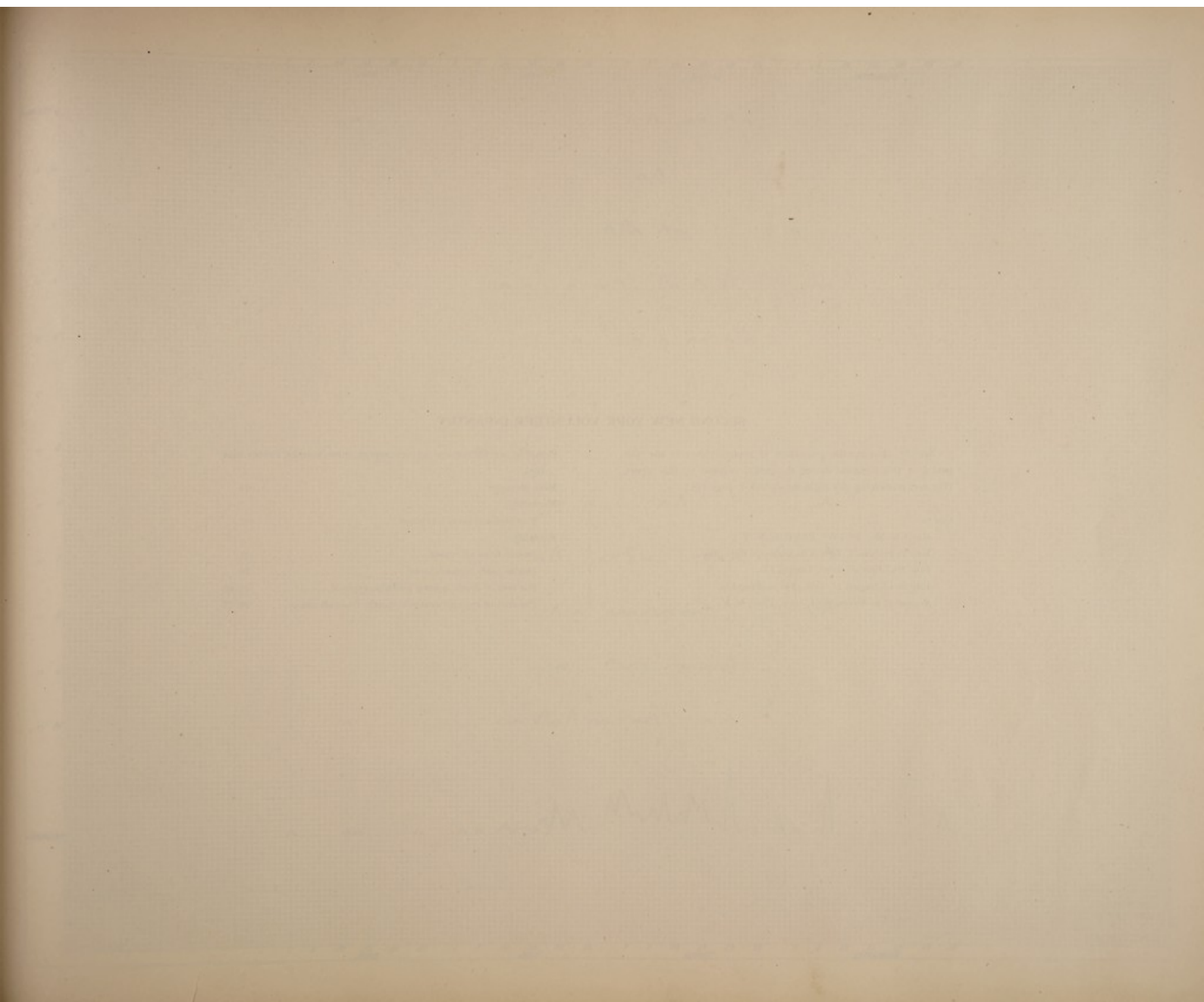


a. The first part of the paper is devoted to a
 description of the general principles of the
 method. It is shown that the method is based on
 the assumption that the system is in a steady state.
 The method is then applied to the case of a
 system with a single degree of freedom. It is
 shown that the method is applicable to systems
 with multiple degrees of freedom. The method is
 then applied to the case of a system with a
 continuous spectrum. It is shown that the method
 is applicable to systems with a discrete spectrum.
 The method is then applied to the case of a
 system with a continuous spectrum. It is shown
 that the method is applicable to systems with a
 discrete spectrum.



The following table gives the values of the
 parameters used in the calculations. The
 values are given in units of the
 fundamental unit. The values are
 given in the following table.

Parameter	Value
α	0.1
β	0.2
γ	0.3
δ	0.4
ϵ	0.5
ζ	0.6
η	0.7
θ	0.8
ι	0.9
κ	1.0



SECOND NEW YORK VOLUNTEER INFANTRY.

Chart 35, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 178.)

Camps:

May 8 to May 19, 1898, Peekskill, N. Y.
 May 21 to June 1, 1898, Chickamauga Park, Ga.
 June 3 to July 20, 1898, Tampa, Fla.
 July 20 to August 24, 1898, Fernandina, Fla.
 August 27 to November 1, 1898, Troy, N. Y.

Period of service covered by this report, three months twenty-nine days.

Mean strength..... 1,014

Morbidity:

Probable and certain typhoid..... 161

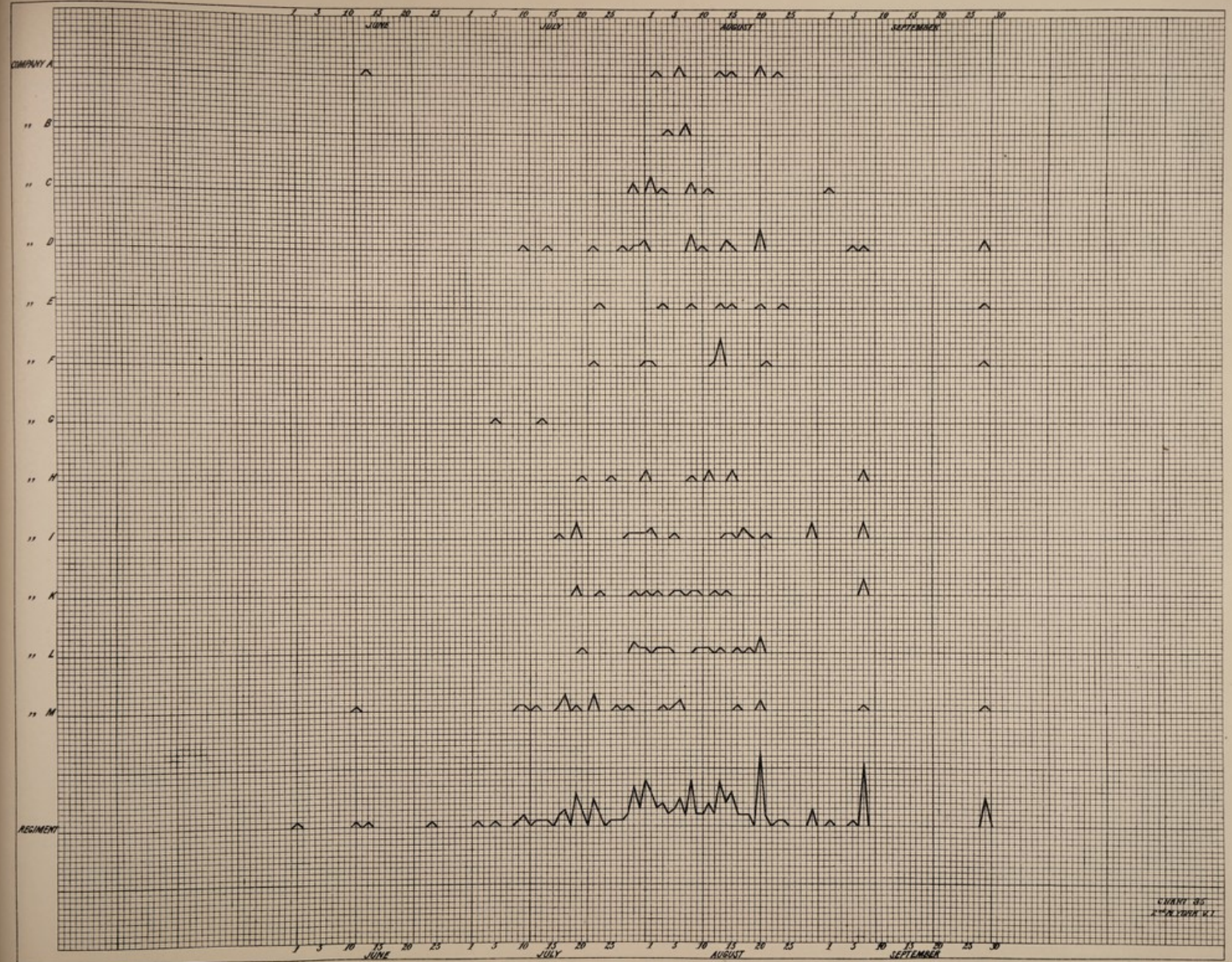
Mortality:

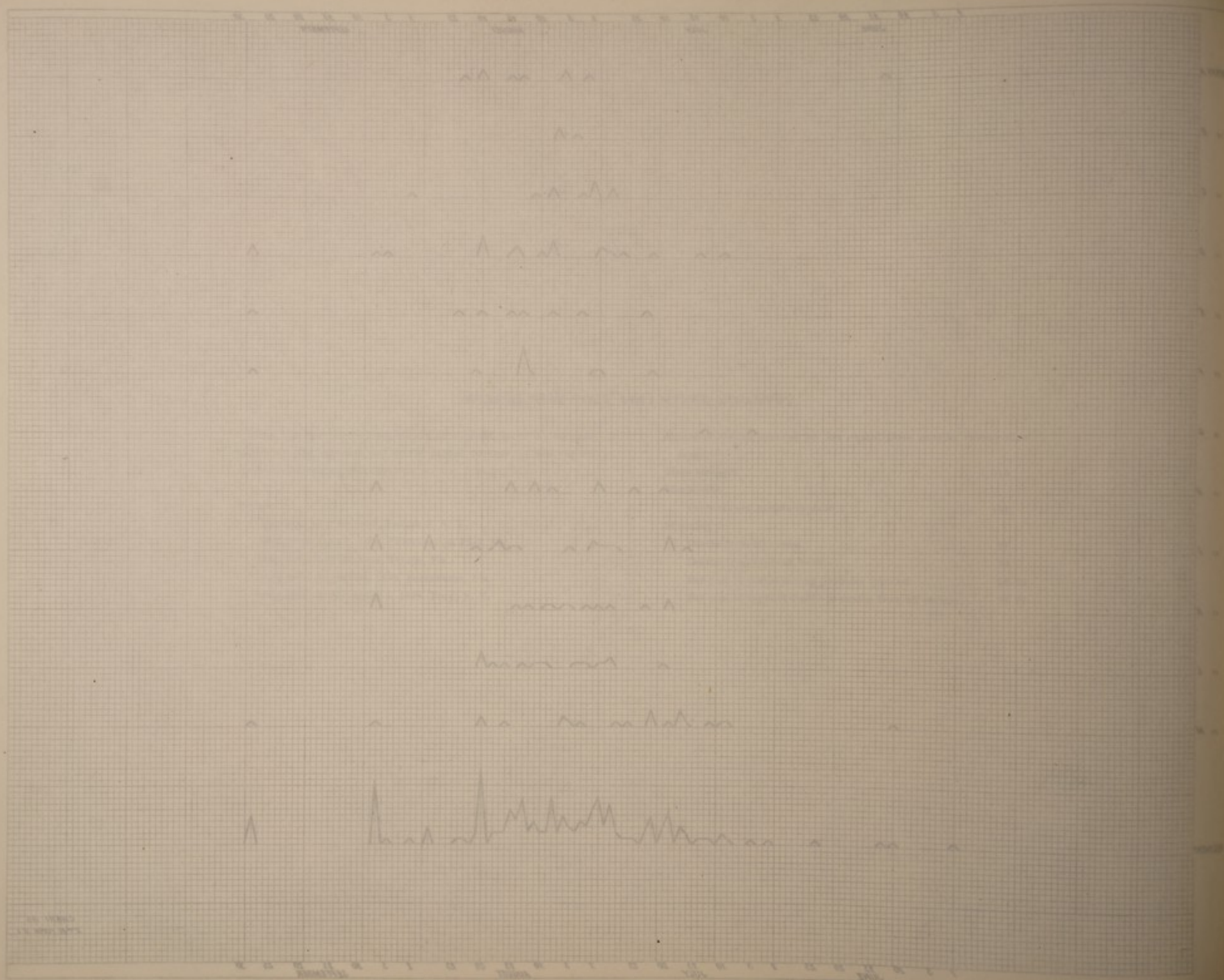
Deaths from all causes..... 31

Deaths from typhoid fever..... 30

Per cent of deaths among probable typhoid..... 18.63

Per cent of typhoid deaths to deaths from all causes... 96.77





THIRD TENNESSEE VOLUNTEER INFANTRY.

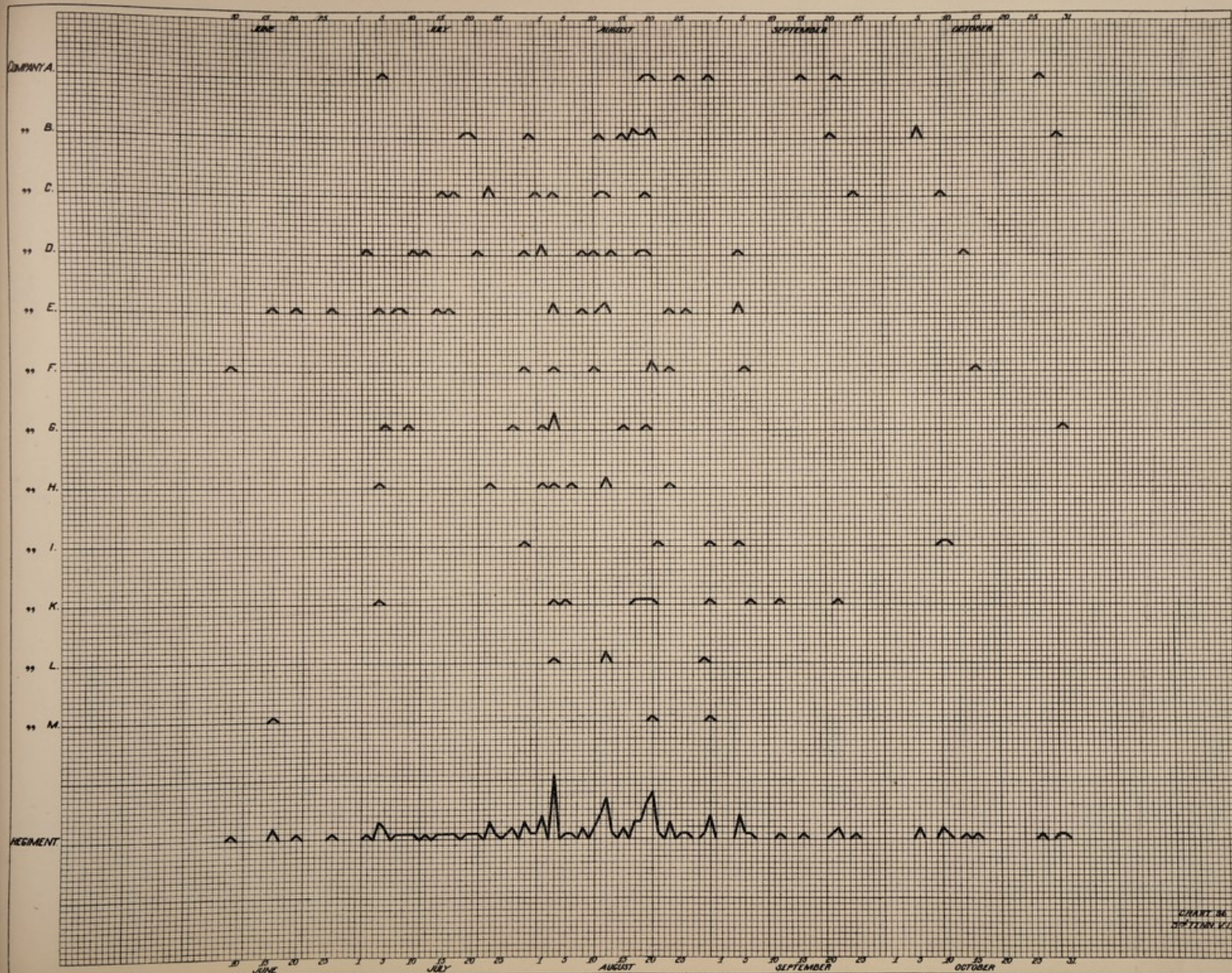
Chart 36, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 182.)

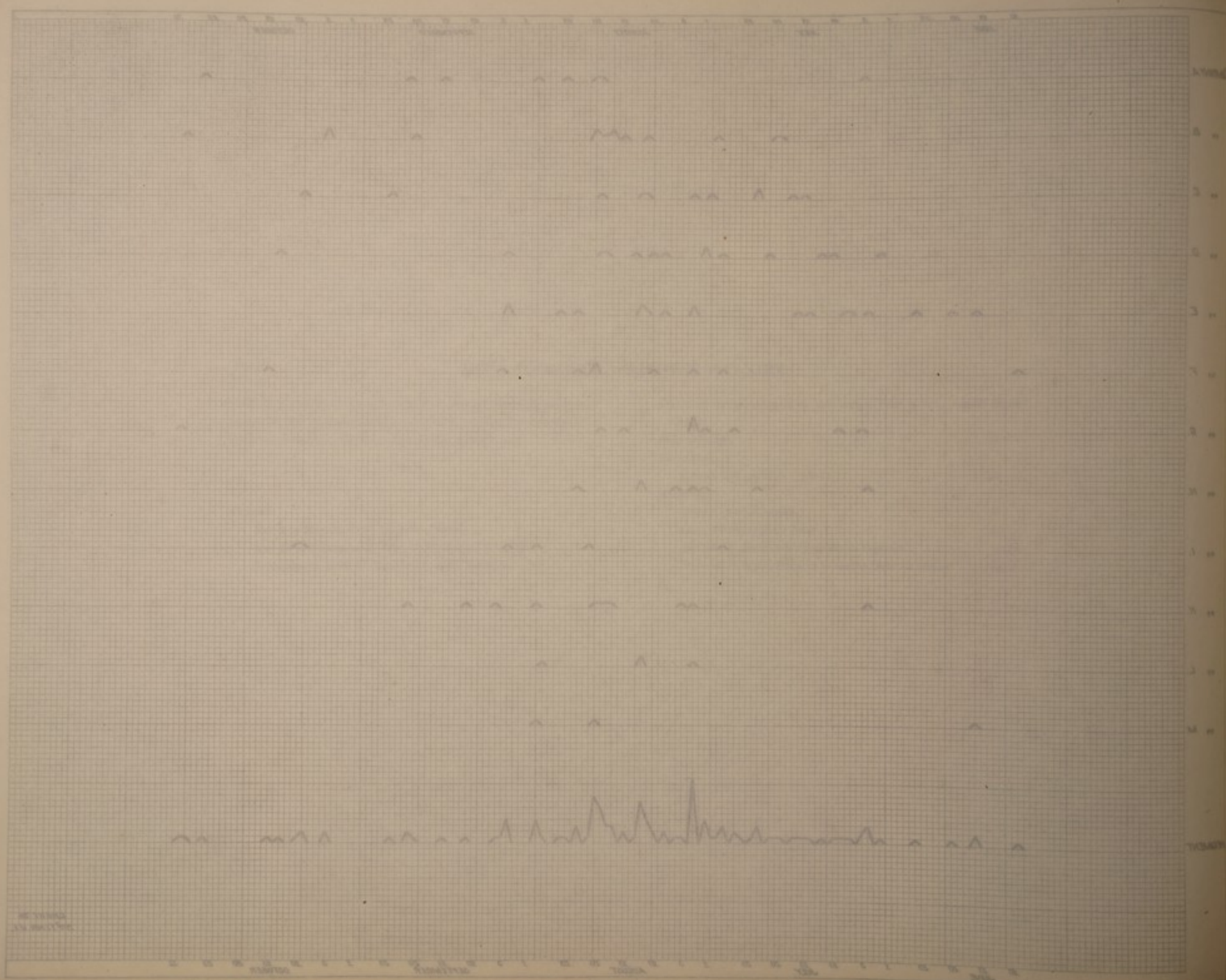
Camps:

May 5 to May 23, 1898, Nashville, Tenn.
May 24 to September 5, 1898, Chickamauga Park, Ga.
September 6, 1898, to January 31, 1899, Anniston, Ala.

Period of service covered by this report, four months twenty-three days.

Mean strength.....	1,293
Morbidity:	
Certain and probable typhoid	123
Mortality:	
Deaths from all causes.....	19
Deaths from typhoid fever.....	12
Per cent of deaths among probable typhoid.....	9.75
Per cent of typhoid deaths to deaths from all causes...	63.16





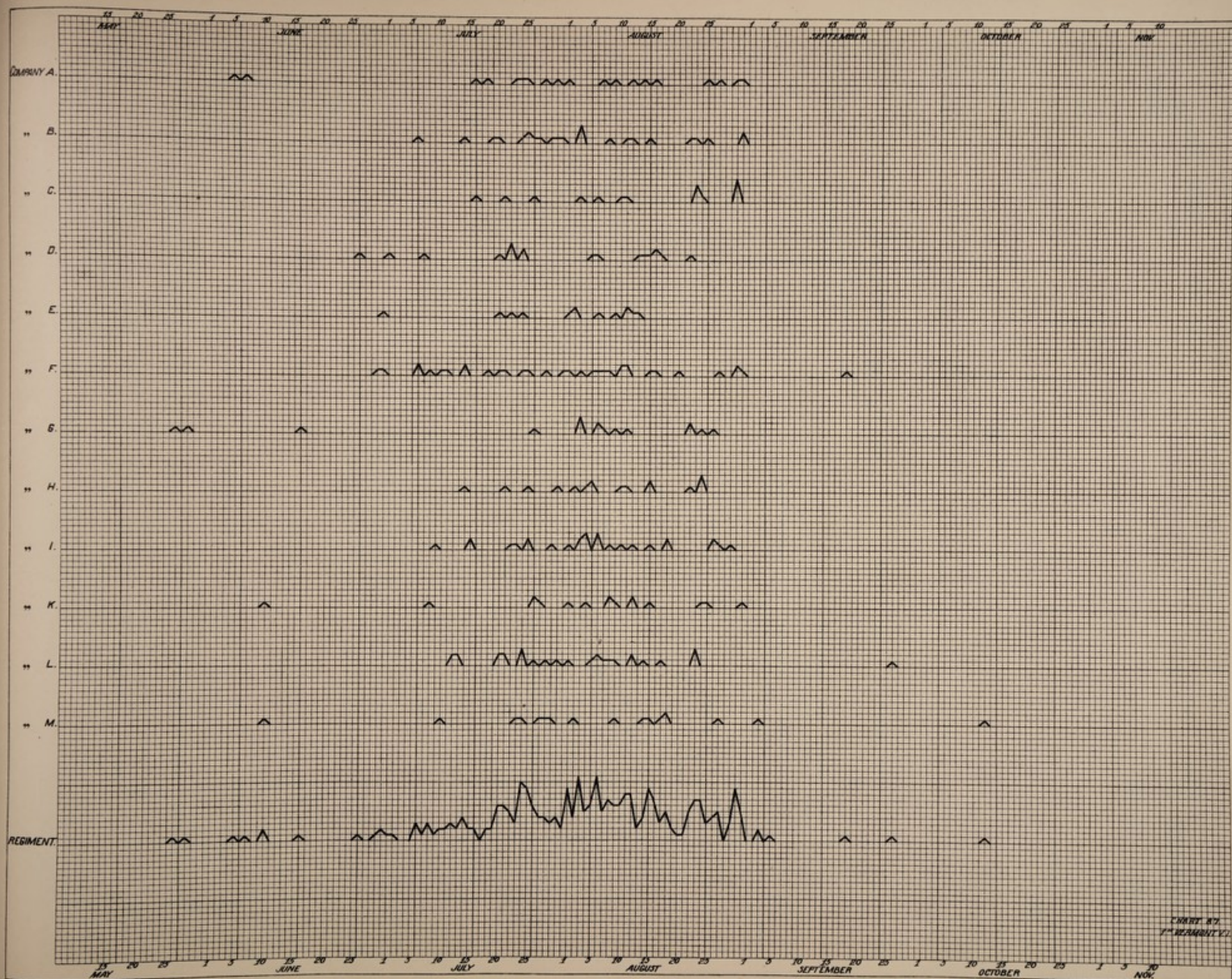
FIRST VERMONT VOLUNTEER INFANTRY.

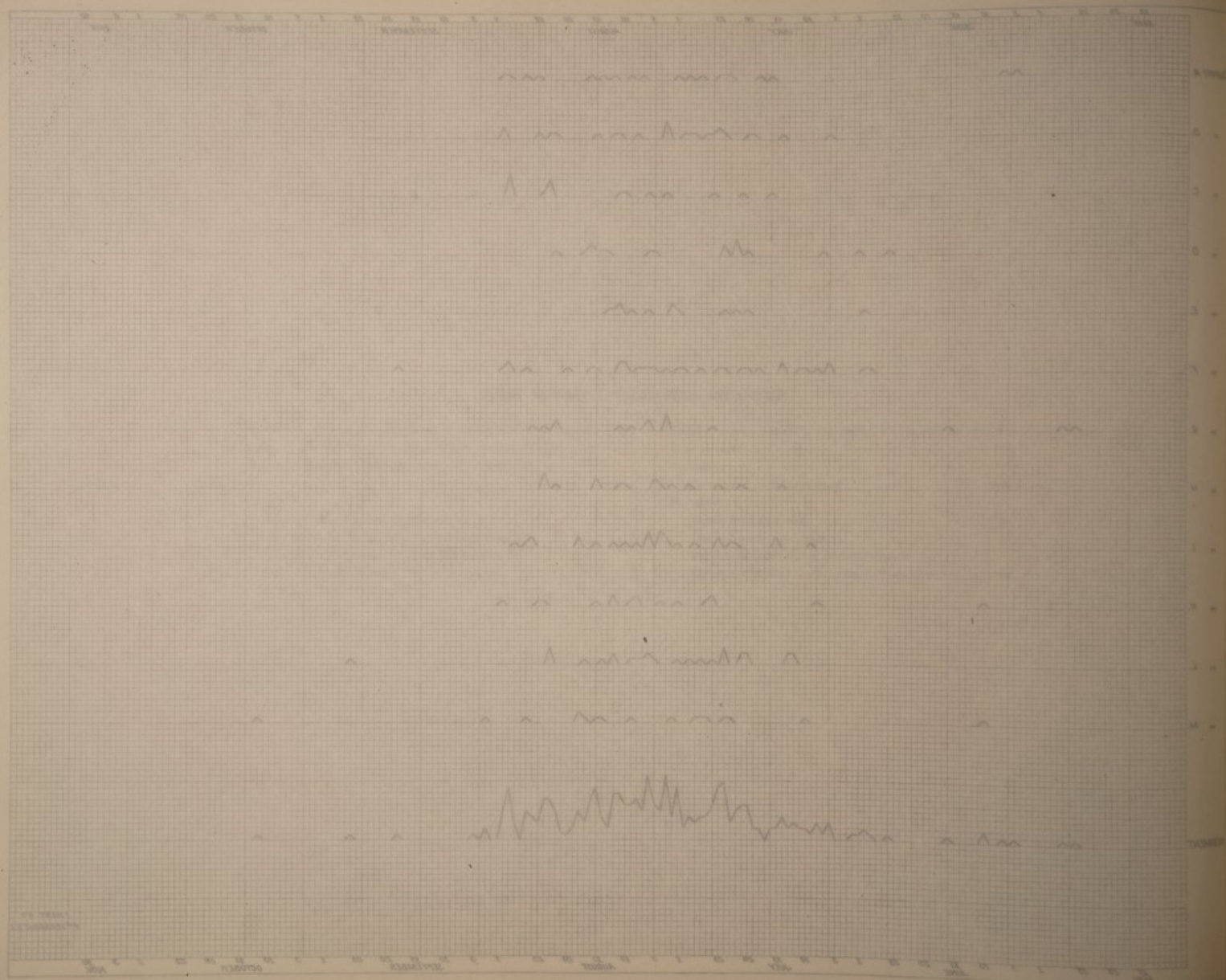
Chart 37, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 186.)

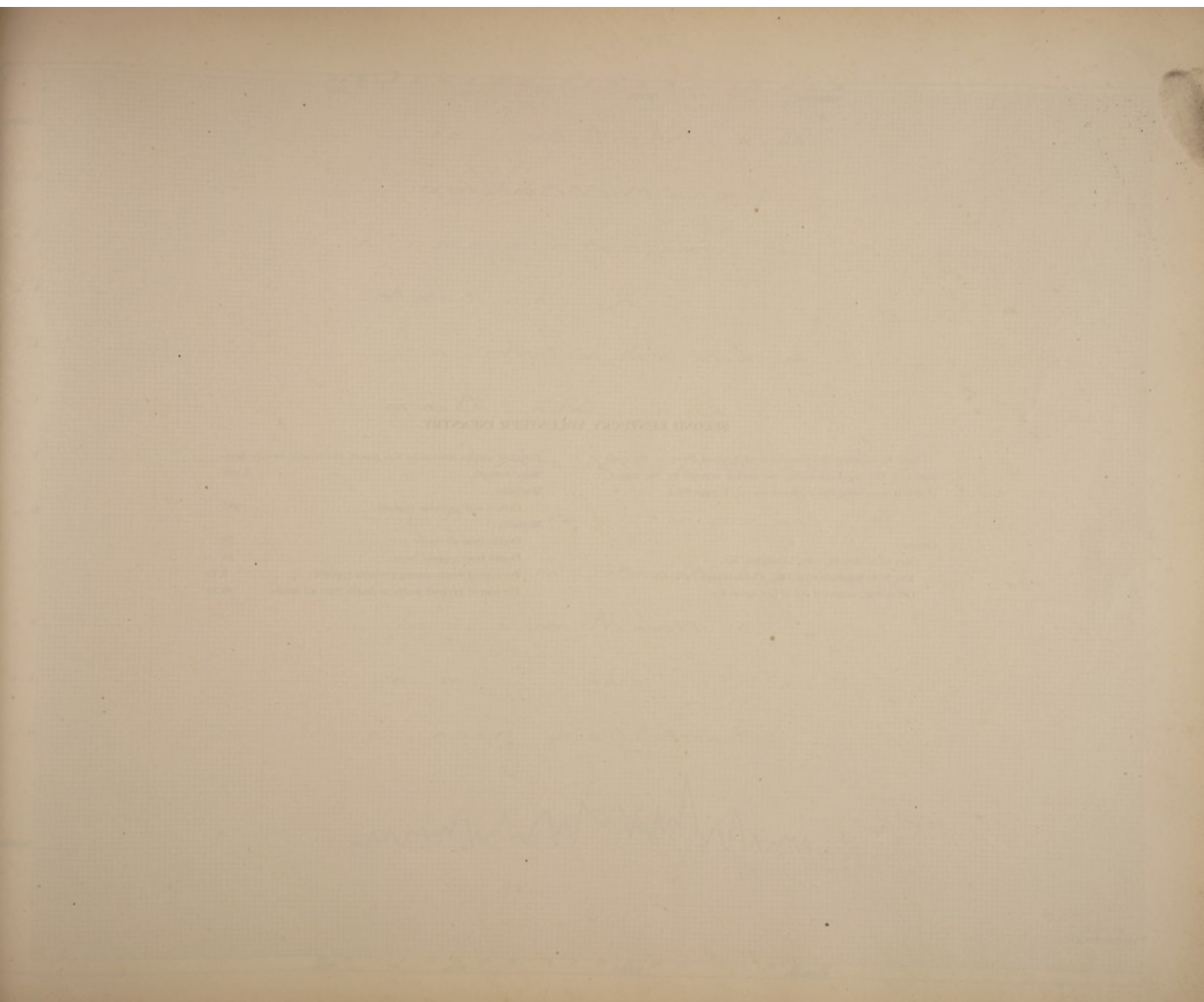
Camps:

May 3 to May 22, 1898, Burlington, Vt.
May 24 to August 18, 1898, Chickamauga Park, Ga.
August 21, 1898, arrived at Fort Ethan Allen, Vt.
October 2 to November 7, 1898, mustered out.

Period of service covered by this report, four months nineteen days	
Mean strength.....	996
Morbidity:	
Certain and probable typhoid	278
Mortality:	
Deaths from all causes.....	26
Deaths from typhoid fever.....	22
Per cent of deaths among probable typhoid.....	7.91
Per cent of typhoid deaths to deaths from all causes.....	84.61







SECOND KENTUCKY VOLUNTEER INFANTRY.

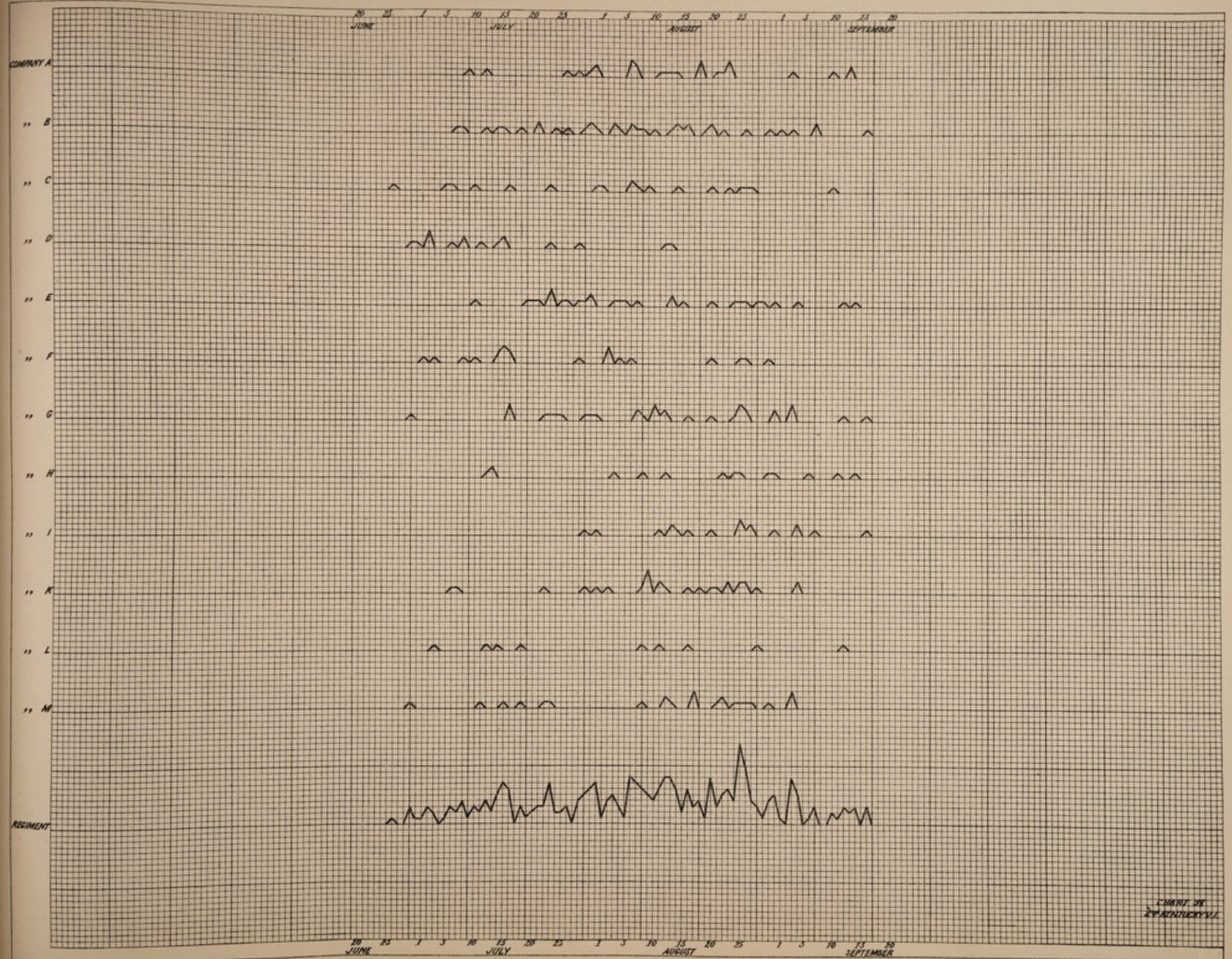
Chart 38, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 209.)

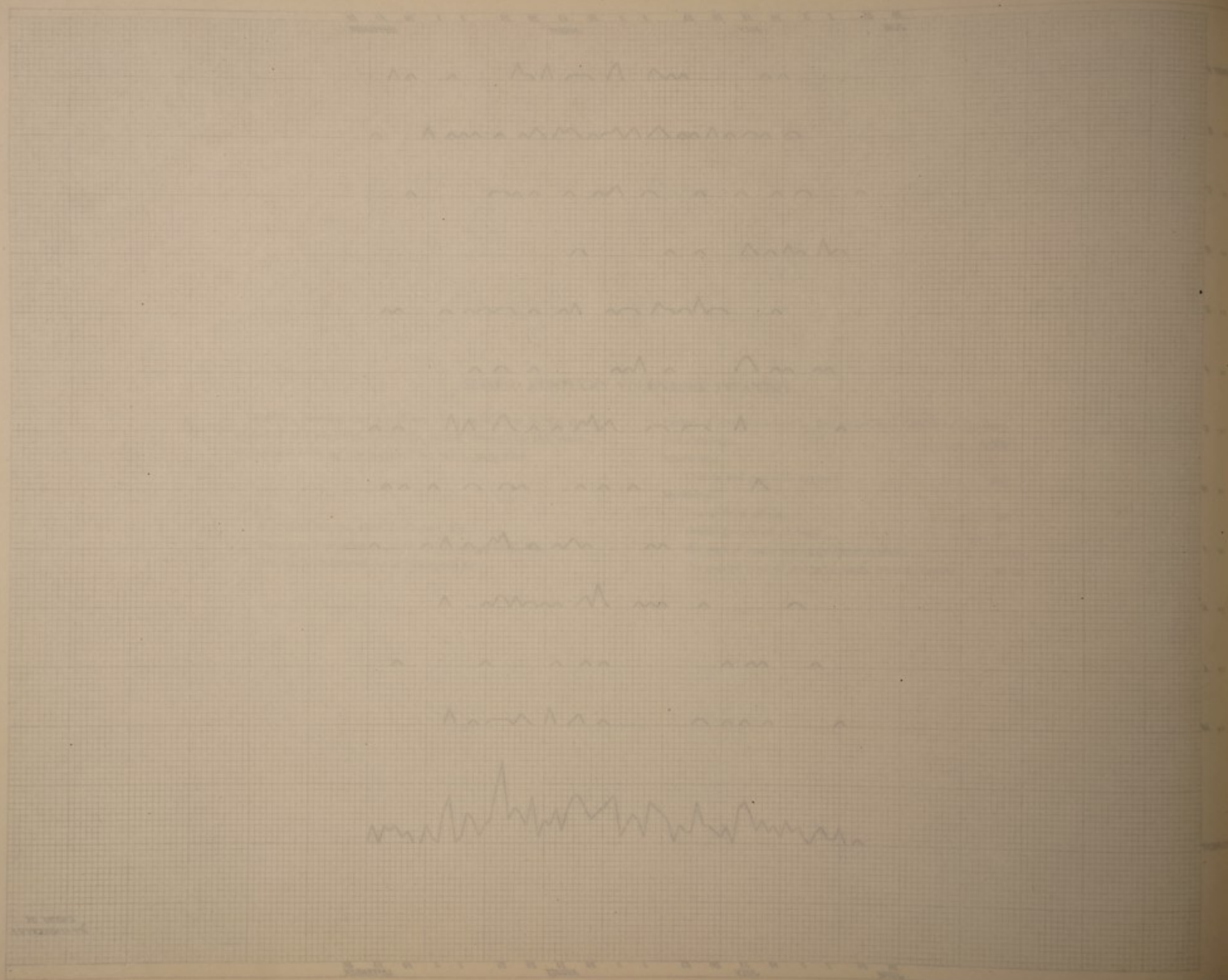
Camps:

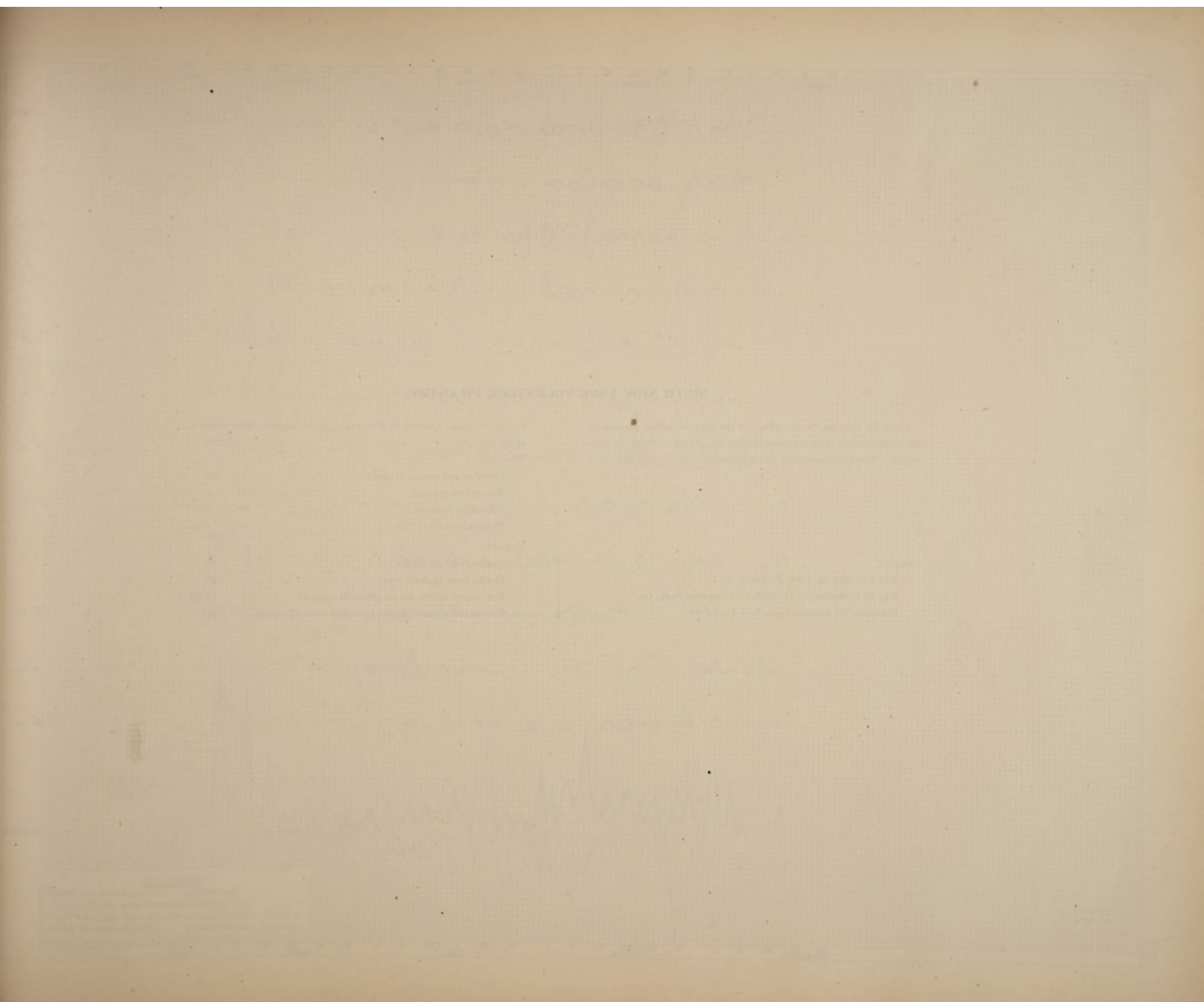
May 14 to May 24, 1898, Lexington, Ky.
May 26 to September 12, 1898, Chickamauga Park, Ga.
October 31, mustered out at Lexington Ky.

Period of service covered by this report, two months twenty days.

Mean strength.....	1,332
Morbidity:	
Certain and probable typhoid.....	286
Mortality:	
Deaths from all causes.....	30
Deaths from typhoid fever.....	28
Per cent of deaths among probable typhoid.....	9.79
Per cent of typhoid deaths to deaths from all causes...	93.33







NINTH NEW YORK VOLUNTEER INFANTRY.

Chart 39, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 215.)

Camps:

May 2 to May 24, 1898, Peekskill, N. Y.
May 26 to September 14, 1898, Chickamauga Park, Ga.
November 15, mustered out, New York City.

Period of service covered by this report, three months eighteen days.

Mean strength..... 1,292

Morbidity:

Probable and certain typhoid	323
Recognized typhoid	139
Diarrhoeal diseases	99
Malaria (so called)	85

323

Mortality:

Deaths from all causes.....	46
Deaths from typhoid fever.....	46
Per cent of deaths among probable typhoid.....	14.24
Per cent of typhoid deaths to deaths from all causes...	100

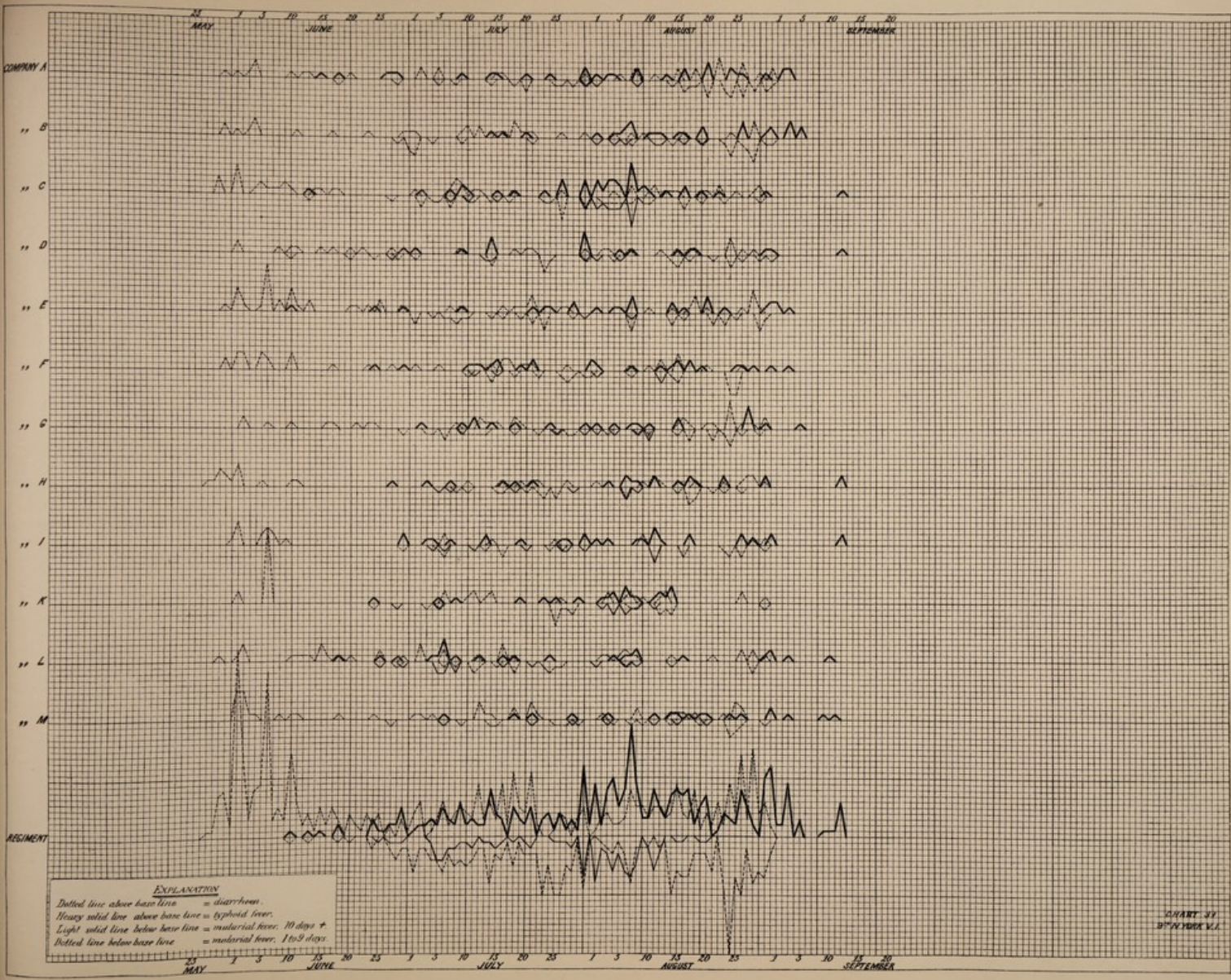
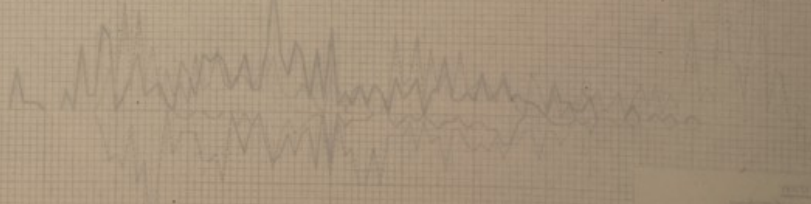
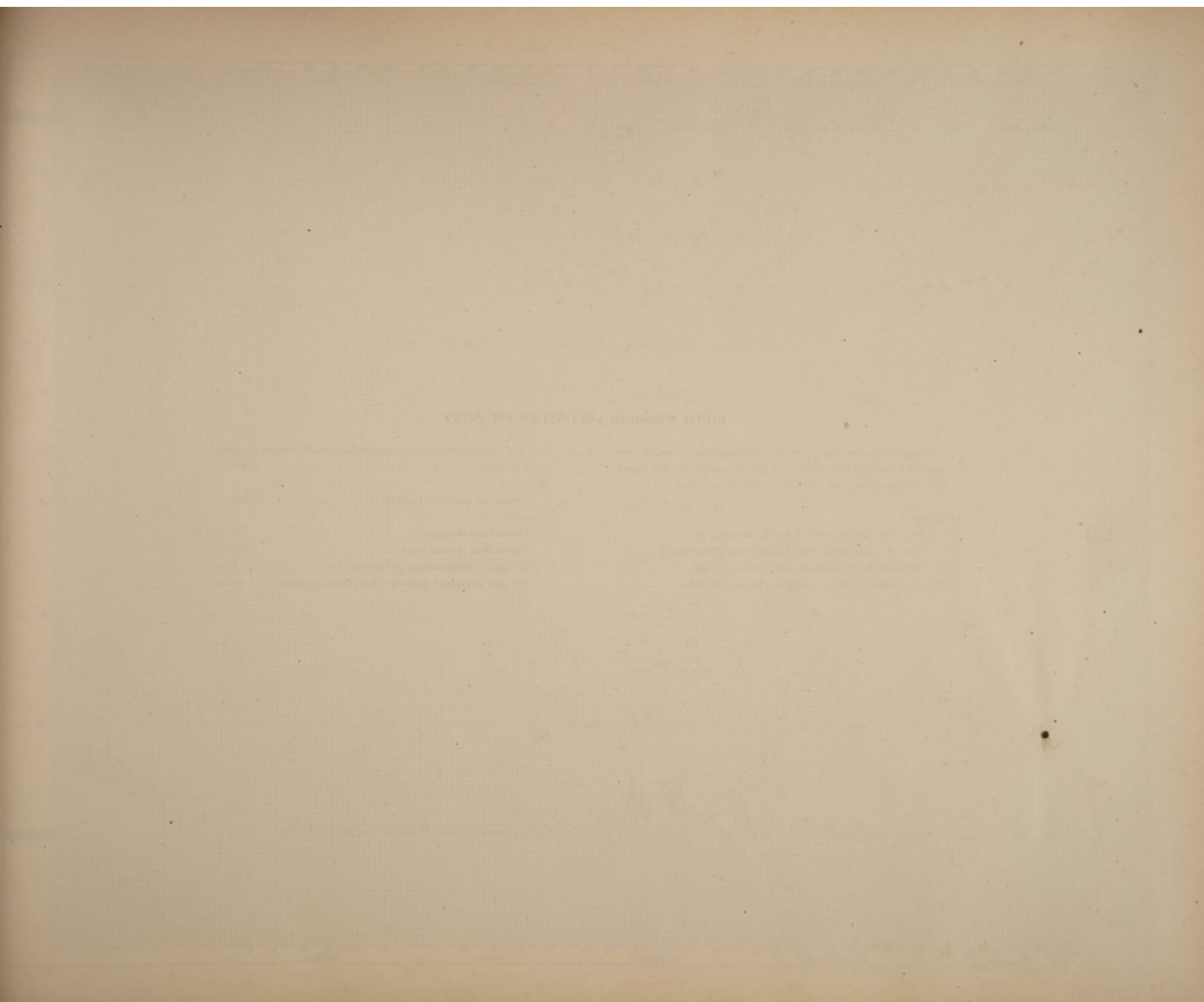


CHART 37
BTH NEW YORK V.I.

1. The first part of the paper is devoted to a general
 introduction of the subject and a brief review of the
 literature. The second part is devoted to a detailed
 description of the experimental method and the results
 obtained. The third part is devoted to a discussion of the
 results and a comparison with the theoretical predictions.
 The fourth part is devoted to a conclusion and a
 summary of the results. The fifth part is devoted to
 a list of references. The sixth part is devoted to an
 appendix containing the detailed calculations and the
 figures. The seventh part is devoted to a list of
 symbols and abbreviations. The eighth part is devoted
 to a list of figures. The ninth part is devoted to a
 list of tables. The tenth part is devoted to a list of
 footnotes. The eleventh part is devoted to a list of
 appendices. The twelfth part is devoted to a list of
 references. The thirteenth part is devoted to a list of
 symbols and abbreviations. The fourteenth part is
 devoted to a list of figures. The fifteenth part is
 devoted to a list of tables. The sixteenth part is
 devoted to a list of footnotes. The seventeenth part
 is devoted to a list of appendices. The eighteenth
 part is devoted to a list of references. The nineteenth
 part is devoted to a list of symbols and abbreviations.
 The twentieth part is devoted to a list of figures.



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FIFTH MISSOURI VOLUNTEER INFANTRY.

Chart 40, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 229.)

Camps:

May 18 to May 24, 1898, Jefferson Barracks, Mo.
May 27 to August 27, 1898, Chickamauga Park, Ga.
August 28 to September 6, 1898, Lexington, Ky.
September 16, 1898, furloughed, Kansas City, Mo.

Period of service covered by this report, four months twenty-six days.

Mean strength..... 1,274

Morbidity:

Certain and probable typhoid..... 212

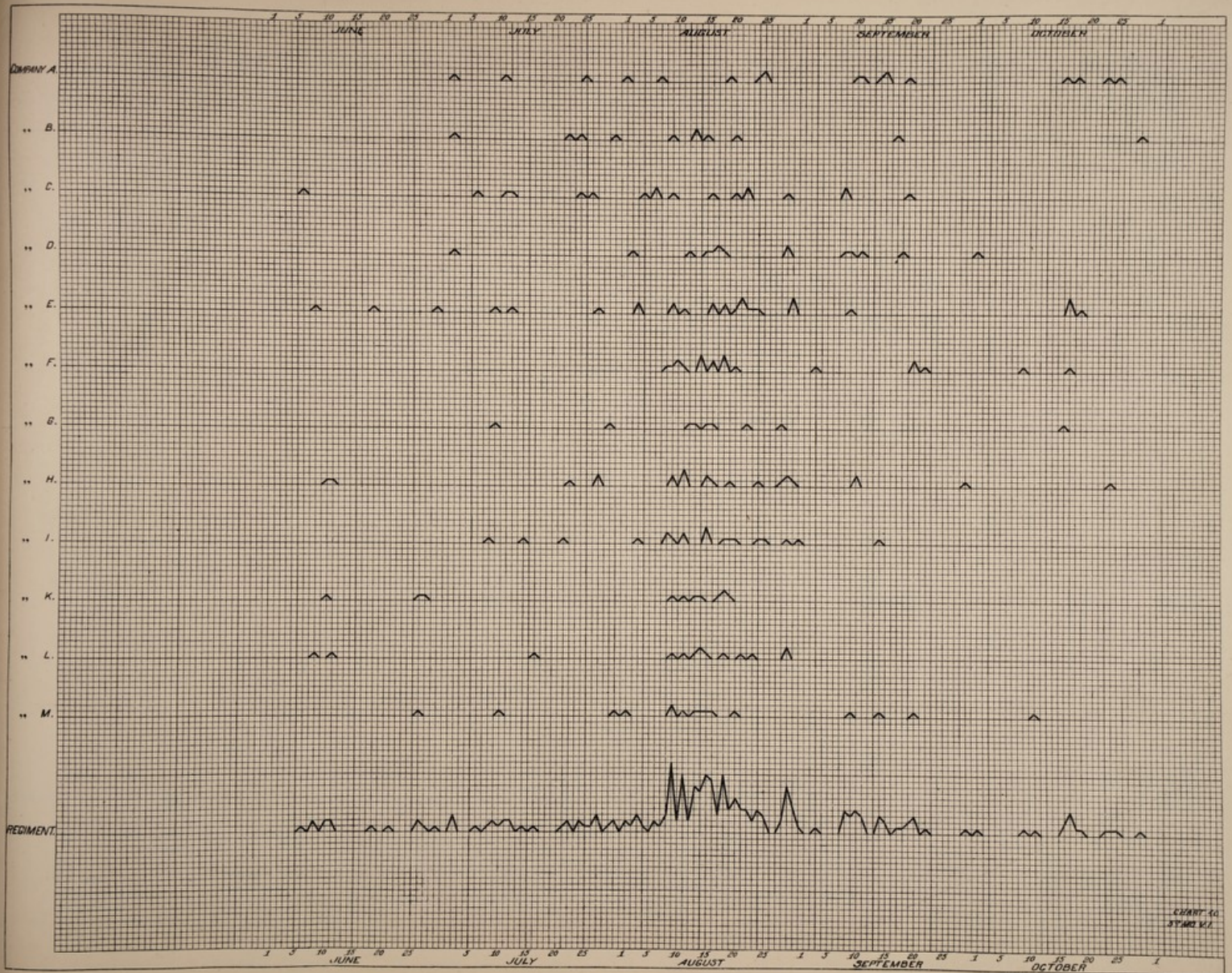
Mortality:

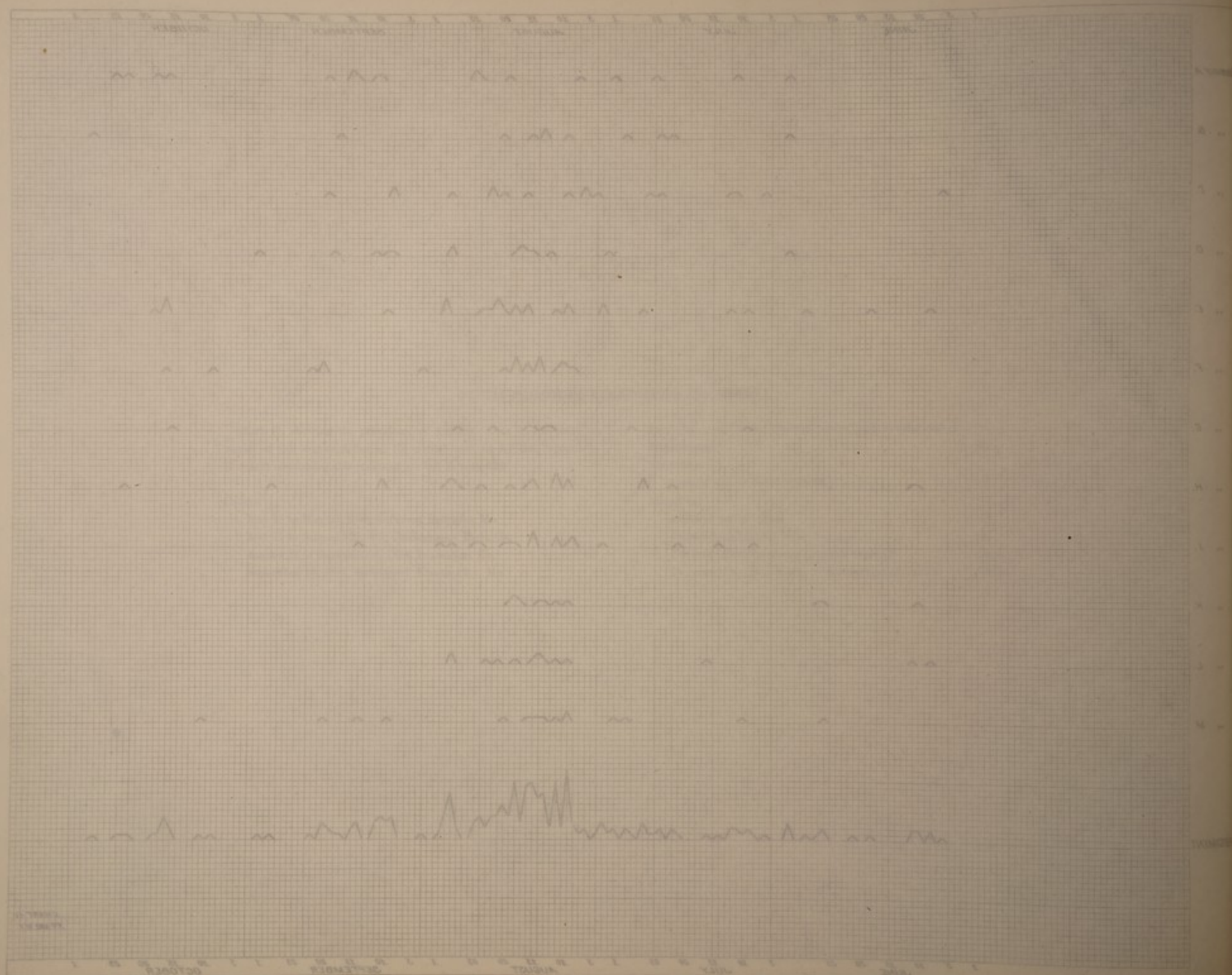
Deaths from all causes..... 16

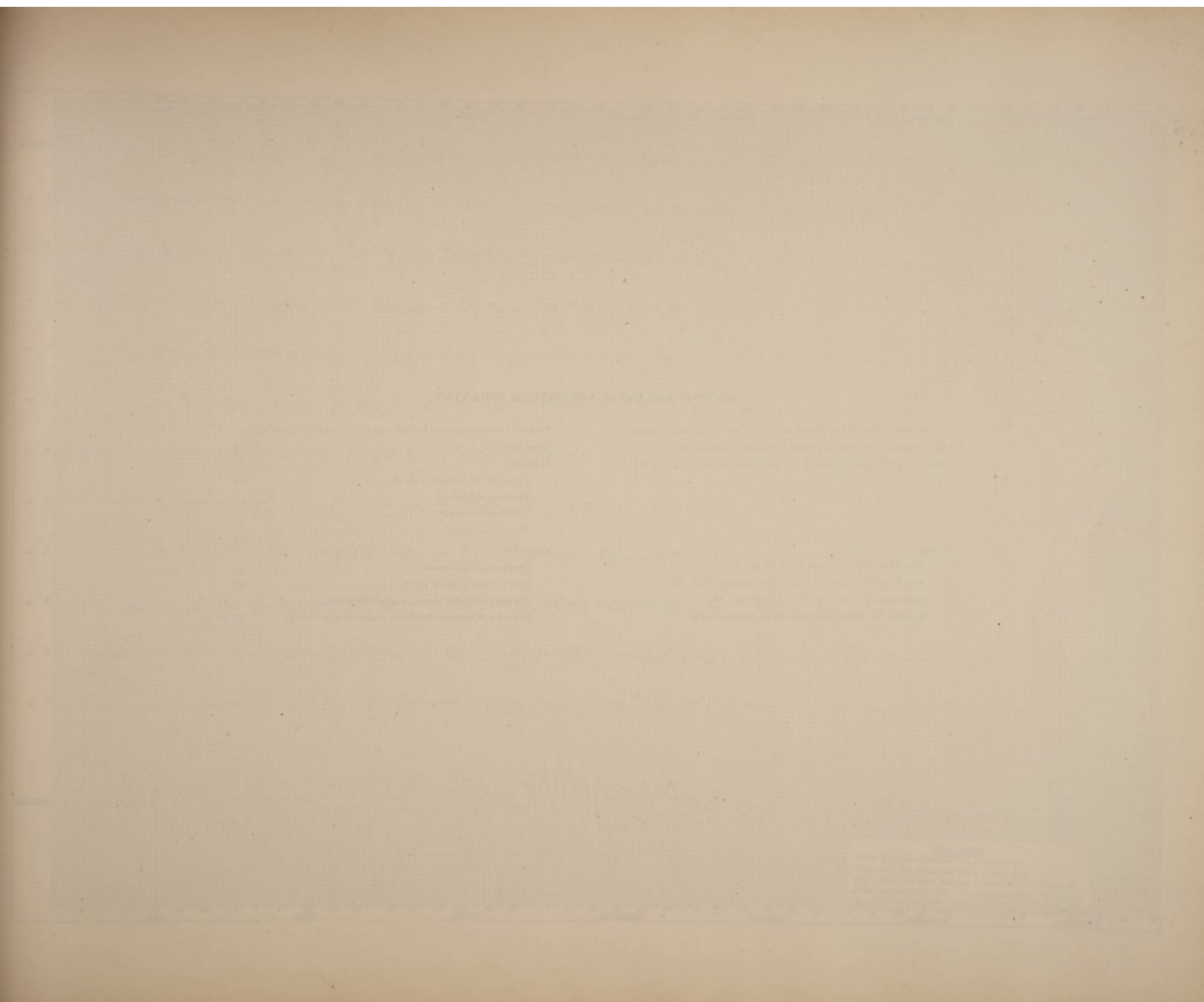
Deaths from typhoid fever..... 14

Per cent of deaths among probable typhoid..... 6.60

Per cent of typhoid deaths to deaths from all causes... 87.50







SECOND ARKANSAS VOLUNTEER INFANTRY.

Chart 41, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 233.)

Camps:

May 14 to May 27, 1898, Little Rock, Ark.
May 30 to September 9, 1898, Chickamauga Park, Ga.
September 10, 1898, arrived at Anniston, Ala.
February 25, 1899, mustered out at Anniston, Ala.

Period of service covered by this report, six months thirty days.

Mean strength..... 1,291

Morbidity:

Probable and certain typhoid..... 287

Recognized typhoid..... 95

Diarrheal diseases..... 39

Malaria (so called)..... 153

..... 287

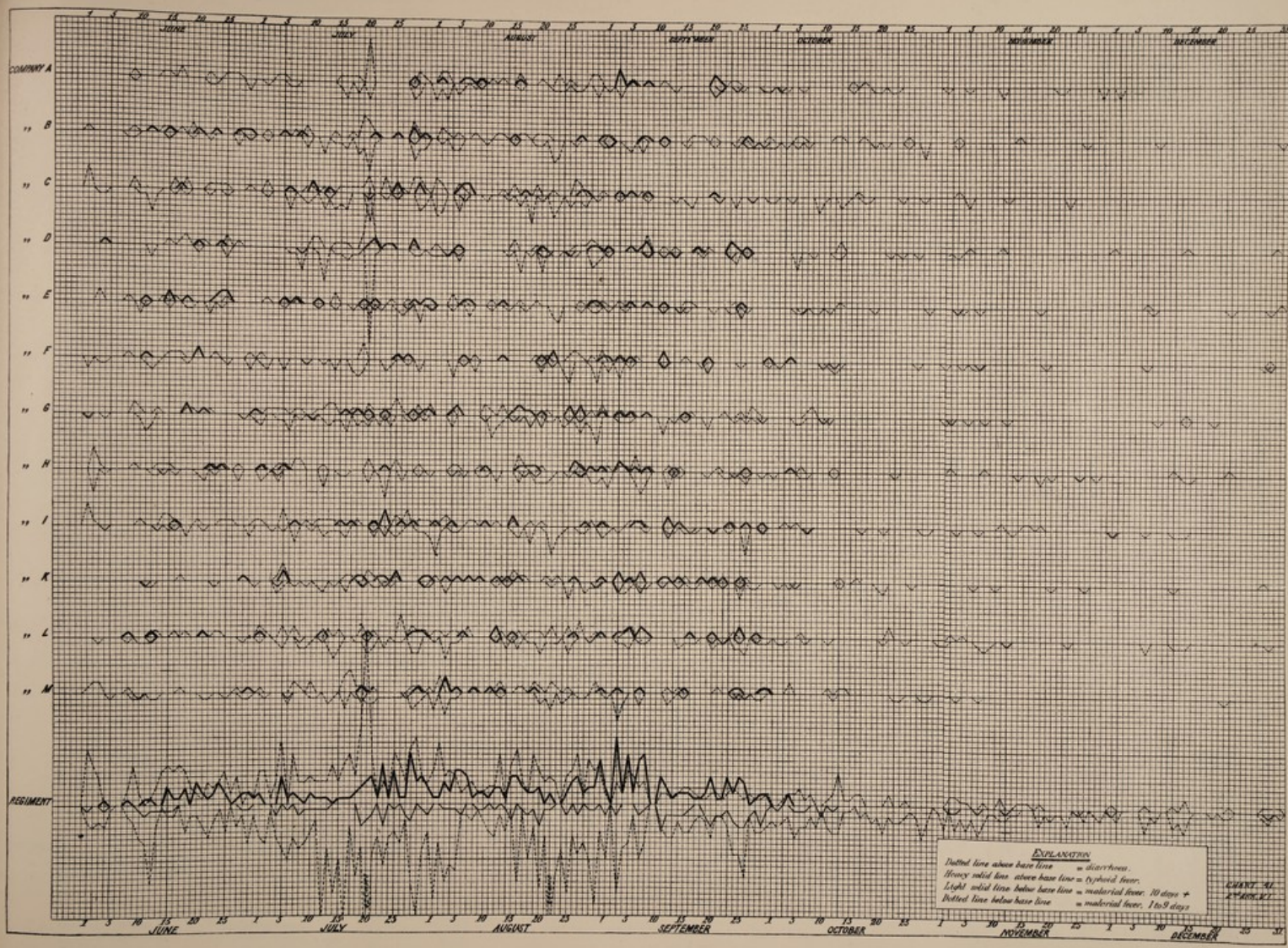
Mortality:

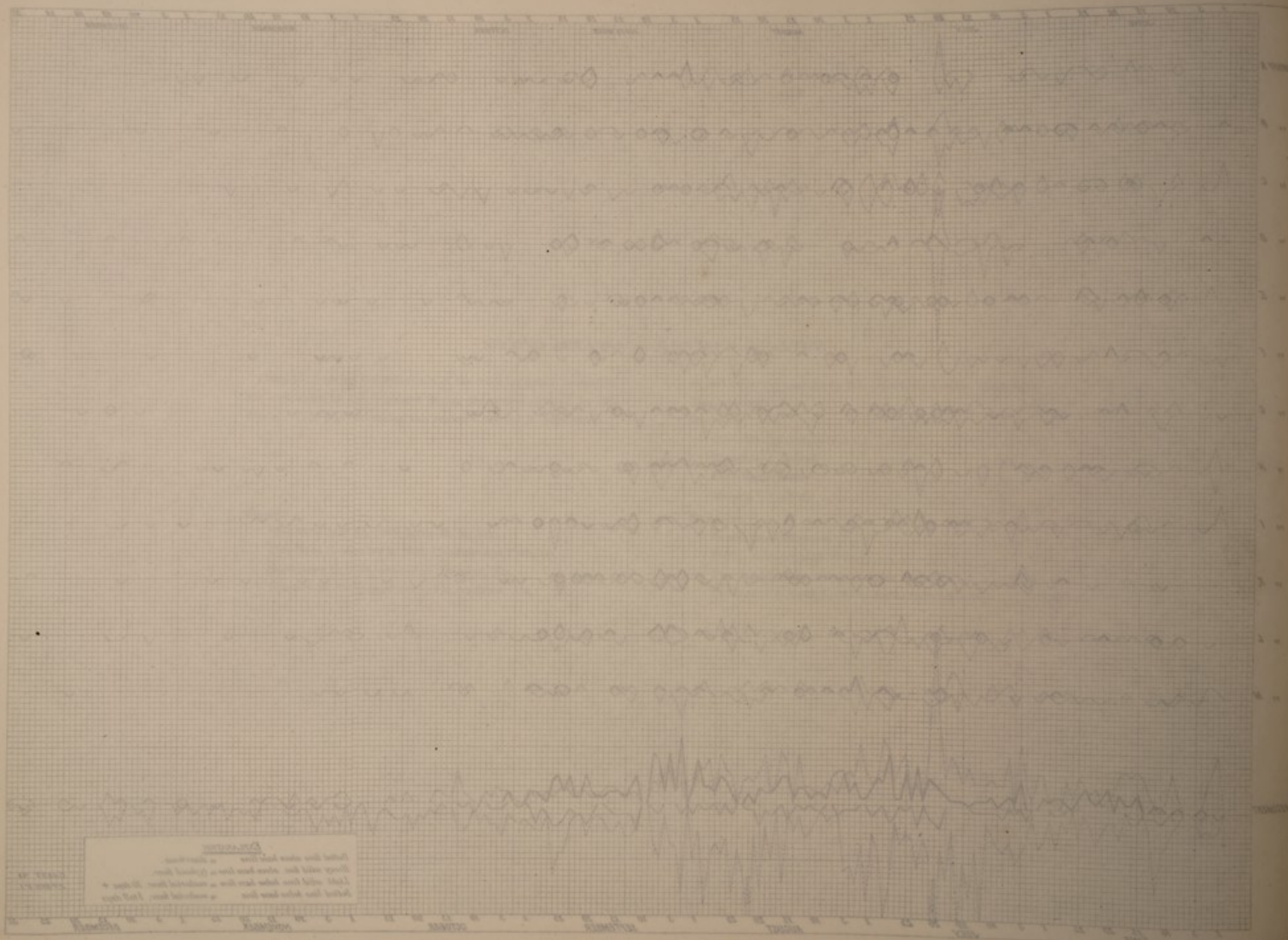
Deaths from all causes..... 26

Deaths from typhoid fever..... 17

Per cent of deaths among probable typhoid..... 5.92

Per cent of typhoid deaths to deaths from all causes... 65.39





SIXTY-NINTH NEW YORK VOLUNTEER INFANTRY.

Chart 42, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 240.)

Camps:

May 6 to May 25, 1898, Camp Black, Long Island.
May 27 to June 2, 1898, Chickamauga Park, Ga.
June 6 to July 24, 1898, Tampa, Fla.
July 25 to August 27, 1898, Fernandina, Fla.
August 27 to September 1, 1898, Huntsville, Ala.
January 31, 1899, mustered out, New York City, N. Y.

Period of service covered by this report, six months twenty-four days.

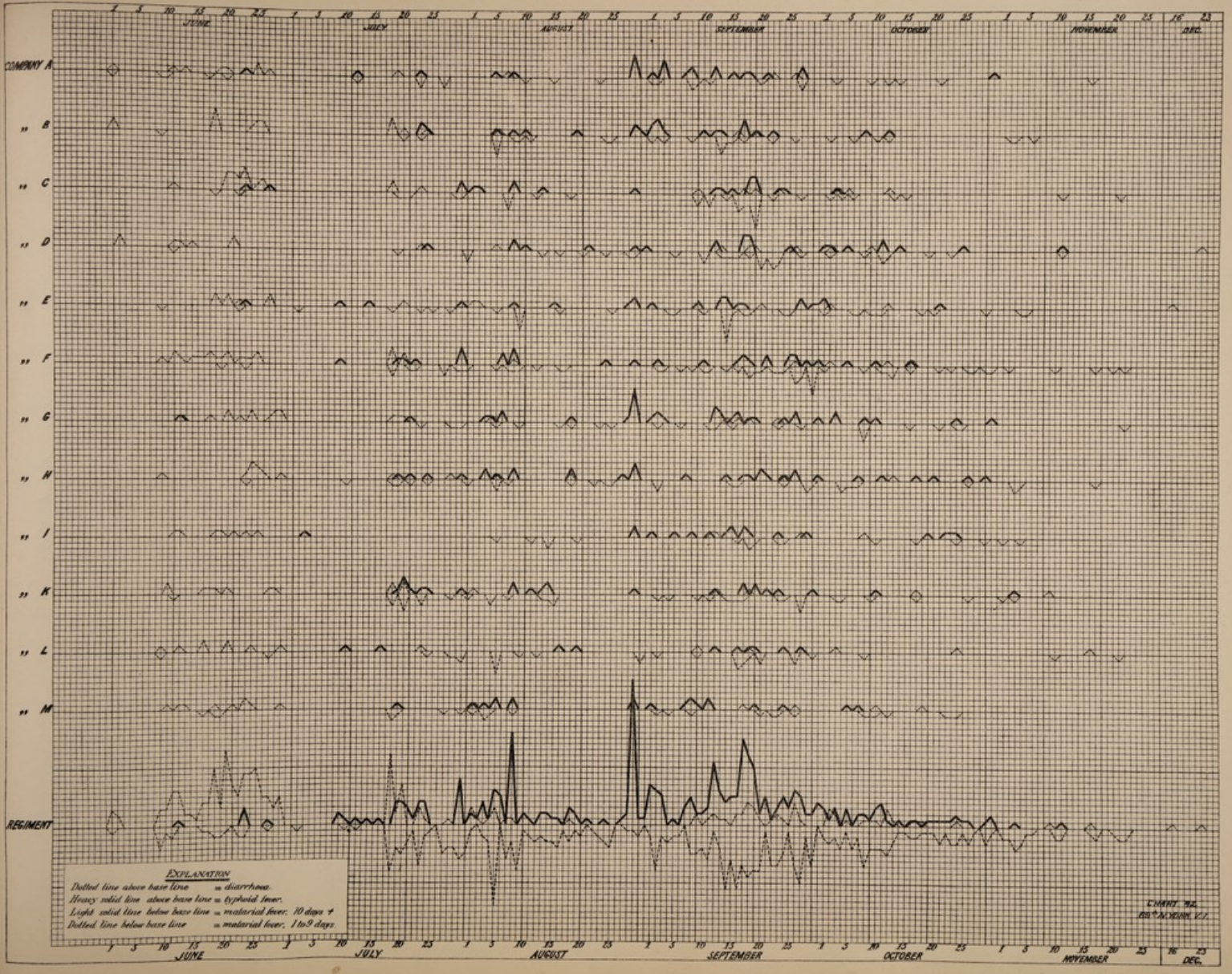
Mean strength..... 1,026

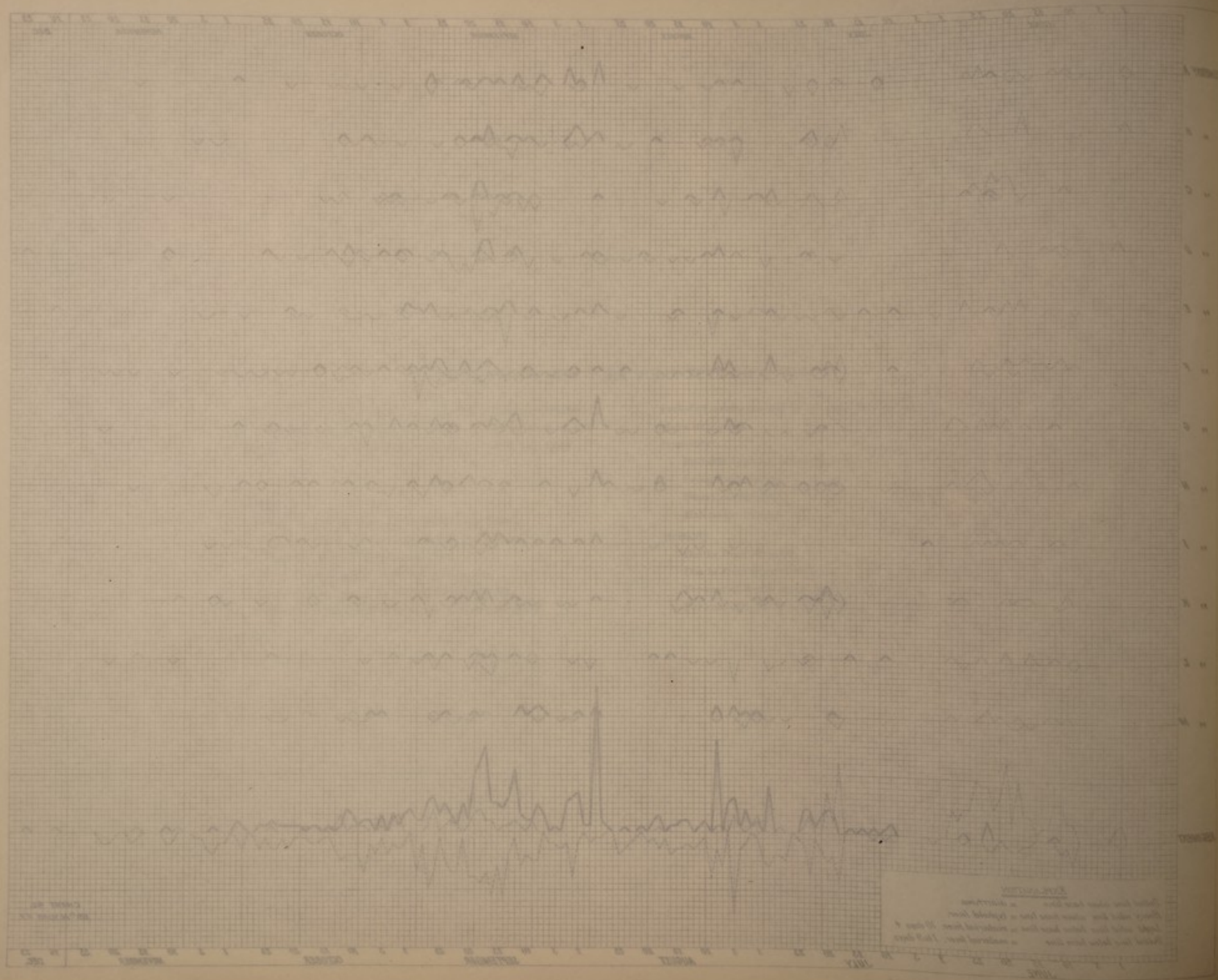
Morbidity:

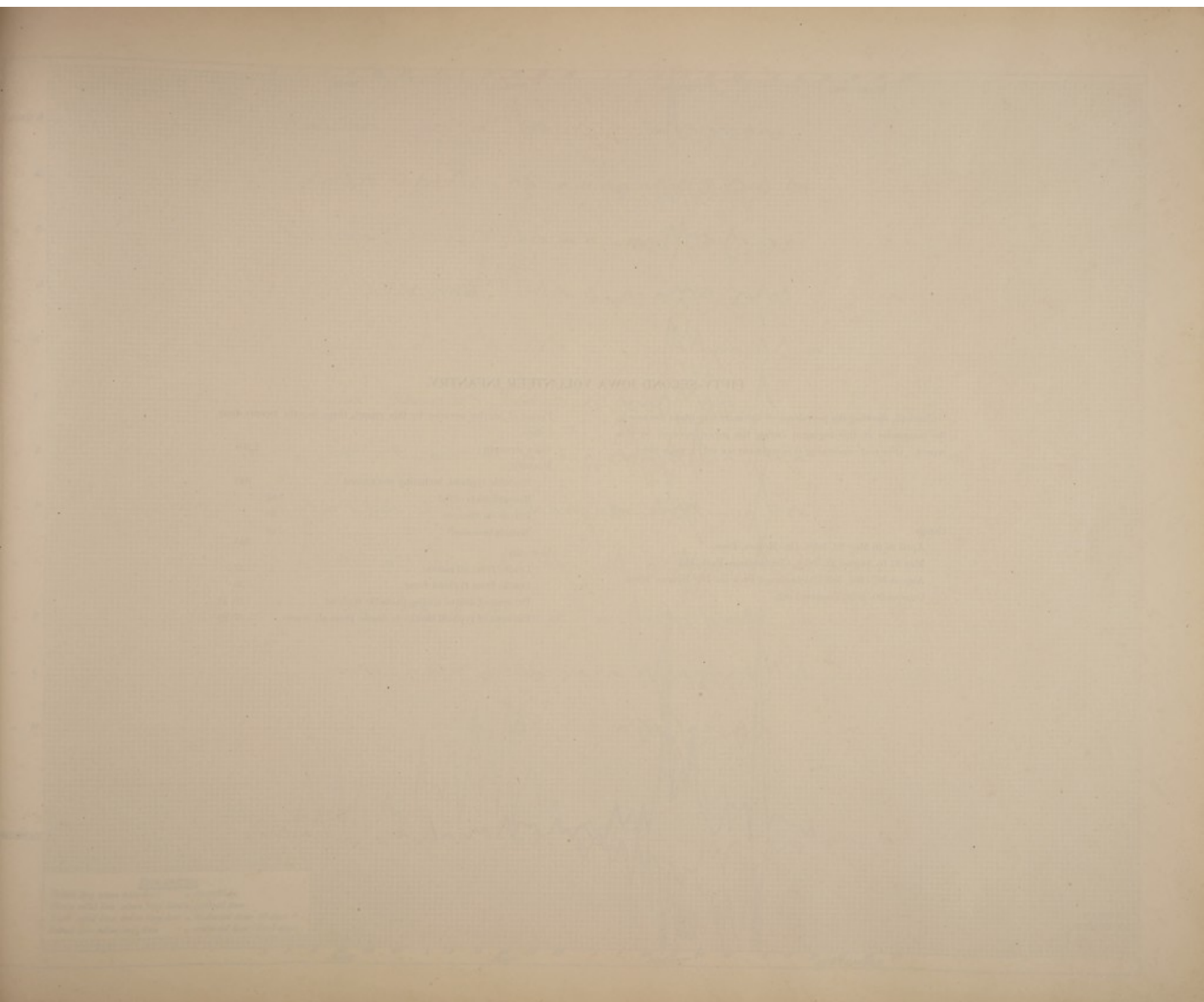
Probable typhoid, including recognized..... 299
Recognized typhoid 191
Diarrheal diseases 9
Malaria (so called)..... 99

Mortality:

Deaths from all causes..... 25
Deaths from typhoid fever..... 23
Per cent of deaths among probable typhoid..... 7.69
Per cent of typhoid deaths to deaths from all causes... 92.00







FIFTY-SECOND IOWA VOLUNTEER INFANTRY.

Chart 43, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 250.)

Camps:

April 26 to May 29, 1898, Des Moines, Iowa.
May 31 to August 28, 1898, Chickamauga Park, Ga.
August 28, 1898, left Chickamauga Park for Des Moines, Iowa.
October 30, 1898, mustered out.

Period of service covered by this report, three months twenty-four days.

Mean strength 1,304

Morbidity:

Probable typhoid, including recognized 345

Recognized typhoid 184

Diarrhoeal diseases 49

Malaria (so called) 112

345

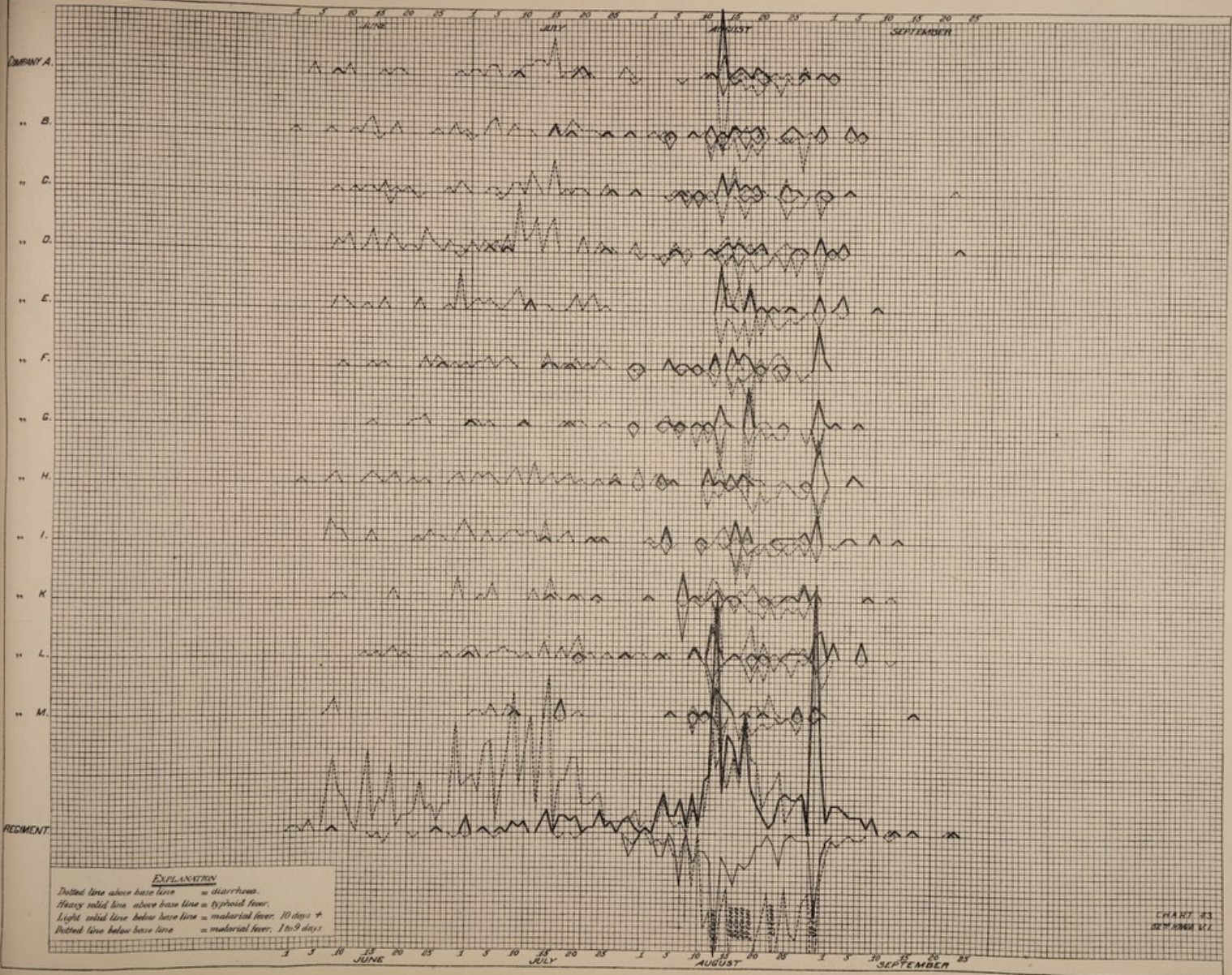
Mortality:

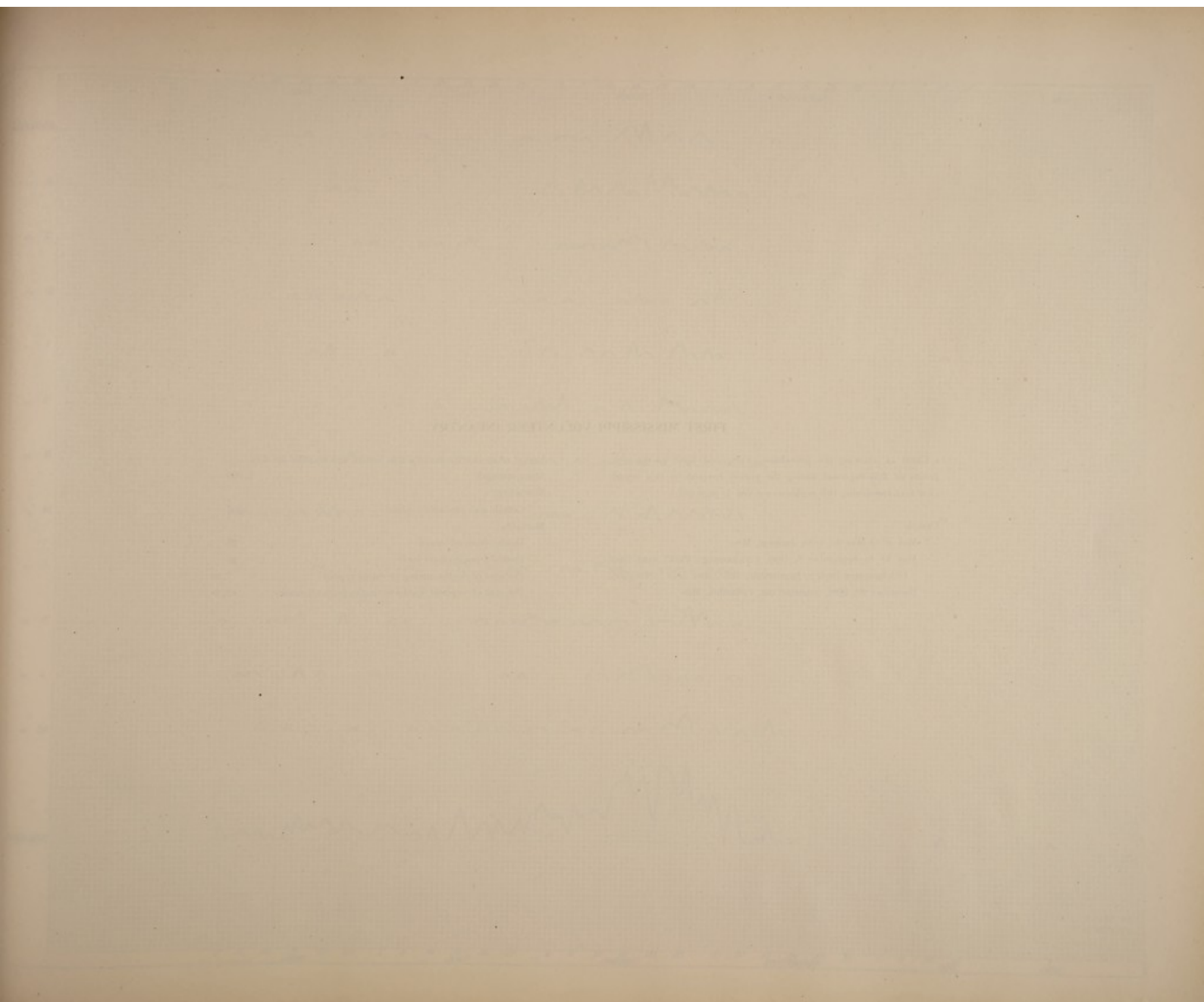
Deaths from all causes 37

Deaths from typhoid fever 36

Per cent of deaths among probable typhoid 10.43

Per cent of typhoid deaths to deaths from all causes... 97.29





FIRST MISSISSIPPI VOLUNTEER INFANTRY.

Chart 44, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 257.)

Camps:

- May 26 to May 30, 1898, Jackson, Miss.
- May 31 to September 8, 1898, Chickamauga Park; went from Chickamauga Park to Lauderdale, Miss., and here furloughed.
- December 20, 1898, mustered out, Columbia, Miss.

Period of service covered by this report, five months one day.

Mean strength..... 1,029

Morbidity:

Certain and probable typhoid 397

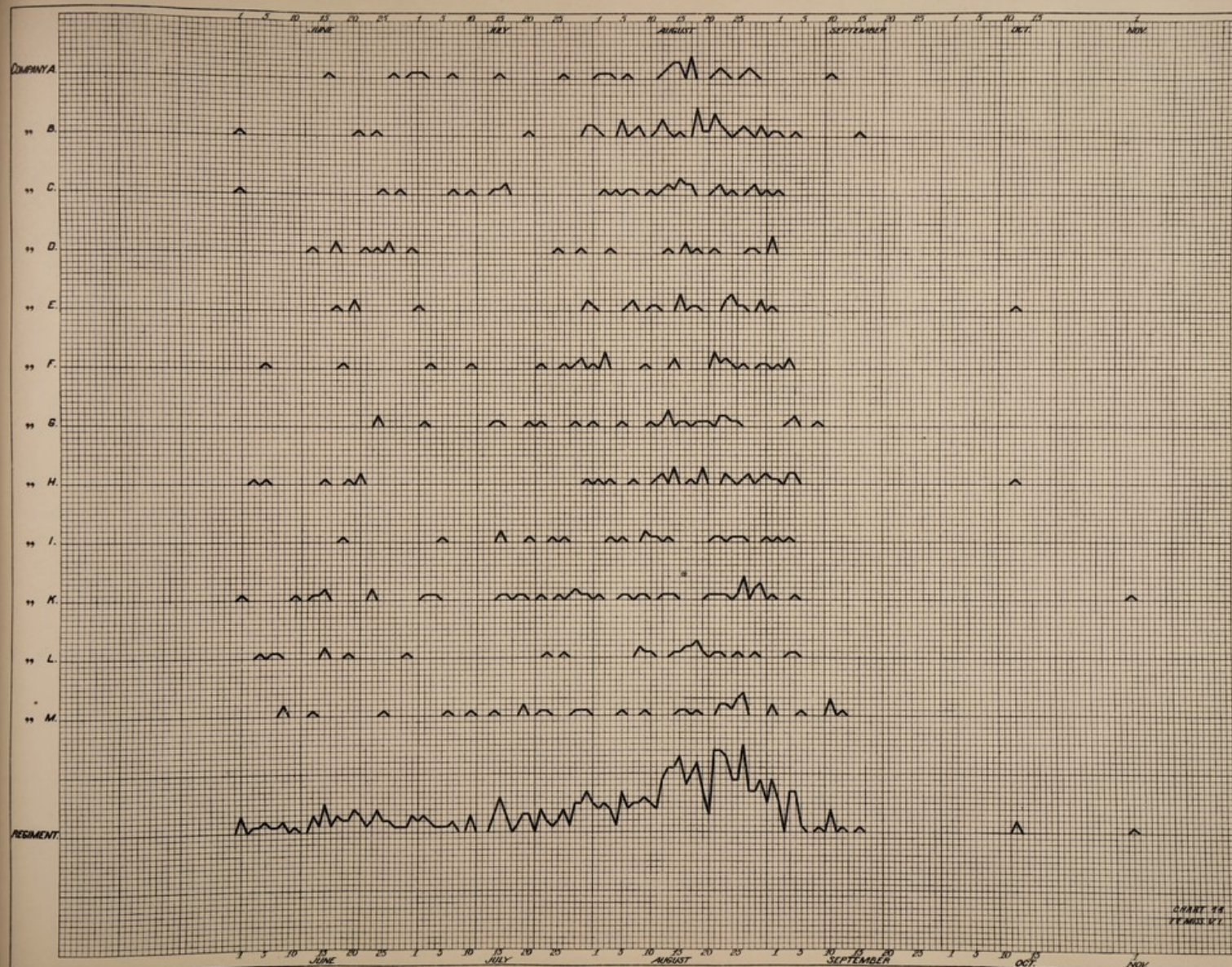
Mortality:

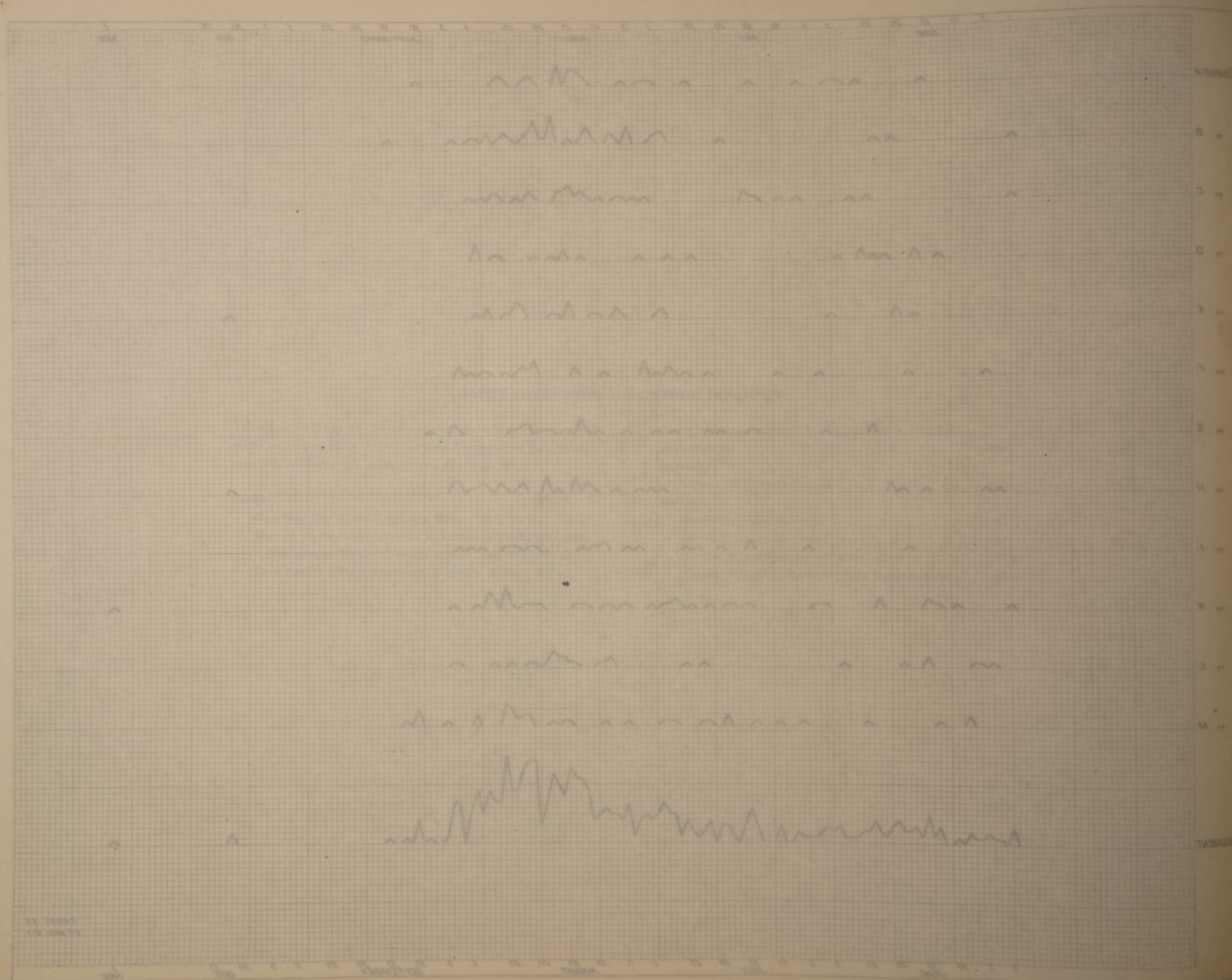
Deaths from all causes..... 33

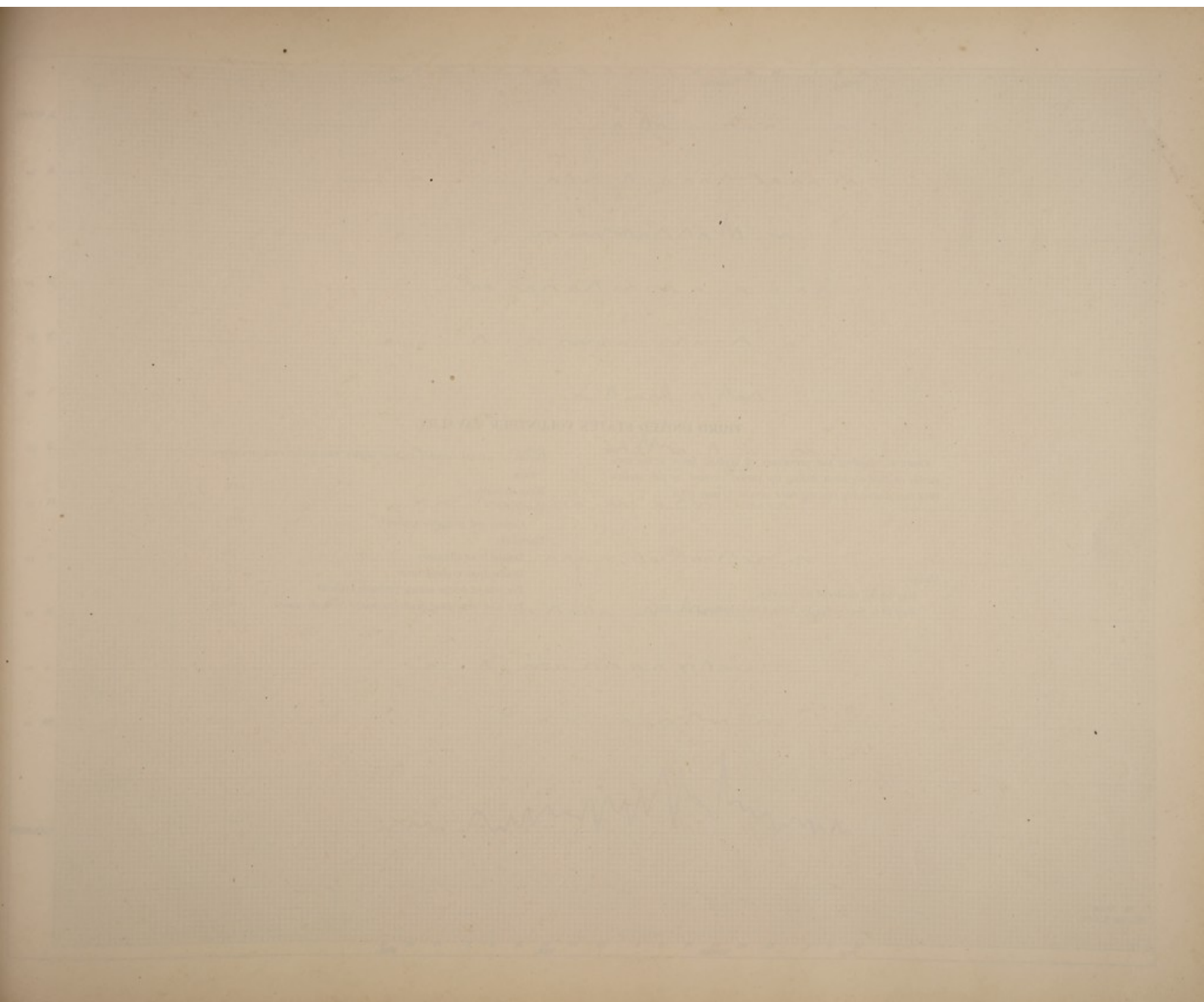
Deaths from typhoid fever..... 29

Per cent of deaths among probable typhoid 7.80

Per cent of typhoid deaths to deaths from all causes... 87.88







THIRD UNITED STATES VOLUNTEER CAVALRY.

Chart 45, showing the prevalence of typhoid fever in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 269.)

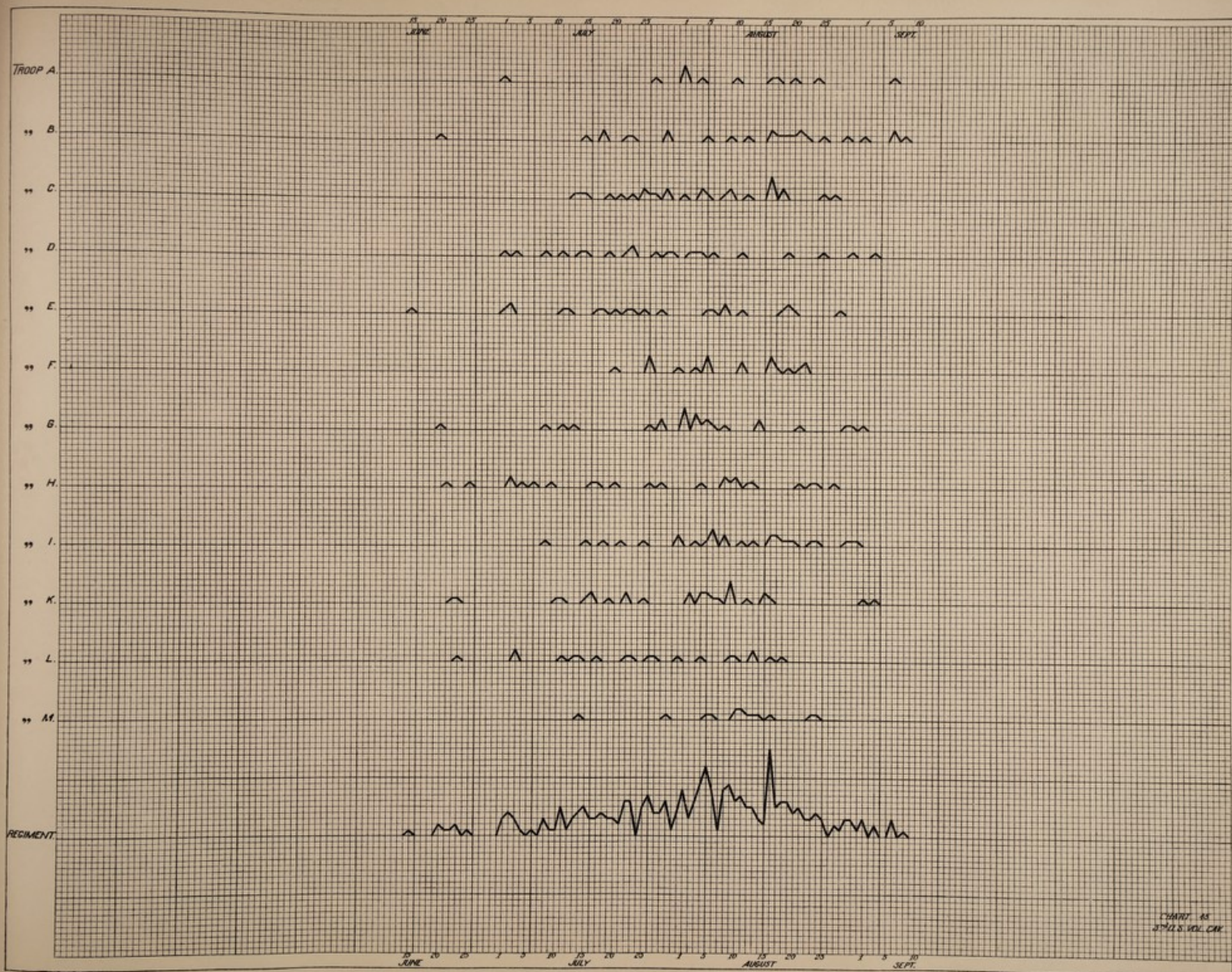
Camps:

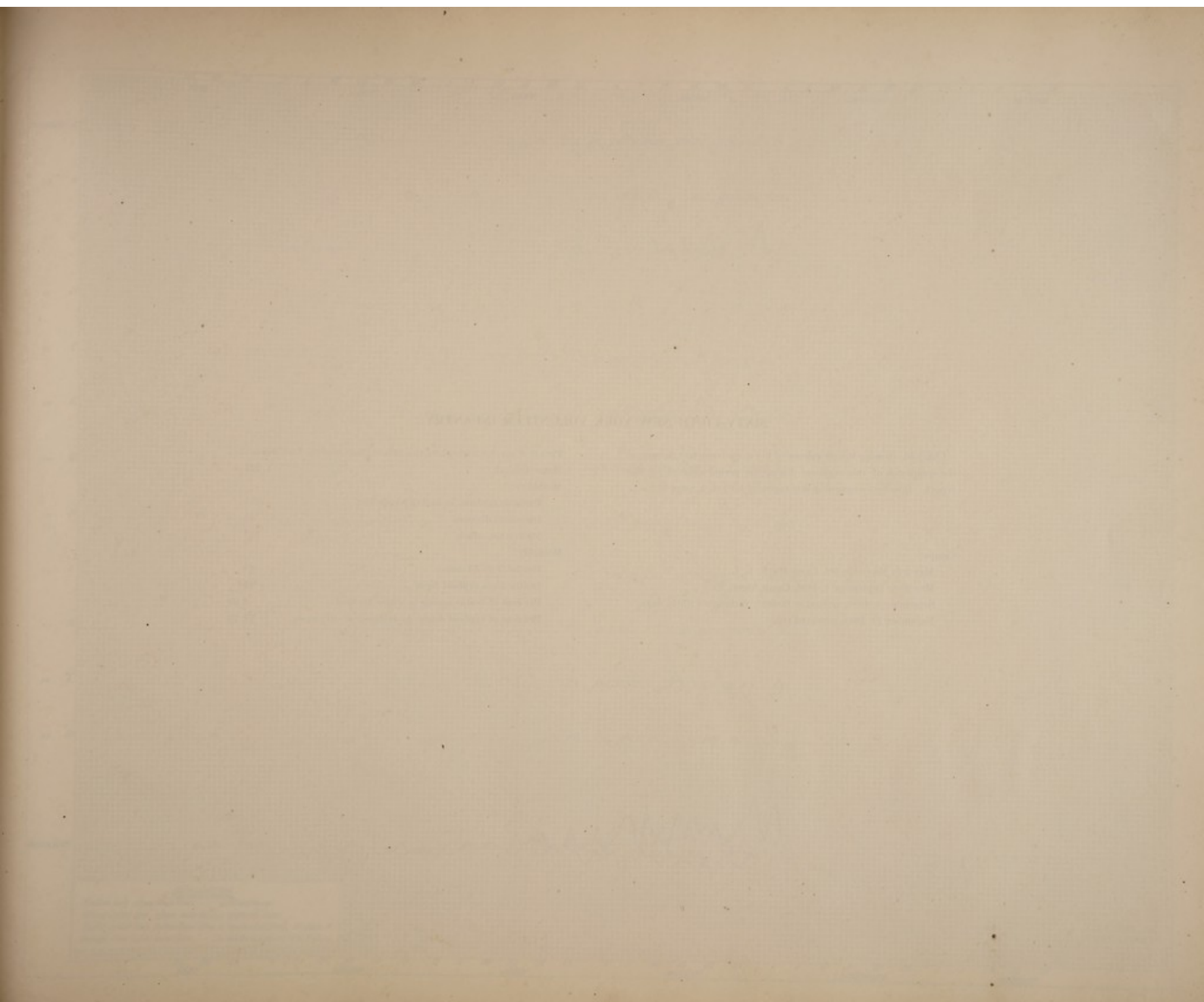
May 10-20, mustered into service.

May 23 to September 10, 1898, Chickamauga Park, Ga.

Period of service covered by this report, two months twenty-seven days.

Mean strength.....	1,013
Morbidity:	
Certain and probable typhoid.....	270
Mortality:	
Deaths from all causes.....	15
Deaths from typhoid fever.....	13
Per cent of deaths among probable typhoid.....	4.81
Per cent of typhoid deaths to deaths from all causes...	86.66





SIXTY-FIFTH NEW YORK VOLUNTEER INFANTRY.

Chart 46, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 312.)

Camps:

May 2 to May 18, 1898, Camp Black, L. I.
May 20 to September 1, 1898, Camp Alger, Va.
September 5, 1898, arrived at Buffalo; furloughed thirty days.
November 19, 1898, mustered out.

Period of service covered by this report, four months four days.

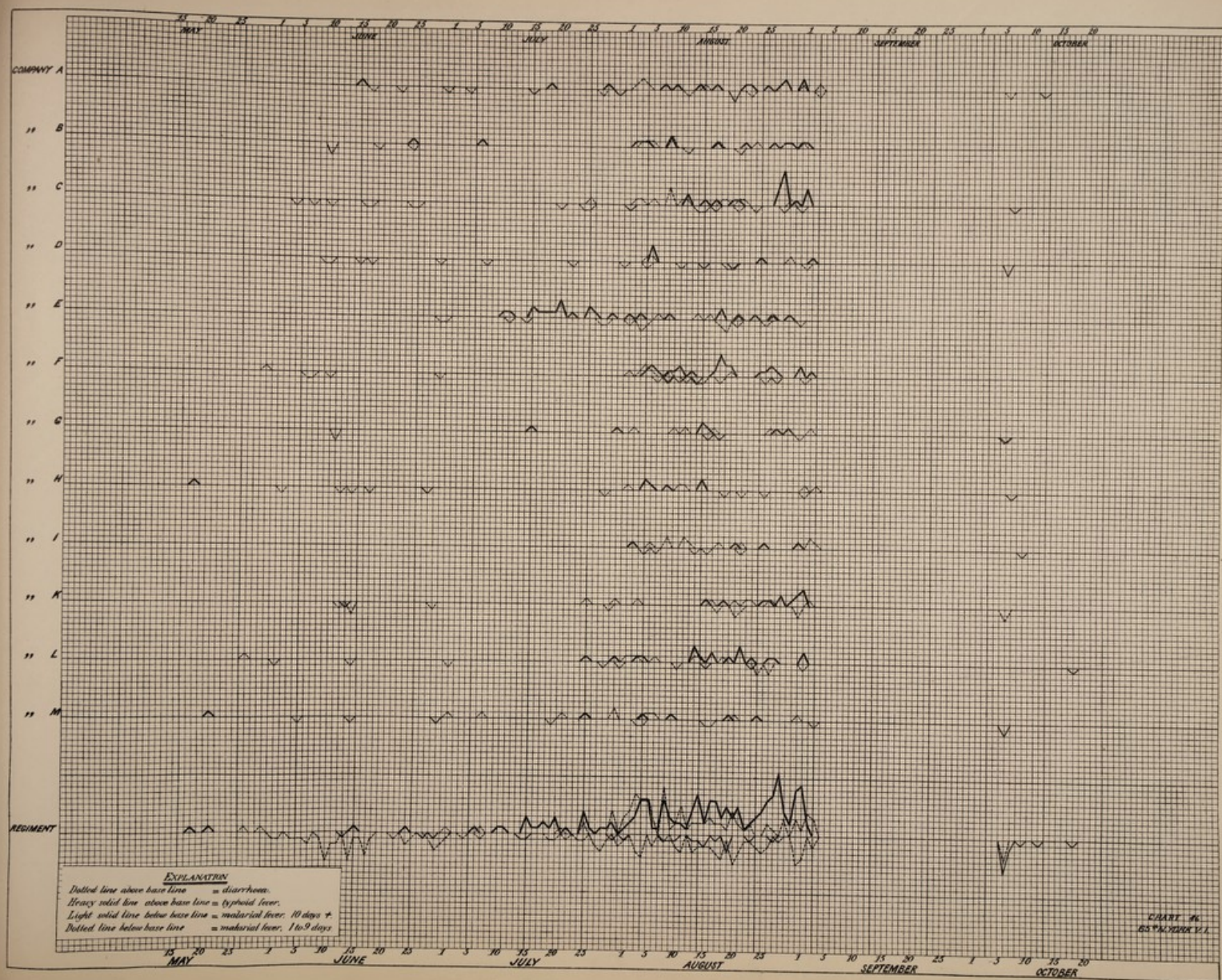
Mean strength..... 1,221

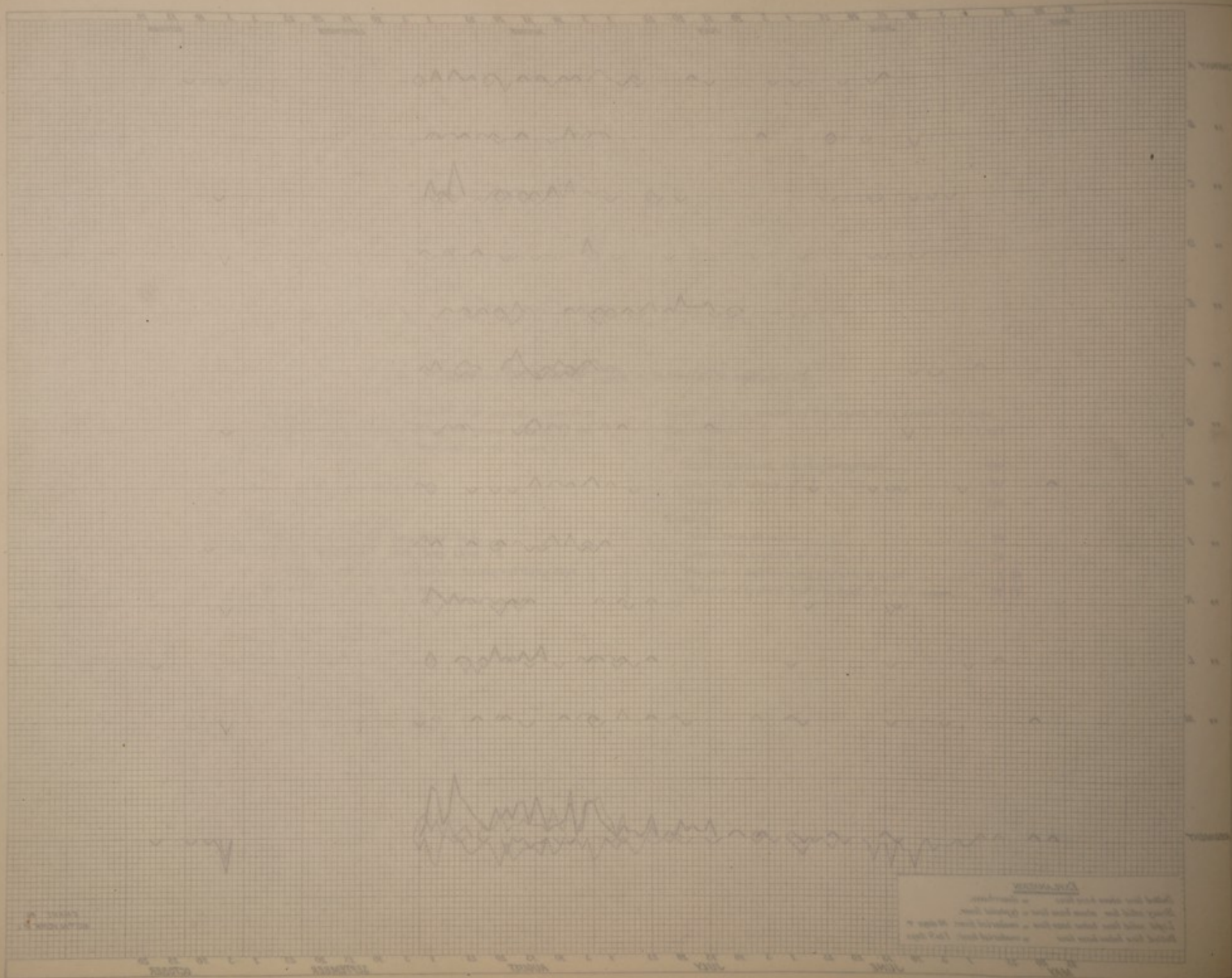
Morbidity:

Probable typhoid, including recognized..... 219
Diarrhoeal diseases..... 94
Malaria (so called)..... 153

Mortality:

Deaths from all causes..... 18
Deaths from typhoid fever..... 14
Per cent of deaths among probable typhoid..... 6.39
Per cent of typhoid deaths to deaths from all causes... 77.77





SEVENTH OHIO VOLUNTEER INFANTRY.

Chart 47, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 315.)

Camps:

May 14 to May 20, 1898, Columbus, Ohio.
May 21 to September 1, 1898, Camp Alger, Va.
September 1, left for Columbus, Ohio.
September 27, 1898, furloughed for thirty days.

Period of service covered by this report, five months twenty-two days.

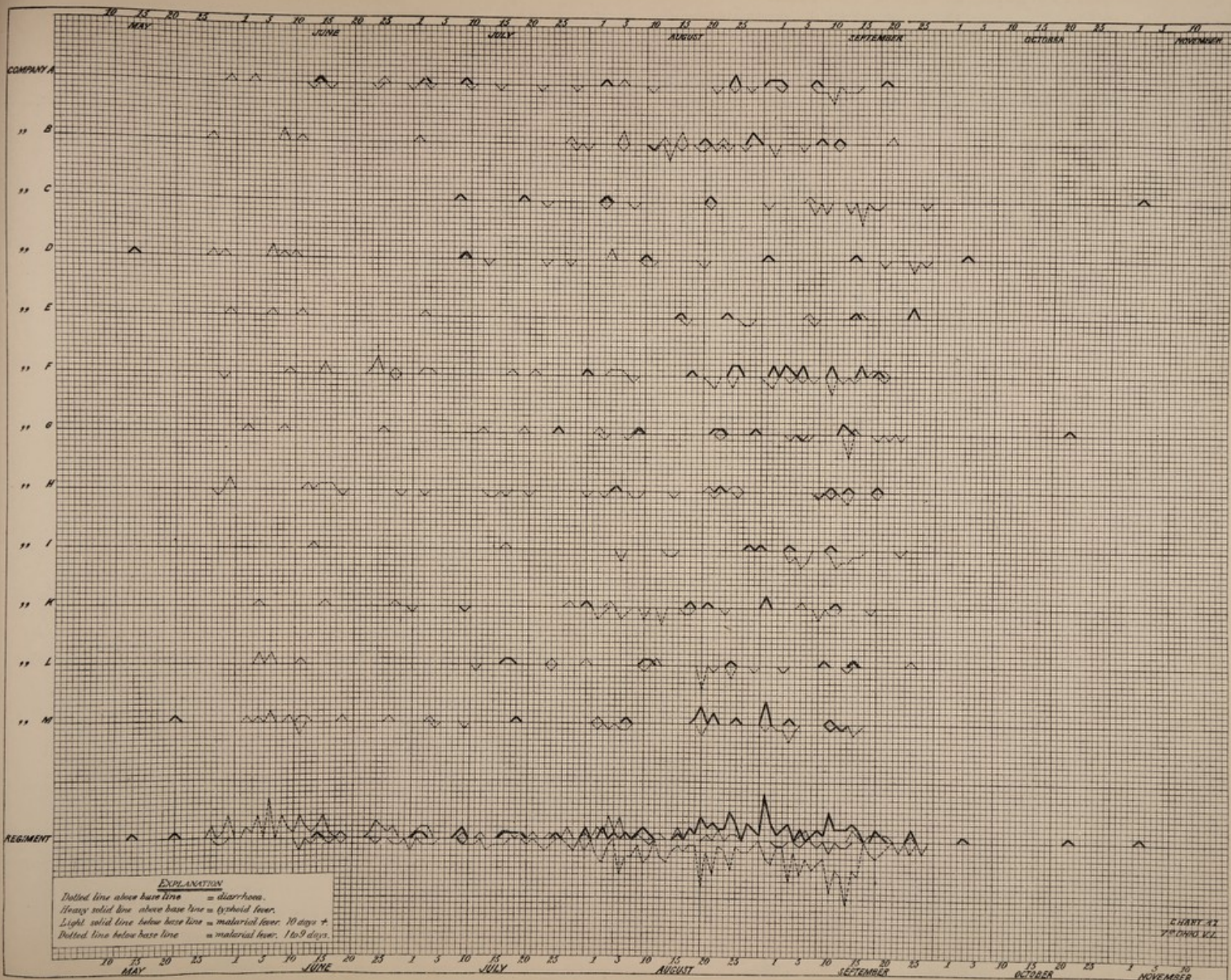
Mean strength..... 1,169

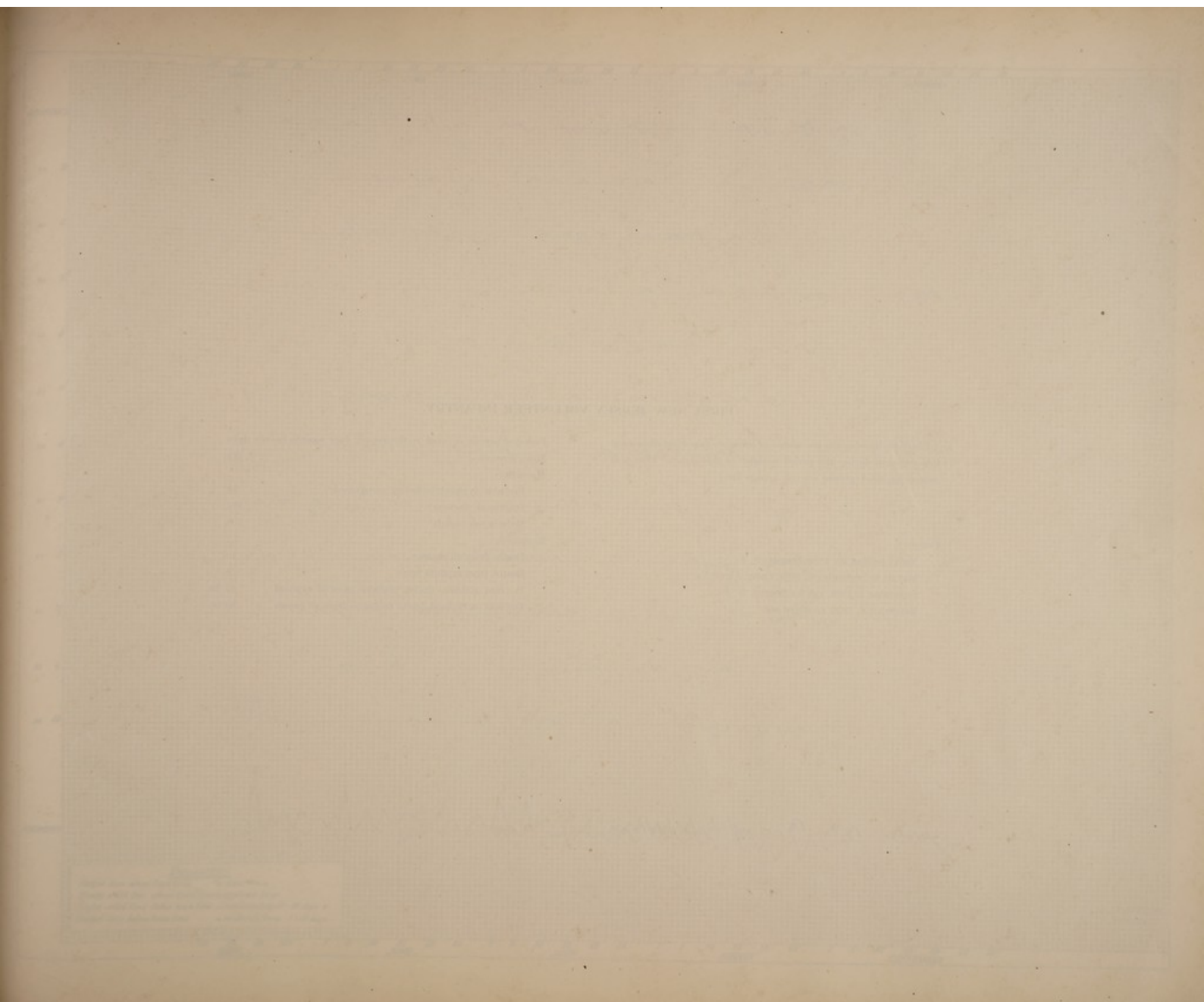
Morbidity:

Probable typhoid, including recognized 125
Diarrheal diseases 96
Malaria 210

Mortality:

Deaths from all causes 5
Deaths from typhoid fever 4
Per cent of deaths among probable typhoid 3.20
Per cent of typhoid deaths to deaths from all causes... 80.00





FIRST NEW JERSEY VOLUNTEER INFANTRY.

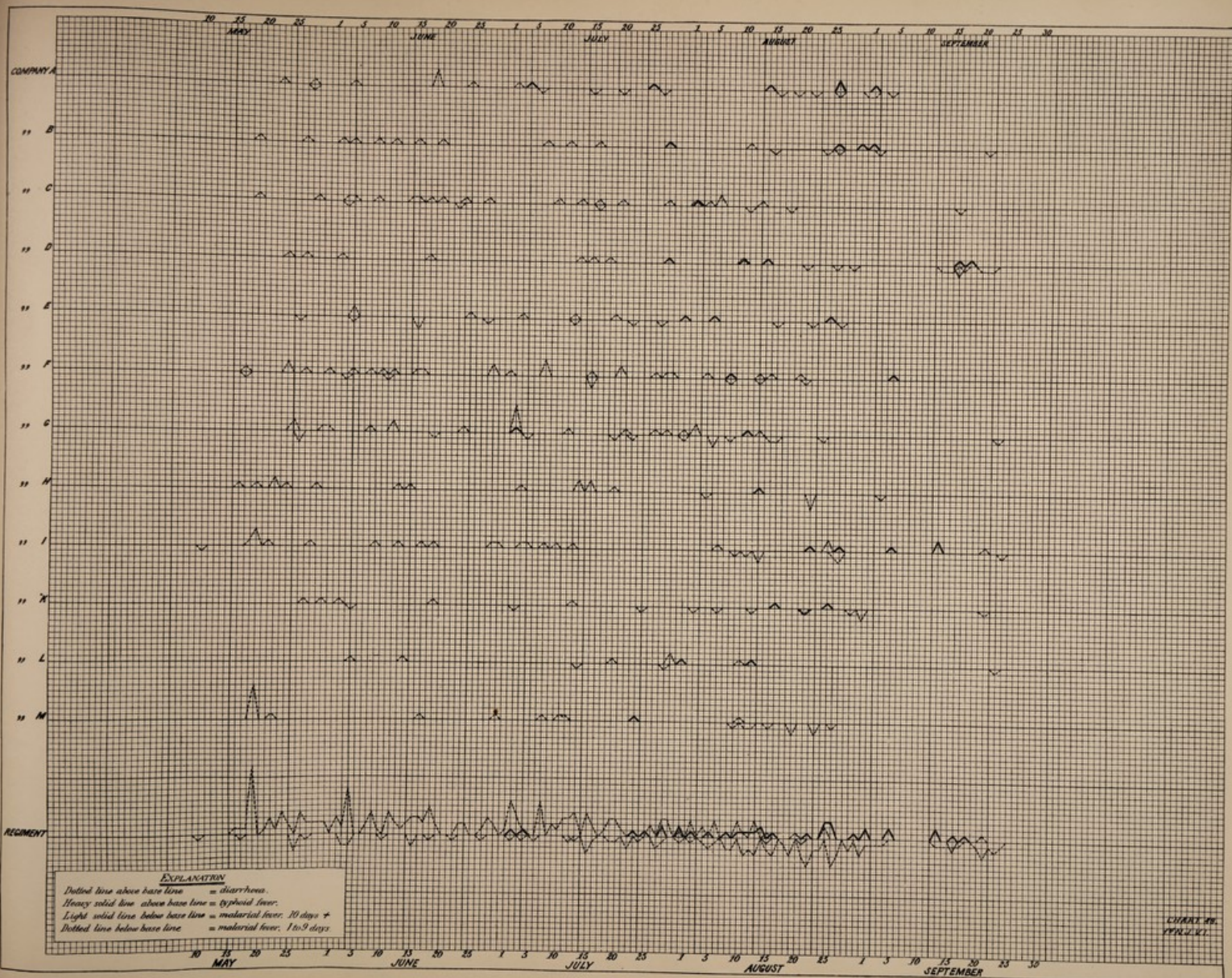
Chart 48, showing the prevalence of the more important diseases in this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 318.)

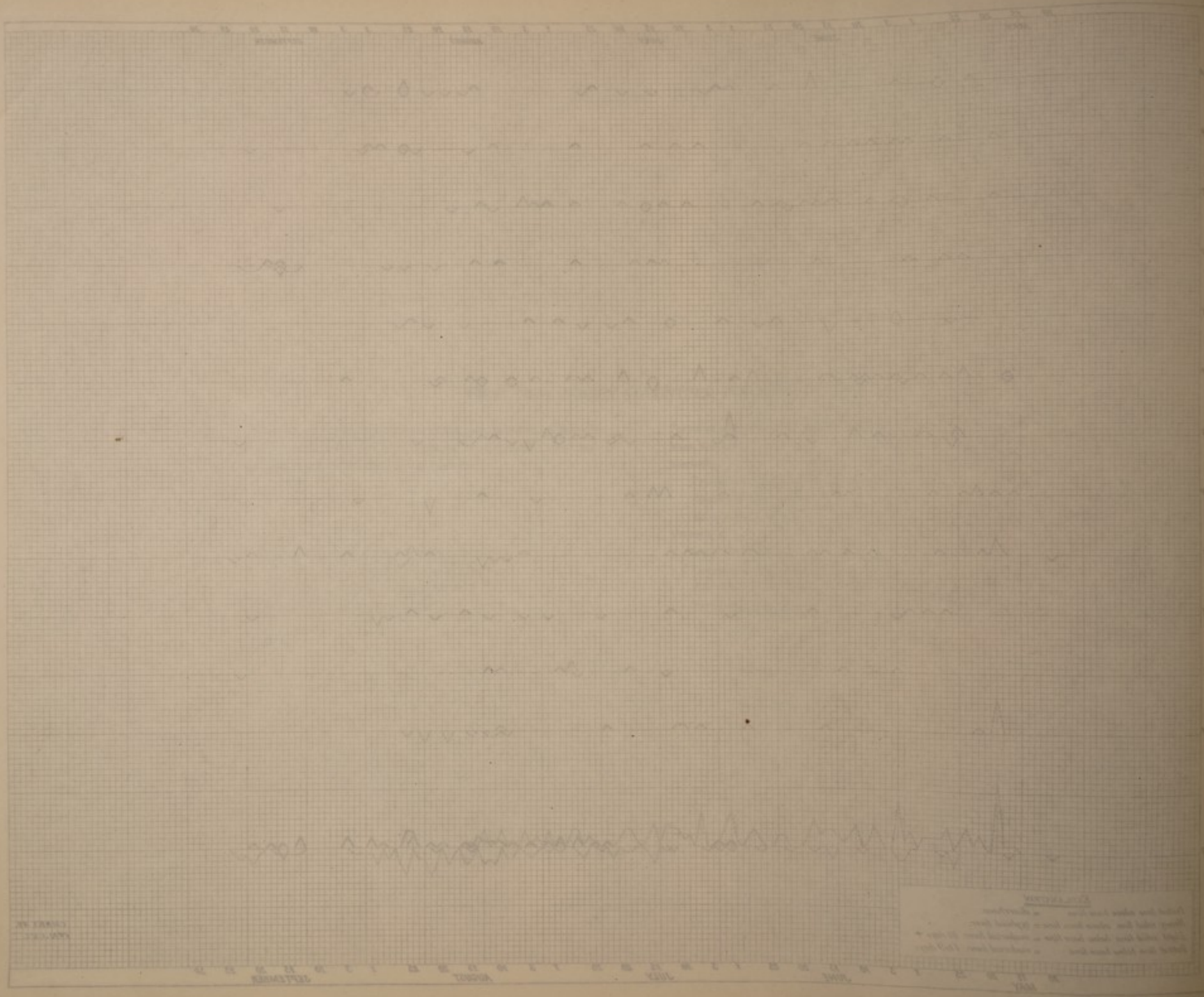
Camps:

May 7 to May 20, 1898, Seagirt, N. J.
May 21 to September 2, 1898, Camp Alger, Va.
September 2, 1898, left for Seagirt, N. J.
November 4, 1898, mustered out.

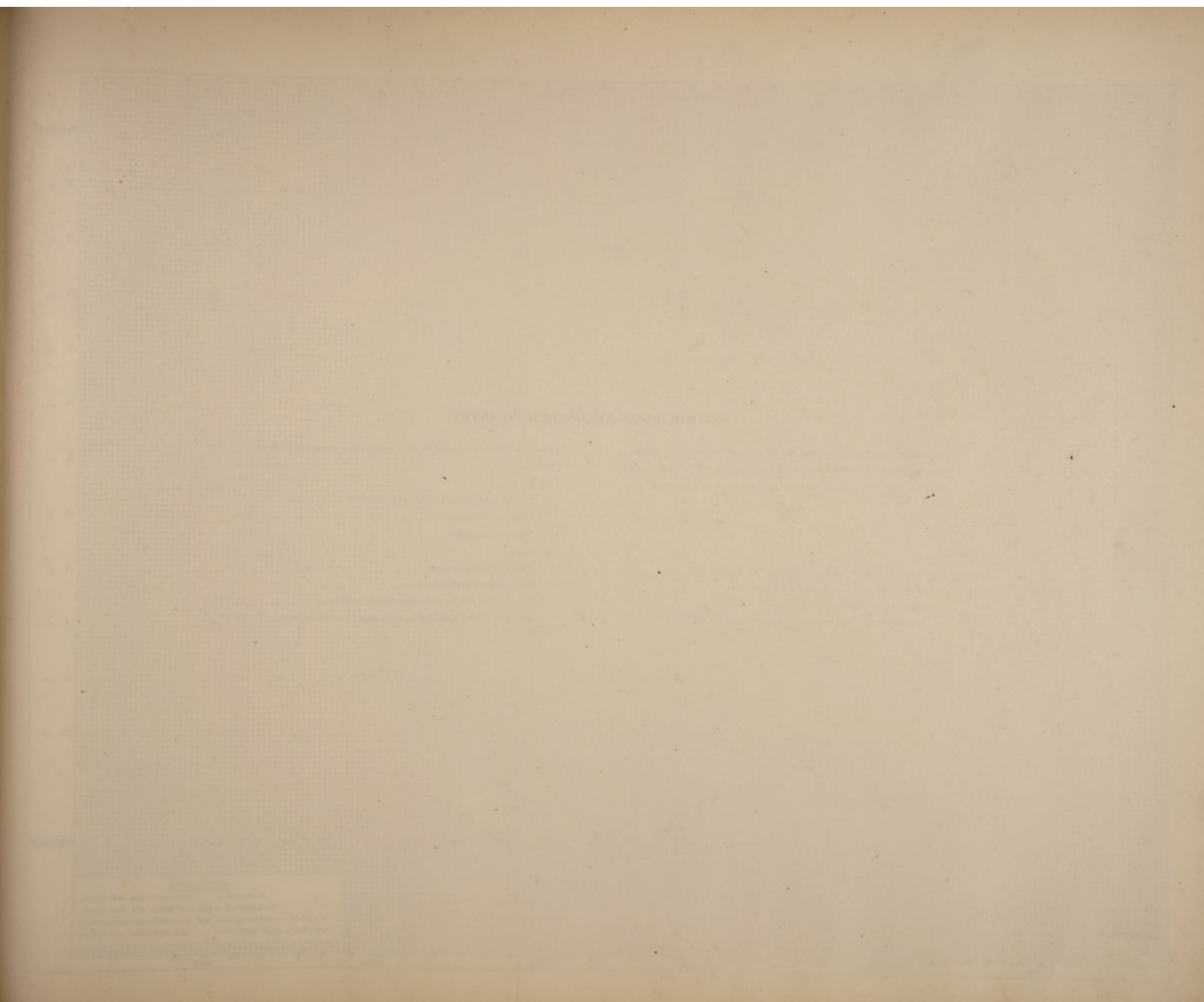
Period of service covered by this report, four months twenty days.

Mean strength.....	1,275
Morbidity:	
Probable typhoid, including recognized.....	58
Diarrhoeal diseases.....	151
Malaria (so called).....	106
Mortality:	
Deaths from all causes.....	10
Deaths from typhoid fever.....	8
Per cent of deaths among probable cases of typhoid....	13.79
Per cent of typhoid deaths to deaths from all causes....	80.00





1000 2000 3000 4000 5000 6000 7000 8000 9000 10000



SIXTH ILLINOIS VOLUNTEER INFANTRY.

Chart 49, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 320.)

Camps:

May, early part, to May 19, 1898, Springfield, Ill.
May 21 to July 5, 1898, Camp Alger, Va.
July 5, 1898, left for Porto Rico.
November 25, 1898, mustered out, Springfield, Ill.

Period of service covered by this report, five months five days.

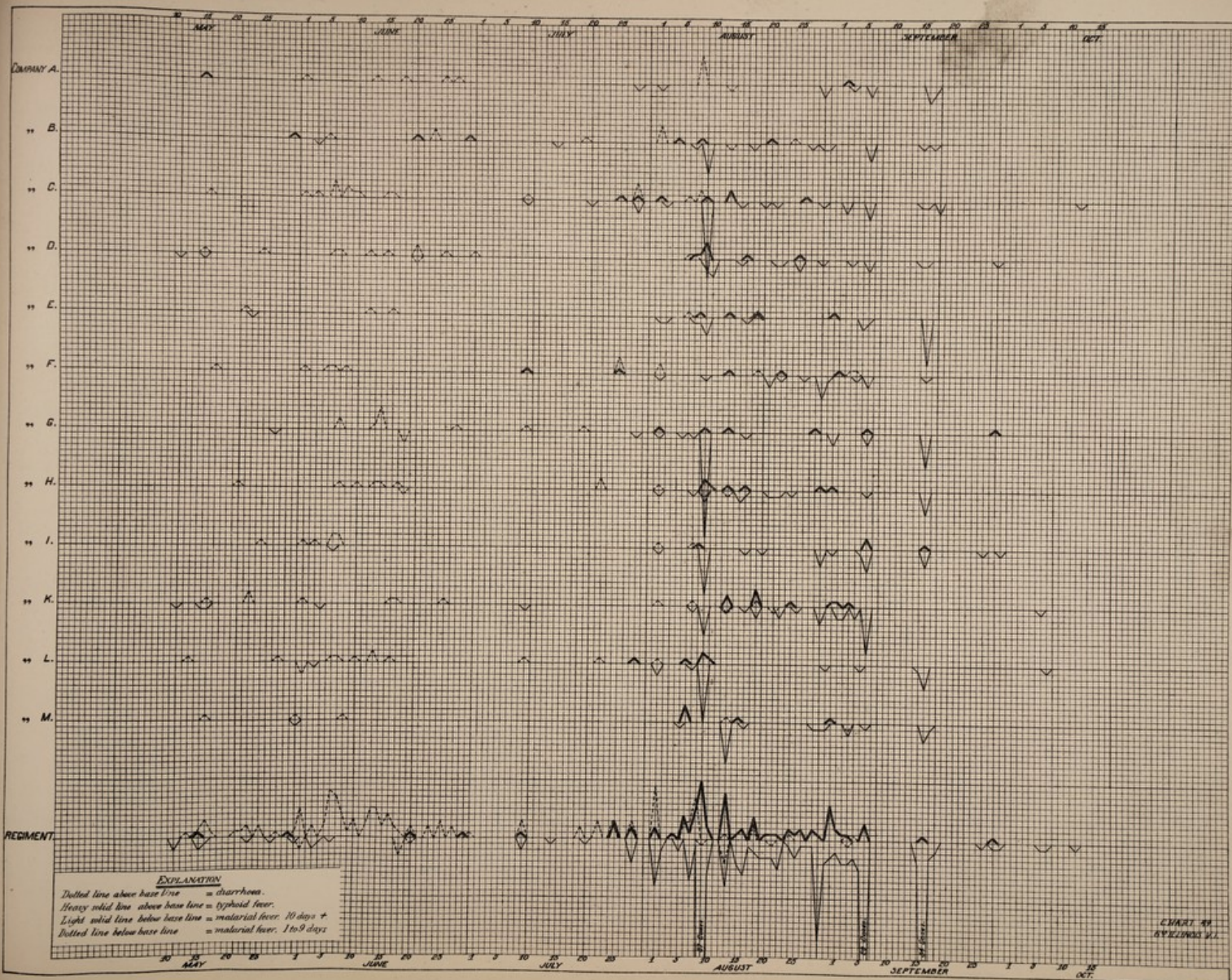
Mean strength..... 1,213

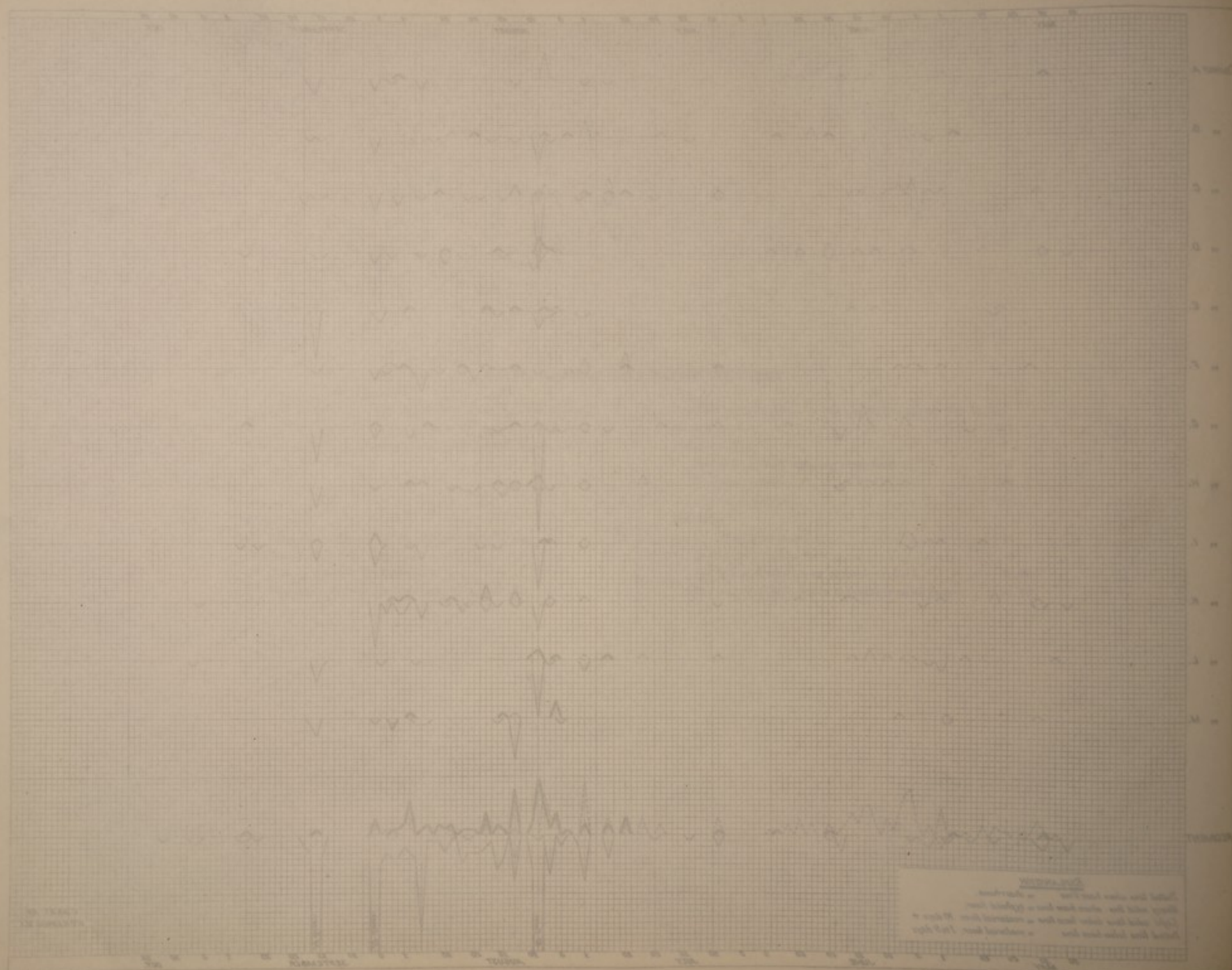
Morbidity:

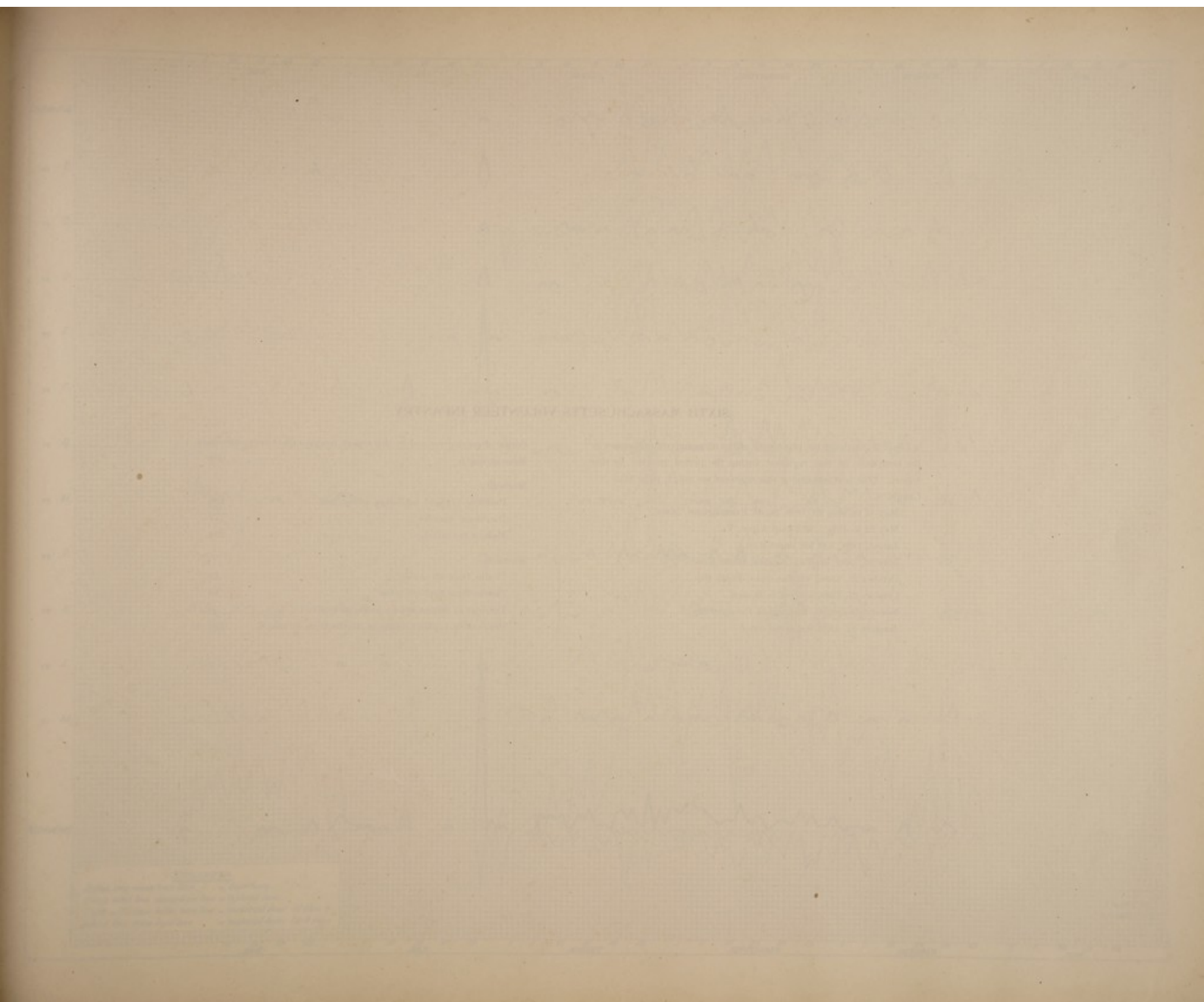
Probable typhoid, including recognized 75
Diarrhoeal diseases 108
Malaria (so called)..... 289

Mortality:

Deaths from all causes..... 12
Deaths from typhoid fever..... 8
Per cent of deaths among probable typhoid..... 10.66
Per cent of typhoid deaths to deaths from all causes... 66.66







SIXTH MASSACHUSETTS VOLUNTEER INFANTRY.

Chart 50, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 321.)

Camps:

May 13 to May 20, 1898, South Framingham, Mass.
 May 22 to July 5, at Camp Alger, Va.
 July 5, 1898, left for Porto Rico.
 July 25, 1898, arrived Guanica, Porto Rico.
 October 22, 1898, left San Juan, Porto Rico.
 October 27, 1898, arrived in Boston.
 November 3, 1898, furloughed for sixty days.
 January 21, 1899, mustered out.

Period of service covered by this report, four months twenty-two days.

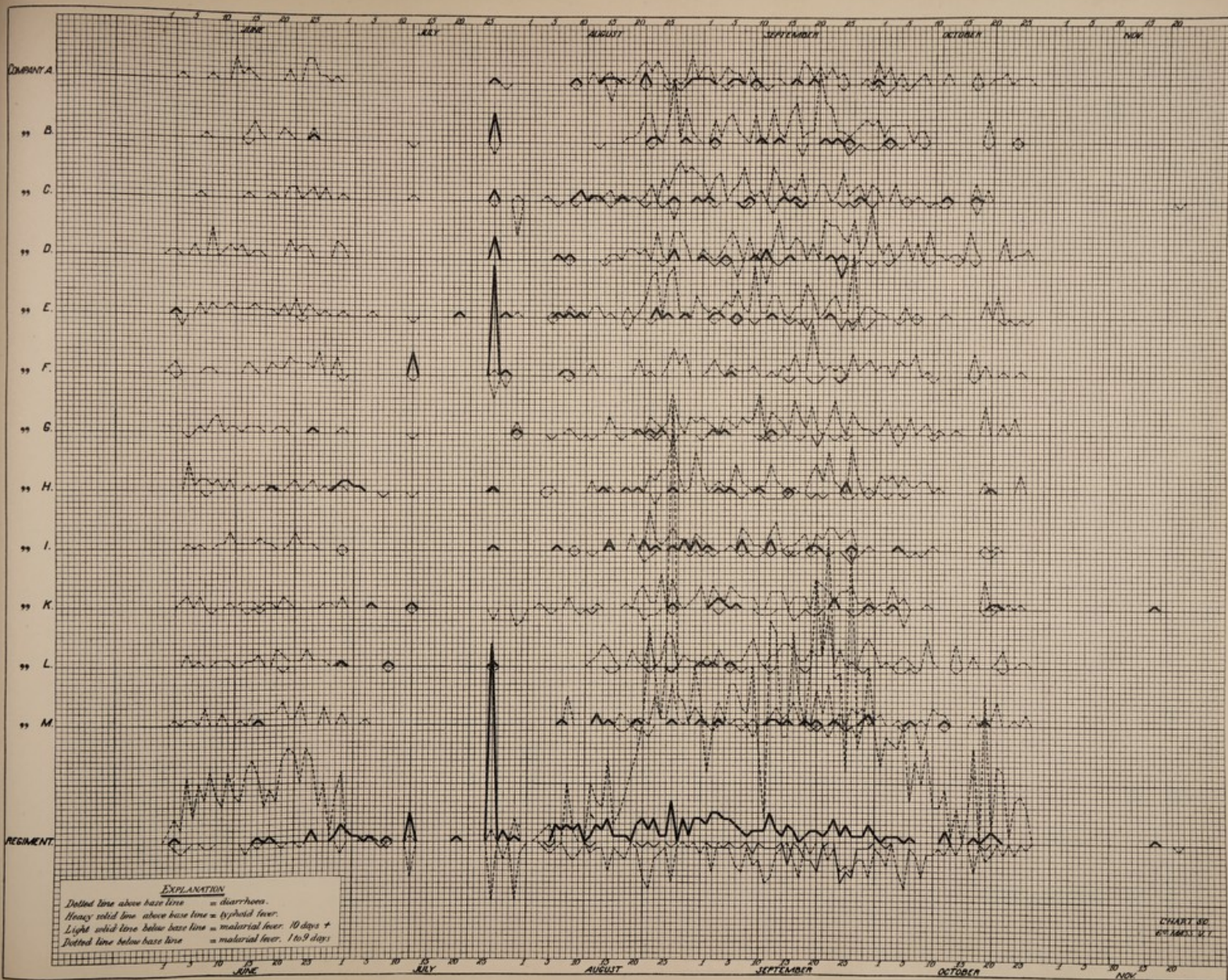
Mean strength..... 1,201

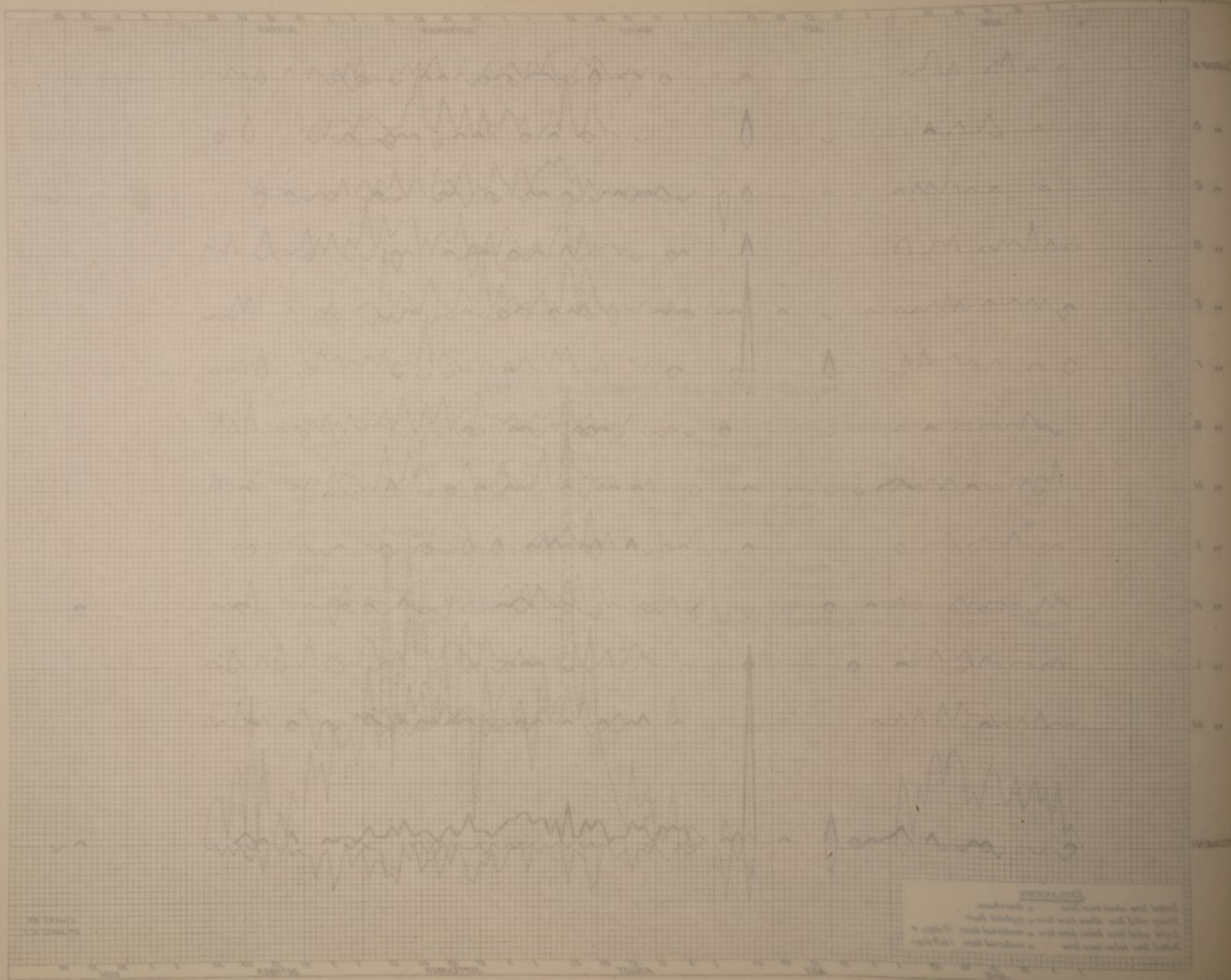
Morbidity:

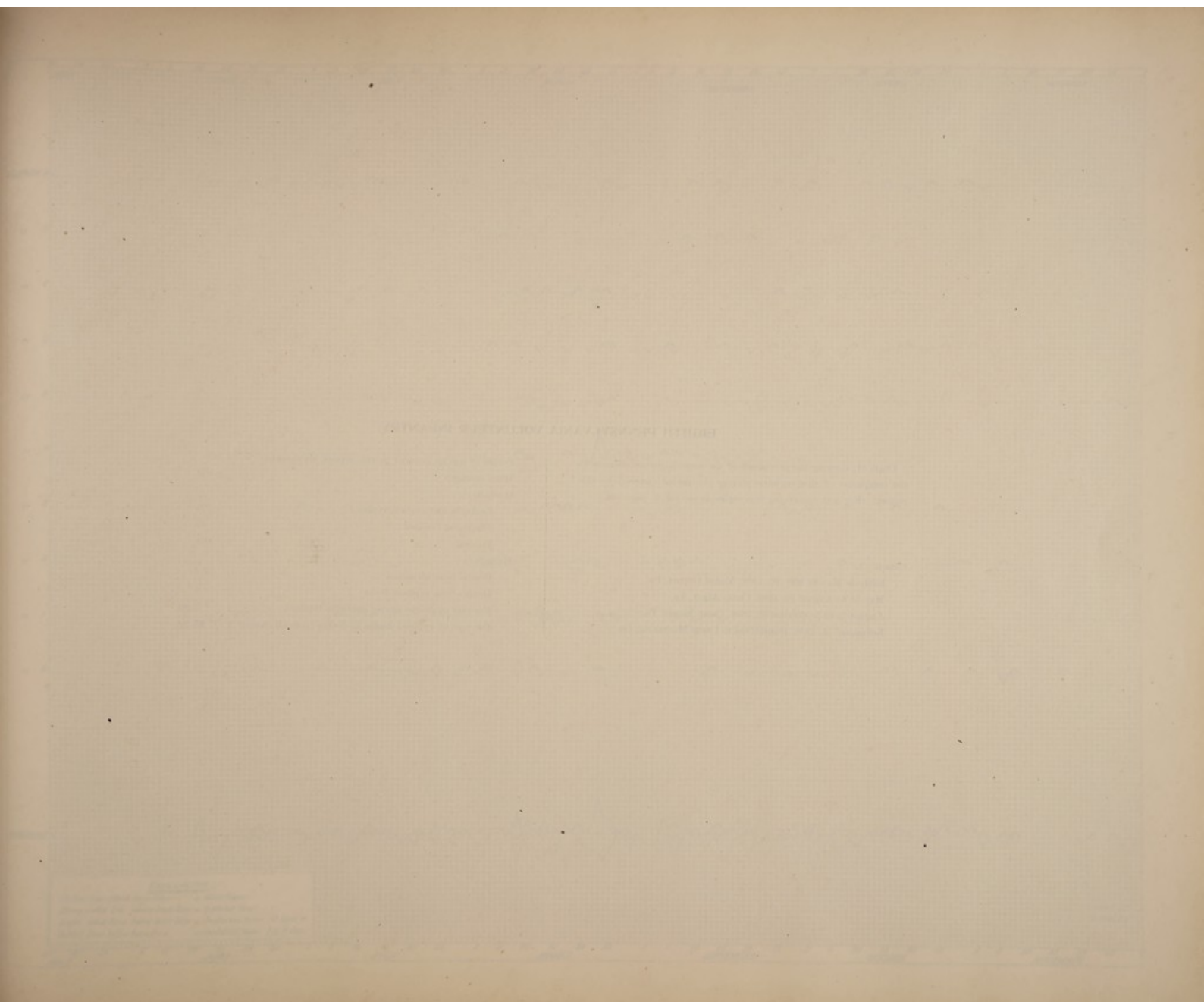
Probable typhoid, including recognized 196
 Diarrhoeal diseases 772
 Malaria (so called) 294

Mortality:

Deaths from all causes 18
 Deaths from typhoid fever 18
 Per cent of deaths among probable typhoid 9.17
 Per cent of typhoid deaths to deaths from all causes... 100.00







EIGHTH PENNSYLVANIA VOLUNTEER INFANTRY.

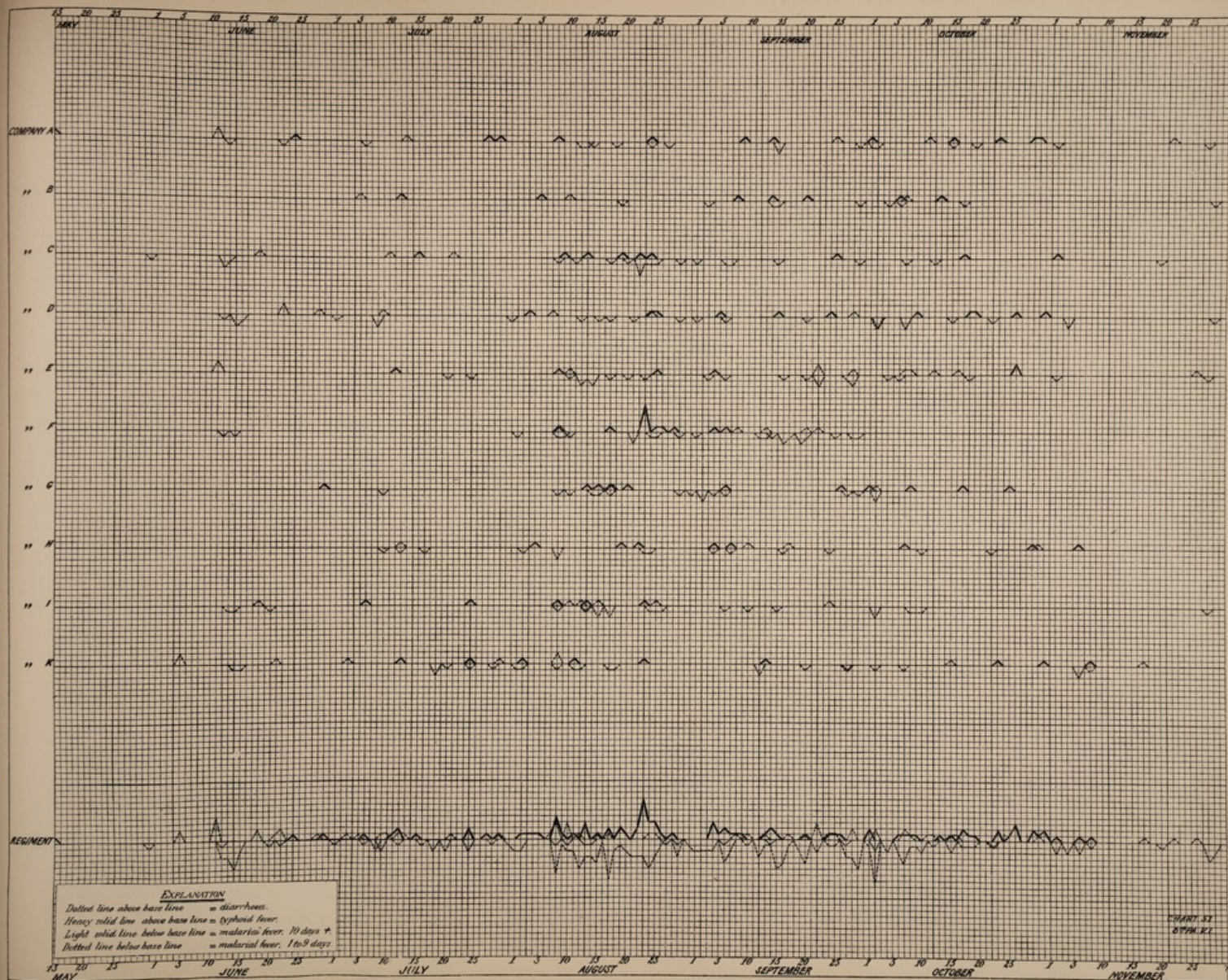
Chart 51, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 324.)

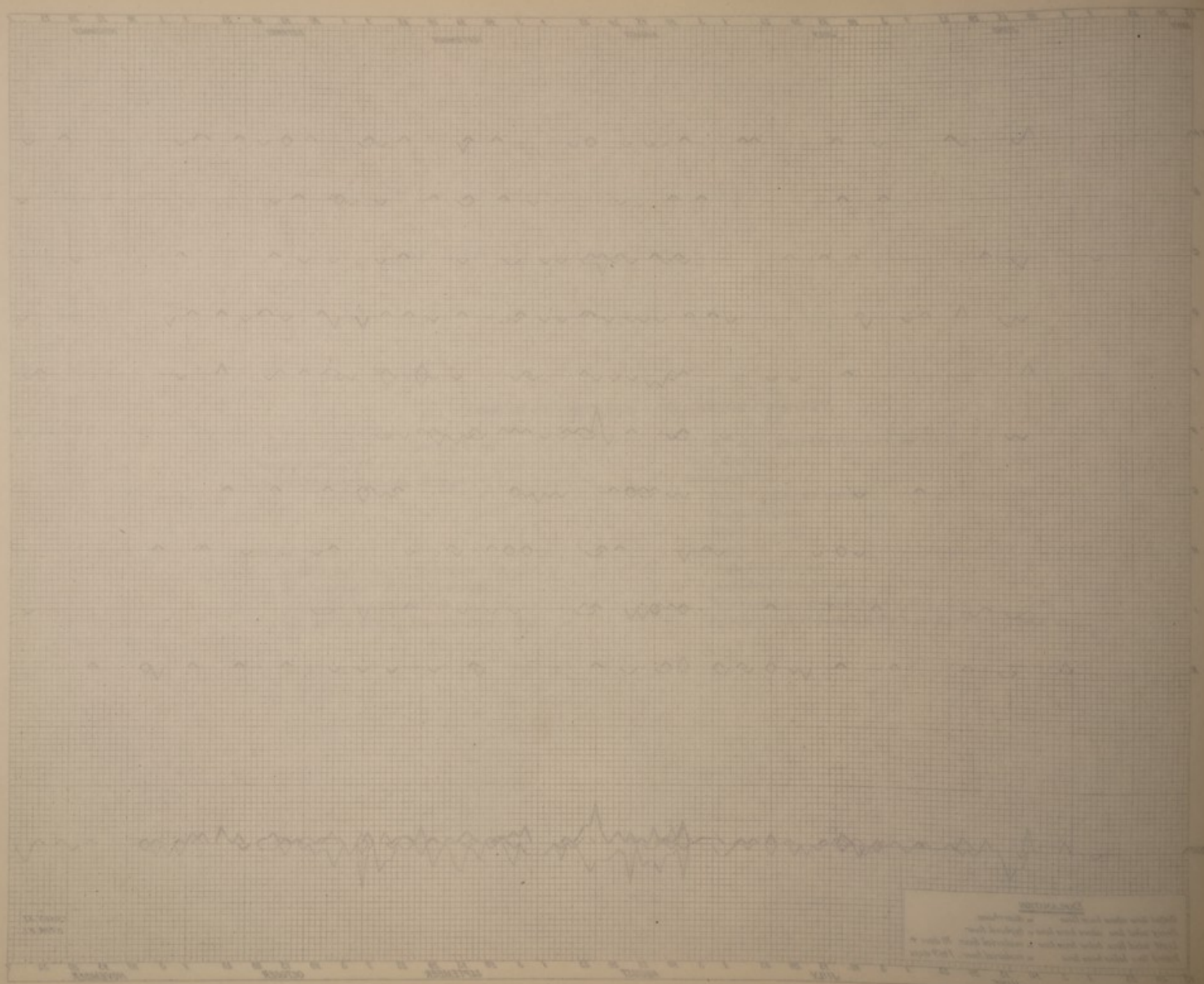
Camps:

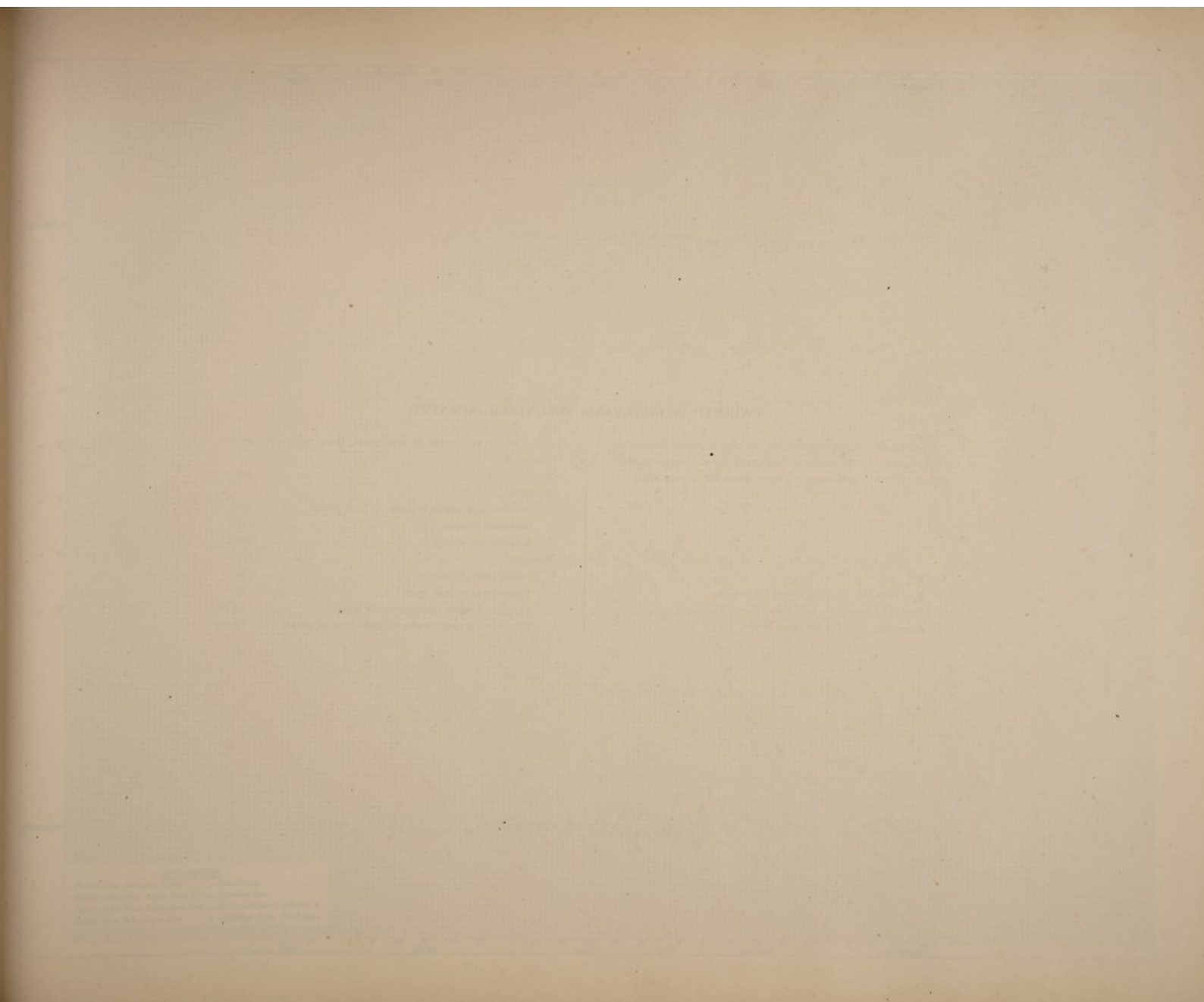
Early in May to May 16, 1898, Mount Gretna, Pa.
May 18 to August 30, 1898, Camp Alger, Va.
August 31 to November 13, 1898, Camp Meade, Pa.
November 13, 1898, transferred to Camp Mackenzie, Ga.

Period of service covered by this report, six months.

Mean strength.....	1,044
Morbidity:	
Probable and certain typhoid.....	101
Diarrhoeal diseases.....	57
Malaria.....	201
Mortality:	
Deaths from all causes.....	9
Deaths from typhoid fever.....	8
Per cent of deaths among probable typhoid.....	7.92
Per cent of typhoid deaths to deaths from all causes...	88.88







TWELFTH PENNSYLVANIA VOLUNTEER INFANTRY.

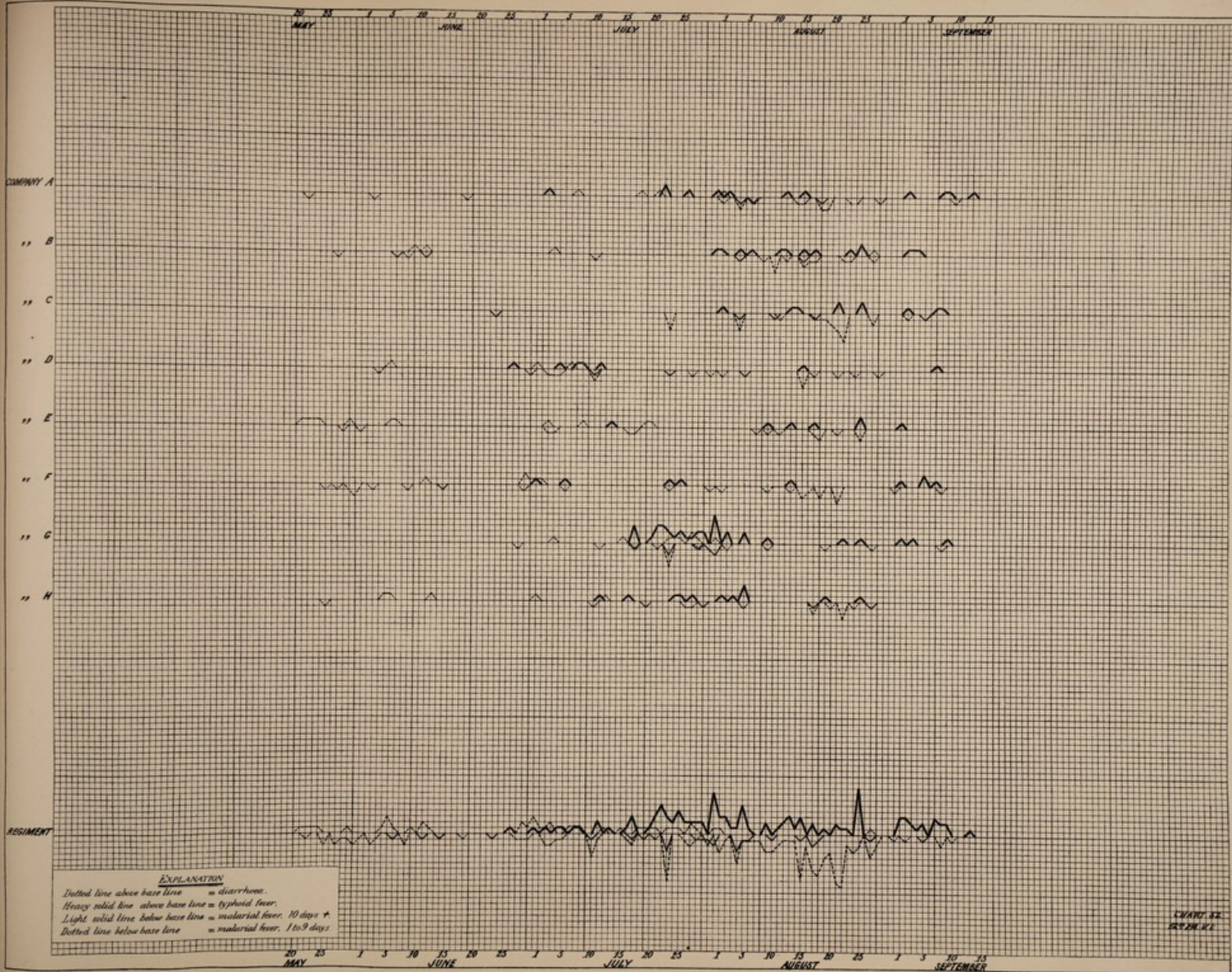
Chart 52, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 327.)

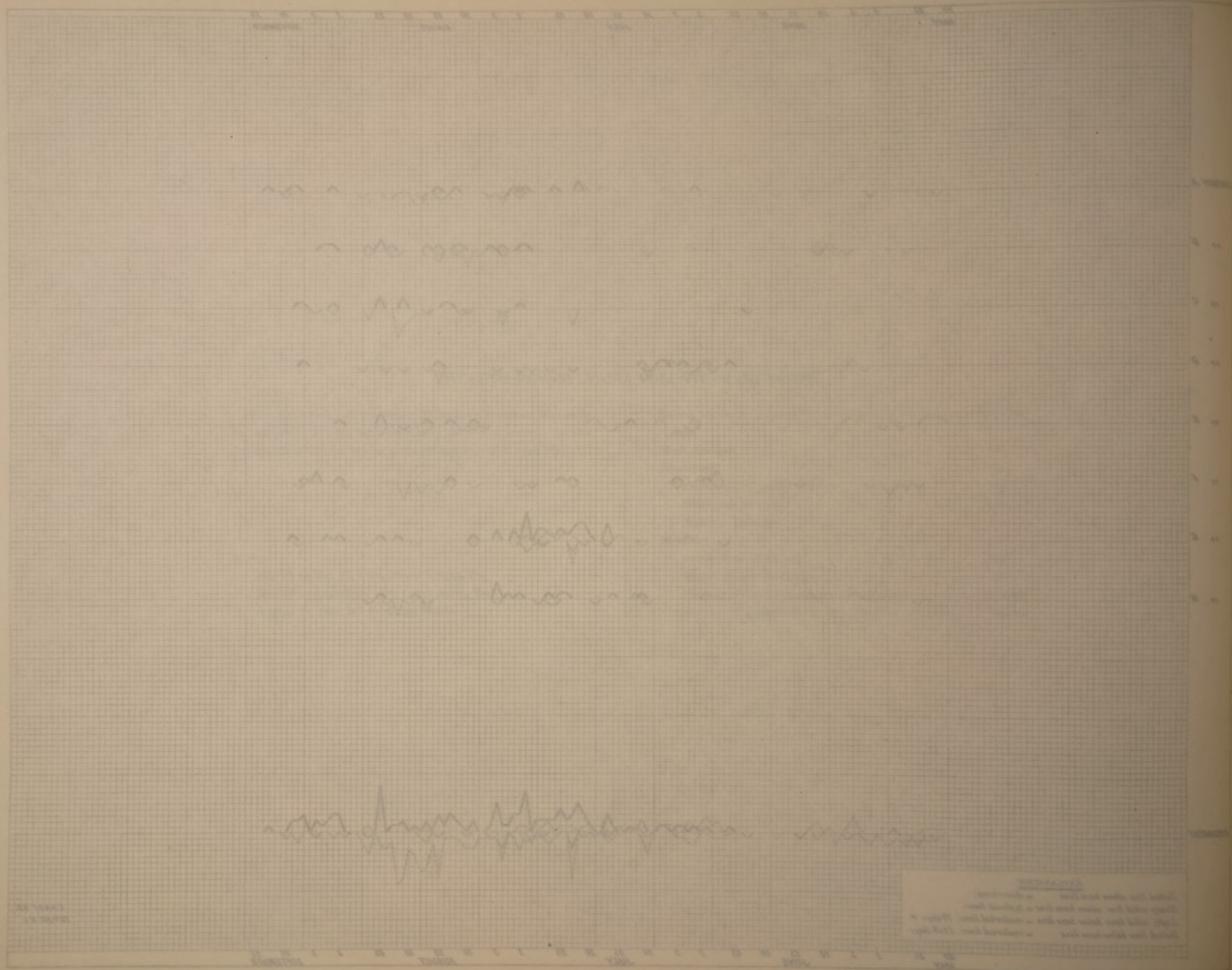
Camps:

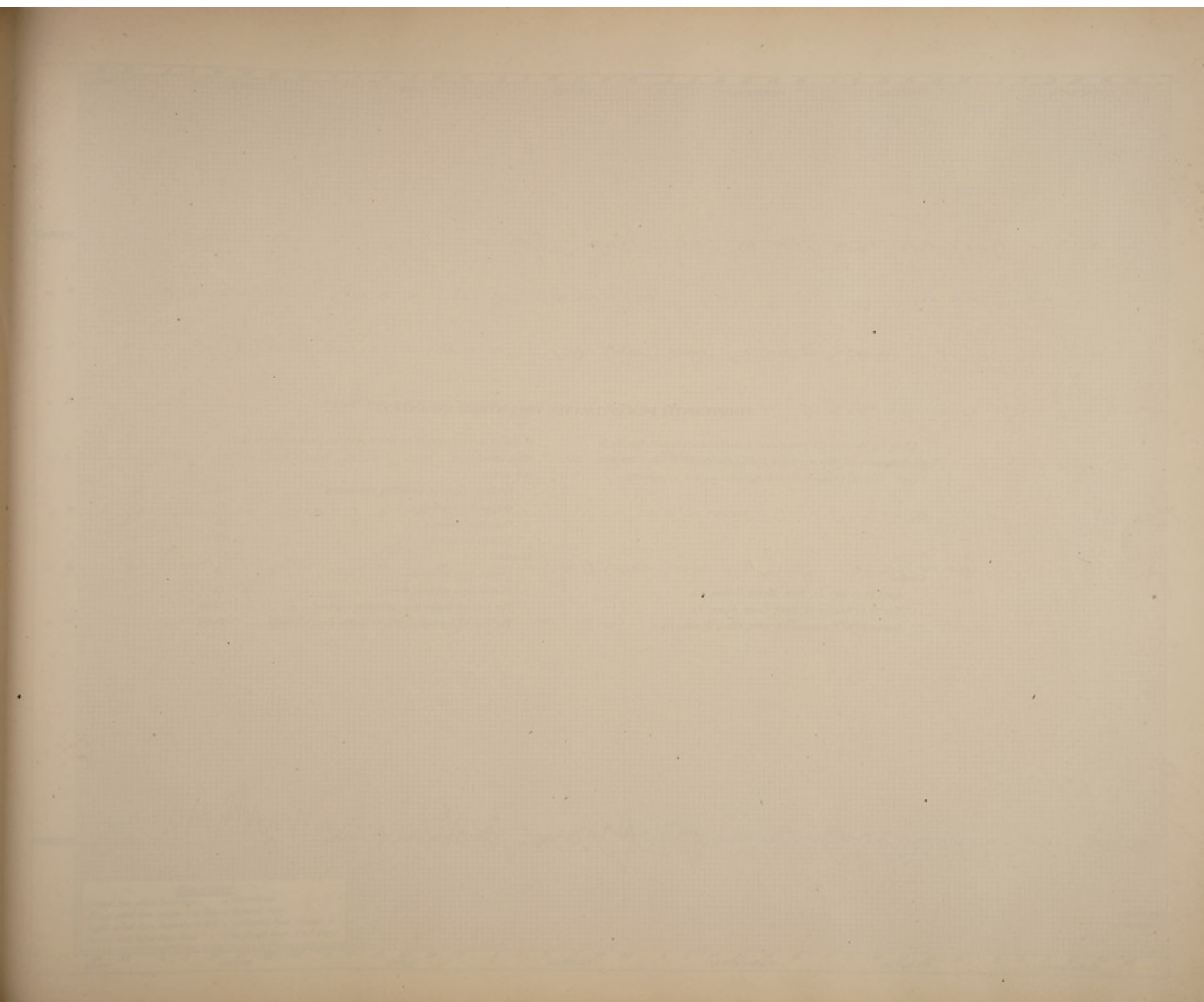
May 10 to May 17, 1898, Mount Gretna, Pa.
May 19 to August 29, 1898, Camp Alger, Va.
August 29, 1898, left for Camp Meade.

Period of service covered by this report, three months twenty-five days.

Mean strength.....	823
Morbidity:	
Probable and certain typhoid.....	123
Diarrhœal diseases.....	41
Malarias (so called).....	164
Mortality:	
Deaths from all causes.....	24
Deaths from typhoid fever.....	23
Per cent of deaths among probable typhoid.....	18.69
Per cent of typhoid deaths to deaths from all causes...	95.83







THIRTEENTH PENNSYLVANIA VOLUNTEER INFANTRY.

Chart 53, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 331.)

Camps:

April 28 to May 18, 1898, Mount Gretna, Pa.
May 19 to August 31, 1898, Camp Alger, Va.
August 31 to November 14, 1898, Camp Meade, Pa.

Period of service covered by this report, six months eleven days.

Mean strength..... 824

Morbidity:

Probable typhoid, including recognized..... 103

Recognized typhoid..... 97

Diarrhœal diseases..... 221

Malaria (so called)..... 179

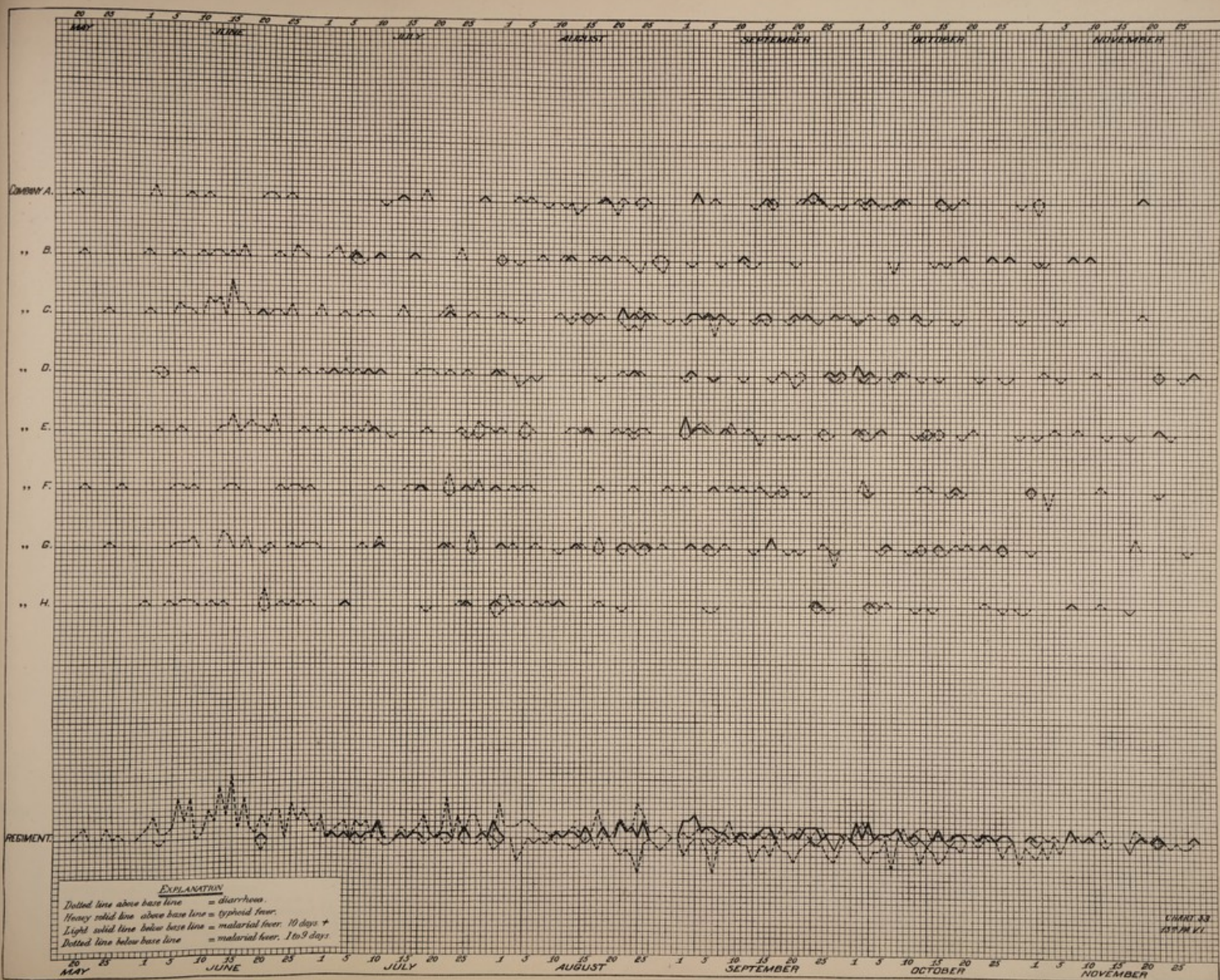
Mortality:

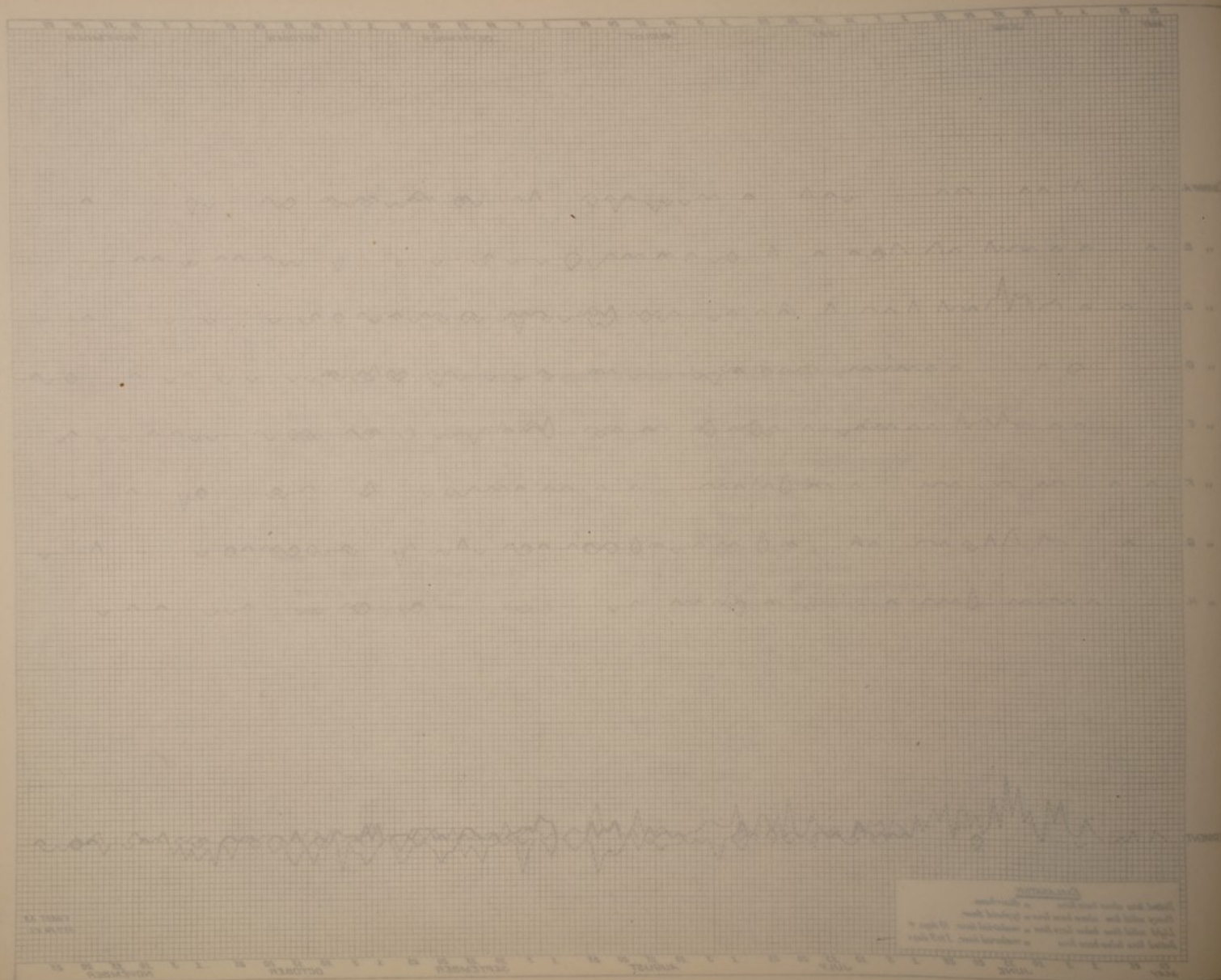
Deaths from all causes..... 19

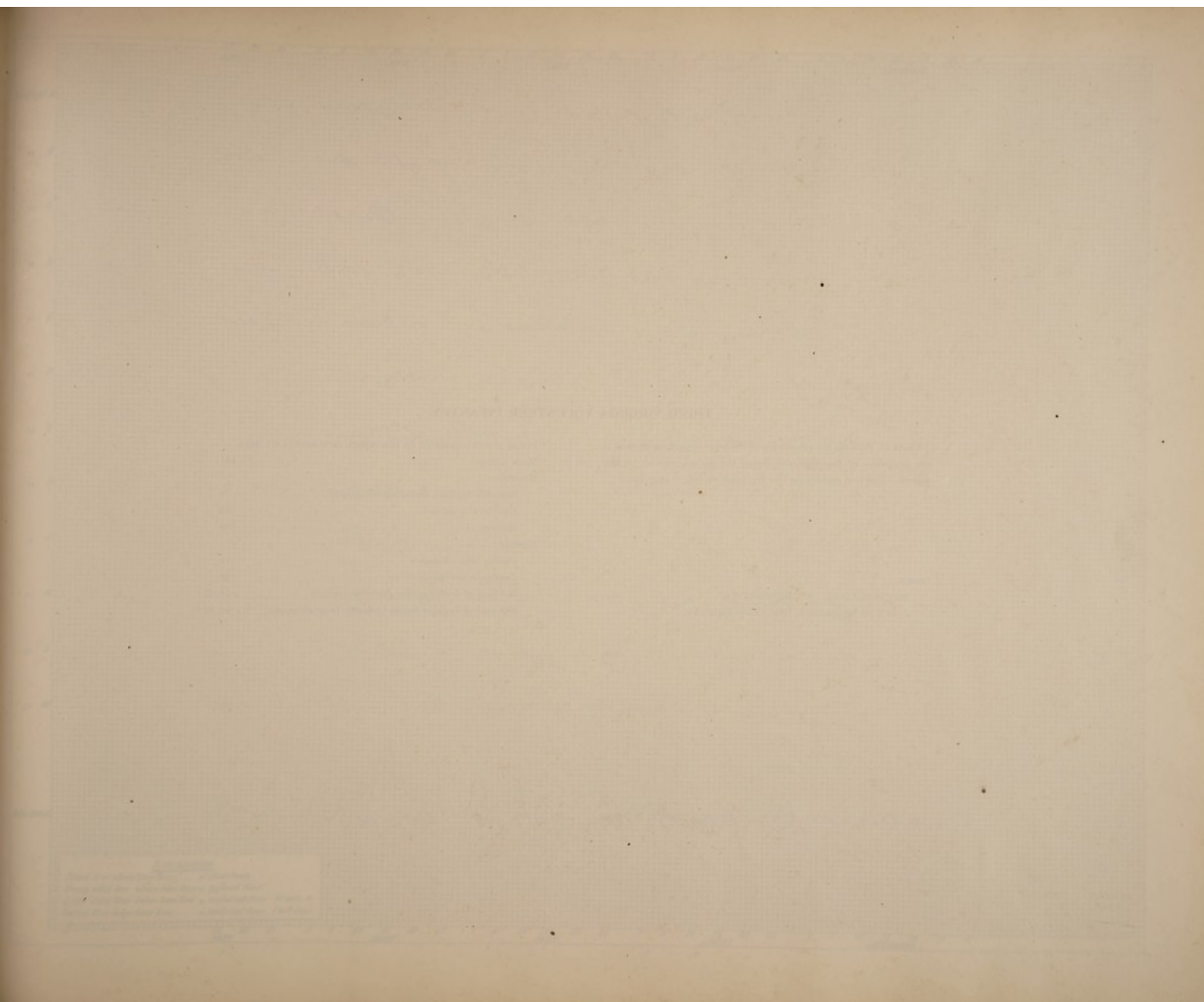
Deaths from typhoid fever..... 15

Per cent of deaths from probable typhoid..... 14.28

Per cent of typhoid deaths to deaths from all causes..... 78.94







THIRD VIRGINIA VOLUNTEER INFANTRY.

Chart 54, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 334.)

Camps:

May 14 to June 5, 1898, Richmond, Va.
June 5, to September 8, 1898, Camp Alger, Va.

Period of service covered by this report, four months six days.

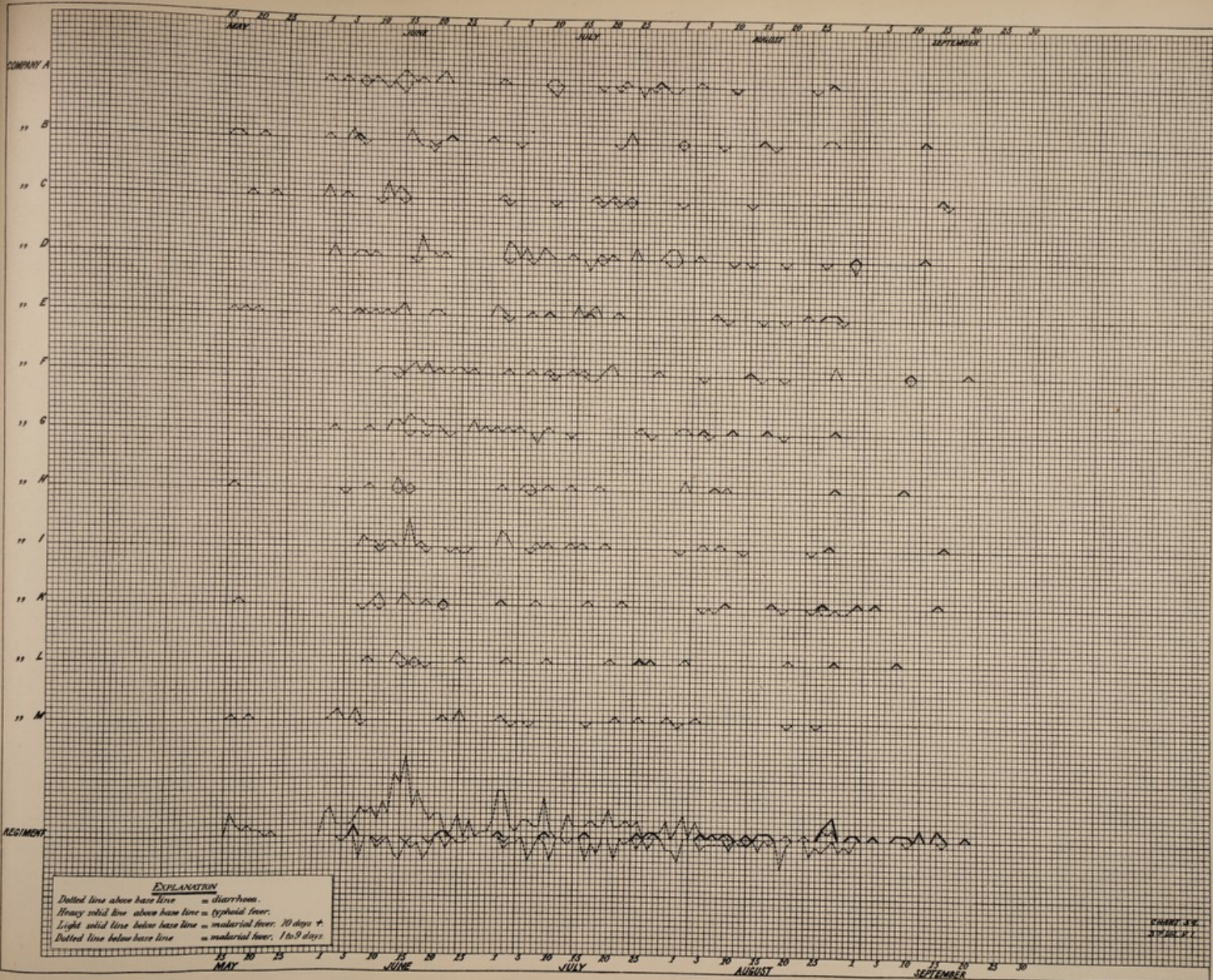
Mean strength 1, 141

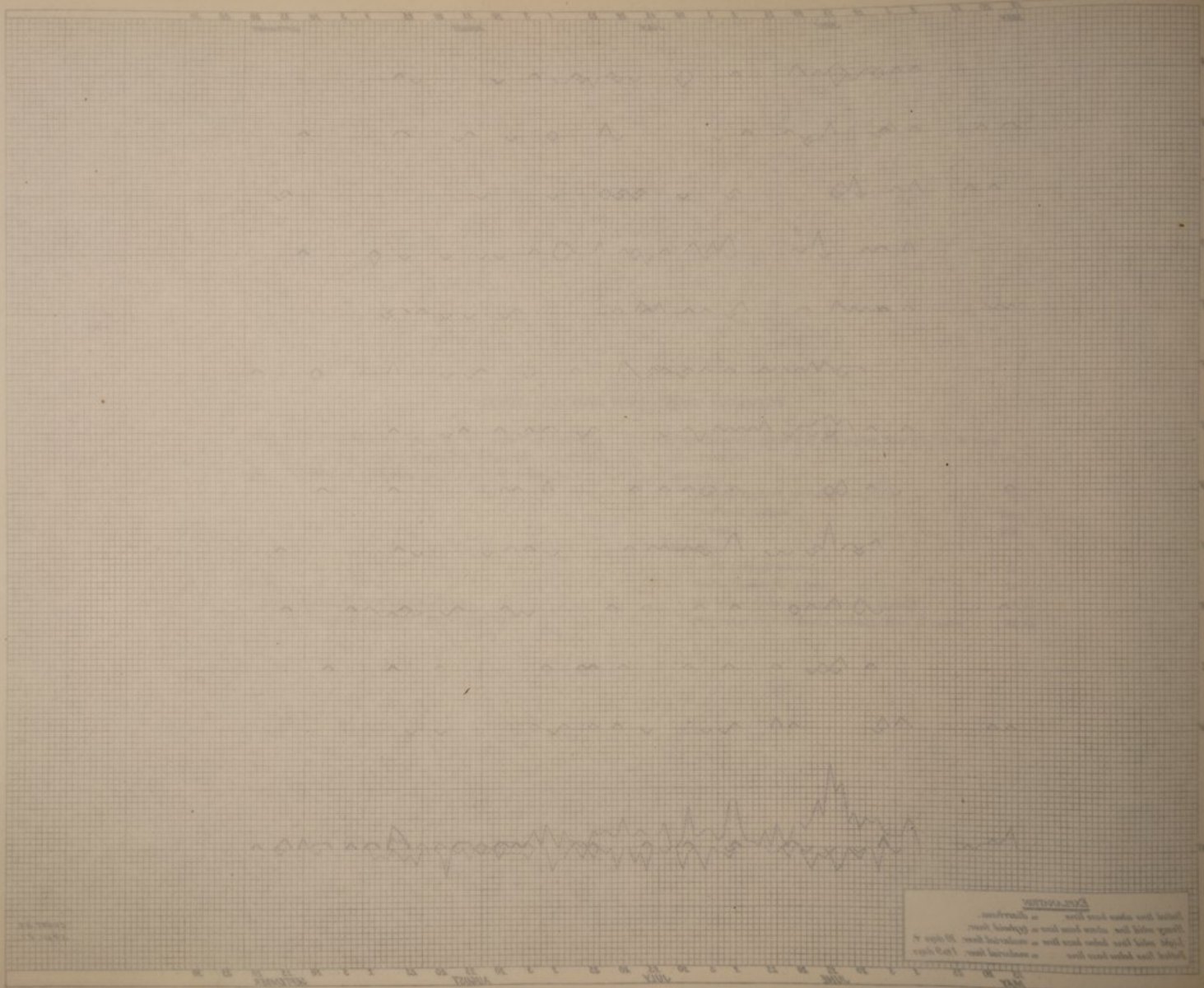
Morbidity:

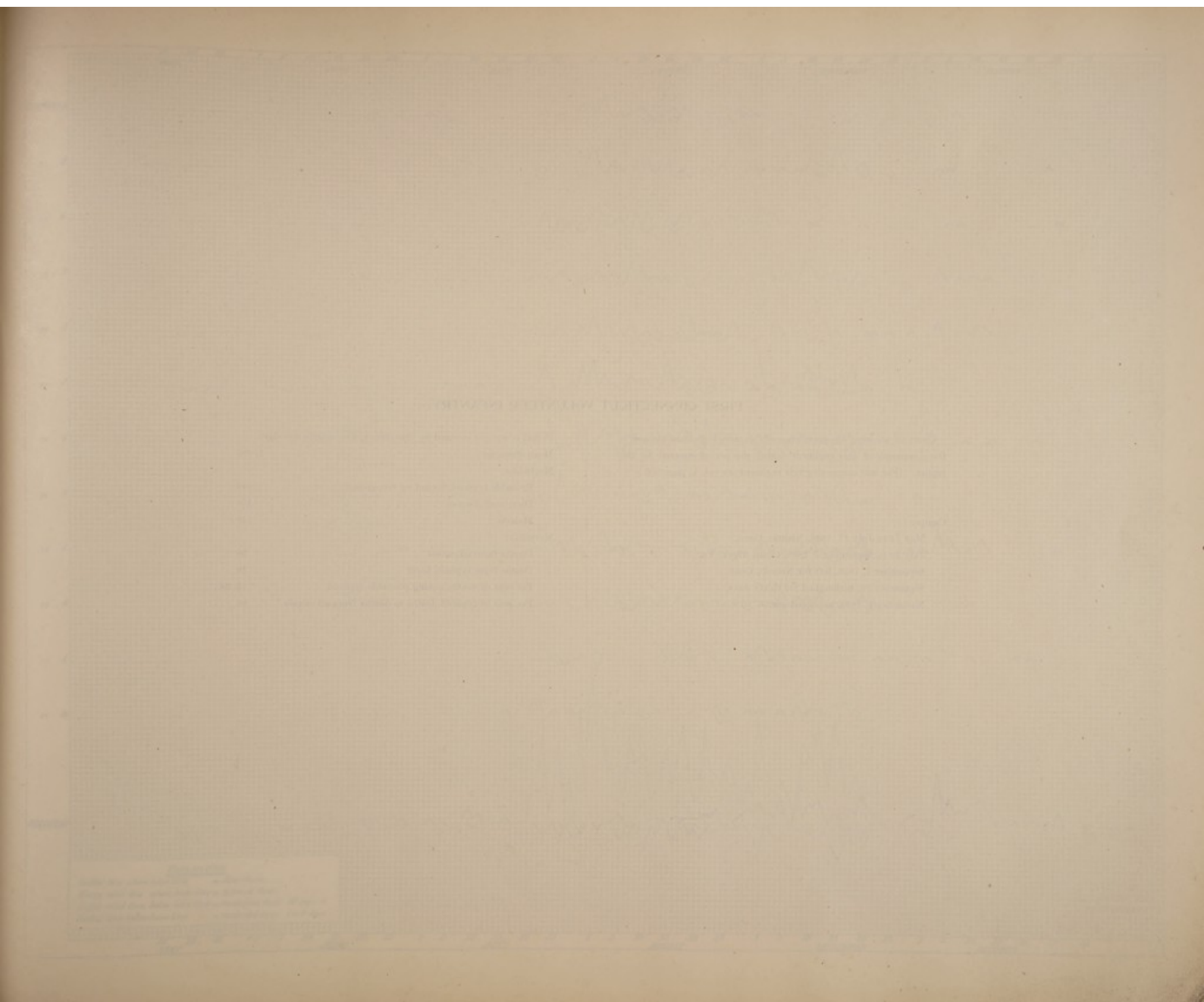
Probable typhoid, including recognized 70
Diarrhœal diseases 198
Malaria 109

Mortality:

Deaths from all causes 14
Deaths from typhoid fever 13
Per cent of deaths among probable typhoid 18.57
Per cent of typhoid deaths to deaths from all causes.... 92.85







FIRST CONNECTICUT VOLUNTEER INFANTRY.

Chart 55, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 336.)

Camps:

May 14 to July 17, 1898, Niantic, Conn.
 July 19 to September 7, 1898, Camp Alger, Va.
 September 7, 1898, left for Niantic, Conn.
 September 22, furloughed for thirty days.
 November 1, 1898, mustered out.

Period of service covered by this report, five months ten days.

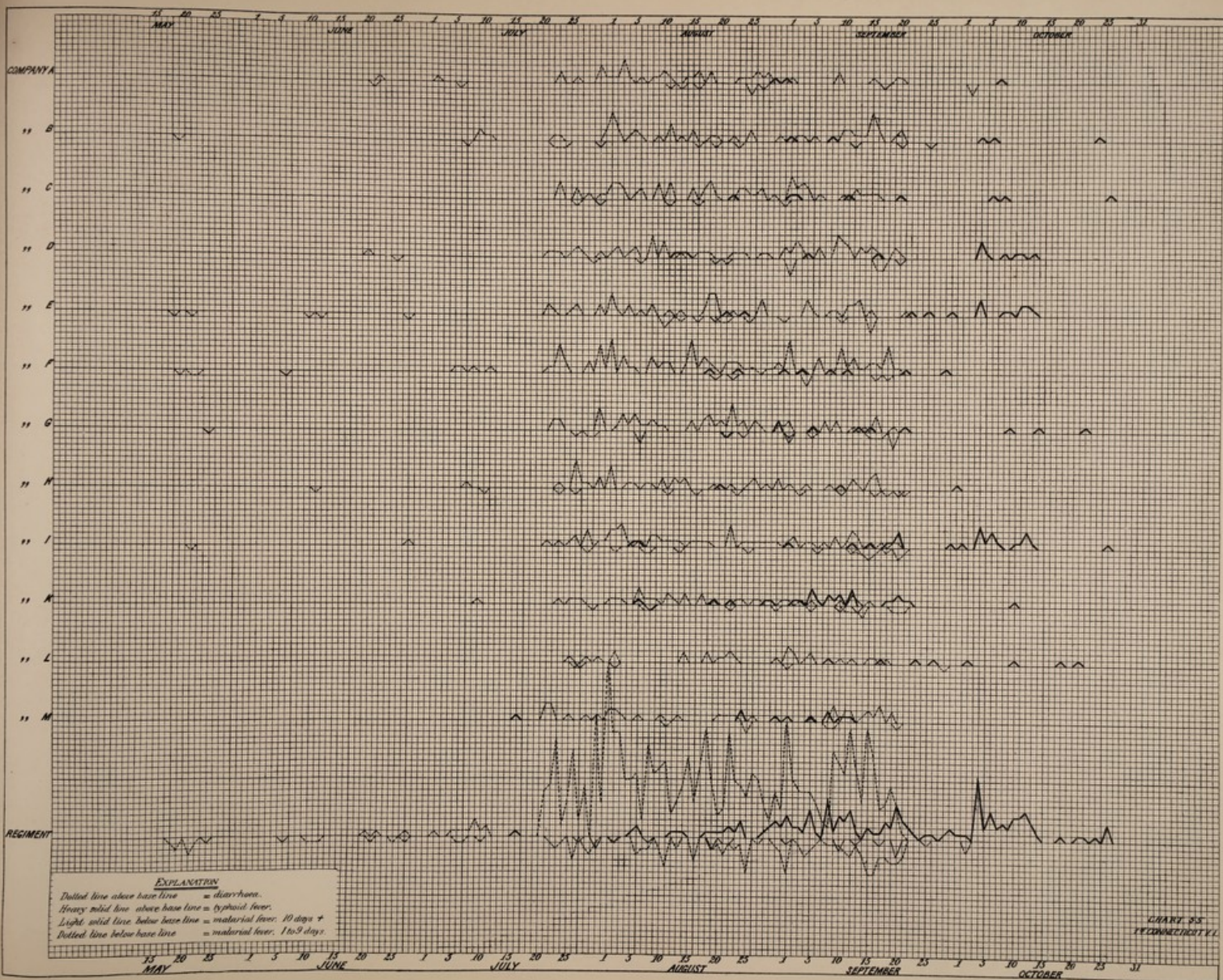
Mean strength..... 1,085

Morbidity:

Probable typhoid, including recognized 142
 Diarrhoeal diseases 468
 Malaria 149

Mortality:

Deaths from all causes..... 20
 Deaths from typhoid fever..... 19
 Per cent of deaths among probable typhoid 13.38
 Per cent of typhoid deaths to deaths from all causes... 95





NEW YORK VOLUNTEER CAVALRY, TROOPS A AND C.

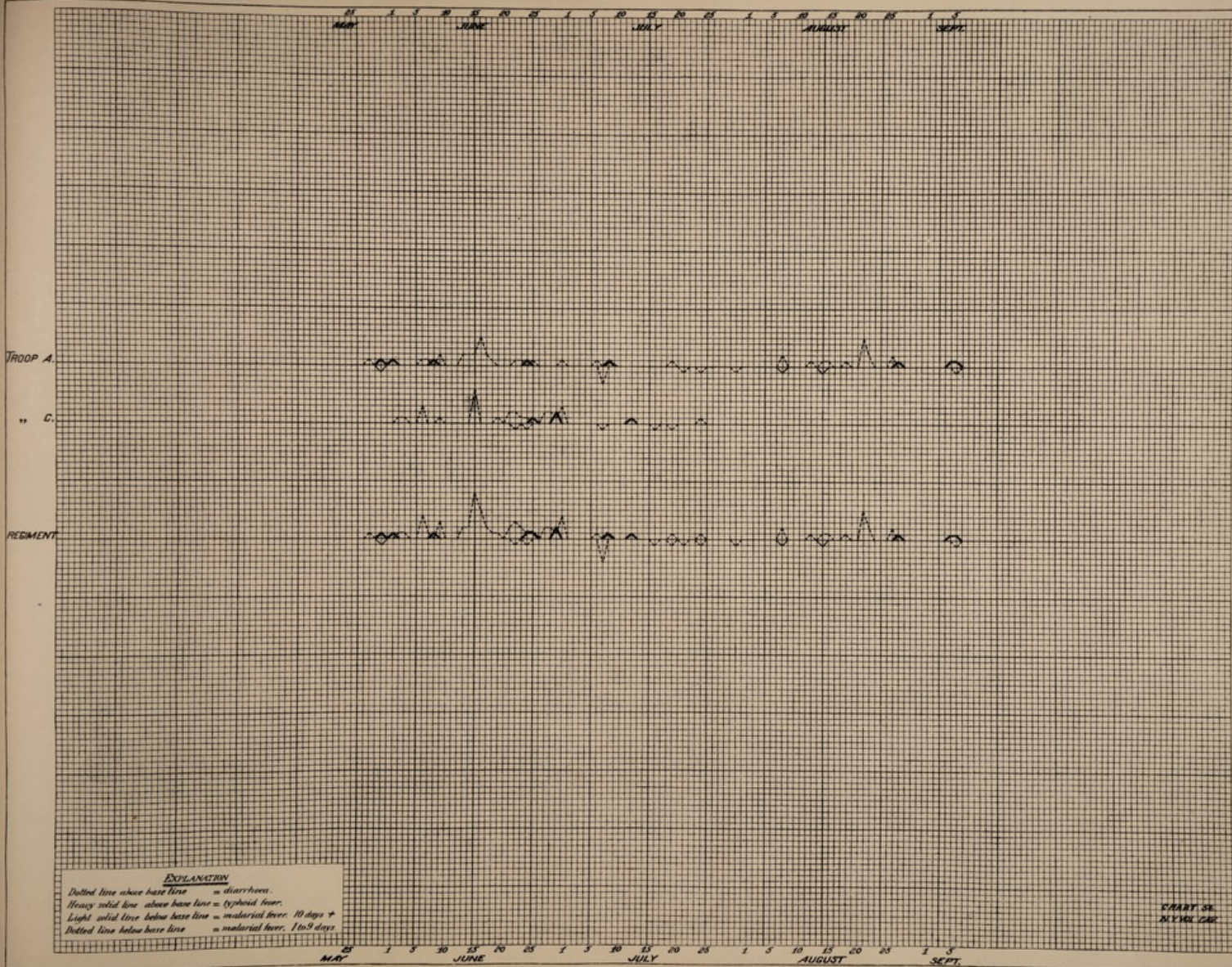
Chart 56, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 338.)

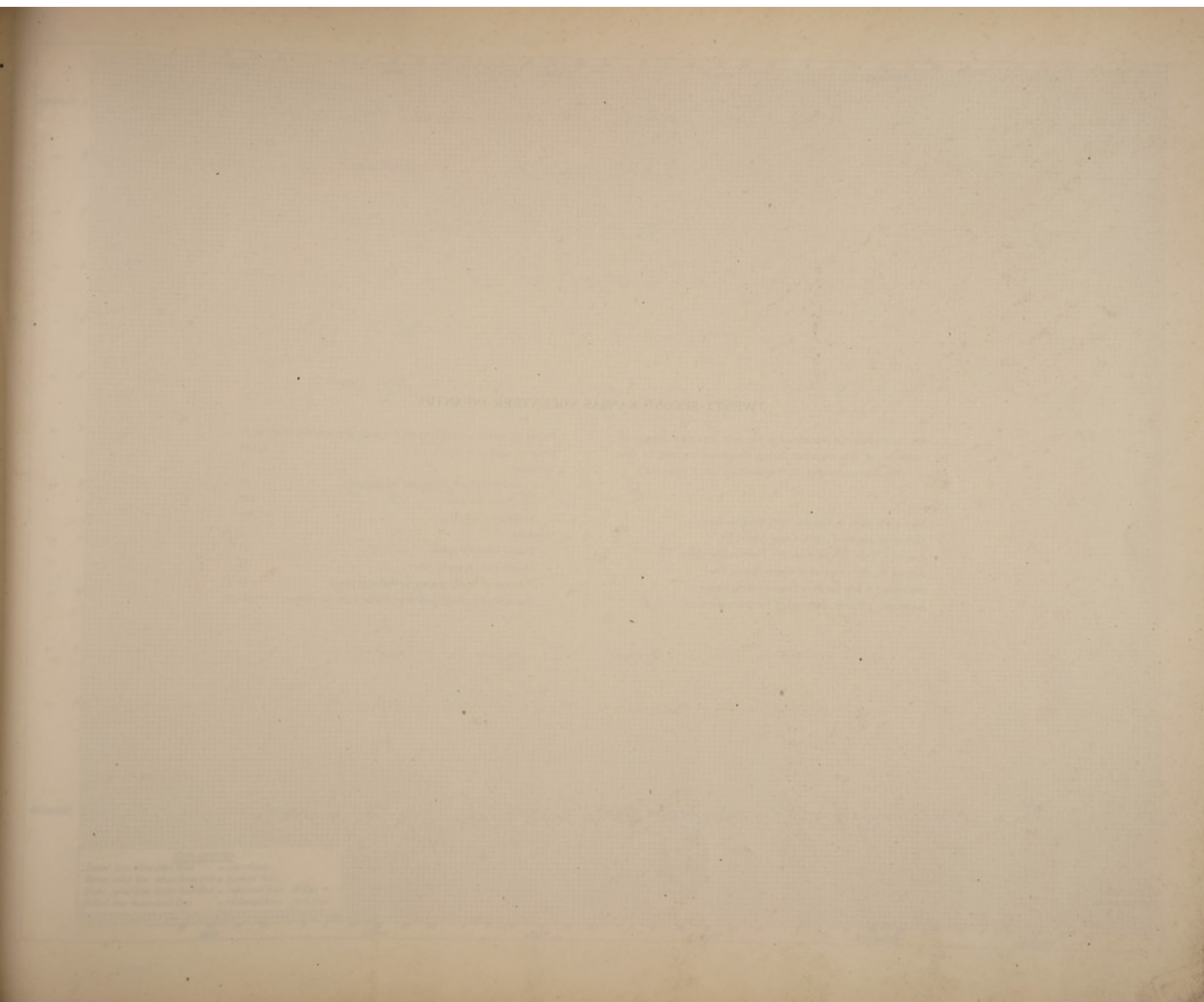
Camps:

May, 1898, mustered into service.
 May 23 to July 23, 1898, Camp Alger, Va.
 July 23, left for service in Porto Rico.
 October, 1898, returned from Porto Rico.

Period of service covered by this report, three months eleven days.

Mean strength.....	—
Morbidity:	
Probable typhoid, including recognized	12
Mortality:	
Deaths from all causes	2
Deaths from typhoid fever	1
Per cent of deaths among probable typhoid	8.33
Per cent of typhoid deaths to deaths from all causes ..	50





TWENTY-SECOND KANSAS VOLUNTEER INFANTRY.

Chart 57, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 343.)

Camps:

May, early part, to May 25, 1898, Topeka, Kans.
 May 28 to August 3, 1898, Camp Alger, Va.
 August 3, 1898, left en route for Thoroughfare Gap, Va.
 August 10, 1898, arrived at Camp Meade, Pa.
 September 9, left for Fort Leavenworth, Kans.
 September 12, 1898, furloughed for thirty days.

Period of service covered by this report, five months fourteen days.

Mean strength..... 1,199

Morbidity:

Probable typhoid, including recognized 83

Diarrhœal diseases 228

Malaria (so called) 300

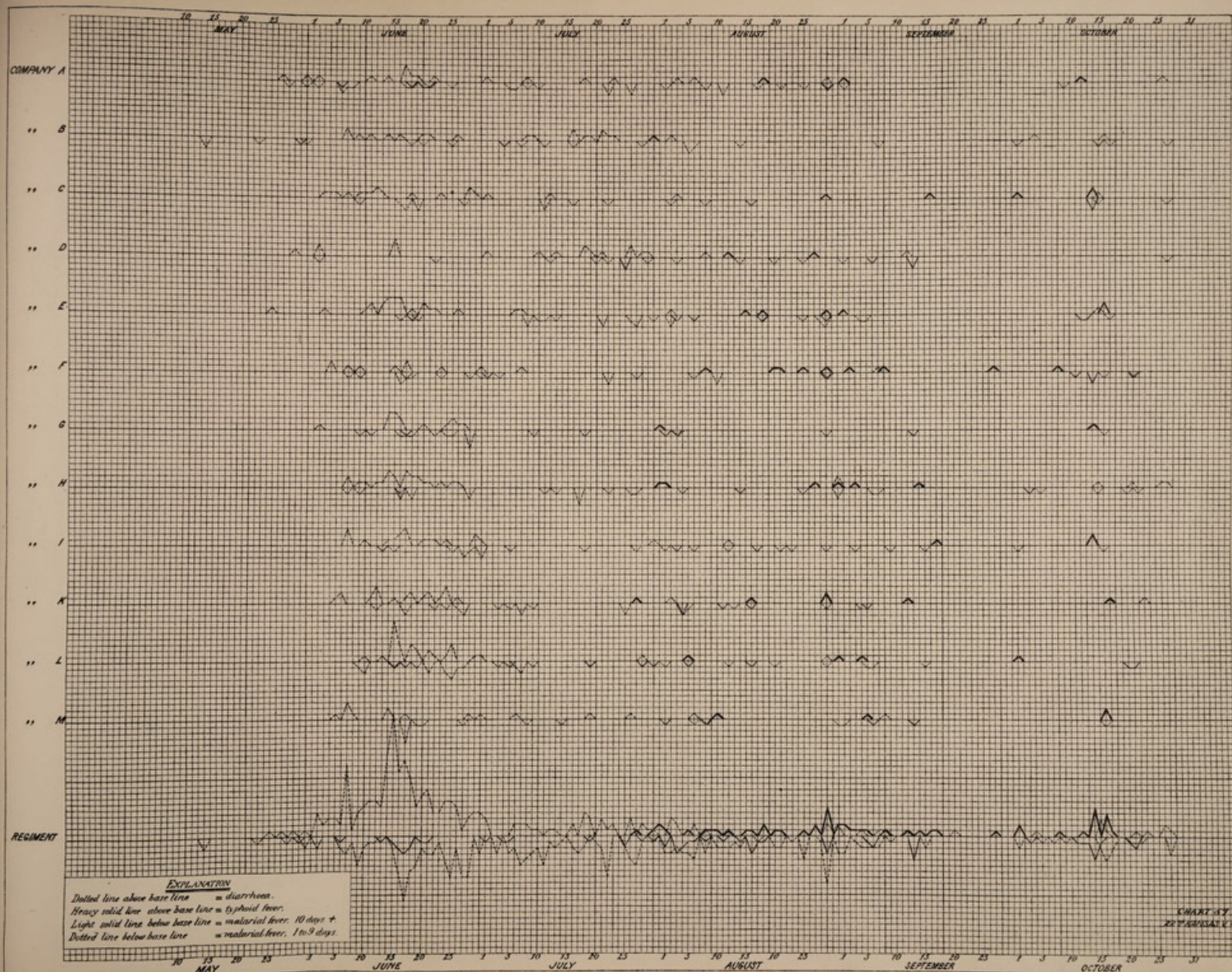
Mortality:

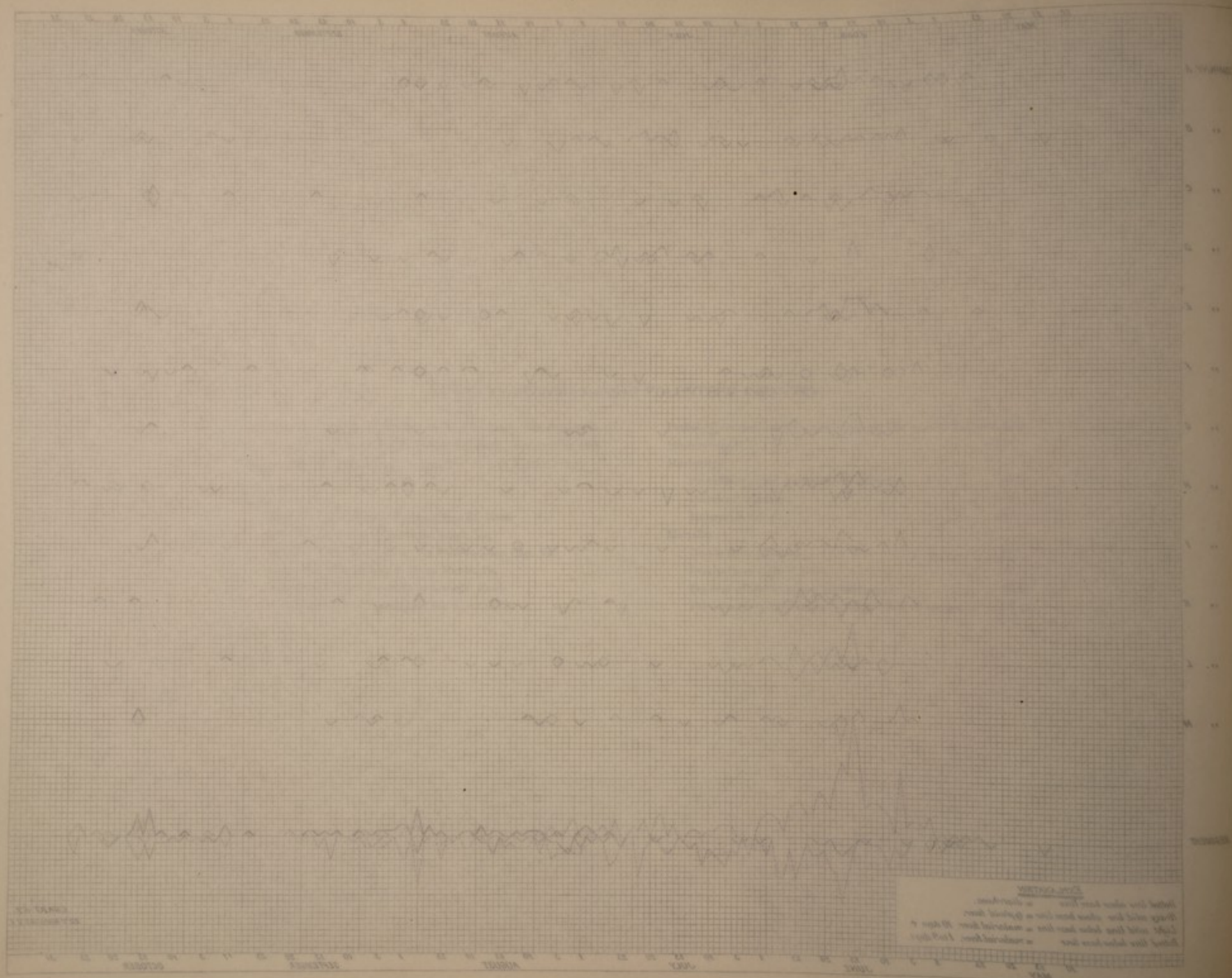
Deaths from all causes..... 15

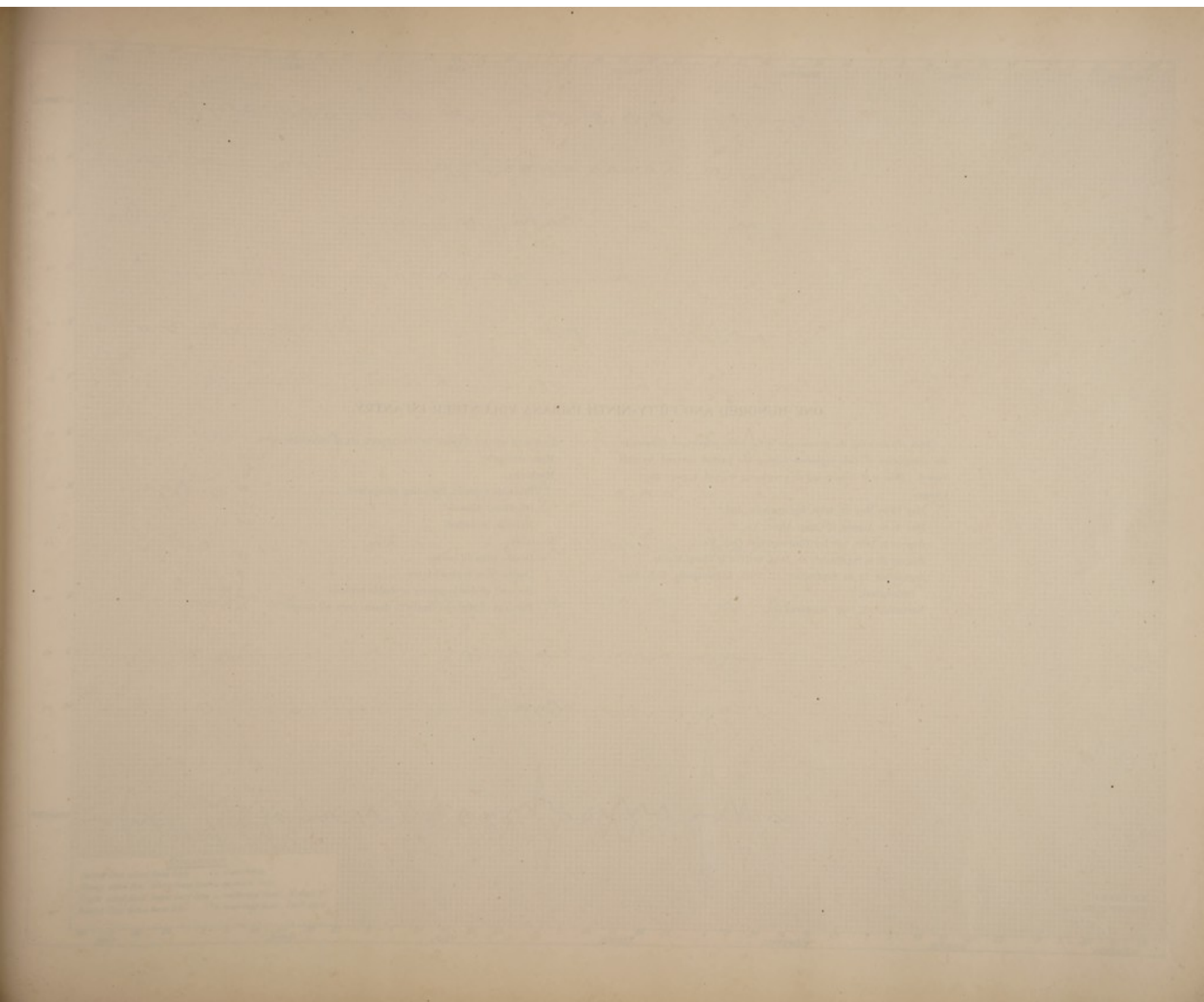
Deaths from typhoid fever..... 11

Per cent of deaths among probable typhoid..... 13.25

Per cent of typhoid deaths to deaths from all causes... 73.33







ONE HUNDRED AND FIFTY-NINTH INDIANA VOLUNTEER INFANTRY.

Chart 58, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 345.)

Camps:

May 13 to May 22, 1898, Indianapolis, Ind.
 May 24 to August 3, Camp Alger, Va.
 August 3, 1898, left for Thoroughfare Gap, Va.
 August 25 to September 11, 1898, arrived at Camp Meade.
 September 12 to September 17, 1898, Indianapolis, Ind., then furloughed.
 November 23, 1898, mustered out.

Period of service covered by this report, six months nine days.

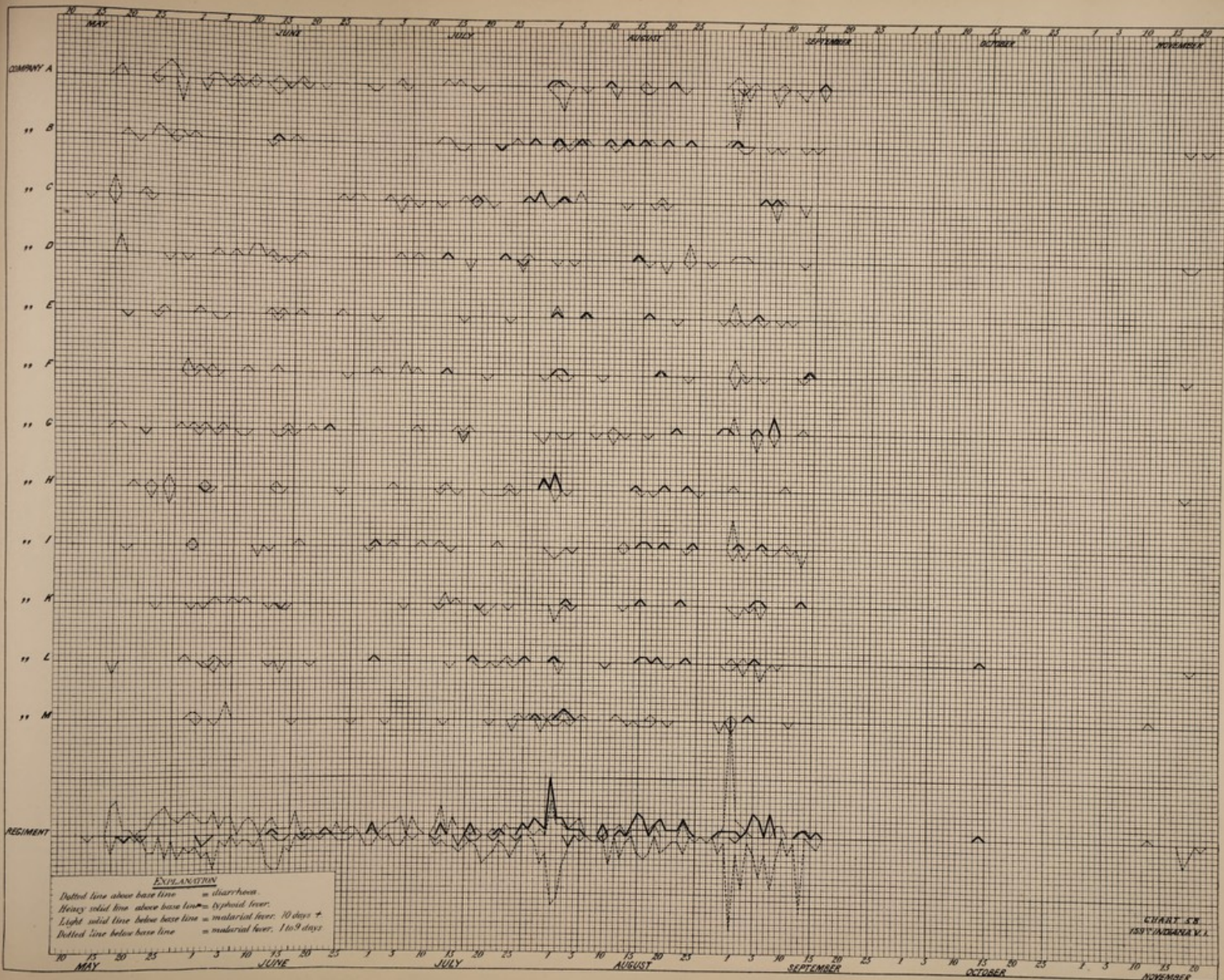
Mean strength..... 1,190

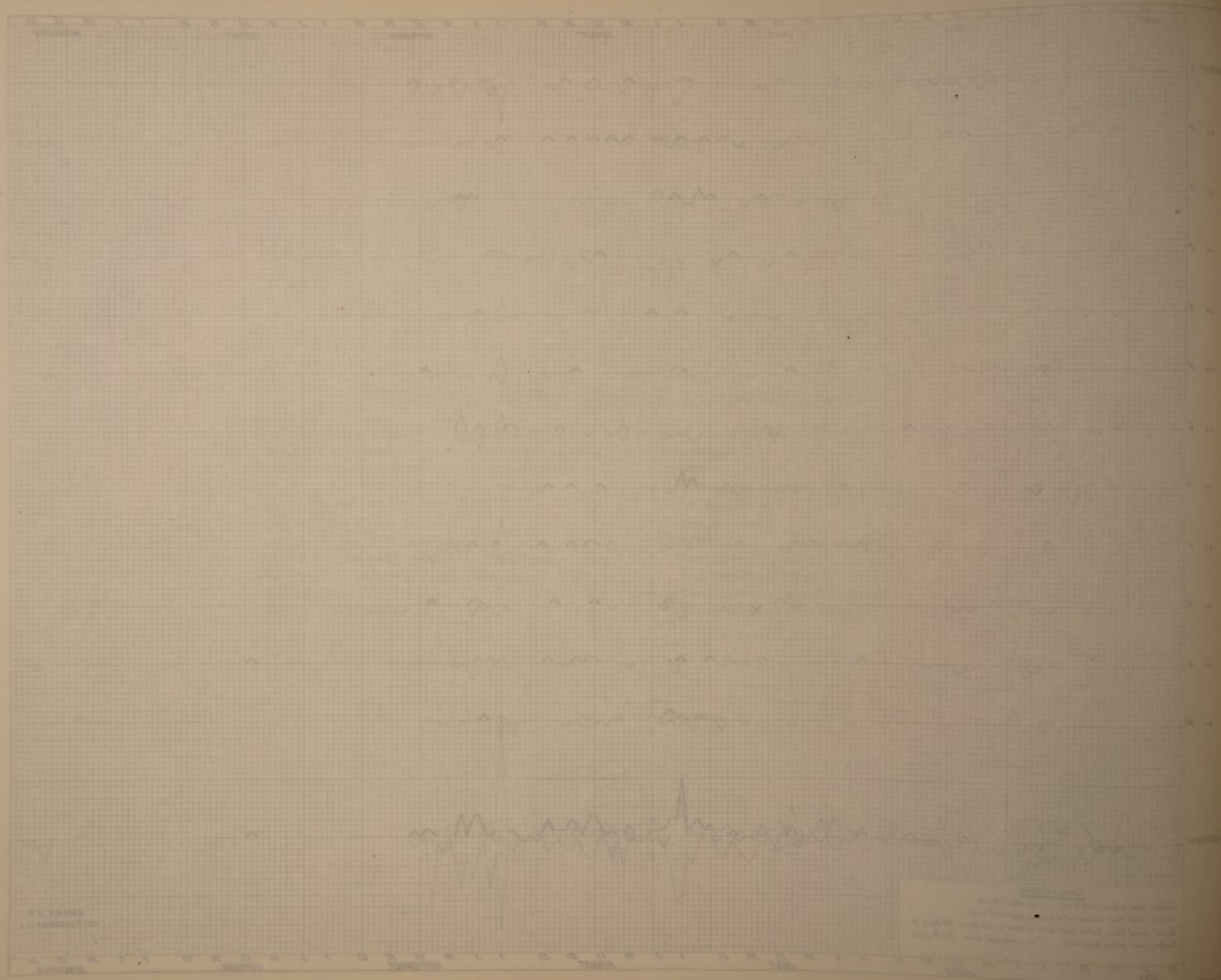
Morbidity:

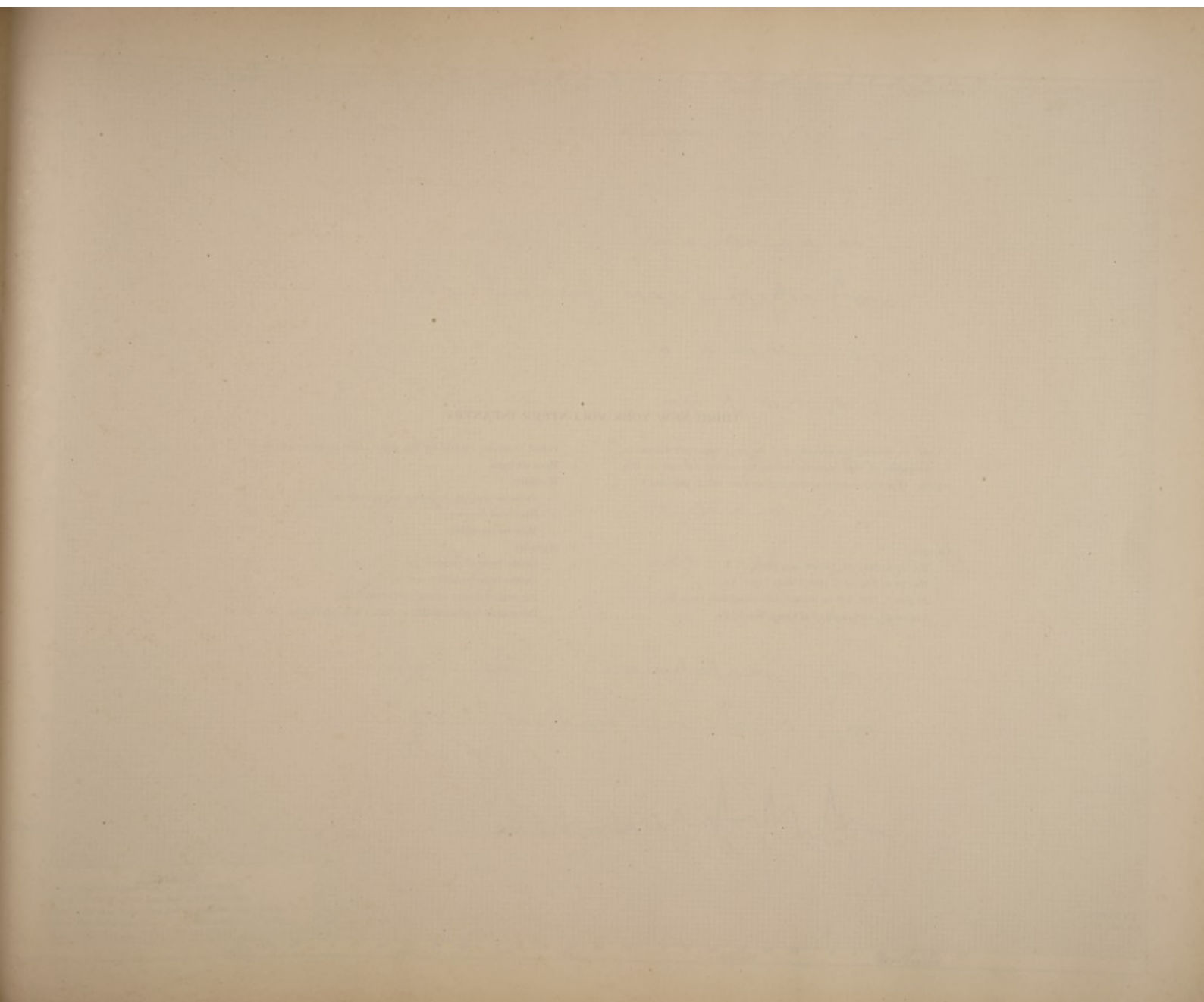
Probable typhoid, including recognized 89
 Diarrhoeal diseases 170
 Malarias (so called)..... 303

Mortality:

Deaths from all causes..... 11
 Deaths from typhoid fever..... 8
 Per cent of deaths among probable typhoid 8.98
 Per cent of typhoid deaths to deaths from all causes... 72.72







THIRD NEW YORK VOLUNTEER INFANTRY.

Chart 59, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. I, page 347.)

Camps:

May 15 to May 28, 1898, Camp Black, L. I.
 May 28 to August 3, 1898, Camp Alger, Va.
 August 3, 1898, left en route for Thoroughfare Gap, Va.
 August 29, 1898, arrived at Camp Meade, Pa.

Period of service covered by this report, four months eight days.

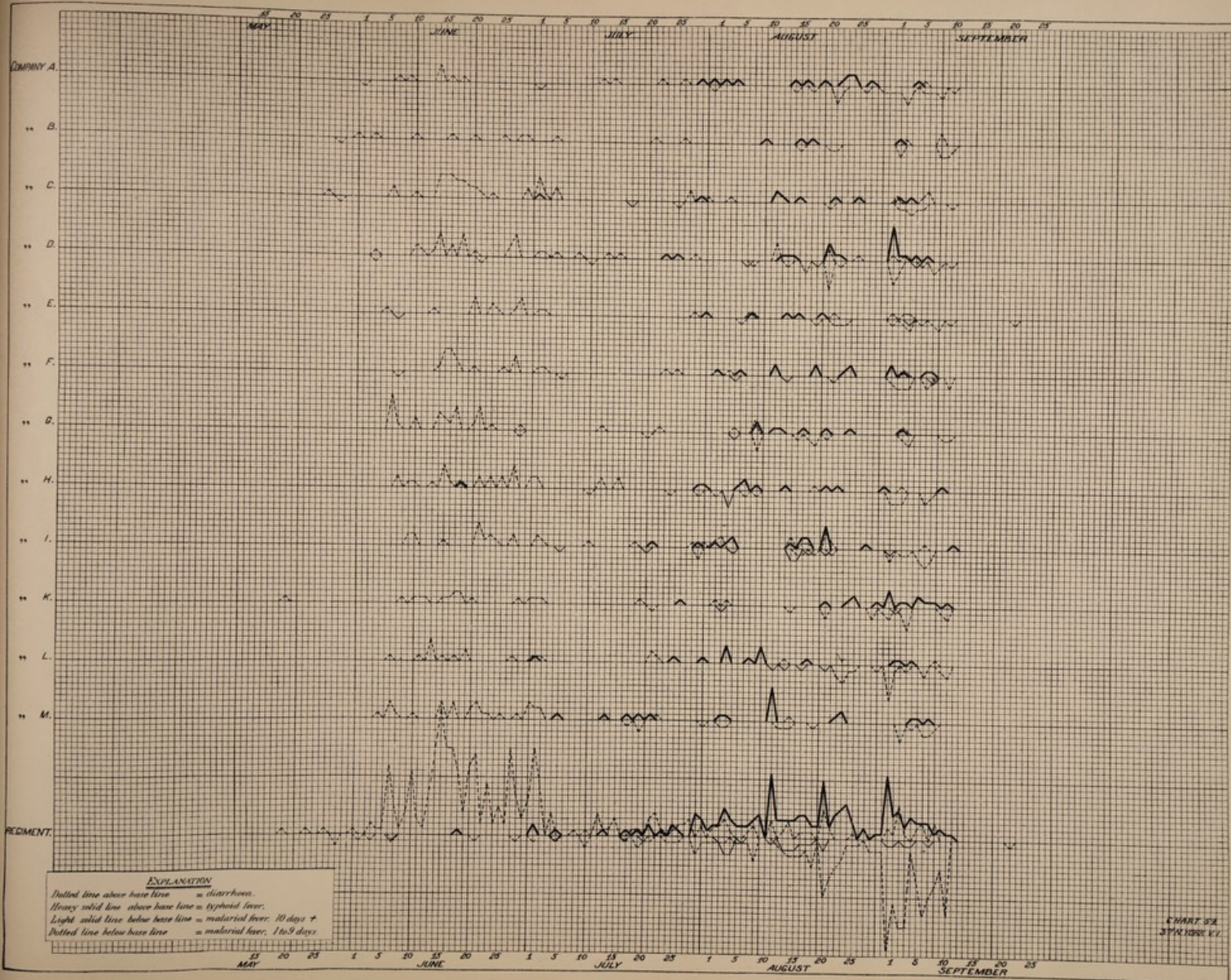
Mean strength..... 1,211

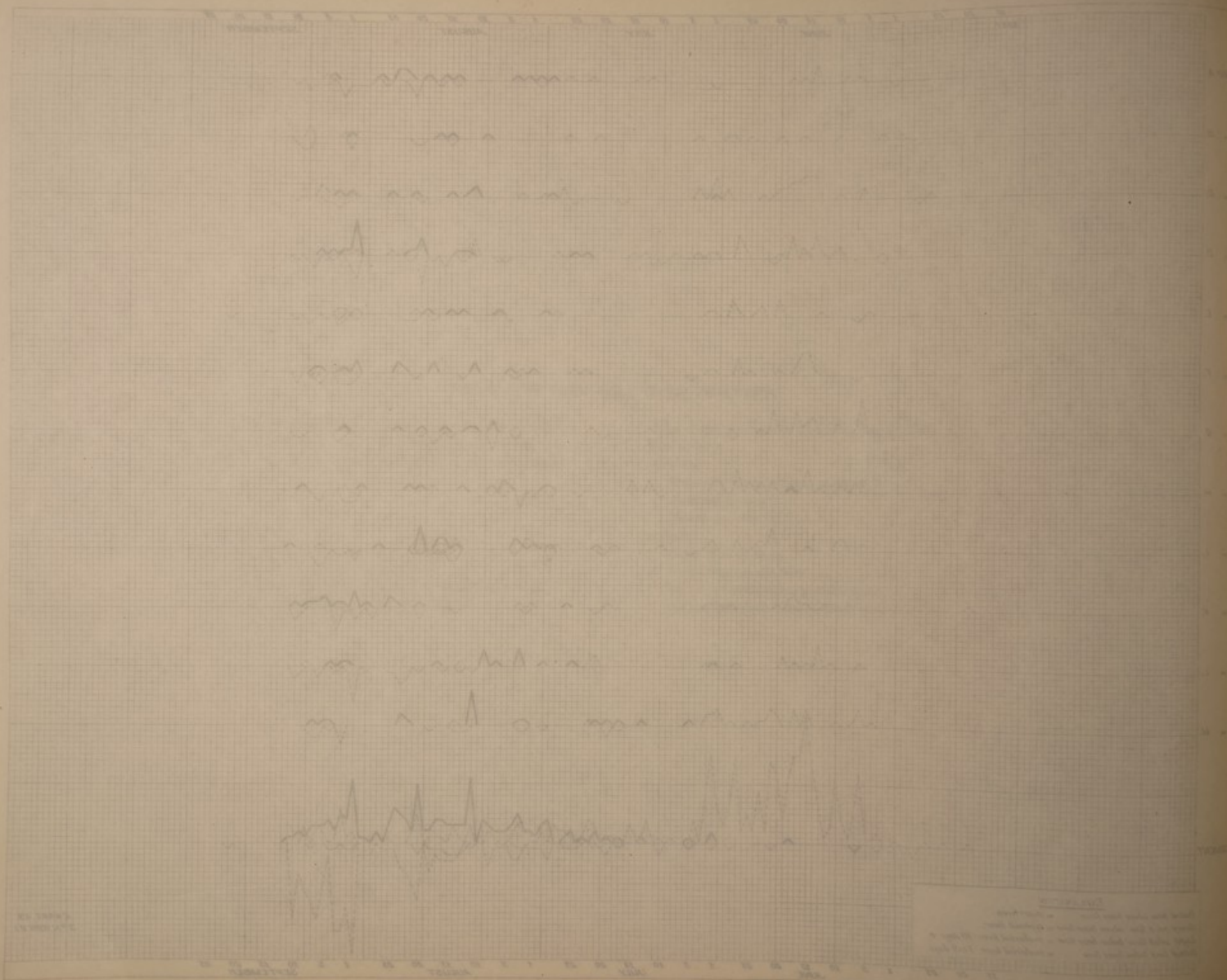
Morbidity:

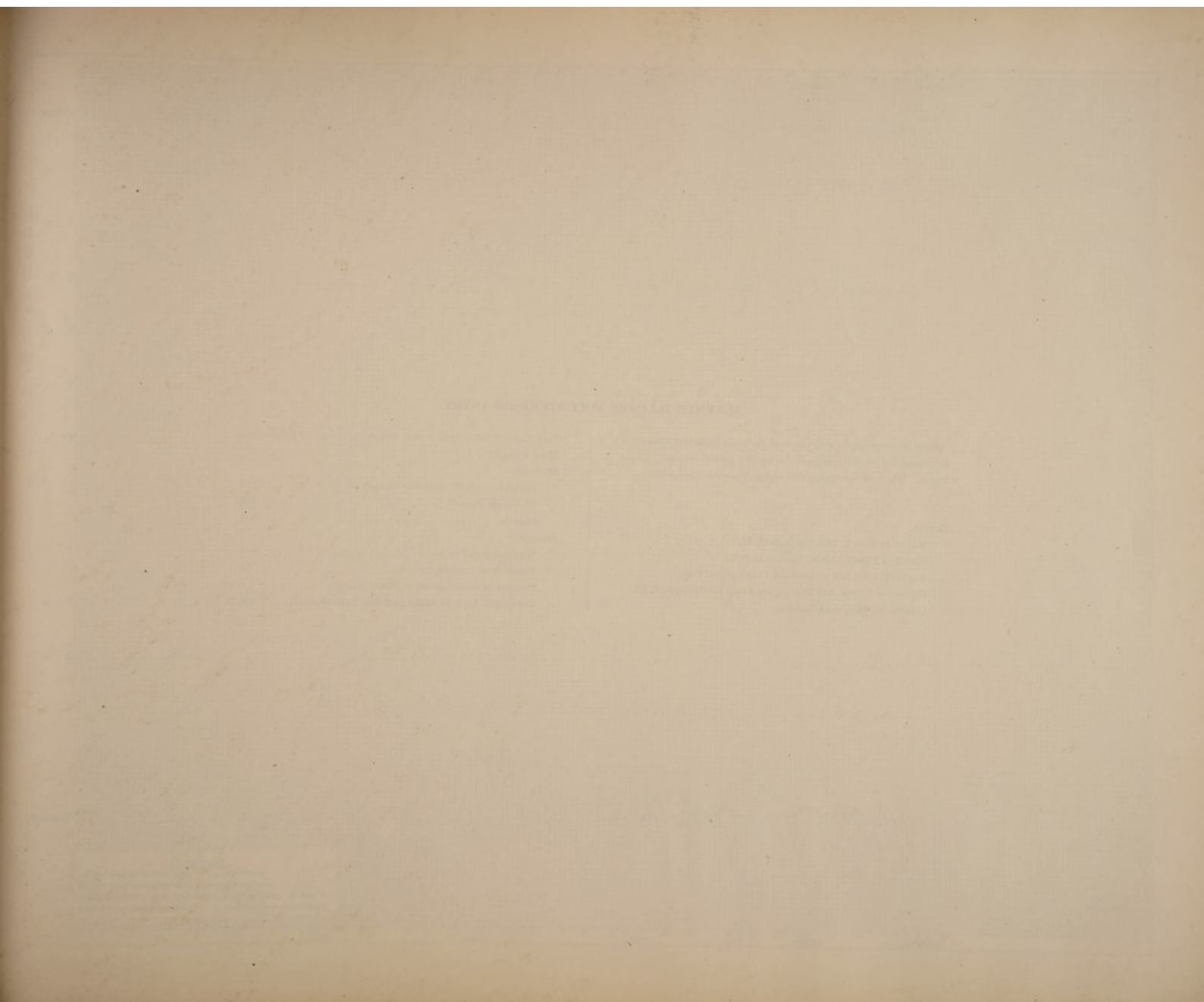
Probable typhoid, including recognized 185
 Diarrheal diseases 260
 Malarias (so called)..... 236

Mortality:

Deaths from all causes..... 35
 Deaths from typhoid fever..... 31
 Per cent of deaths among probable typhoid..... 16.75
 Per cent of typhoid deaths to deaths from all causes... 88.57







SEVENTH ILLINOIS VOLUNTEER INFANTRY.

Chart 60, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 348.)

Camps:

May — to June 1, 1898, Springfield, Ill.
 June 3 to August 1, 1898, Camp Alger, Va.
 August 1, 1898, left en route for Thoroughfare Gap.
 September 7, 1898, left Thoroughfare Gap for Springfield, Ill.
 October 20, 1898, mustered out.

Period of service covered by this report, three months fifteen days.

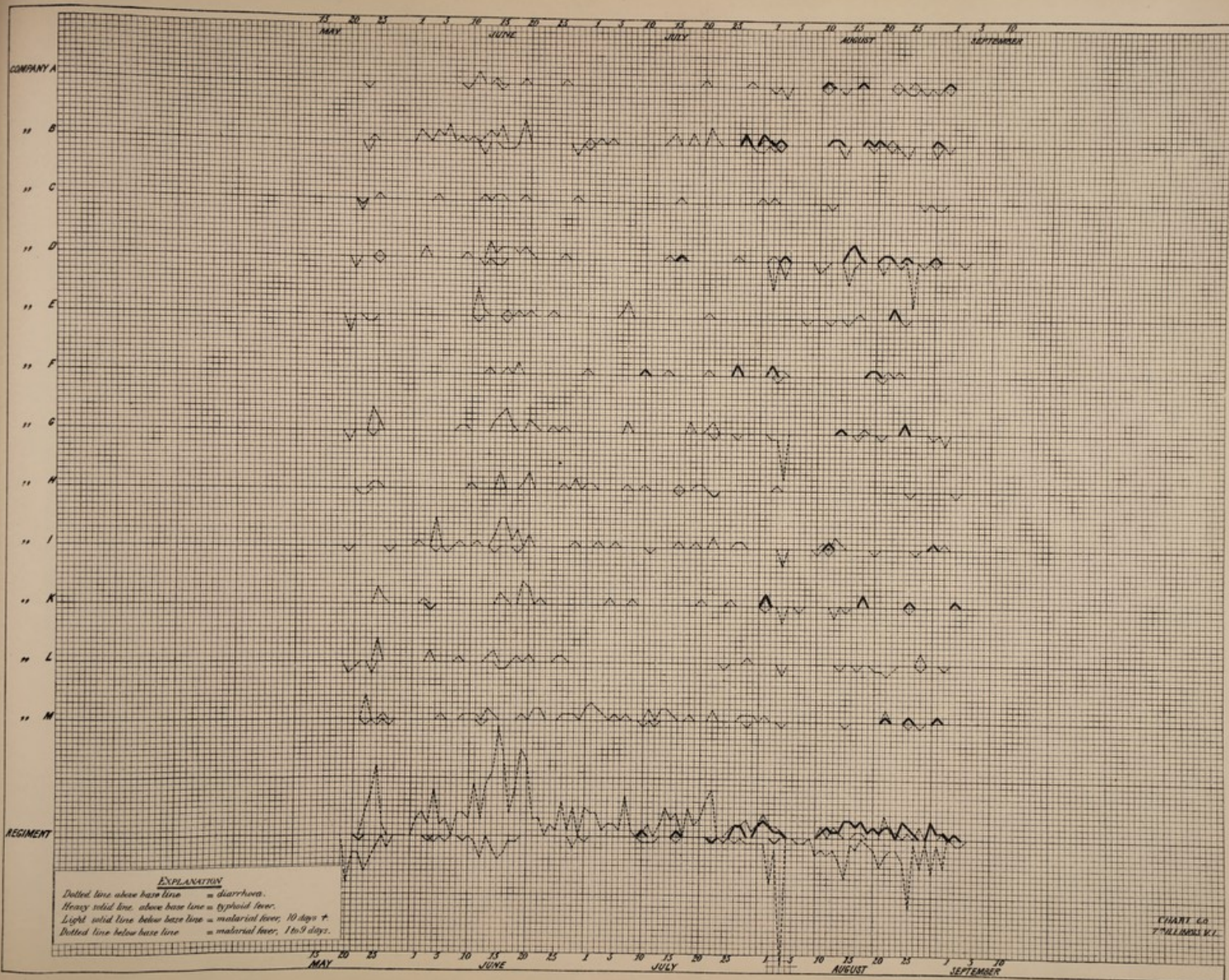
Mean strength..... 1,219

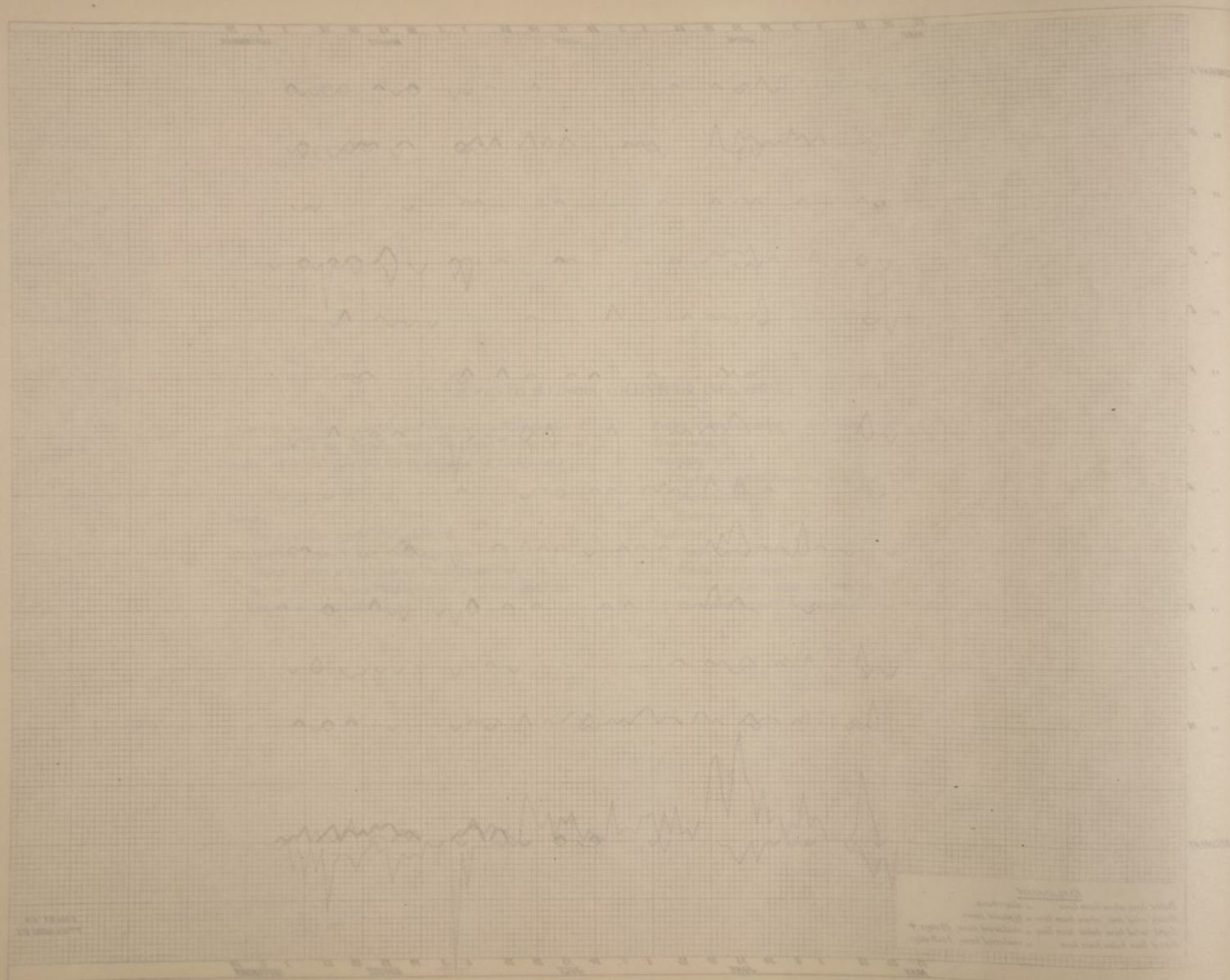
Morbidity:

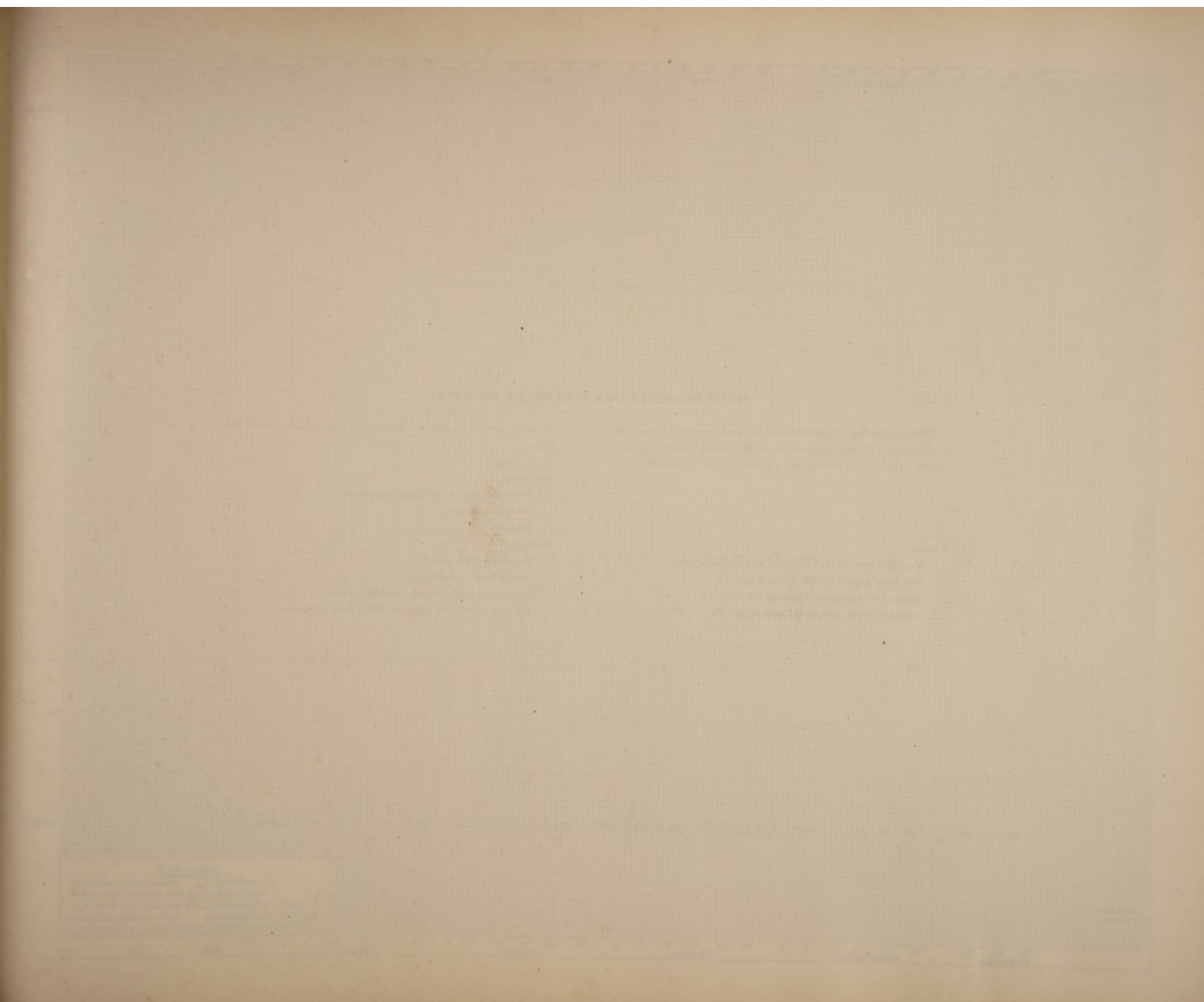
Probable typhoid, including recognized..... 119
 Diarrheal diseases..... 247
 Malarias..... 174

Mortality:

Deaths from all causes..... 2
 Deaths from typhoid fever..... 2
 Per cent of deaths among probable typhoid..... 1.68
 Per cent of typhoid deaths to deaths from all causes... 100.00







SIXTH PENNSYLVANIA VOLUNTEER INFANTRY.

Chart 61, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 350.)

Camps:

May, first part, to May 18, 1898, Mount Gretna, Pa.
May 19 to August 3, 1898, Camp Alger, Va.
August 3 to August 24, Thoroughfare Gap, Va.
August 25, 1898, arrived at Camp Meade, Pa.

Period of service covered by this report, four months twenty-four days.

Mean strength..... 1,236

Morbidity:

Probable typhoid, including recognized..... 36

Diarrhoeal diseases..... 69

Malaria..... 56

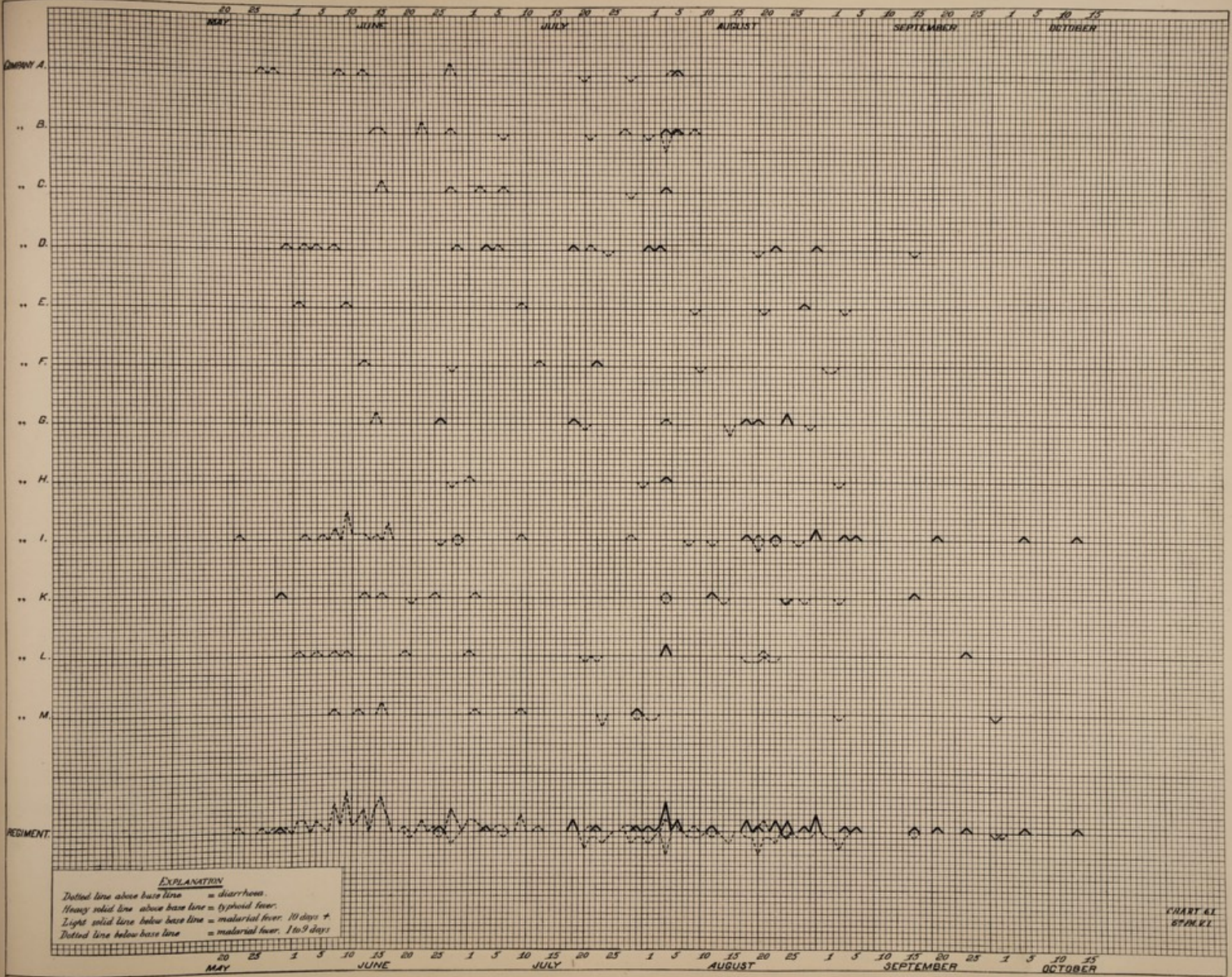
Mortality:

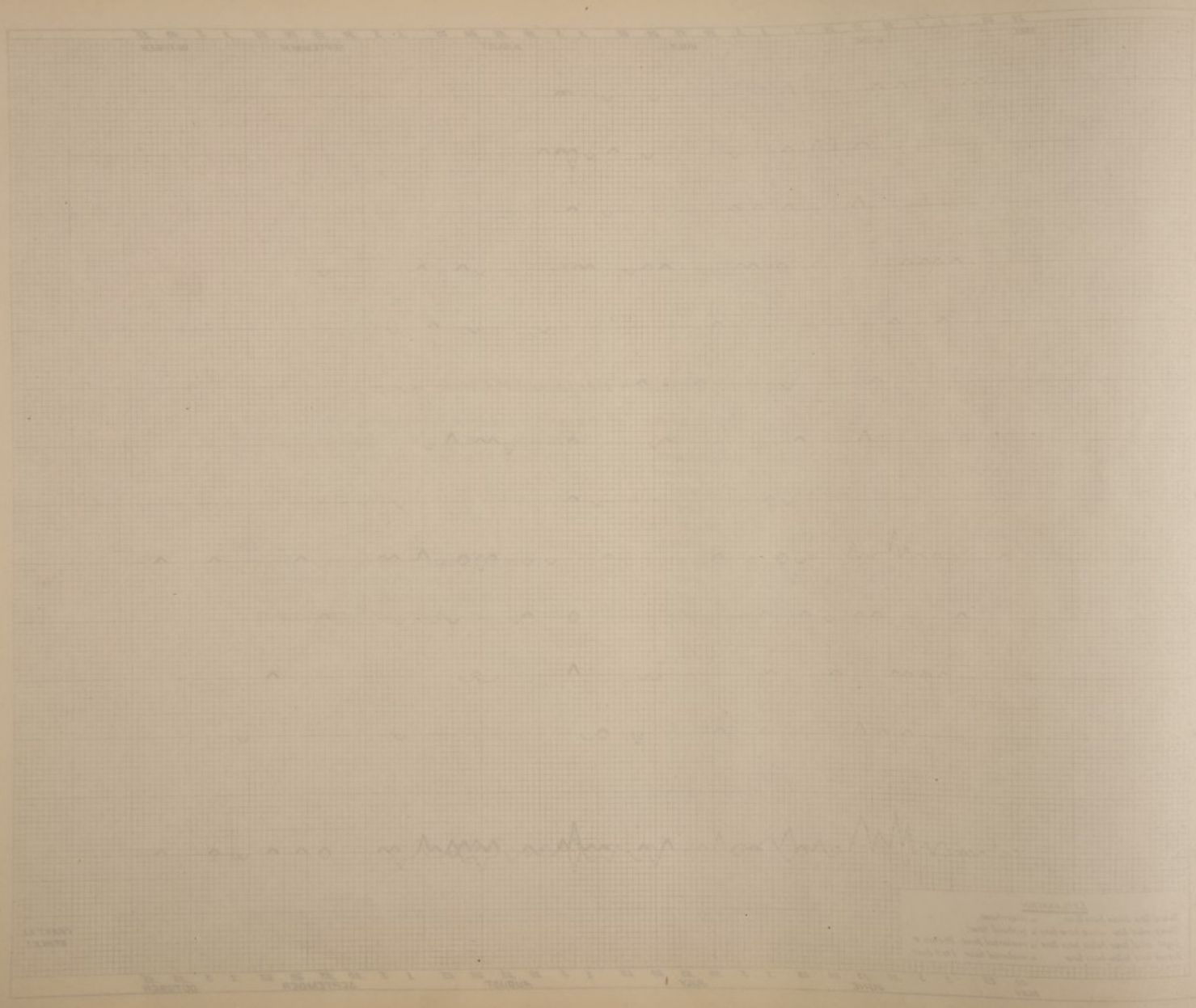
Deaths from all causes..... 9

Deaths from typhoid fever..... 6

Per cent of deaths among probable typhoid..... 16.66

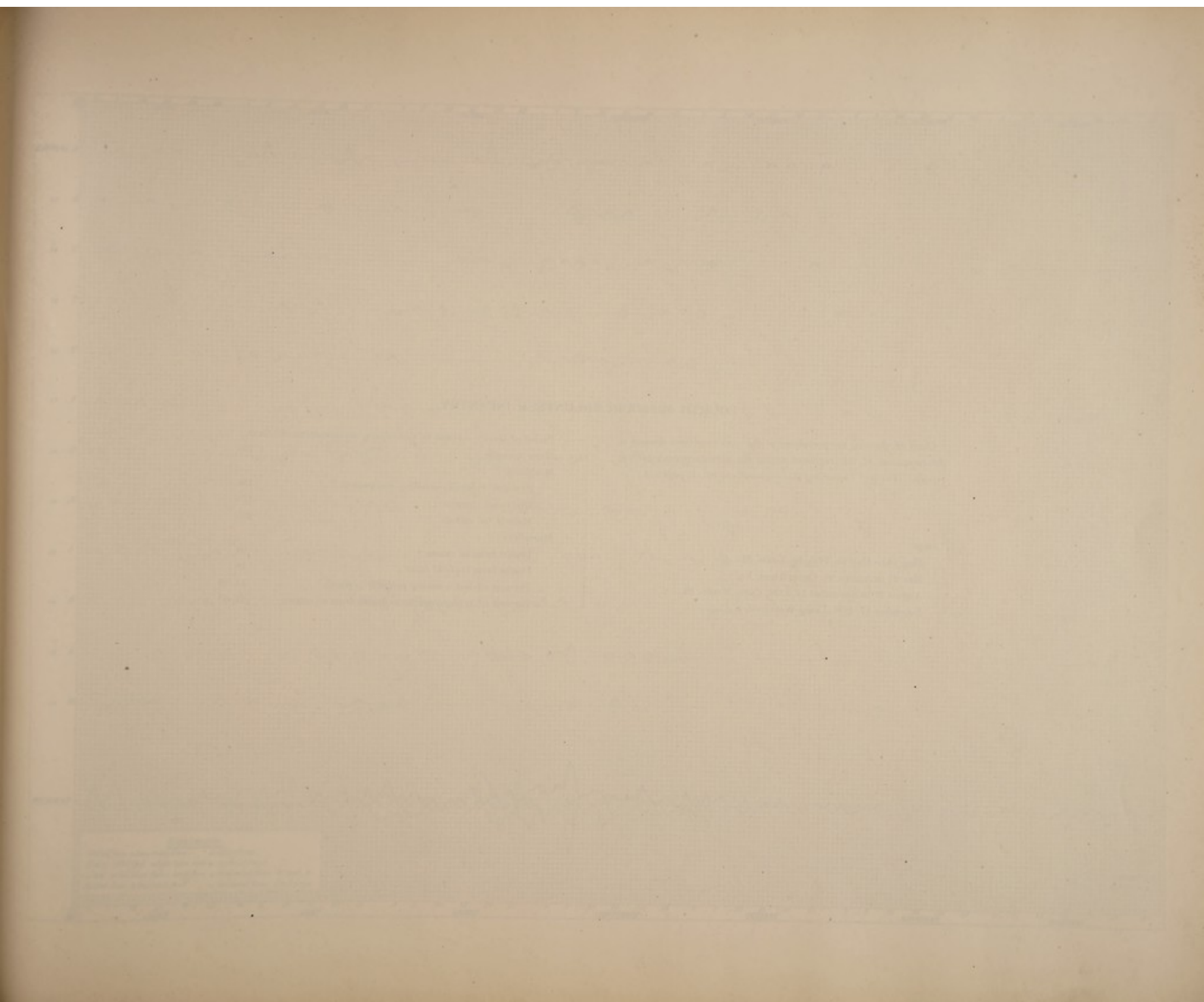
Per cent of typhoid deaths to deaths from all causes... 66.66





1000
500
0

1000
500
0



FOURTH MISSOURI VOLUNTEER INFANTRY.

Chart 62, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 352.)

Camps:

May 14 to May 24, 1898, St. Louis, Mo.
May 27 to August 20, Camp Alger, Va.
August 21 to November 14, 1898, Camp Meade, Pa.
November 17, 1898, Camp Wetherell, S. C.

Period of service covered by this report, seven months two days.

Mean strength..... 1,196

Morbidity:

Probable typhoid, including recognized..... 156

Diarrheal diseases..... 176

Malaria (so called)..... 236

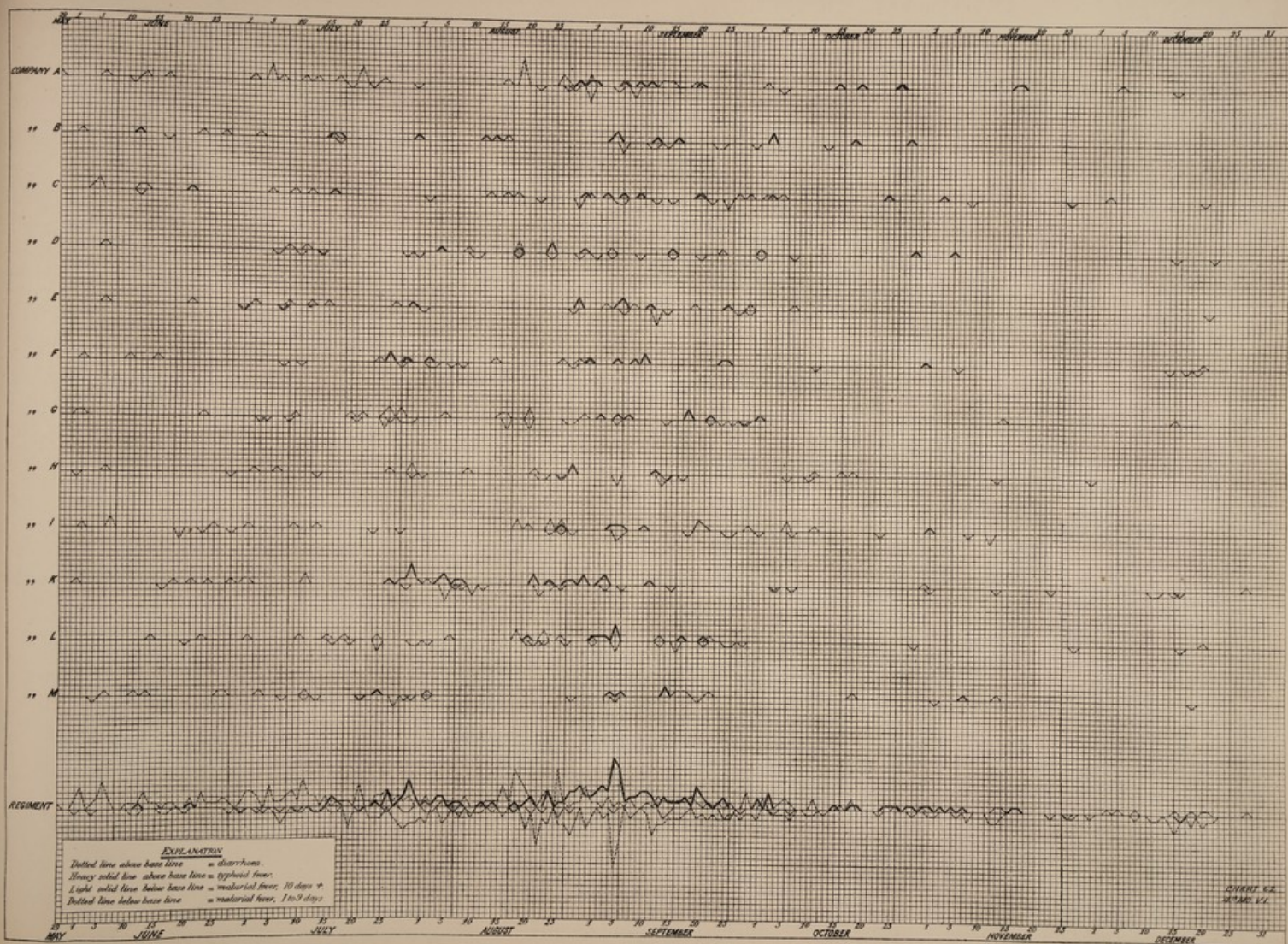
Mortality:

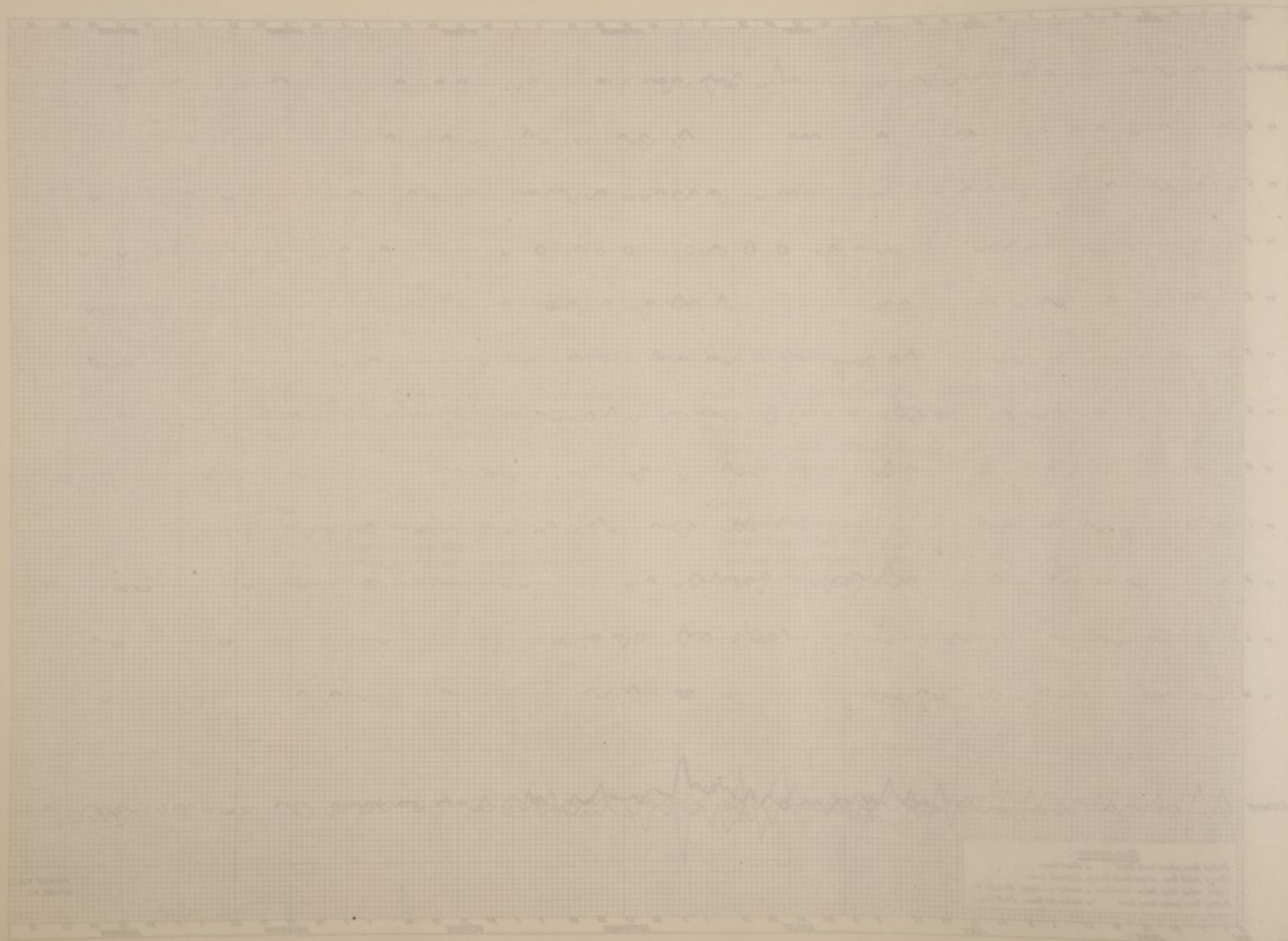
Deaths from all causes..... 24

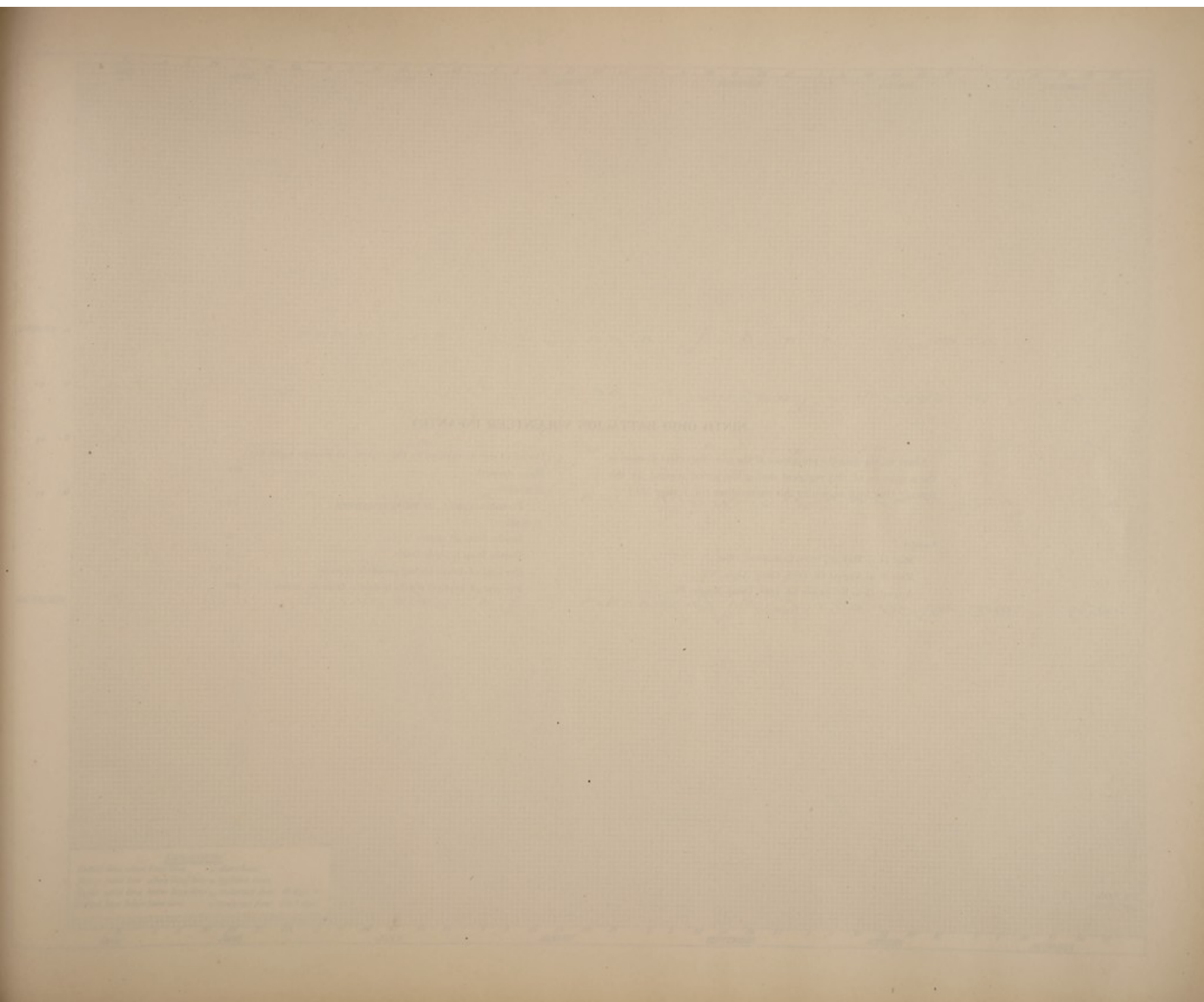
Deaths from typhoid fever..... 18

Per cent of deaths among probable typhoid..... 11.53

Per cent of typhoid deaths to deaths from all causes... 75.00







NINTH OHIO BATTALION VOLUNTEER INFANTRY.

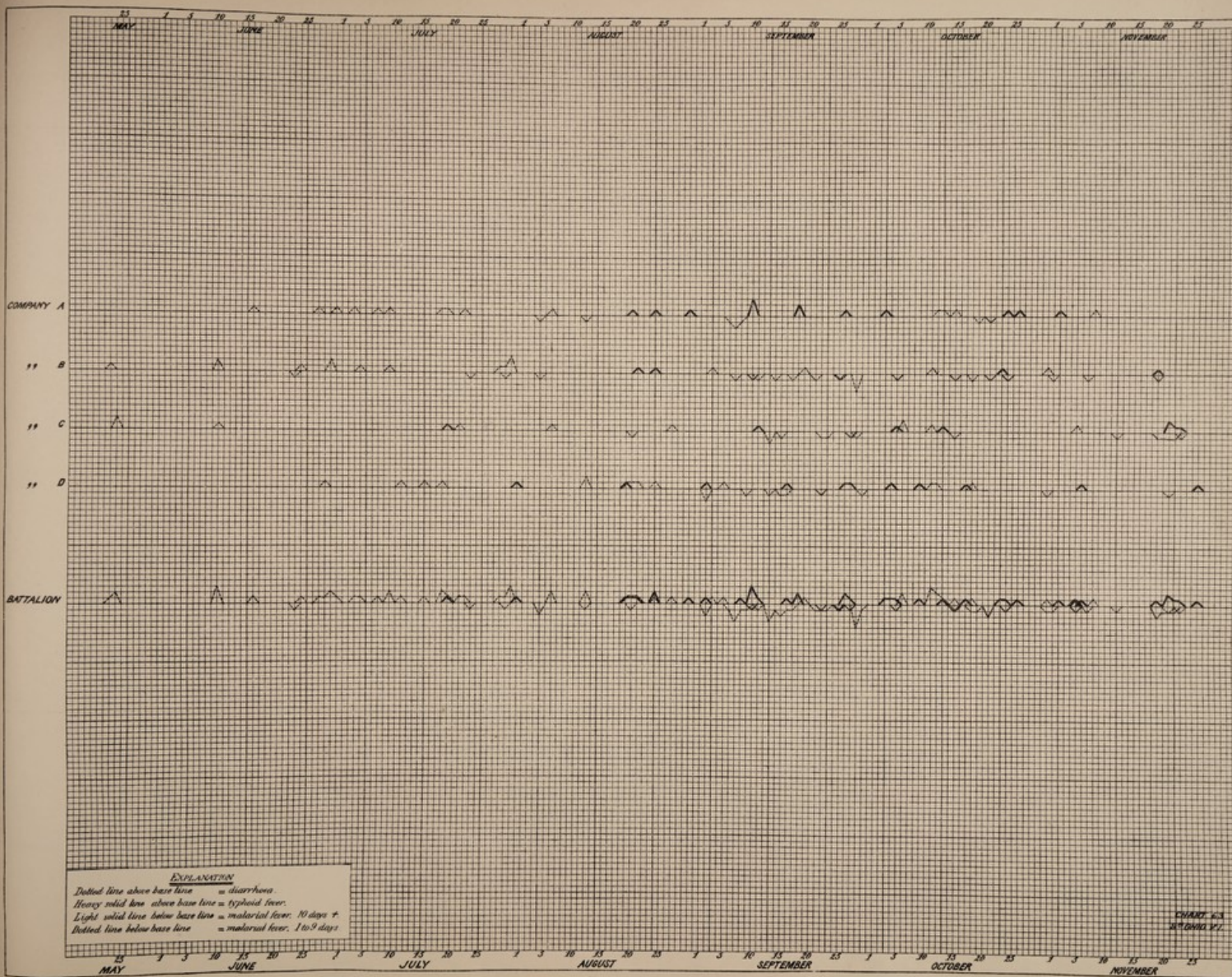
Chart 63, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 355.)

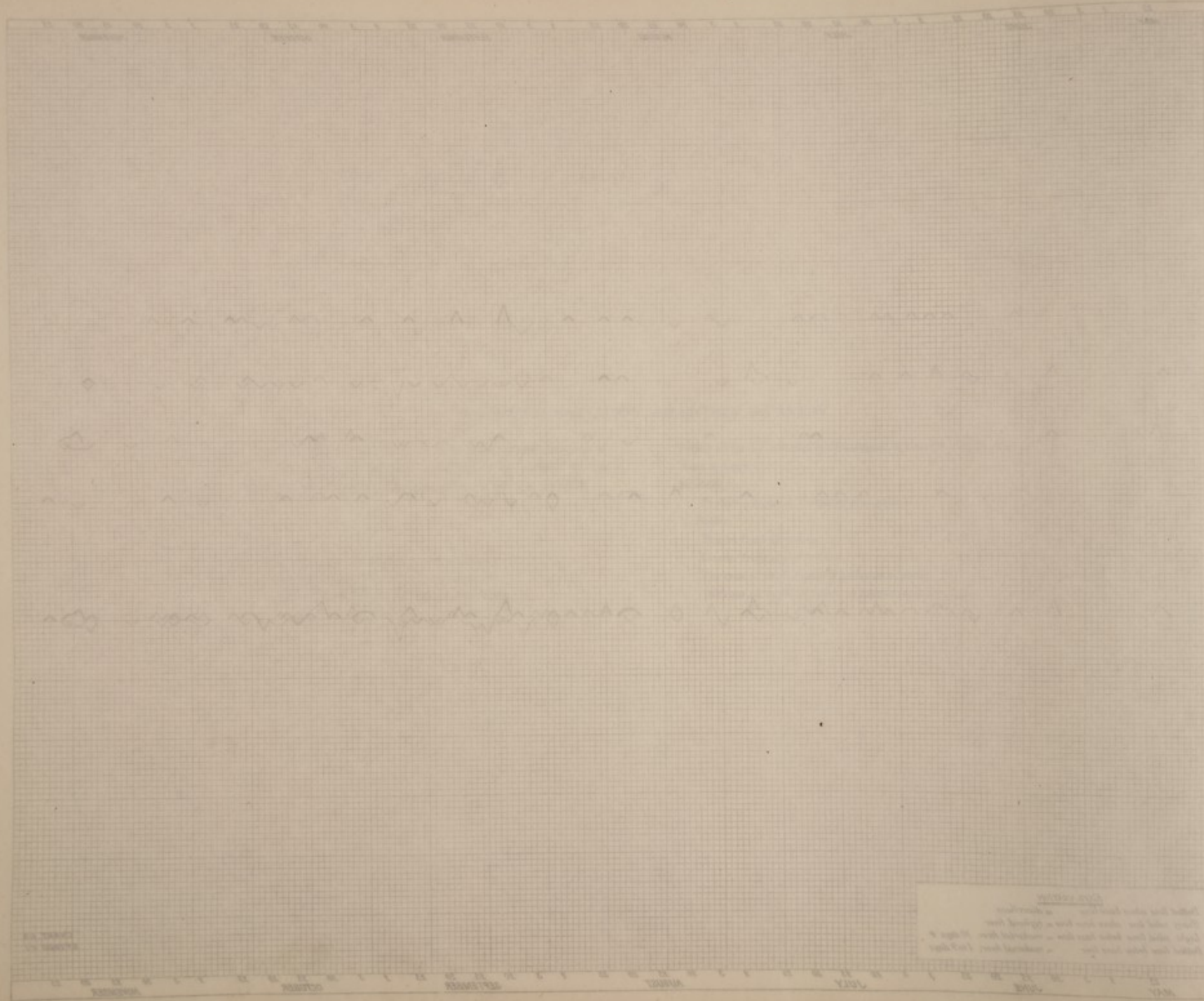
Camps:

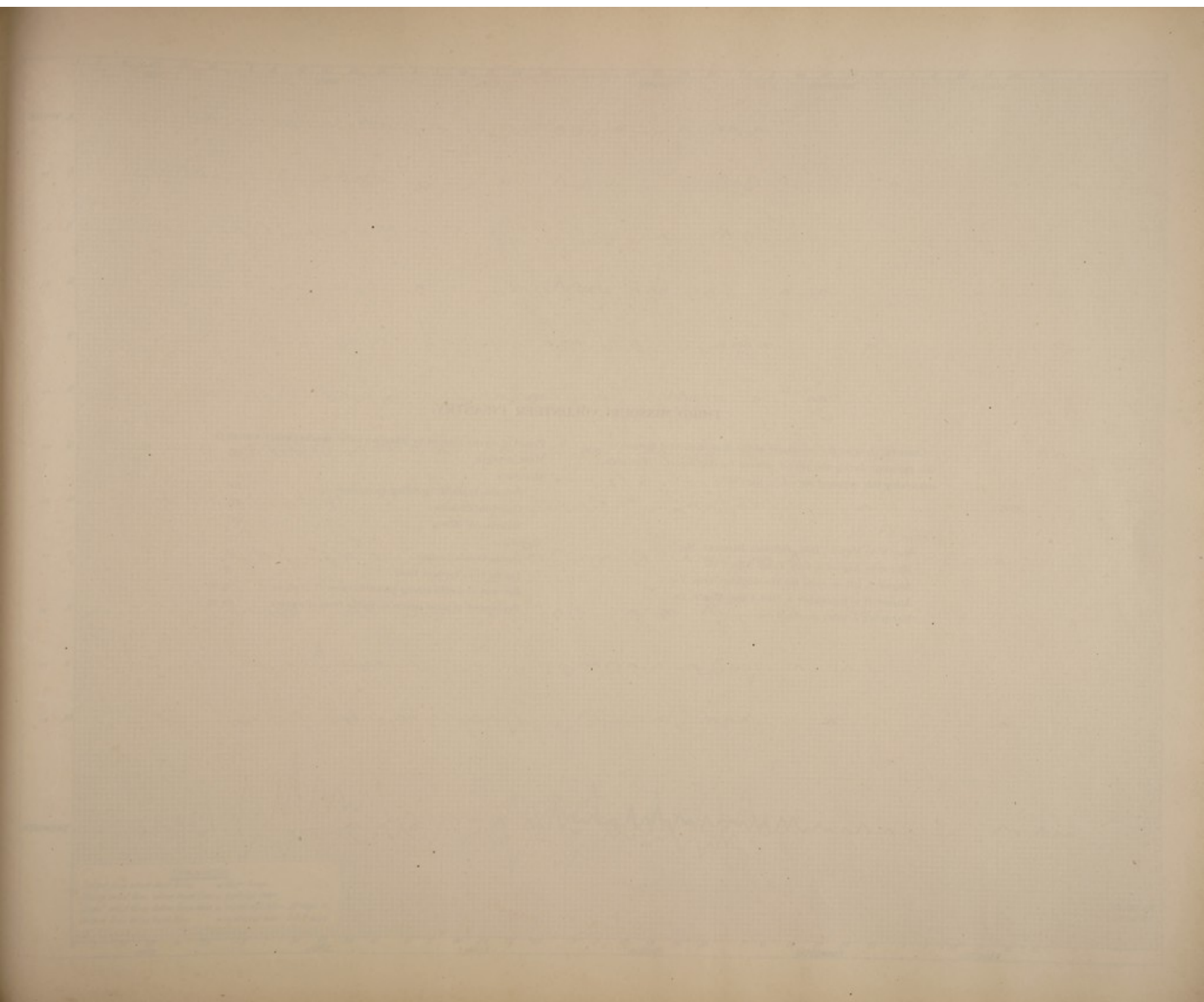
May 14 to May 20, 1898, Columbus, Ohio.
May 20 to August 16, 1898, Camp Alger, Va.
August 17 to November 14, 1898, Camp Meade, Pa.

Period of service covered by this report, six months eight days.

Mean strength.....	384
Morbidity:	
Probable typhoid, including recognized	54
Mortality:	
Deaths from all causes.....	5
Deaths from typhoid fever.....	5
Per cent of deaths among probable typhoid.....	9.25
Per cent of typhoid deaths to deaths from all causes.....	100







THIRD MISSOURI VOLUNTEER INFANTRY.

Chart 64, showing the prevalence of the more important diseases in this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 357.)

Camps:

May 10 to May 25, 1898, Jefferson Barracks, Mo.
 May 28 to August 3, 1898, Camp Alger, Va.
 August 3, left en route for Thoroughfare Gap, Va.
 August 21 to September 6, 1898, Camp Meade, Pa.
 November 7, 1898, mustered out.

Period of service covered by this report, five months twenty-nine days.

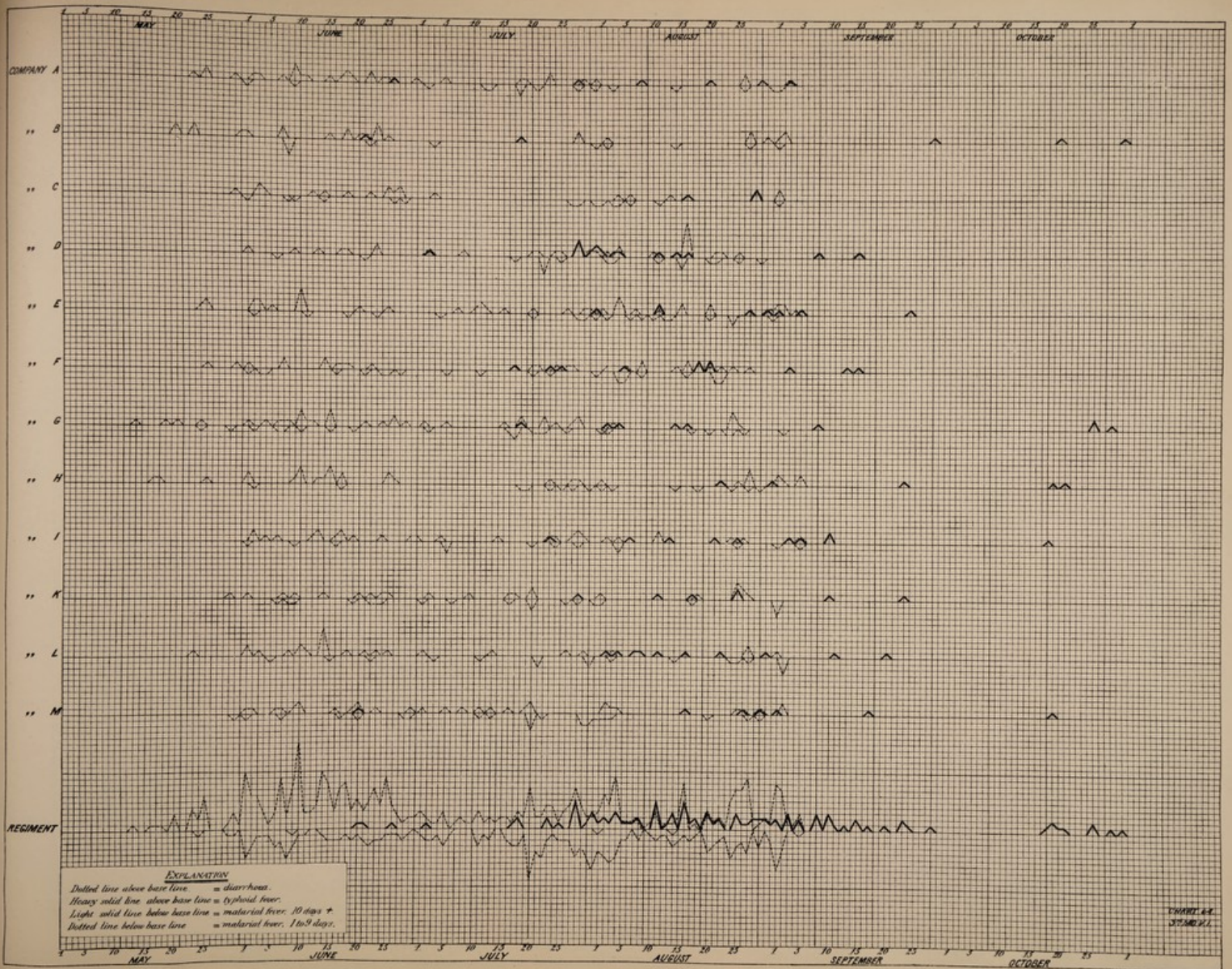
Mean strength..... 1,165

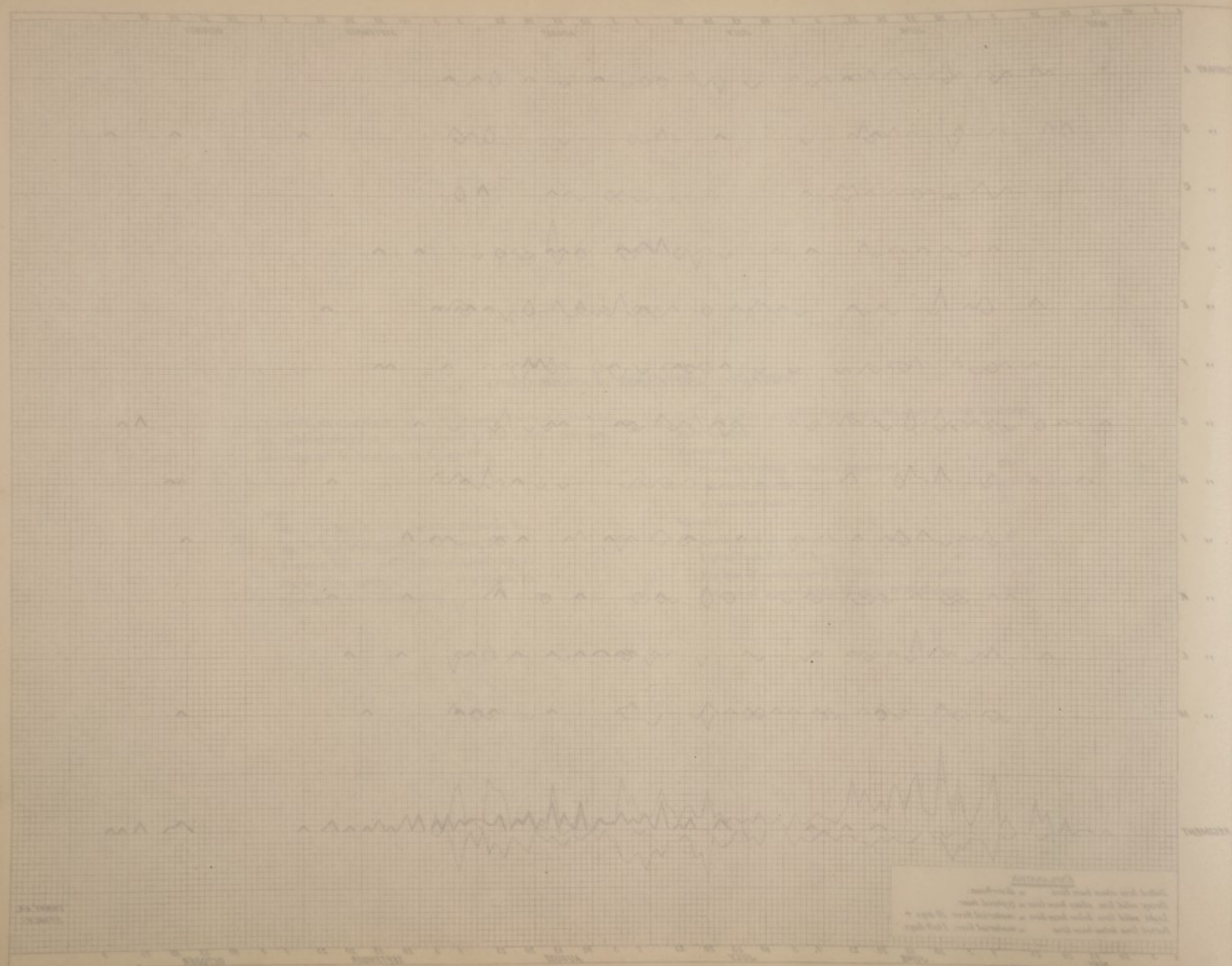
Morbidity:

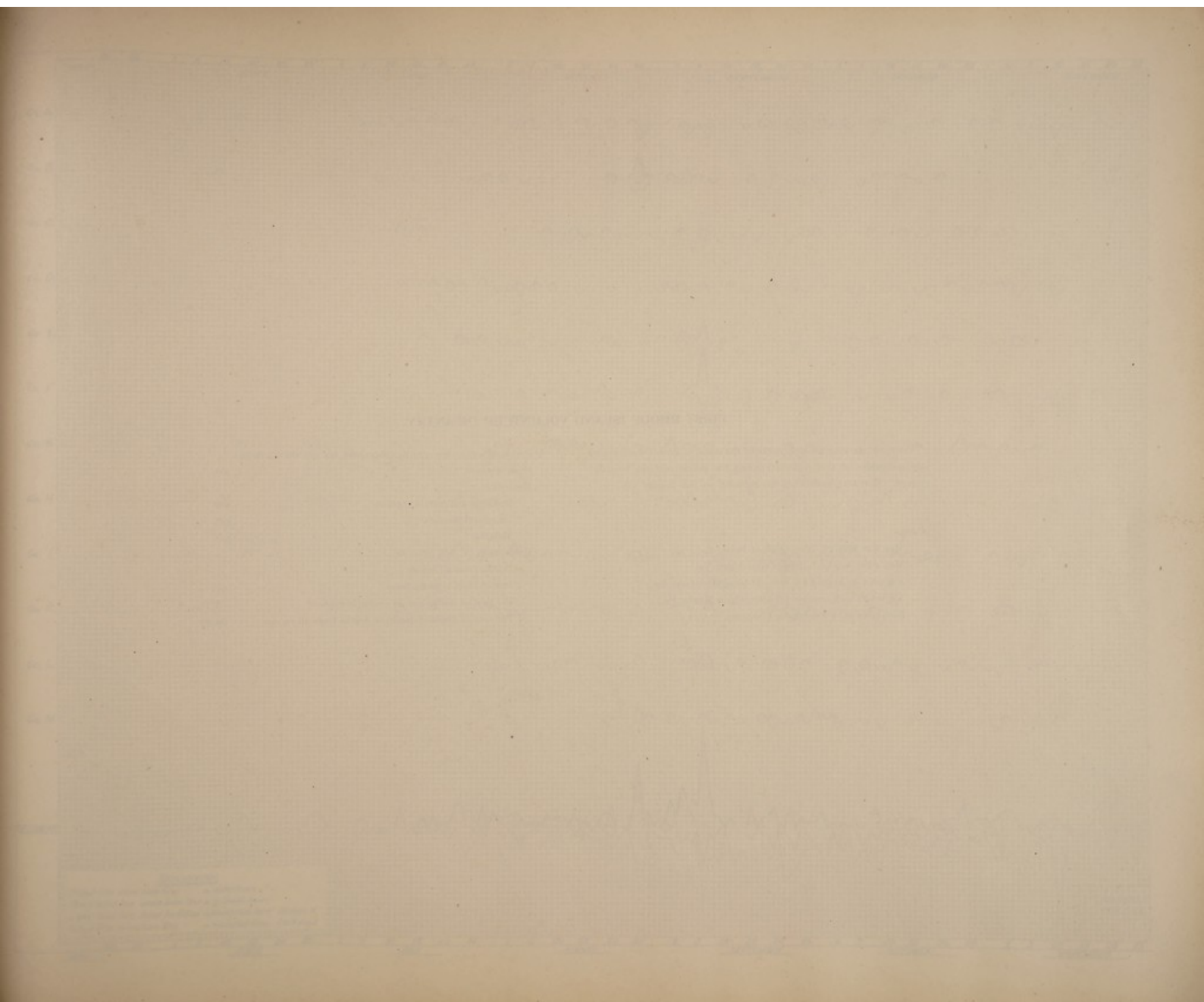
Probable typhoid, including recognized 100
 Diarrheal diseases 331
 Malarias (so called) 211

Mortality:

Deaths from all causes..... 13
 Deaths from typhoid fever..... 9
 Per cent of deaths among probable cases of typhoid... 9.00
 Per cent of typhoid deaths to deaths from all causes... 69.23







FIRST RHODE ISLAND VOLUNTEER INFANTRY.

Chart 65, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 358.)

Camps:

May 8 to May 26, 1898, Quonset Point, R. I.
May 28 to August 3, 1898, Camp Alger, Va.
August 4 to August 22, 1898, Thoroughfare Gap, Va.
August 22 to November 13, 1898, Camp Meade, Pa.
November 13, 1898, left for Columbia, S. C.

Period of service covered by this report, six months six days.

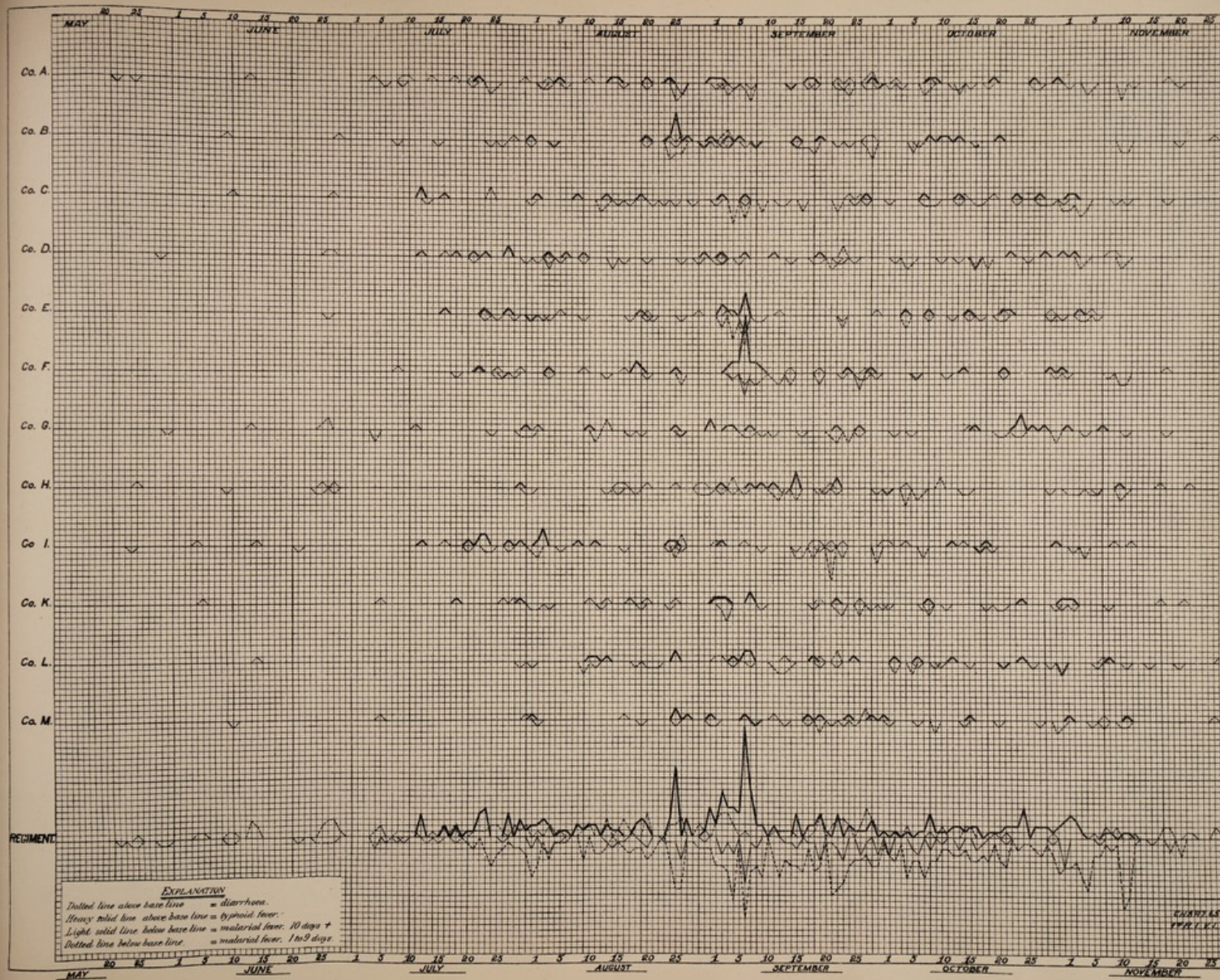
Mean strength..... 1,209

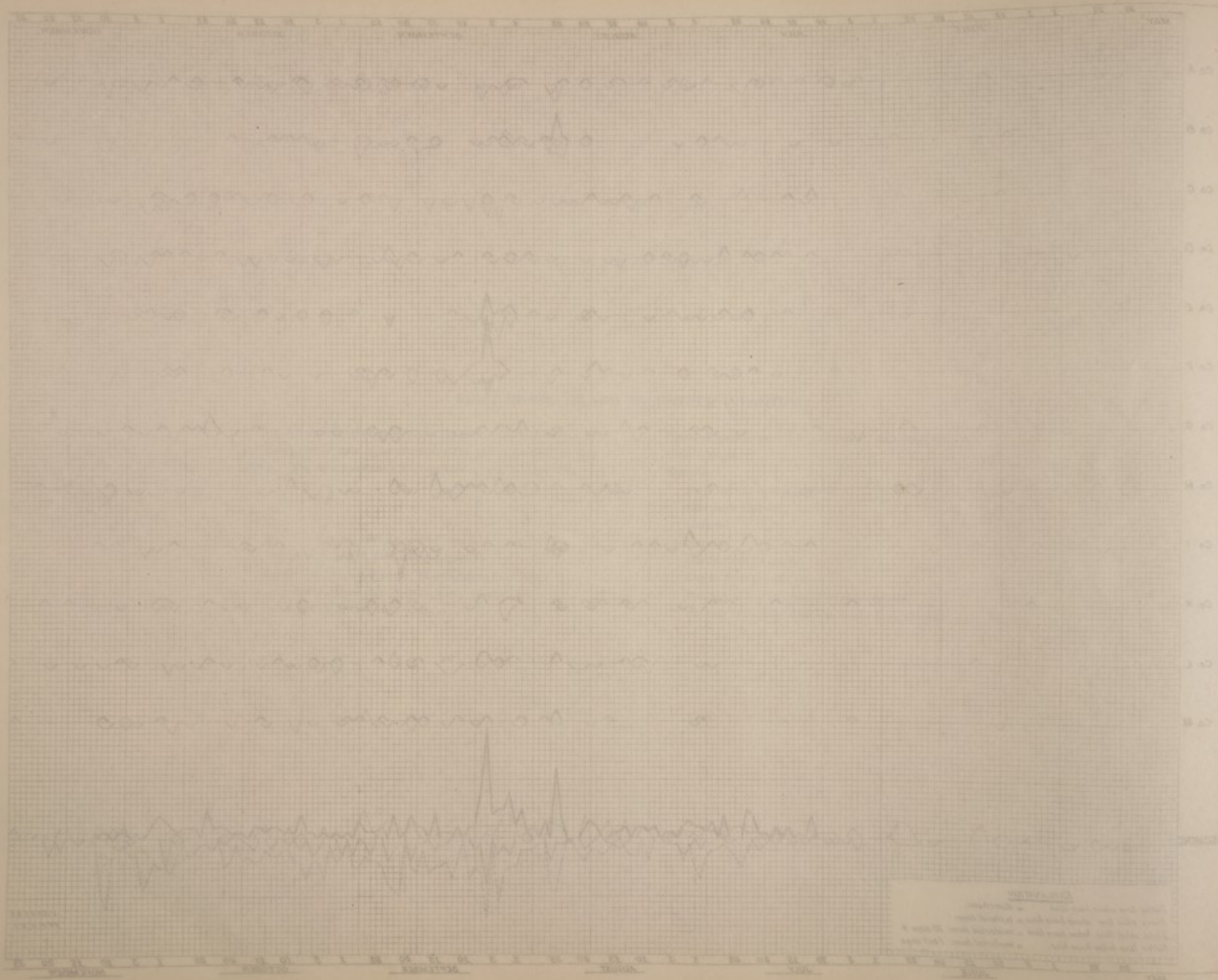
Morbidity:

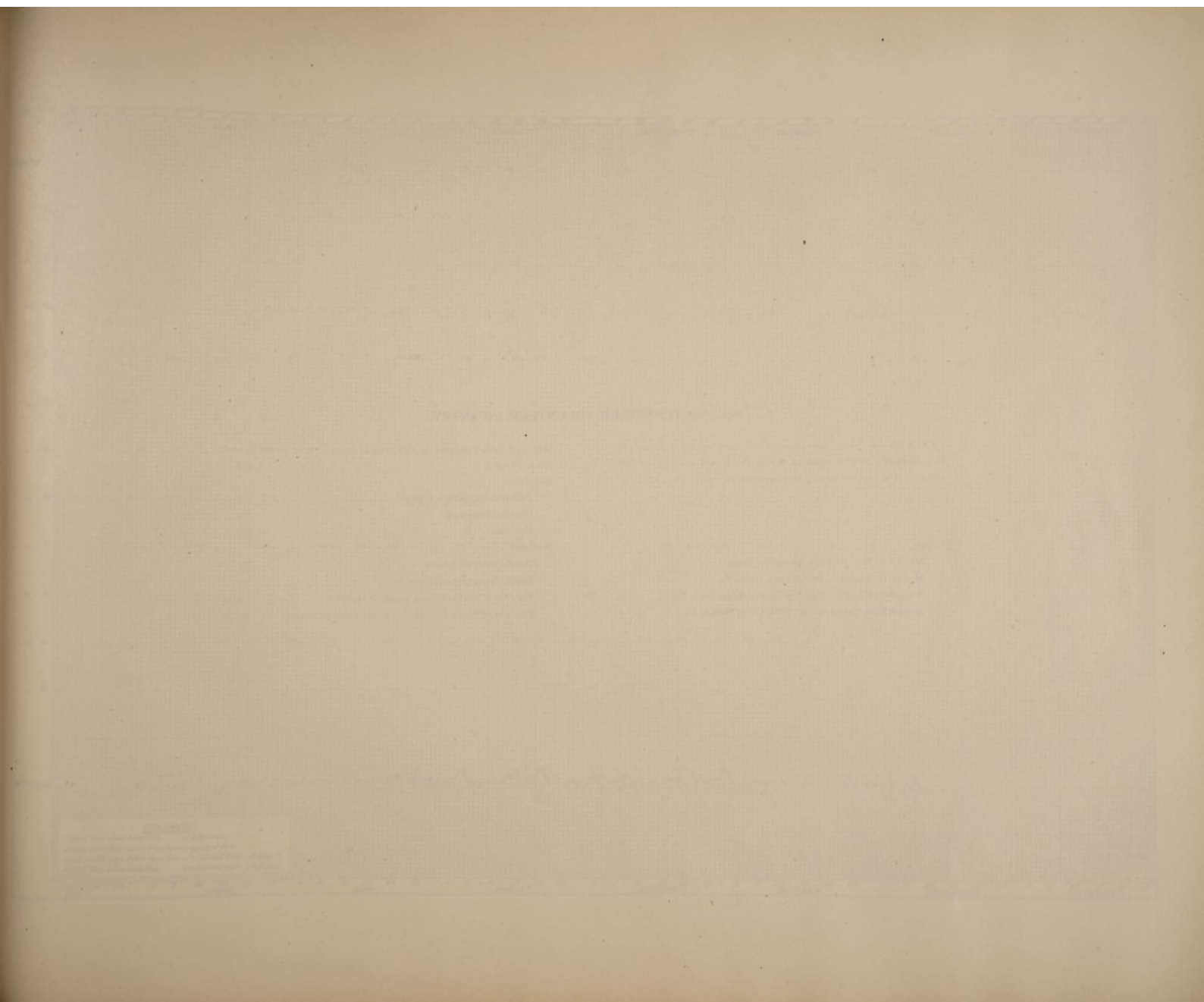
Probable and certain typhoid..... 269
Diarrhoeal diseases 137
Malarias 538

Mortality:

Deaths from all causes..... 11
Deaths from typhoid fever..... 10
Per cent of deaths among probable typhoid..... 3.71
Per cent of typhoid deaths to deaths from all causes... 90.91







SECOND TENNESSEE VOLUNTEER INFANTRY.

Chart 66, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 362.)

Camps:

May 24 to May 28, 1898, Nashville, Tenn.
 May 29 to August 9, 1898, Camp Alger, Va.
 August 9 to August 24, 1898, Thoroughfare Gap, Va.
 August 25 to November 10, 1898, Camp Meade, Pa.

Period of service covered by this report, seven months eleven days.

Mean strength..... 1,302

Morbidity:

Probable and certain typhoid..... 192

Diarrheal diseases 70

Malaria 175

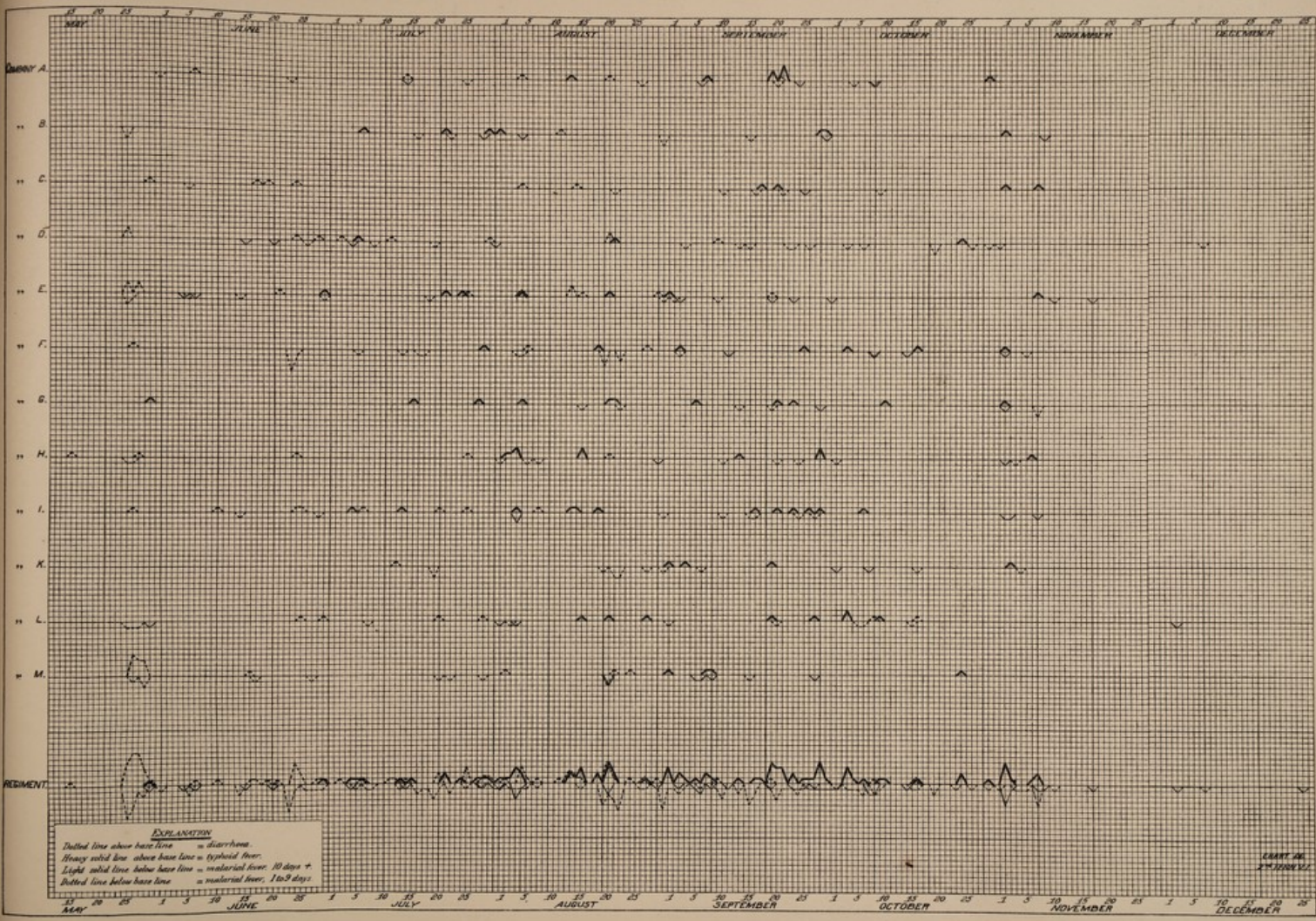
Mortality:

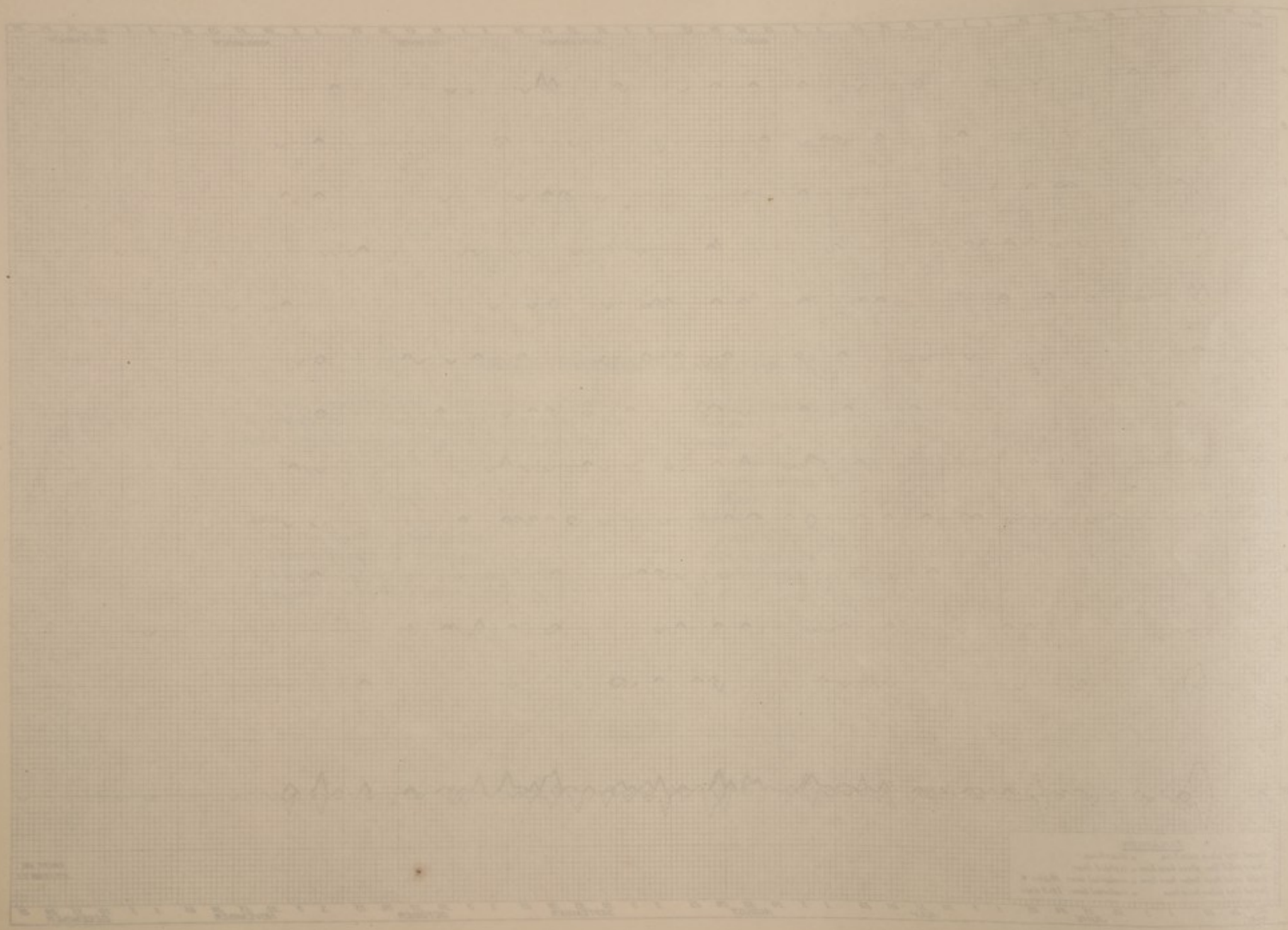
Deaths from all causes..... 15

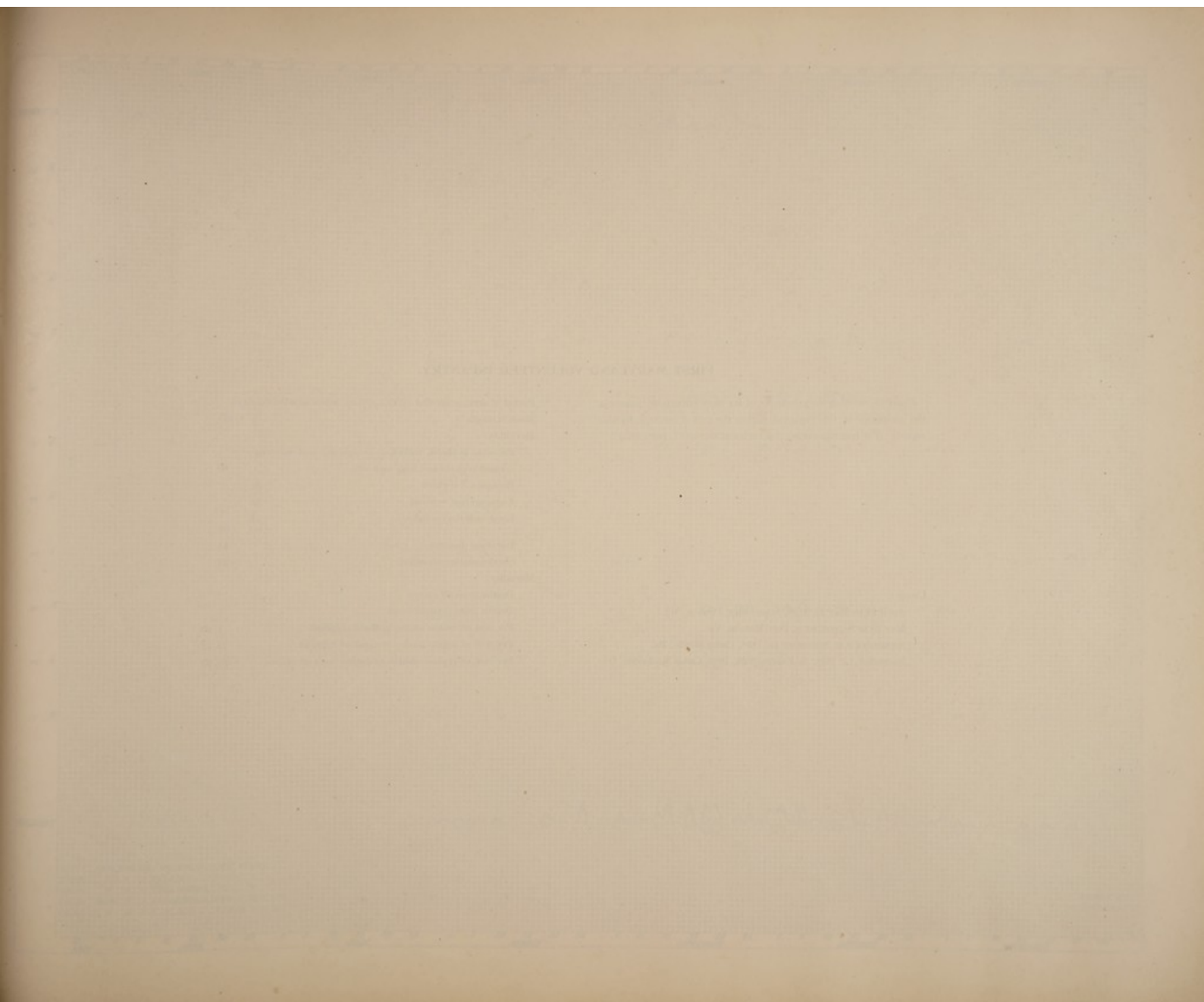
Deaths from typhoid fever..... 8

Per cent of deaths among probable typhoid..... 4.16

Per cent of typhoid deaths to deaths from all causes... 53.33







FIRST MARYLAND VOLUNTEER INFANTRY.

Chart 67, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 382.)

Camps:

April 25 to May 25, 1898, State camp, Pimlico, Md.
 May 25 to September 8, Fort Monroe, Va.
 September 9 to November 15, 1898, Camp Meade, Pa.
 November 17, 1898, to February 28, 1899, Camp Mackenzie, Ga.

Period of service covered by this report, seven months six days.

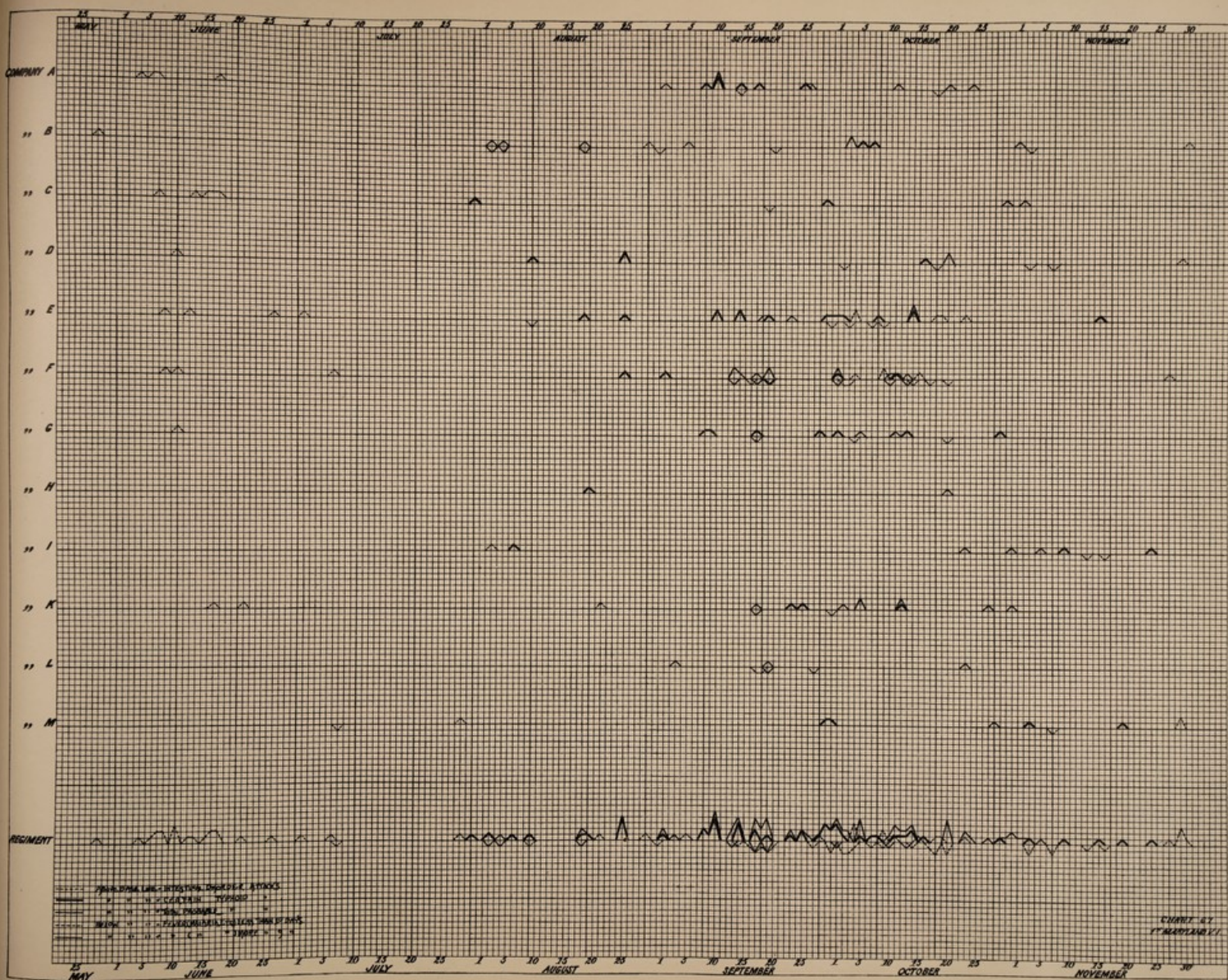
Mean strength 1,251

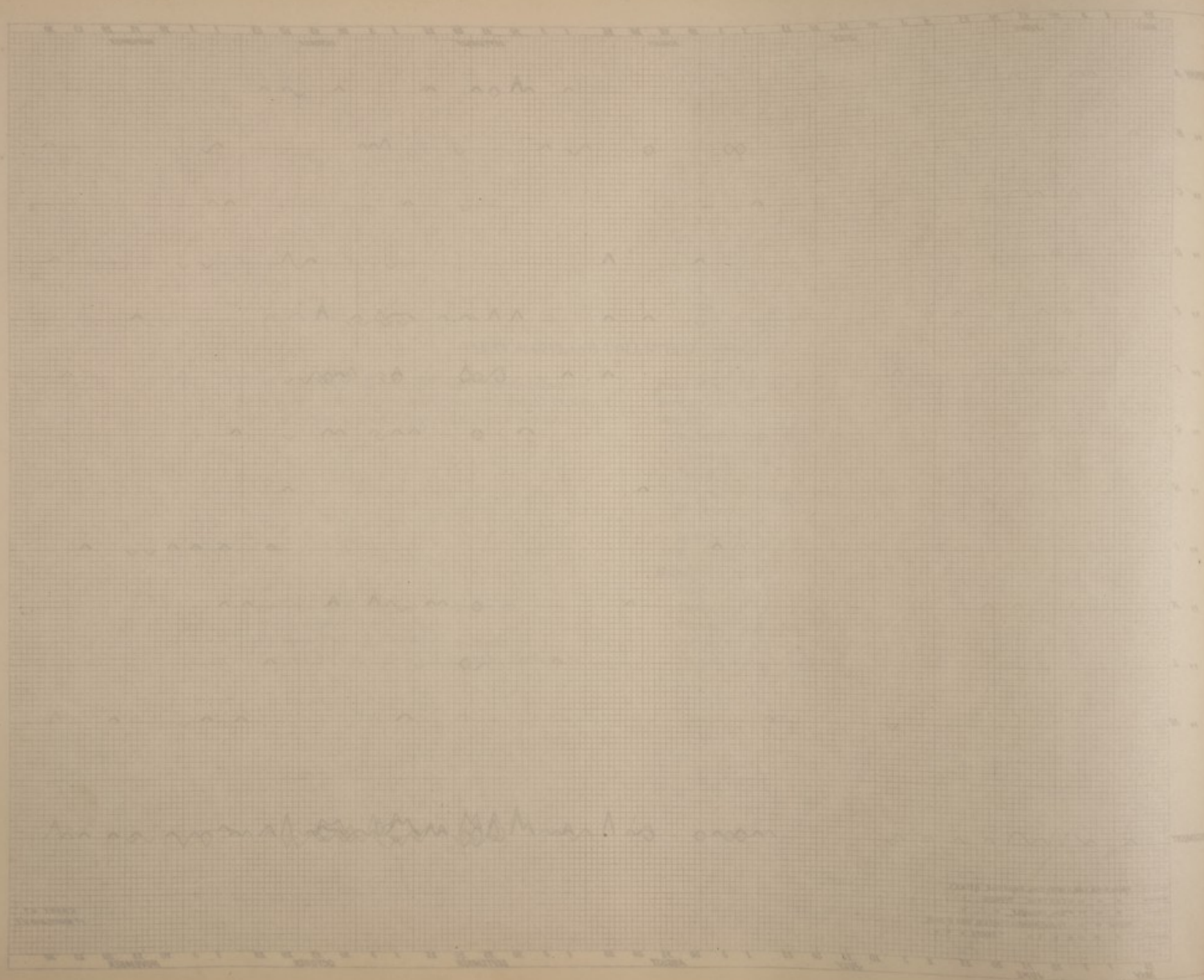
Morbidity:

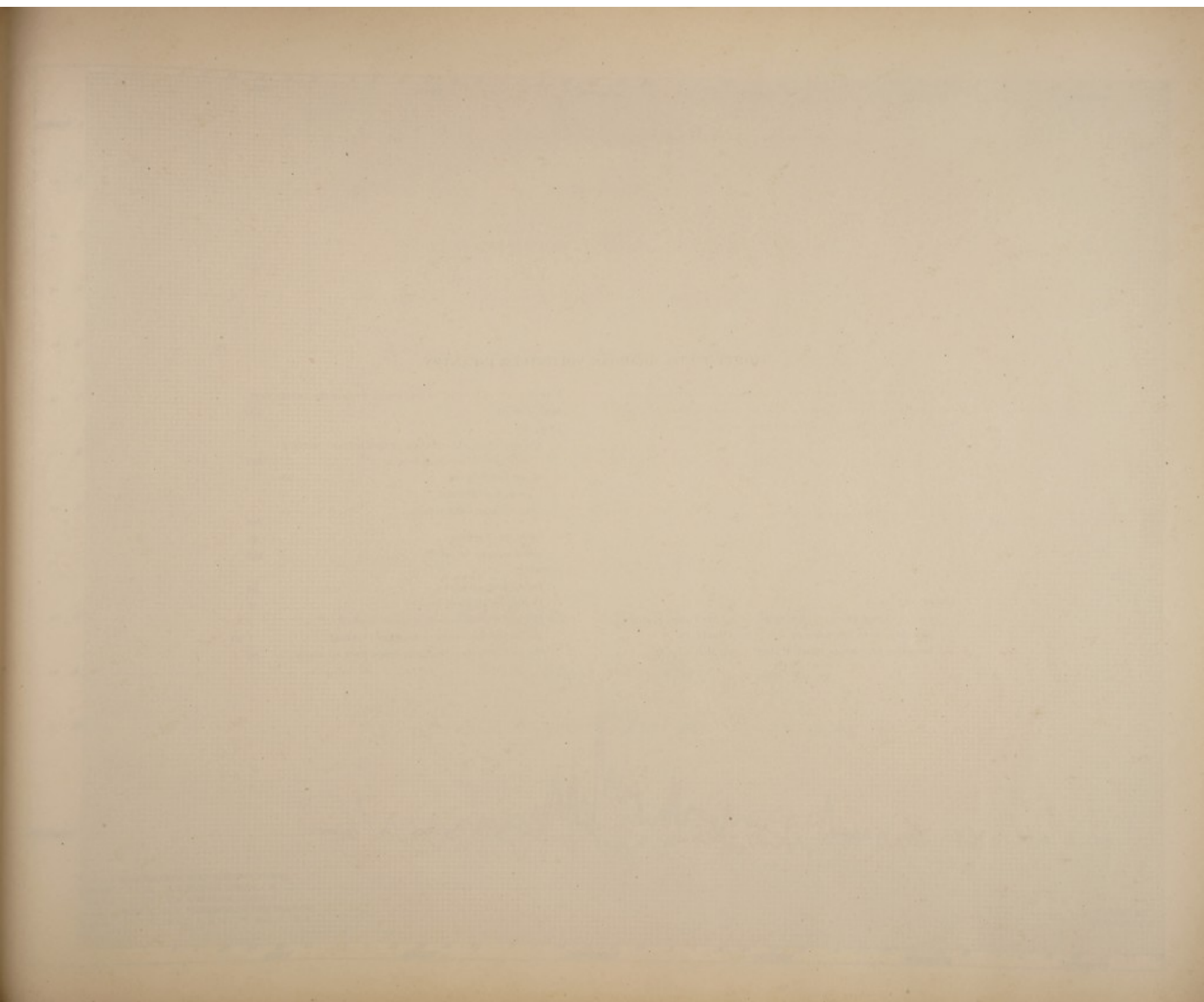
Probable typhoid, including recognized and unrecognized typhoid and long malarias	96
Recognized typhoid	51
Unrecognized typhoid	34
Long malarias (so called)	11
Intestinal disorders	41
Short malarias (so called)	23

Mortality:

Deaths from all causes	12
Deaths from typhoid fever	7
Per cent of deaths among probable typhoid	7.29
Per cent of deaths among recognized typhoid	13.72
Per cent of typhoid deaths to deaths from all causes	58.33







THIRTY-FIFTH MICHIGAN VOLUNTEER INFANTRY.

Chart 68, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 388.)

Camps:

July 10 to September 14, 1898, State camp, Island Lake, Mich.
September 16 to November 10, 1898, Camp Meade, Pa.
November 12, 1898, to March 31, 1899, Camp McKenzie, Ga.

Period of service covered by this report, five months twenty days.

Mean strength 1,150

Morbidity:

Probable typhoid, including recognized and unrecognized typhoid and long malarias 385

Recognized typhoid 269

Unrecognized typhoid 50

Long malarias (so called) 66
..... 385

Intestinal disorders 210

Short malarias (so called) 123

Mortality:

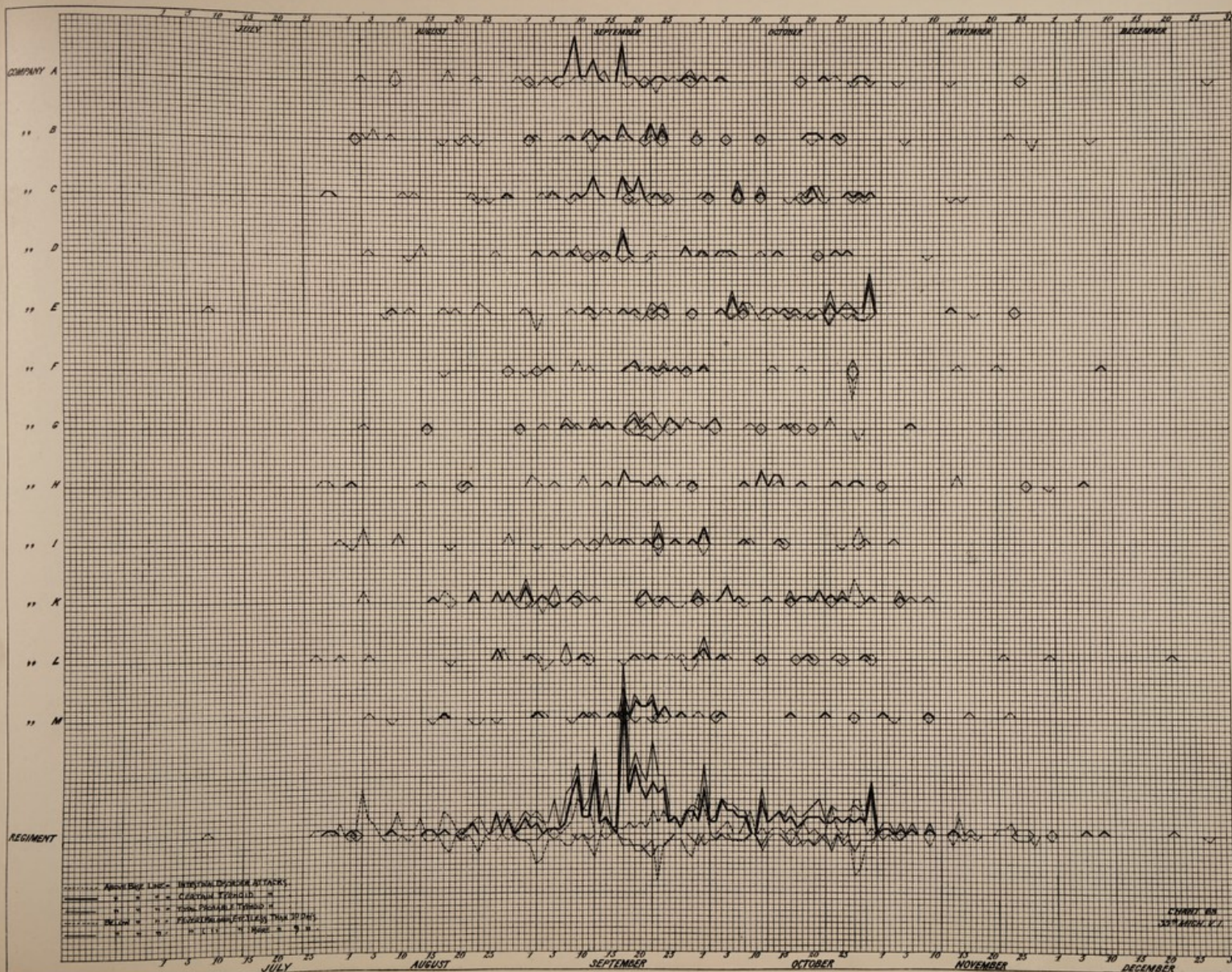
Deaths from all causes 25

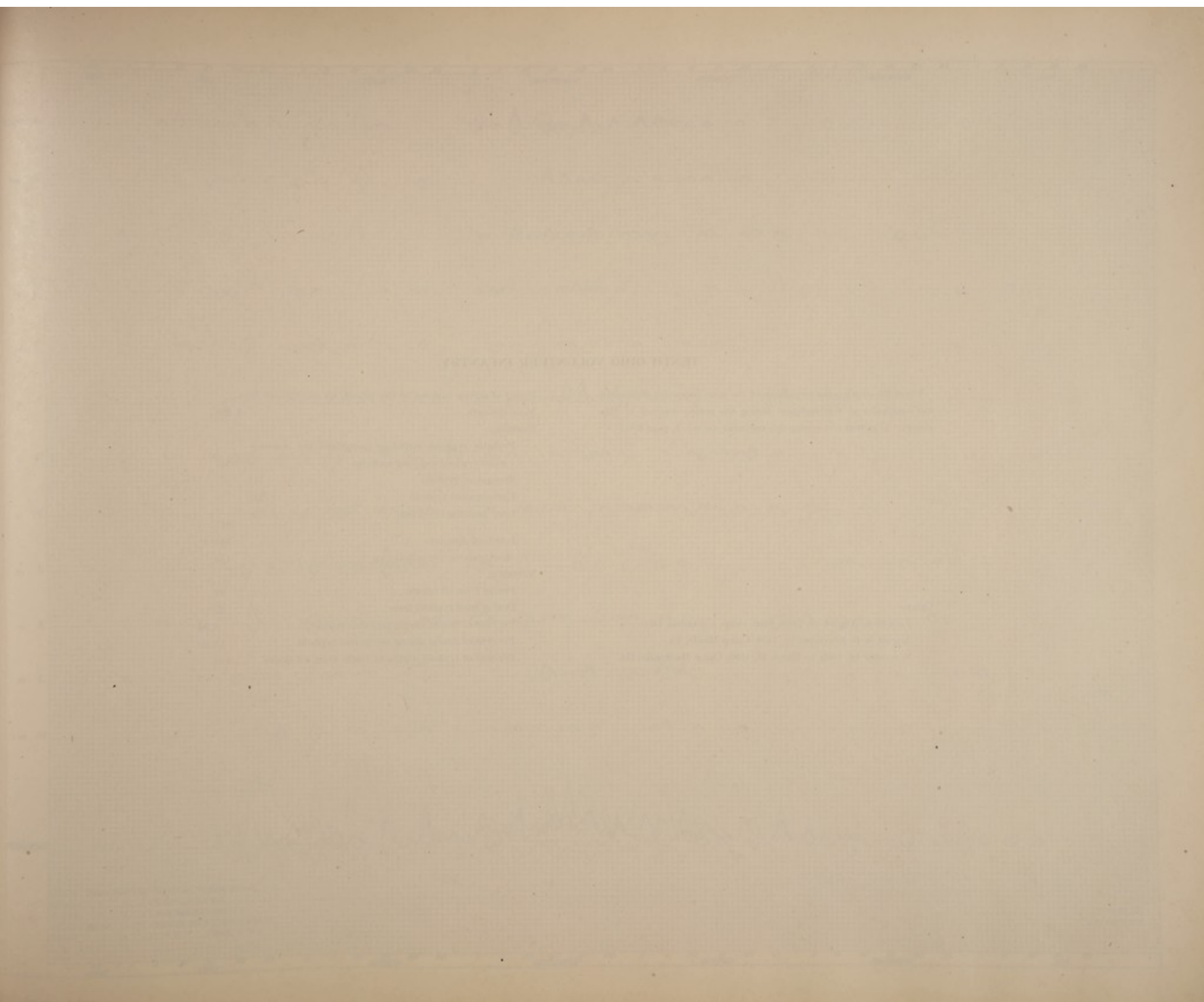
Deaths from typhoid fever 21

Per cent of deaths among probable typhoid 5.45

Per cent of deaths among recognized typhoid 7.80

Per cent of typhoid deaths to deaths from all causes ... 84





TENTH OHIO VOLUNTEER INFANTRY.

Chart 69, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 396.)

Camps:

June 25 to August 18, 1898, State camp, Columbus, Ohio.
August 19 to November 12, 1898, Camp Meade, Pa.
November 14, 1898, to March 23, 1899, Camp Mackenzie, Ga.

Period of service covered by this report, six months five days.

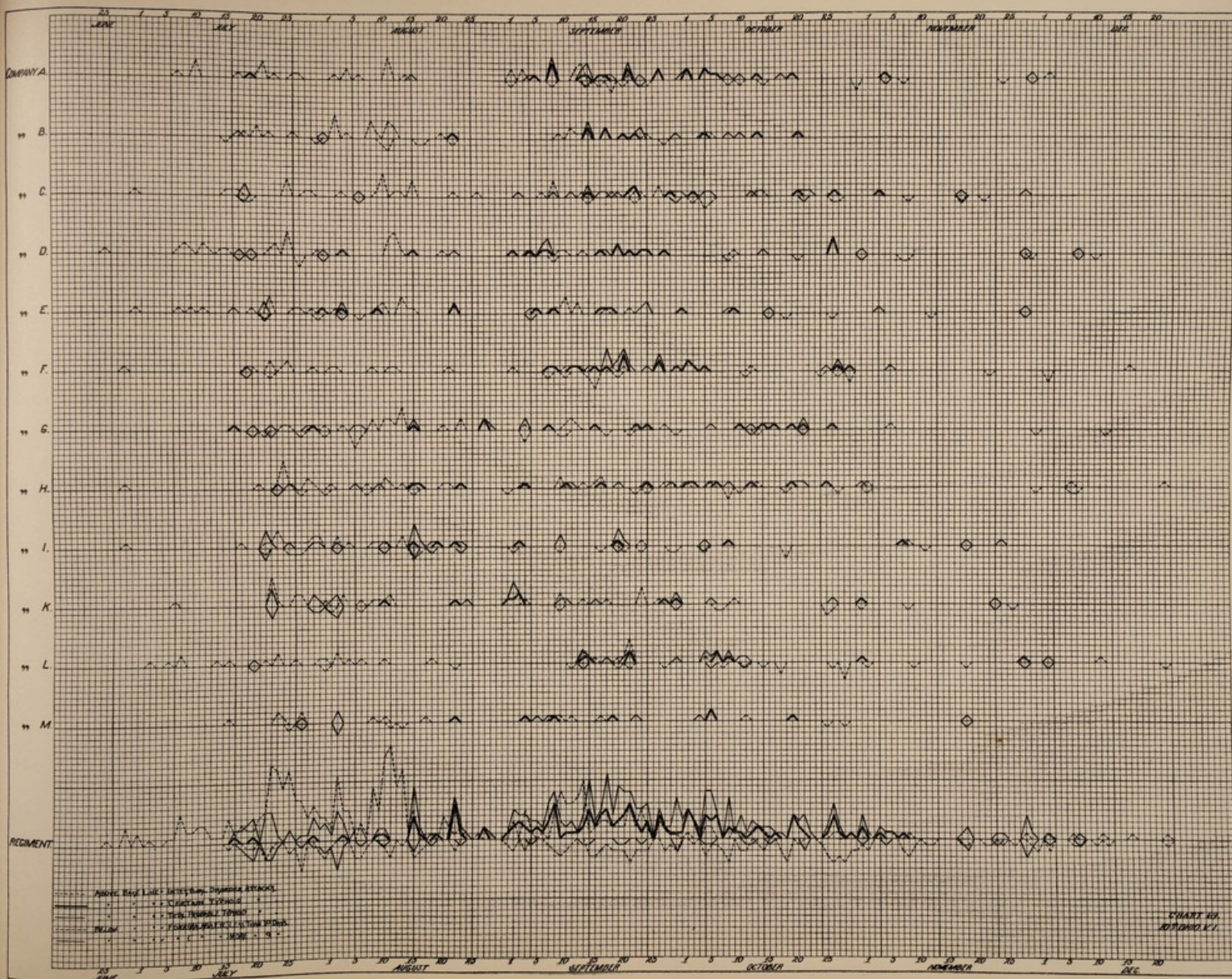
Mean strength..... 1,228

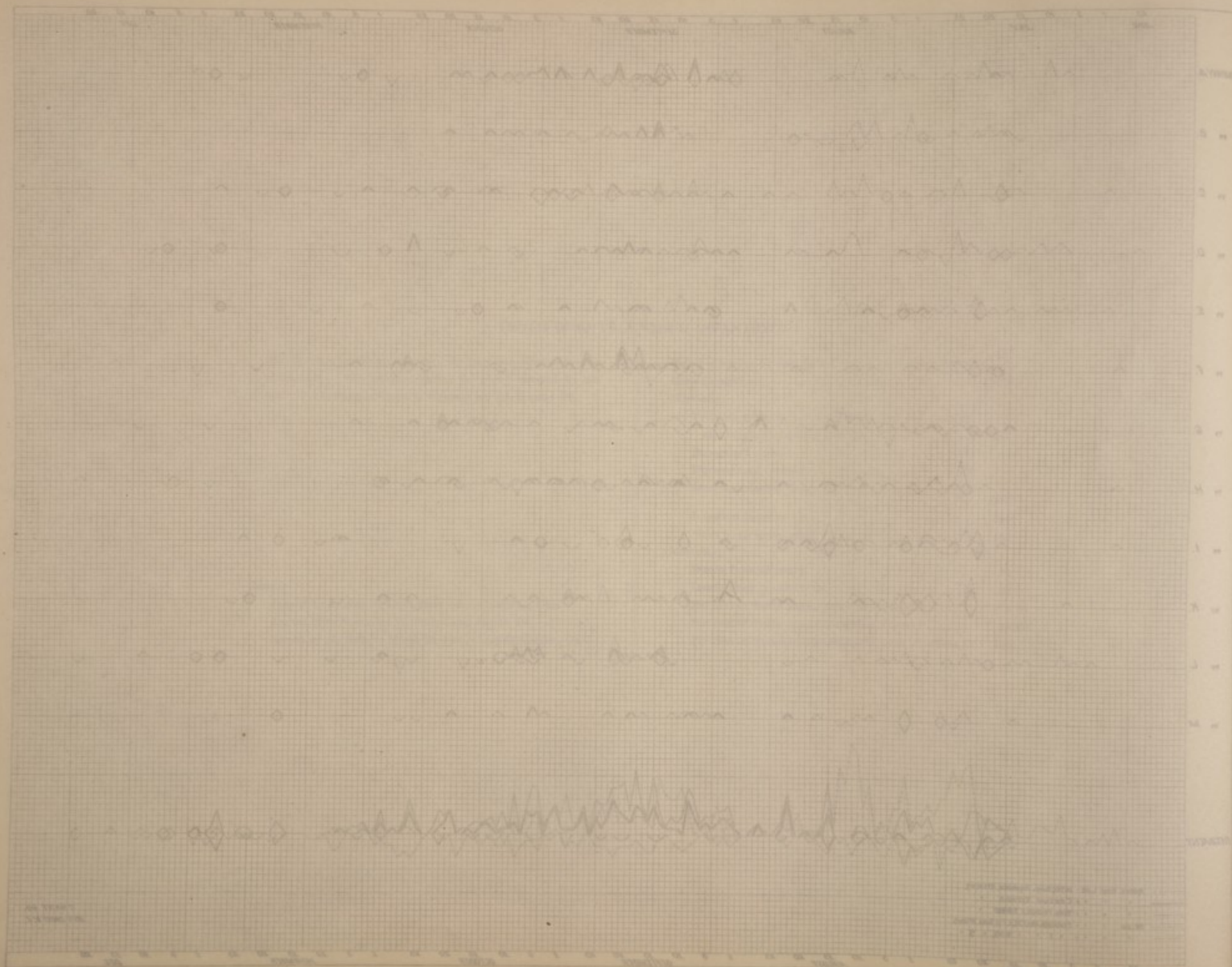
Morbidity:

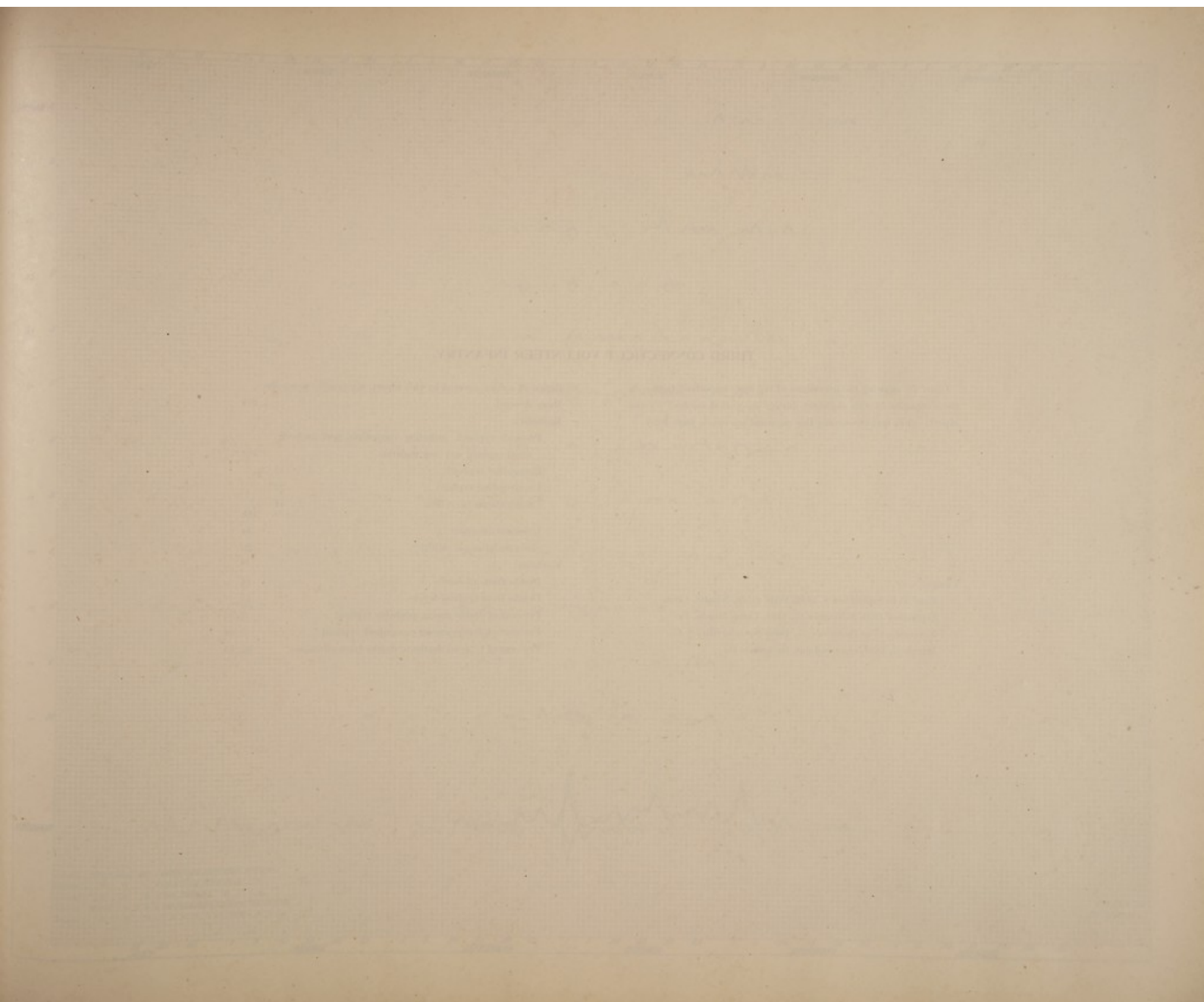
Probable typhoid, including recognized and unrecognized typhoid and long malarias	317
Recognized typhoid	141
Unrecognized typhoid	120
Long malarias (so called)	56
Intestinal disorders	317
Short malarias (so called)	344
.....	153

Mortality:

Deaths from all causes	22
Deaths from typhoid fever	22
Per cent of deaths among probable typhoid	6.94
Per cent of deaths among recognized typhoid	15.60
Per cent of typhoid deaths to deaths from all causes ...	100







THIRD CONNECTICUT VOLUNTEER INFANTRY.

Chart 70, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 402.)

Camps:

June 23 to September 8, 1898, State camp, Niantic, Conn.
 September 10 to November 15, 1898, Camp Meade, Pa.
 November 17 to December 31, 1898, Summerville, S. C.
 March 20, 1899, mustered out, Savannah, Ga.

Period of service covered by this report, six months seven days.

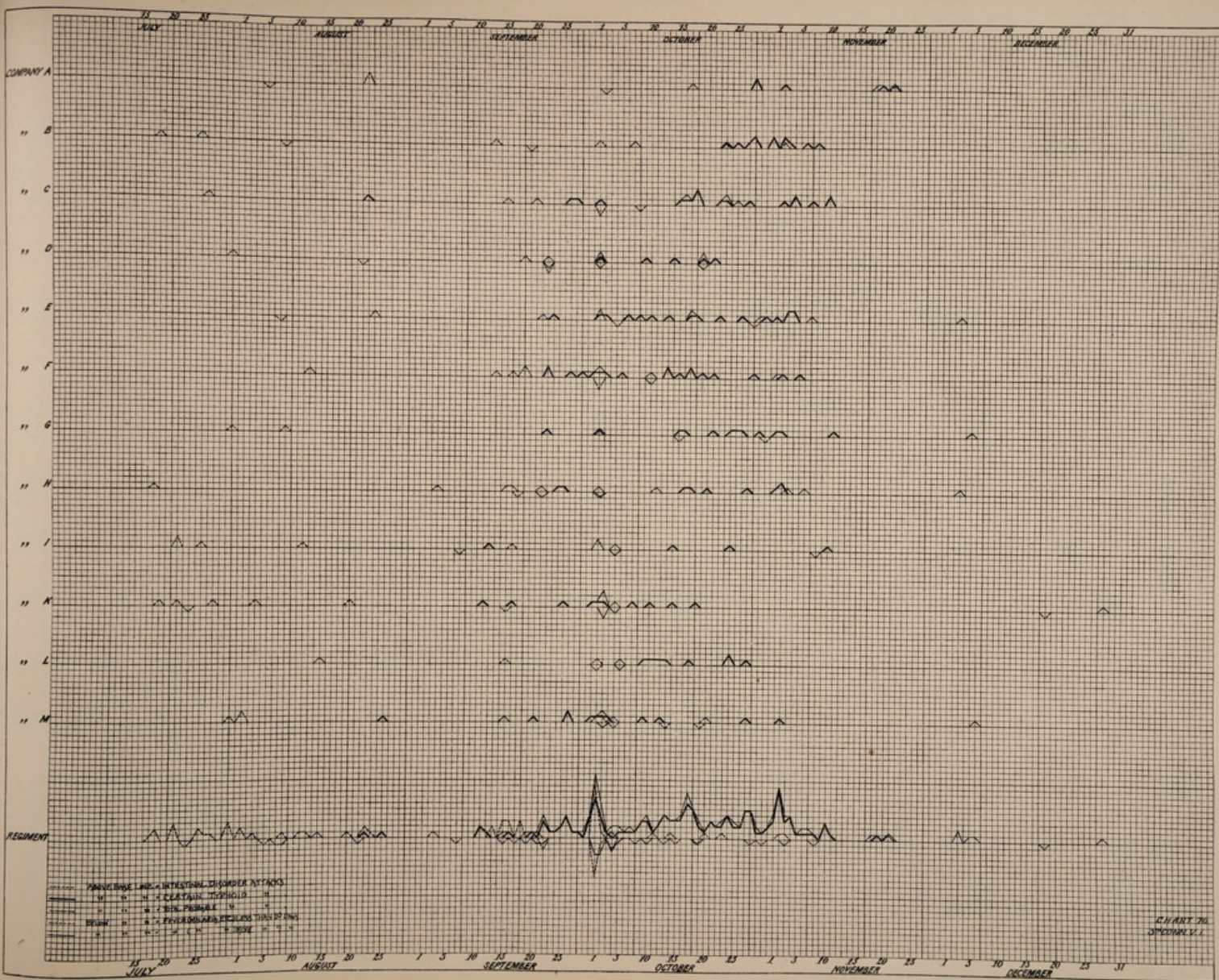
Mean strength..... 1,214

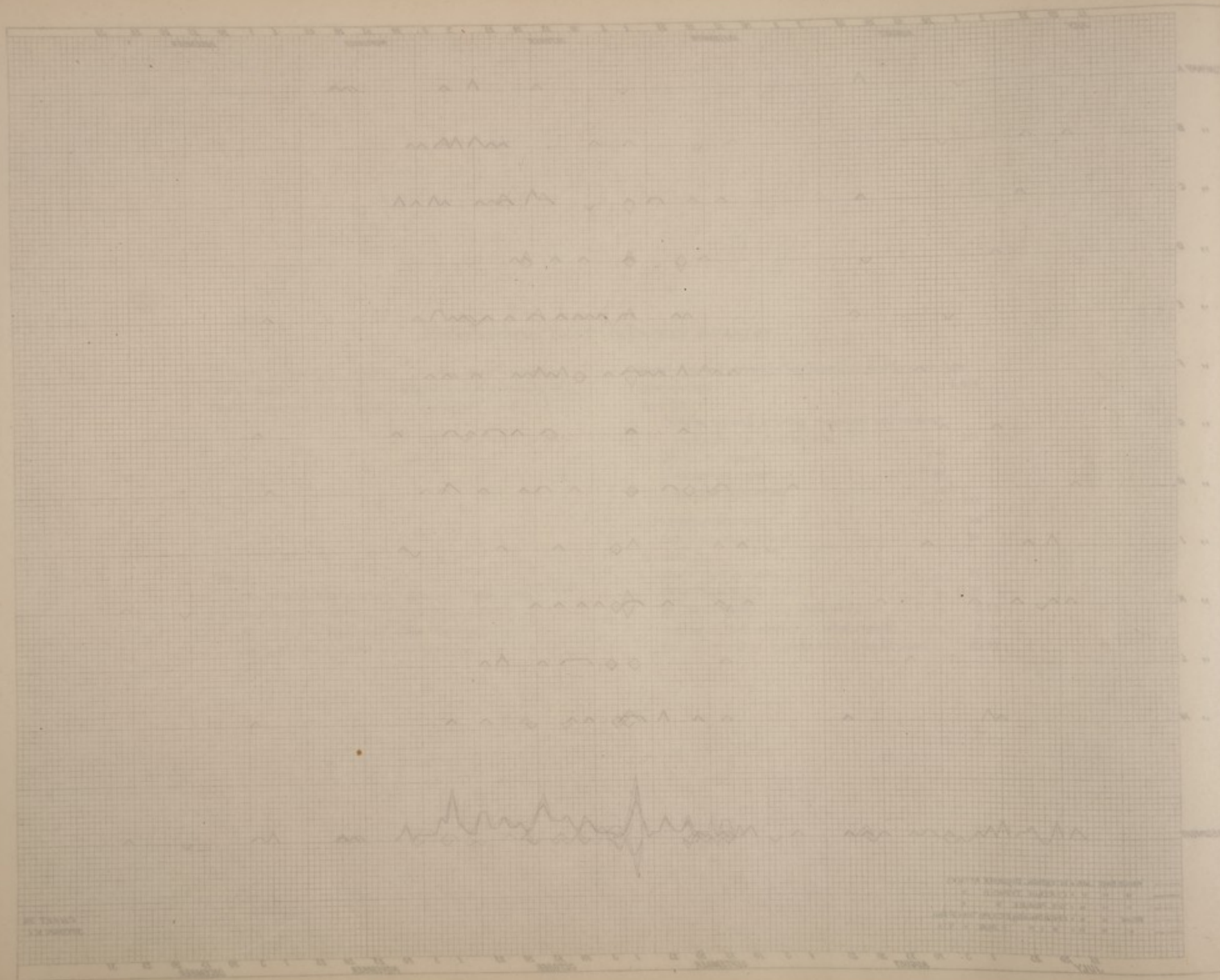
Morbidity:

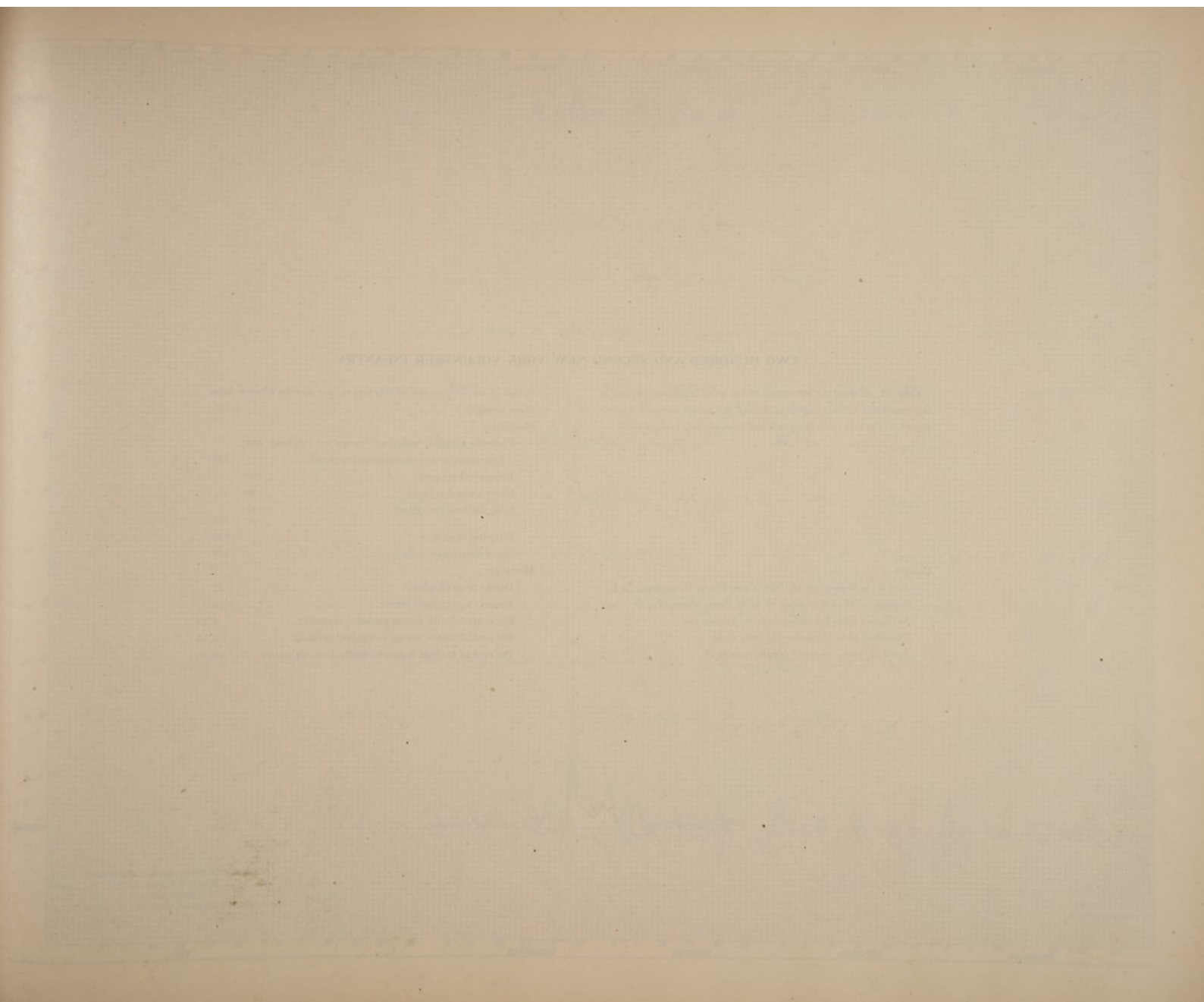
Probable typhoid, including recognized and unrecognized typhoid and long malarias	168
Recognized typhoid	132
Unrecognized typhoid	22
Long malarias (so called)	14
Intestinal disorders	54
Short malarias (so called)	29

Mortality:

Deaths from all causes	14
Deaths from typhoid fever	13
Per cent of deaths among probable typhoid	7.73
Per cent of deaths among recognized typhoid	9.84
Per cent of typhoid deaths to deaths from all causes	92.85







TWO HUNDRED AND SECOND NEW YORK VOLUNTEER INFANTRY.

Chart 71, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 408.)

Camps:

July 20 to September 13, 1898, Camp Black, Hempstead, L. I.
 September 14 to November 16, 1898, Camp Meade, Pa.
 November 18 to December 3, 1898, Athens, Ga.
 December 12 to December 31, 1898, Cuba.
 April 15, 1899, mustered out, Savannah, Ga.

Period of service covered by this report, five months fifteen days.

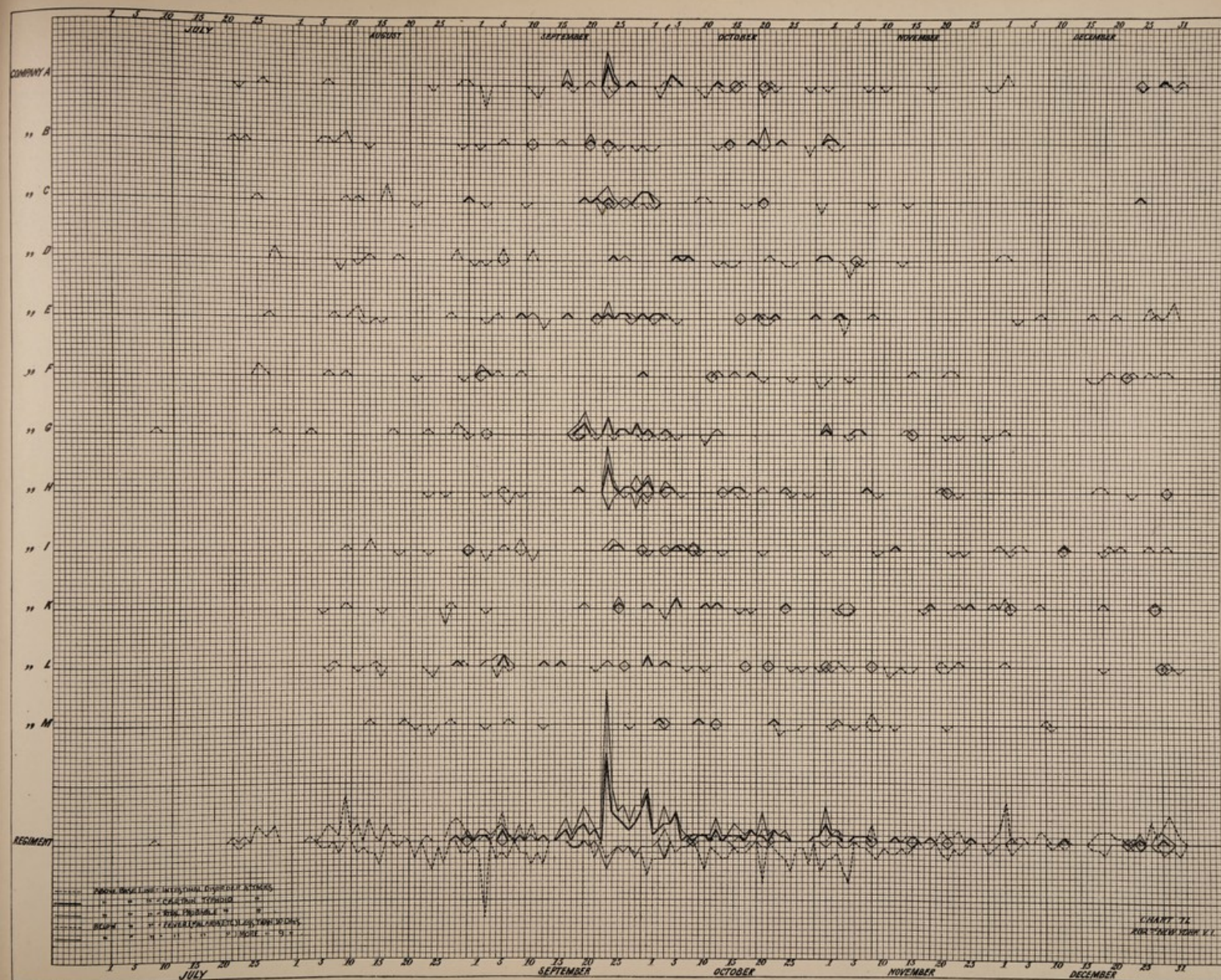
Mean strength..... 1,125

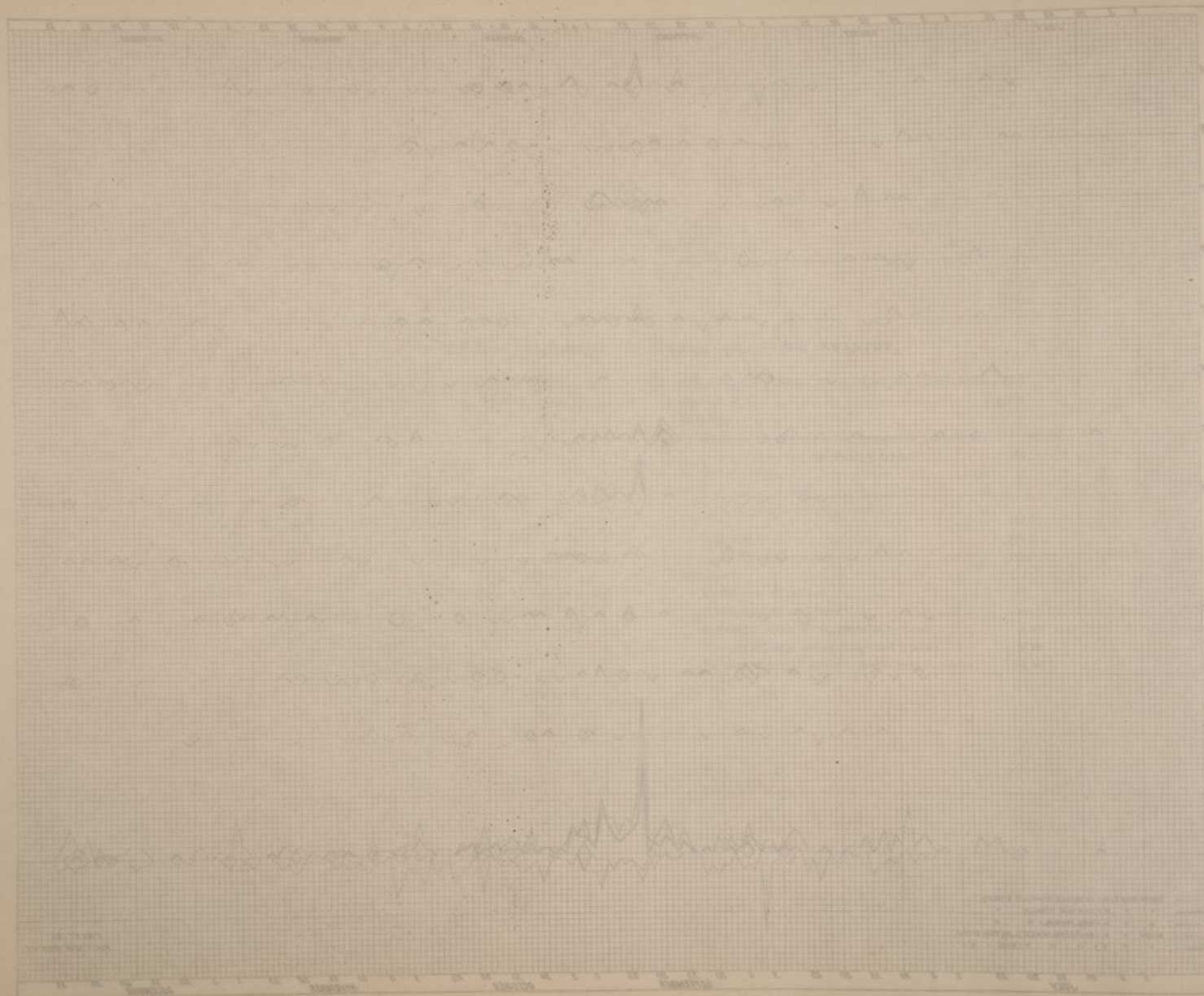
Morbidity:

Probable typhoid, including recognized typhoid and long malarias and unrecognized typhoid	195
Recognized typhoid	110
Unrecognized typhoid	40
Long malarias (so called)	45
	195
Intestinal disorders	140
Short malarias (so called)	129

Mortality:

Deaths from all causes	11
Deaths from typhoid fever	10
Per cent of deaths among probable typhoid	5.12
Per cent of deaths among recognized typhoid	9.09
Per cent of typhoid deaths to deaths from all causes ..	90.90





FIFTEENTH MINNESOTA VOLUNTEER INFANTRY.

Chart 72, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 414.)

Camps:

July 5 to August 23, 1898, fair grounds, St. Paul, Minn.
August 23 to September 15, 1898, Fort Snelling.
September 18 to November 16, 1898, Camp Meade, Pa.
November 18 to December 31, 1898, Augusta, Ga.
March 27, 1899, mustered out, Augusta, Ga.

Period of service covered by this report, five months twenty-six days.

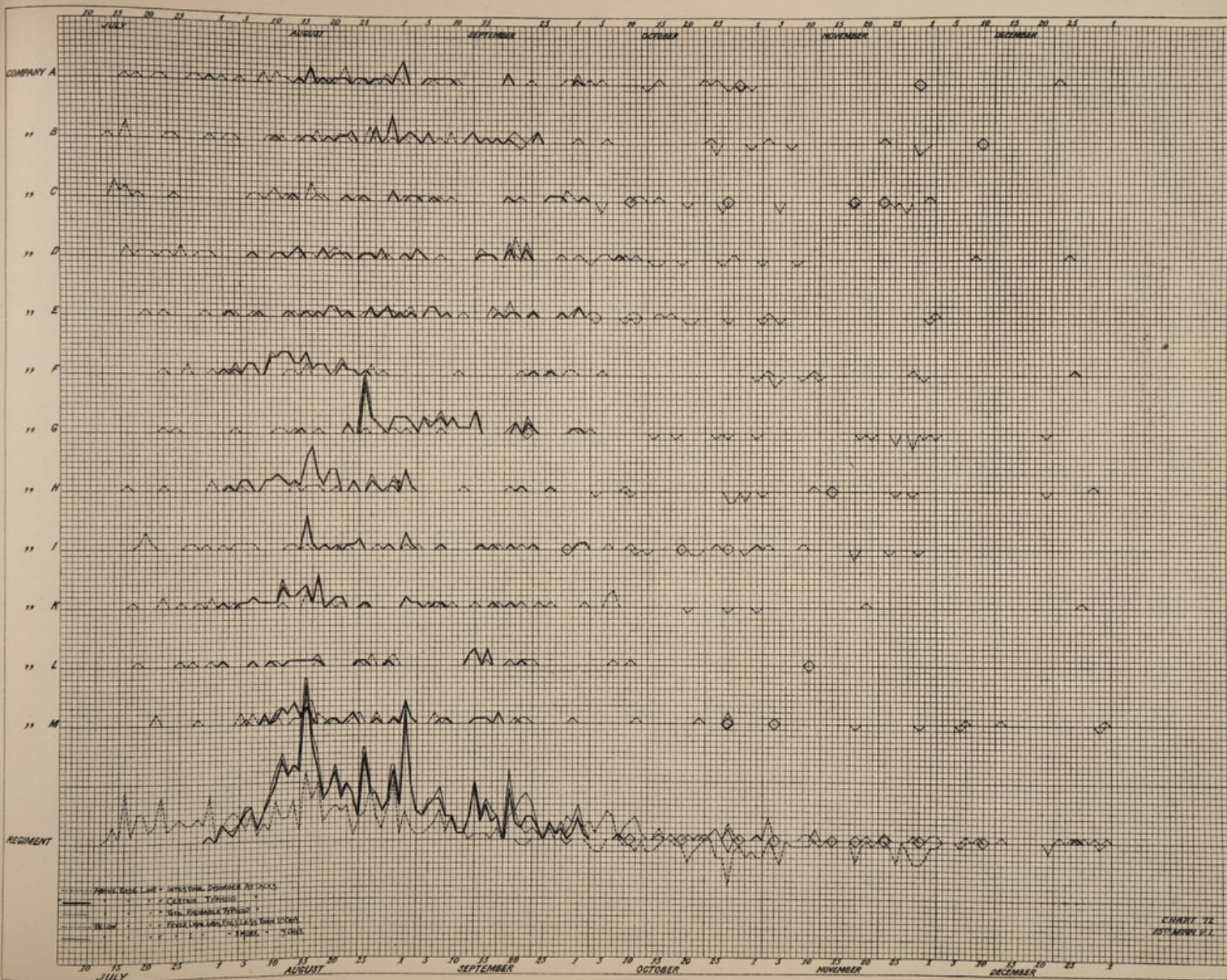
Mean strength 1,280

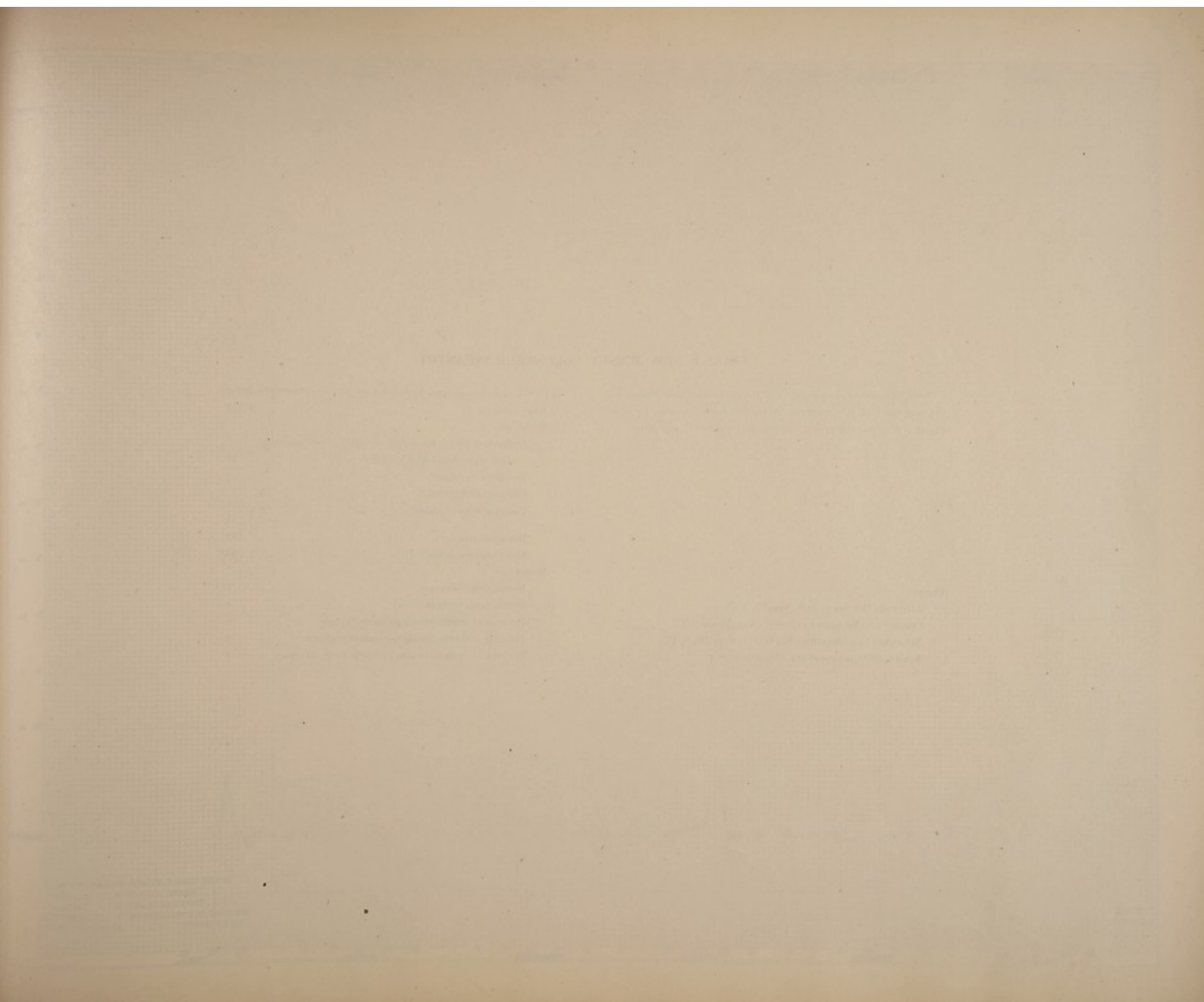
Morbidity:

Probable typhoid, including recognized typhoid, unrecognized typhoid, and long malarias 475
Recognized typhoid 415
Unrecognized typhoid 48
Long malarias (so called) 12
..... 475
Intestinal disorders 394
Short malarias (so called) 146

Mortality:

Deaths from all causes 18
Deaths from typhoid fever 18
Per cent of deaths among probable typhoid 3.78
Per cent of deaths among recognized typhoid 4.33
Per cent of typhoid deaths to deaths from all causes ... 100.00





FOURTH NEW JERSEY VOLUNTEER INFANTRY.

Chart 73, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 434.)

Camps:

July 19 to October 8, 1898, Seagirt, N. J.
 October 9 to November 12, 1898, Camp Meade, Pa.
 November 14 to December 31, 1898, Greenville, S. C.
 April 6, 1899, mustered out, Greenville, S. C.

Period of service covered by this report, five months twelve days.

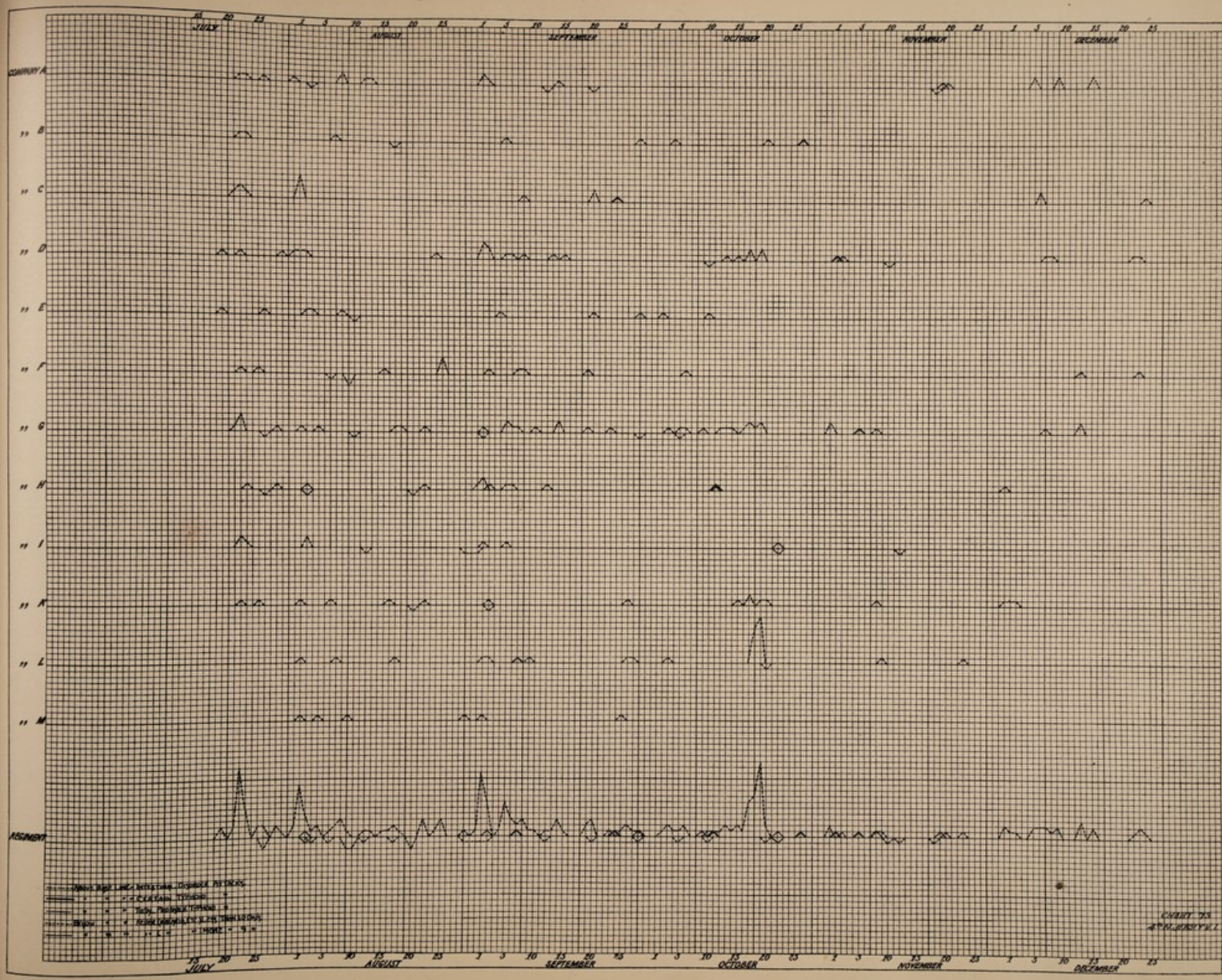
Mean strength..... 1,225

Morbidity:

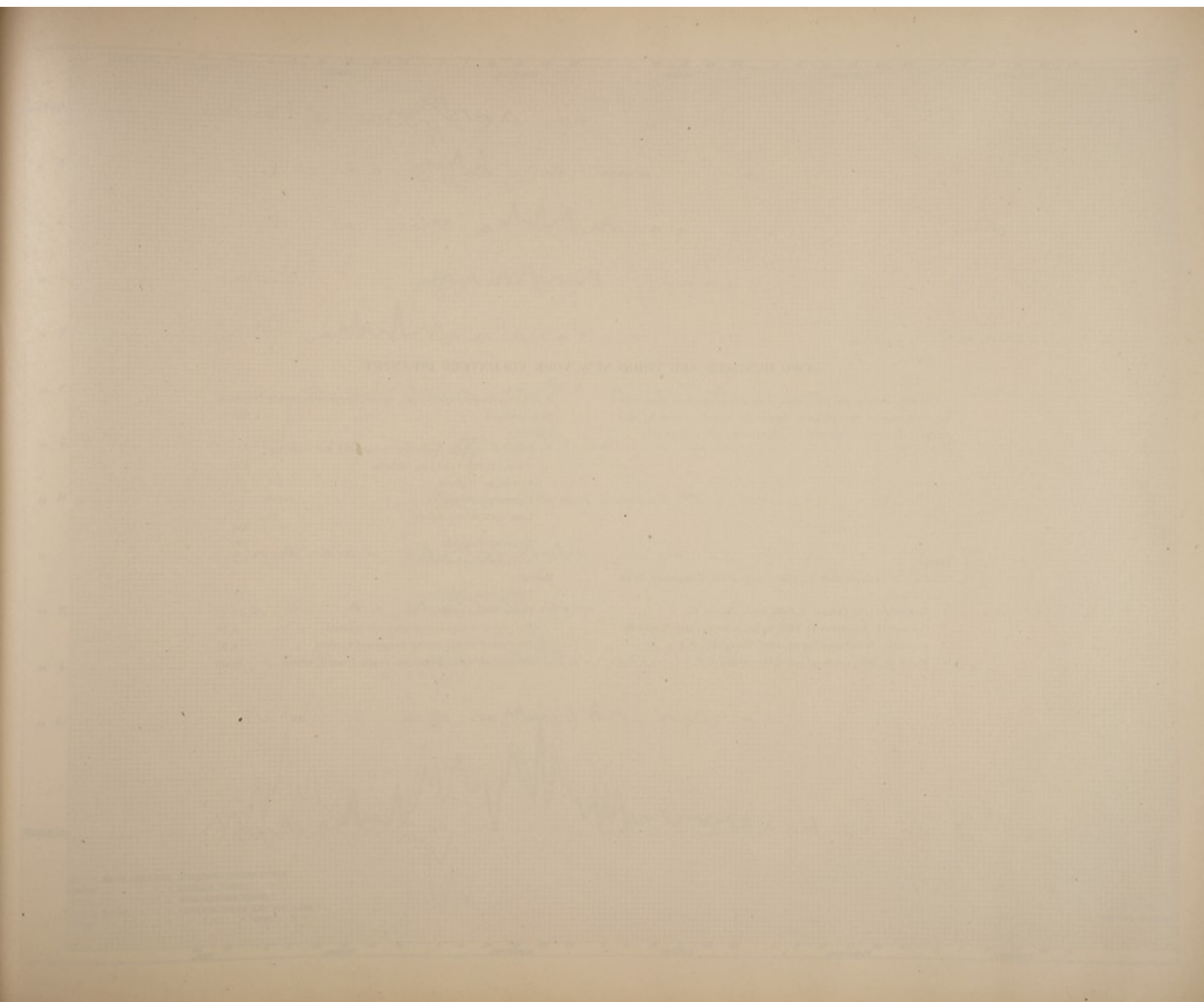
Probable typhoid, including recognized and unrecognized typhoid and long malarias	13
Recognized typhoid	6
Unrecognized typhoid	5
Long malarias (so called).....	2
Intestinal disorders.....	193
Short malarias (so called)	26

Mortality:

Deaths from all causes.....	0
Deaths from typhoid fever.....	0
Per cent of deaths among probable typhoid.....	0
Per cent of deaths among recognized typhoid	0
Per cent of typhoid deaths to deaths from all causes...	0



[Faint, illegible handwriting on graph paper]



TWO HUNDRED AND THIRD NEW YORK VOLUNTEER INFANTRY.

Chart 74, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 444.)

Camps:

July 10 to September 11, 1898, Camp Black, Hempstead, Long Island.
 September 12 to October 2, 1898, Camp Meade, Pa.
 October 2 to November 11, 1898, Isolation camp, Camp Meade, Pa.
 November 13 to December 31, 1898, Greenville, S. C.
 March 25, 1899, mustered out at Greenville, S. C.

Period of service covered by this report, five months twenty-two days.

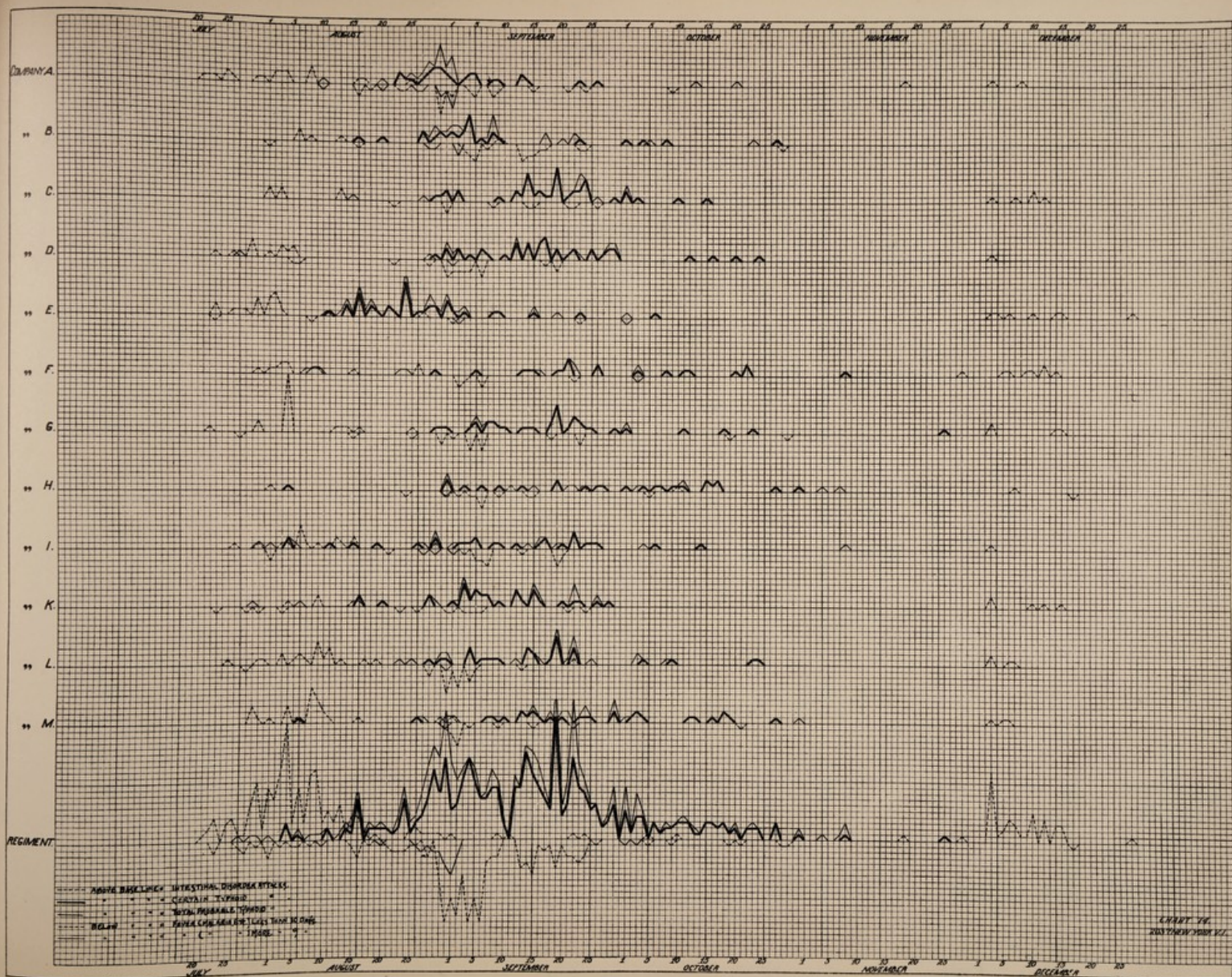
Mean strength..... 1,047

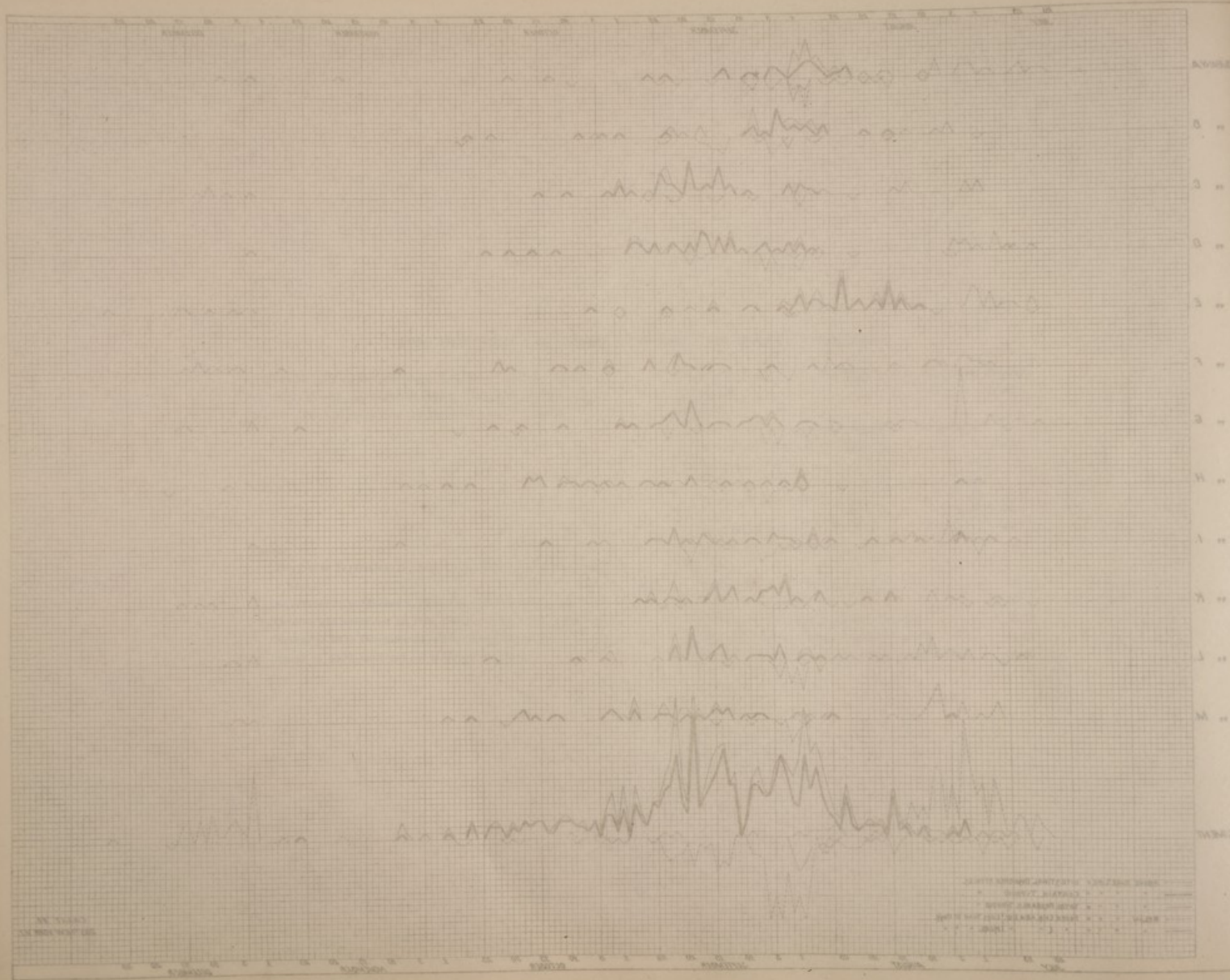
Morbidity:

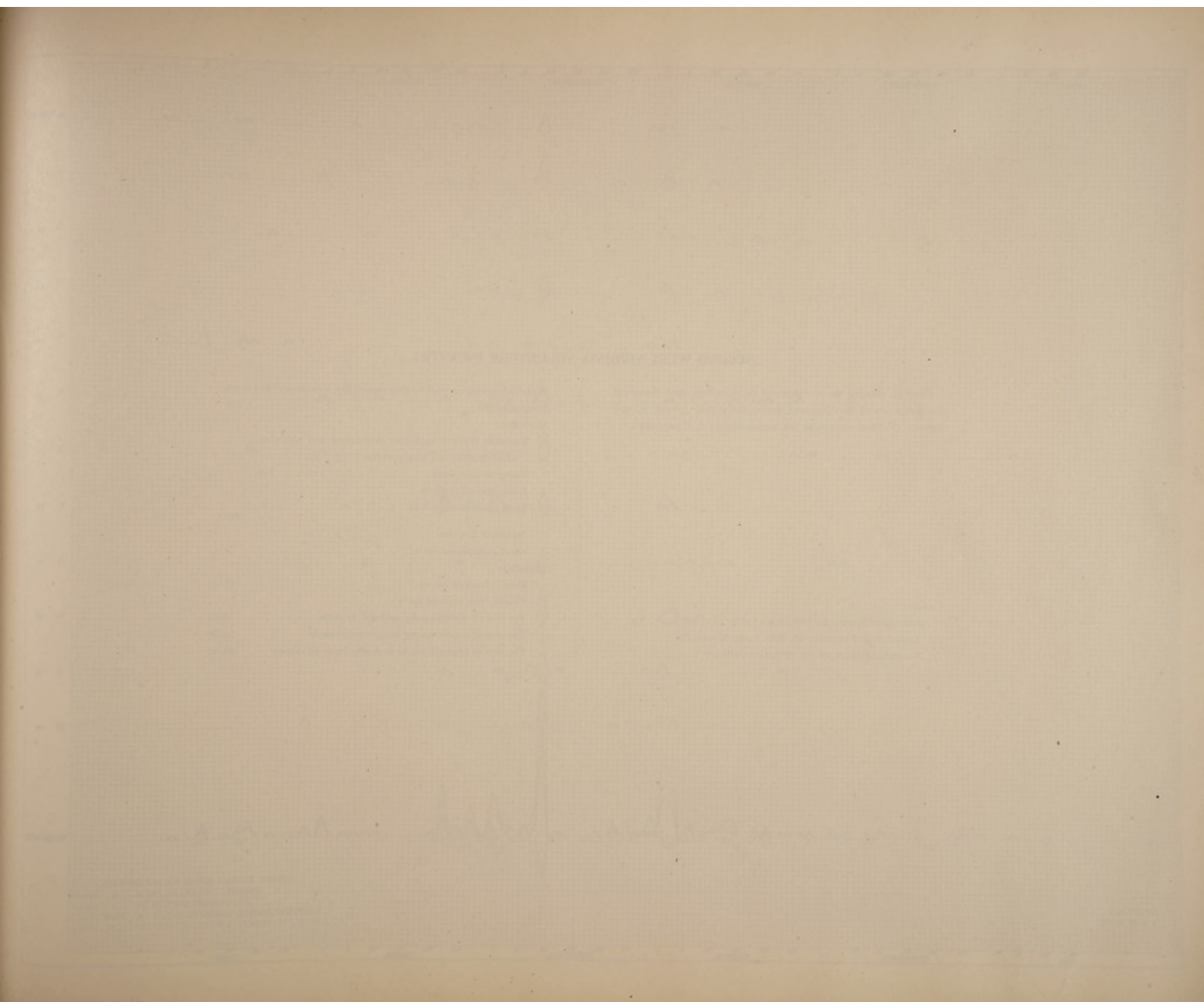
Probable typhoid, including recognized and unrecognized typhoid and long malarias	503
Recognized typhoid	371
Unrecognized typhoid	109
Long malarias (so called)	23
Intestinal disorders	206
Short malarias (so called)	174

Mortality:

Deaths from all causes	18
Deaths from typhoid fever	16
Per cent of deaths among probable typhoid	3.18
Per cent of deaths among recognized typhoid	4.31
Per cent of typhoid deaths to deaths from all causes	88.88







SECOND WEST VIRGINIA VOLUNTEER INFANTRY.

Chart 75, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 439.)

Camps:

June 25 to August 19, 1898, State Camp, Charleston, W. Va.
August 20 to November 13, 1898, Camp Meade, Pa.
November 15 to April 10, 1899, Greenville, S. C.

Period of service covered by this report, five months and five days.

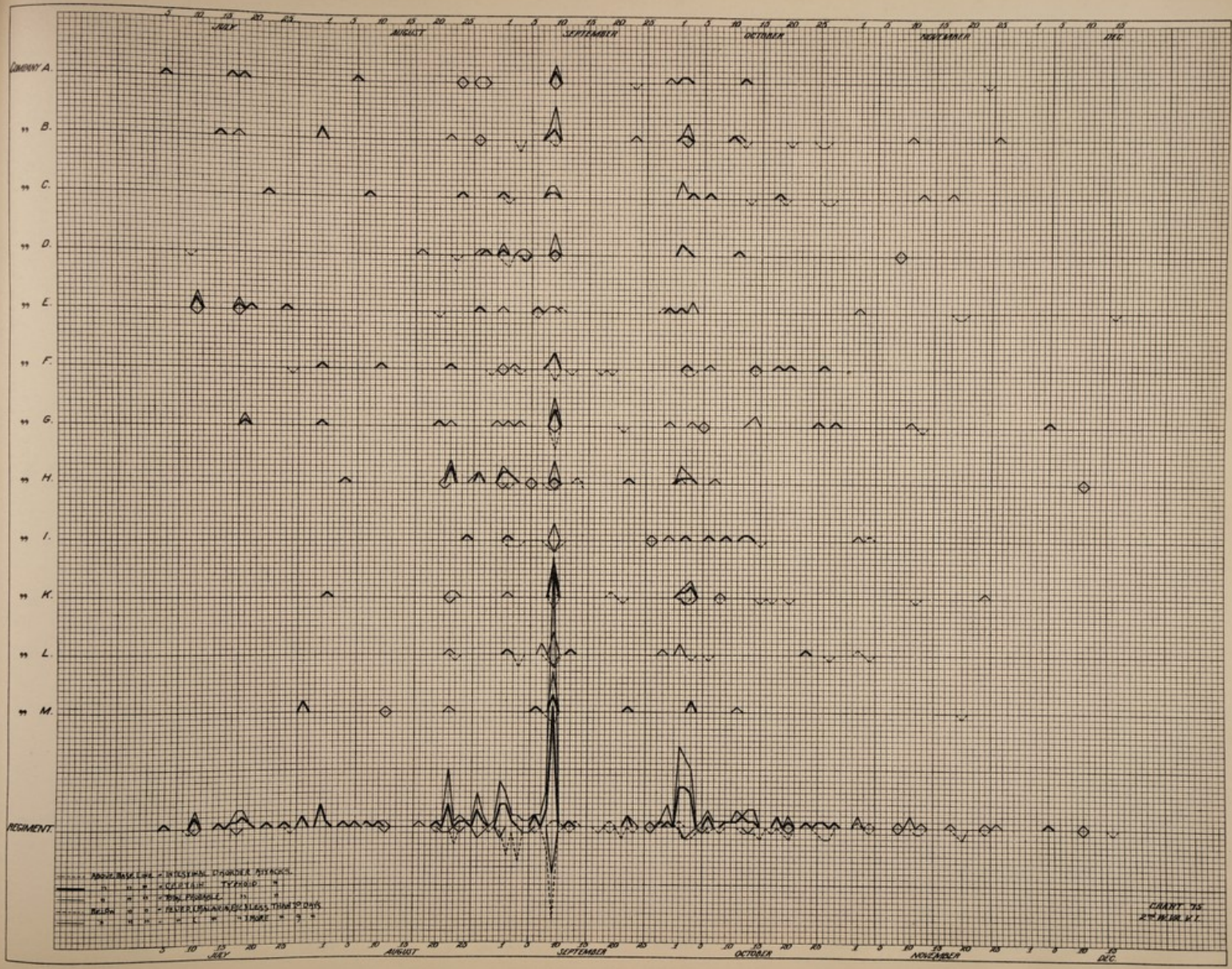
Mean strength 1,165

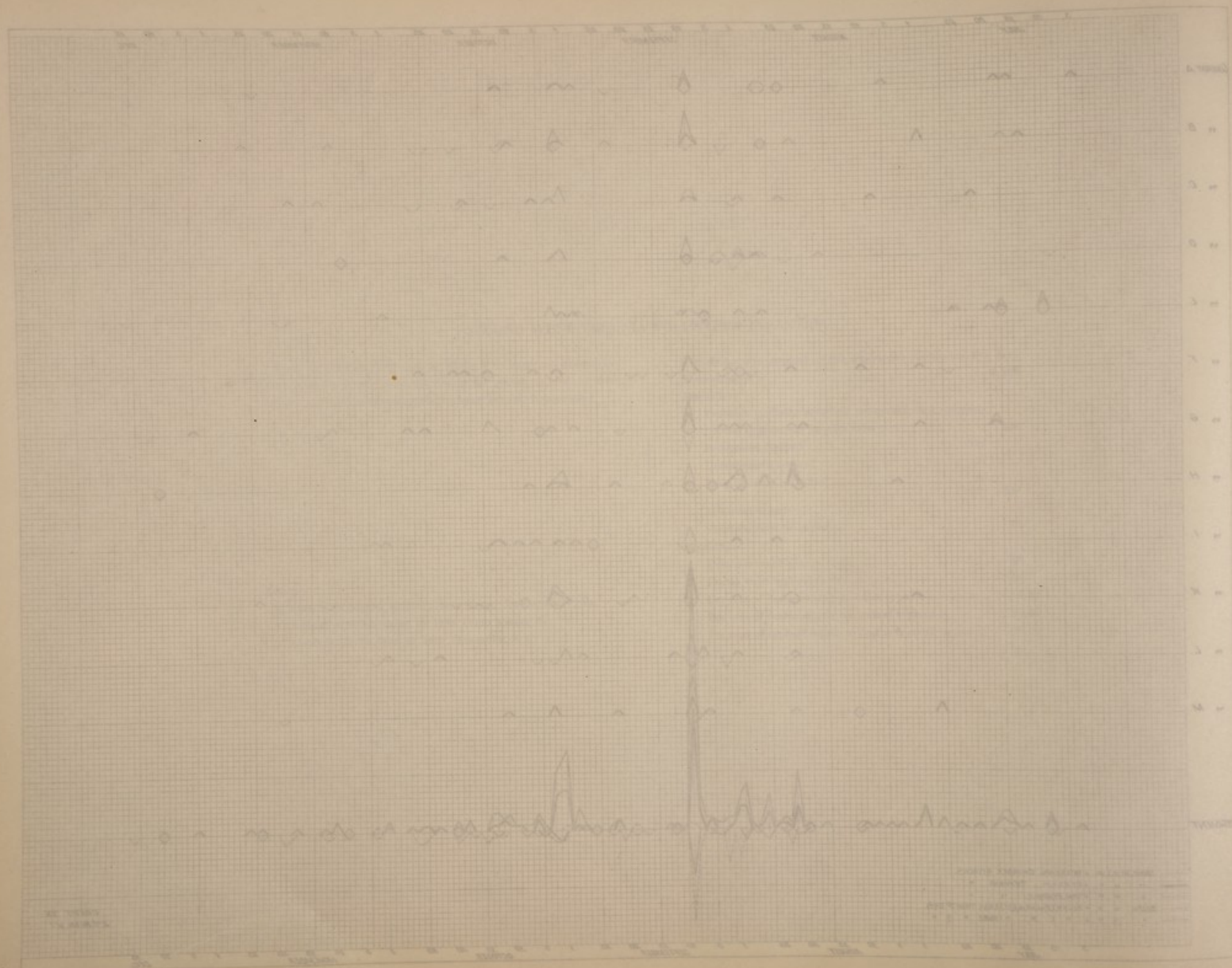
Morbidity:

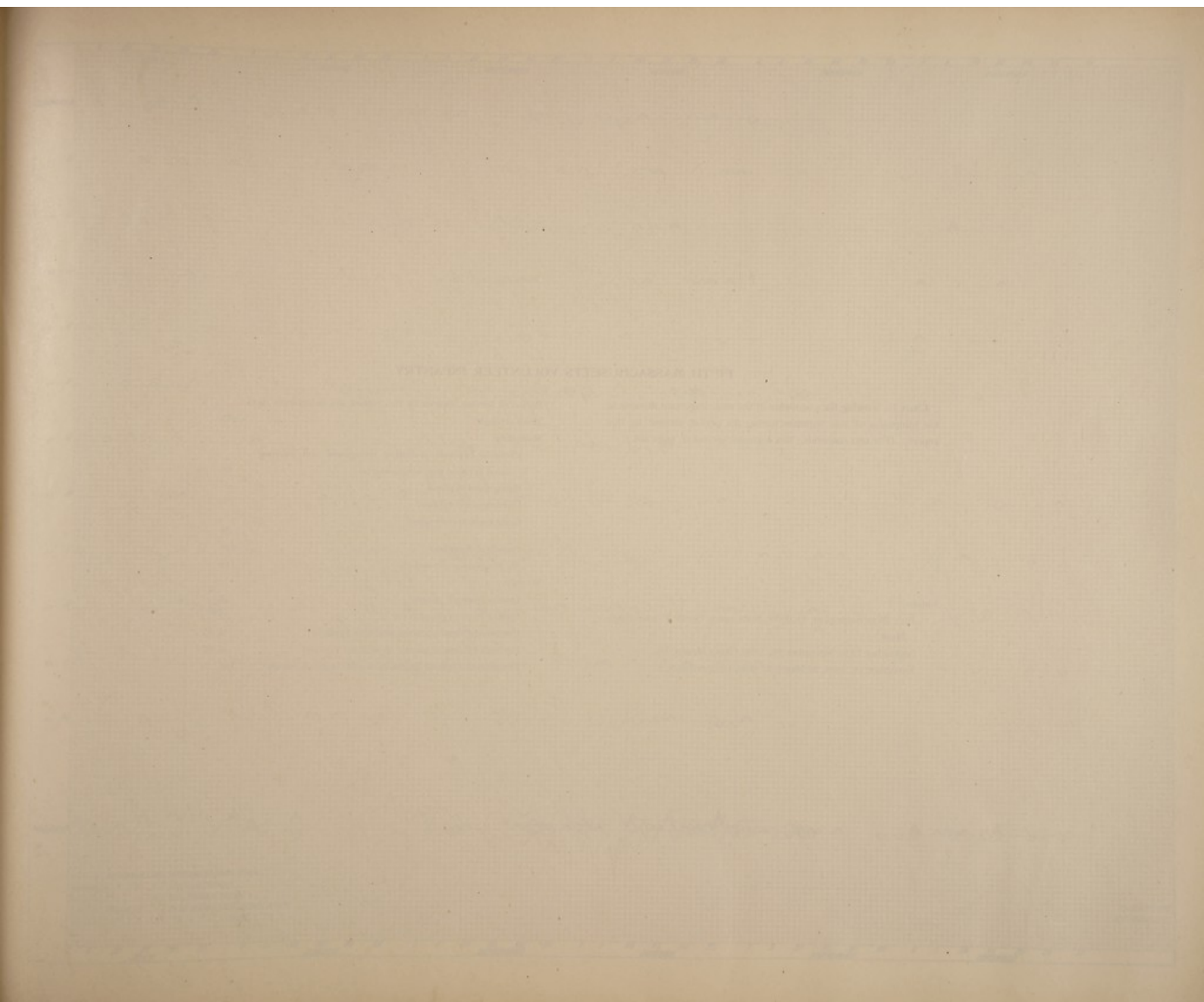
Probable typhoid, including recognized and unrecognized typhoid and long malarias	219
Recognized typhoid	112
Unrecognized typhoid	77
Long malarias (so called)	30
Intestinal disorders	8
Short malarias (so called)	77

Mortality:

Deaths from all causes	17
Deaths from typhoid fever	15
Per cent of deaths among probable typhoid	6.84
Per cent of deaths among recognized typhoid	13.39
Per cent of typhoid deaths to deaths from all causes ..	88.22







FIFTH MASSACHUSETTS VOLUNTEER INFANTRY.

Chart 76, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 456.)

Camps:
June 20 to September 11, 1898, State camp, South Framingham, Mass.
September 12 to November 16, 1898, Camp Meade, Pa.
November 18, 1898, to March 3, 1899, Greenville, S. C.

Period of service covered by this report, six months ten days.

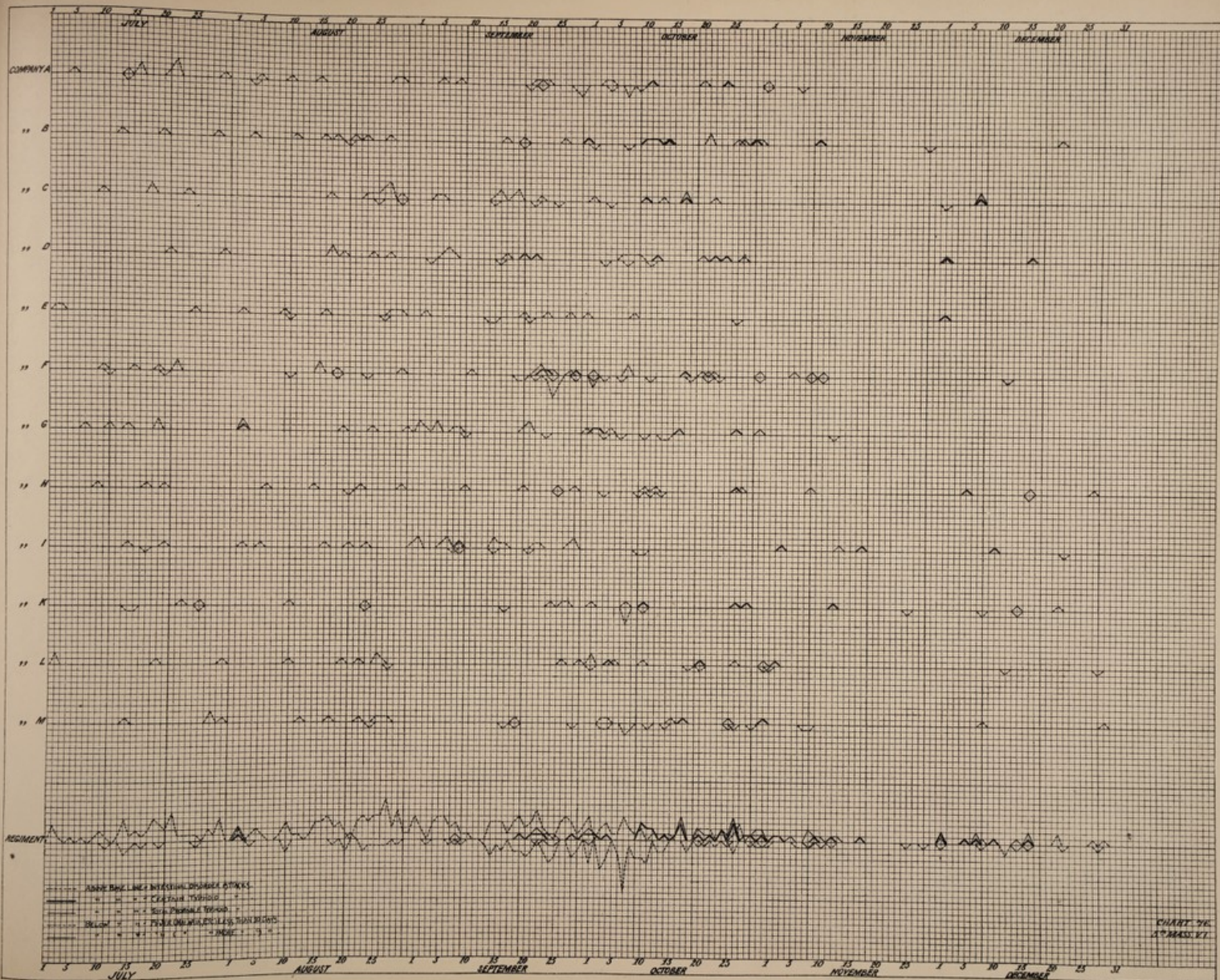
Mean strength..... 1,275

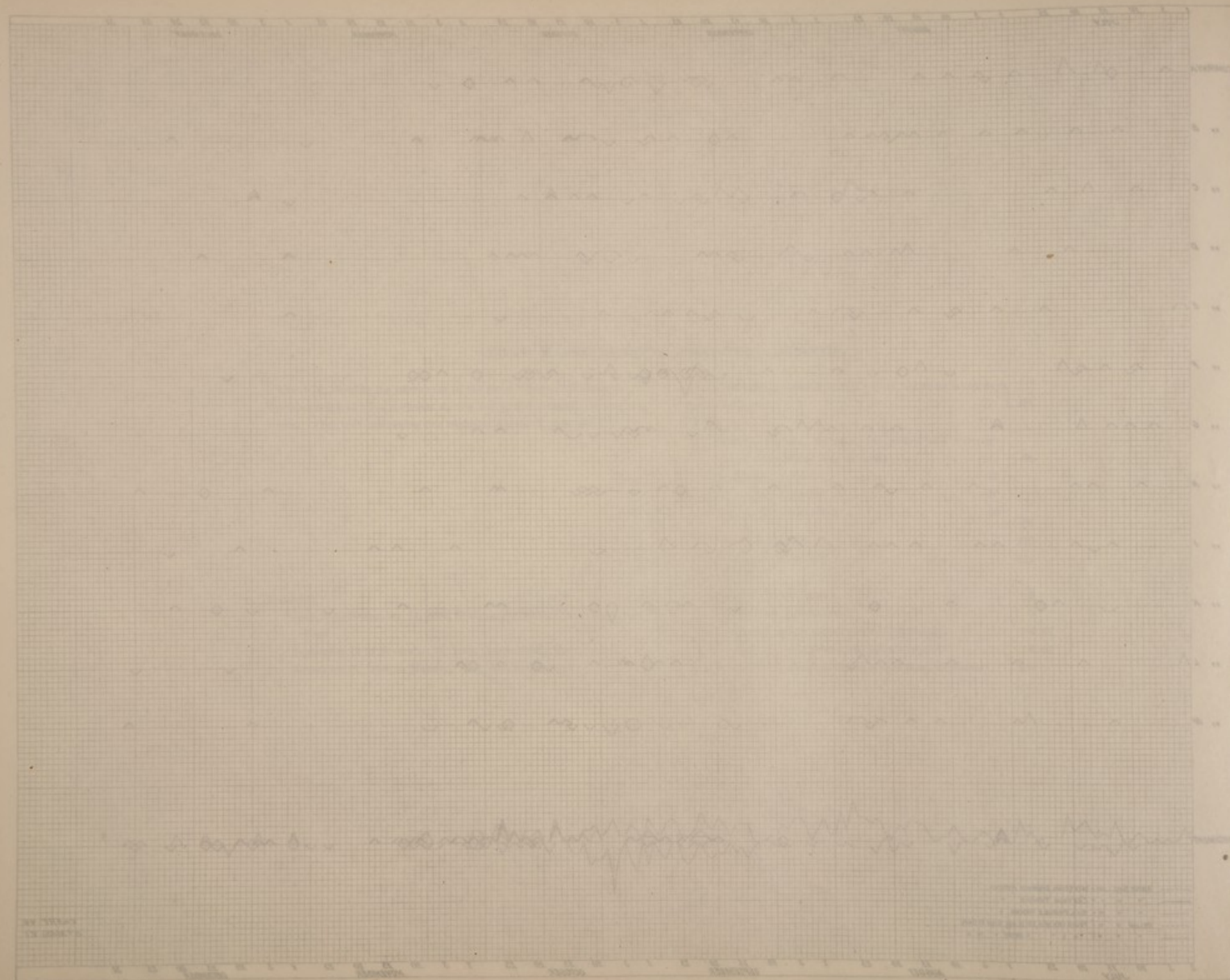
Morbidity:

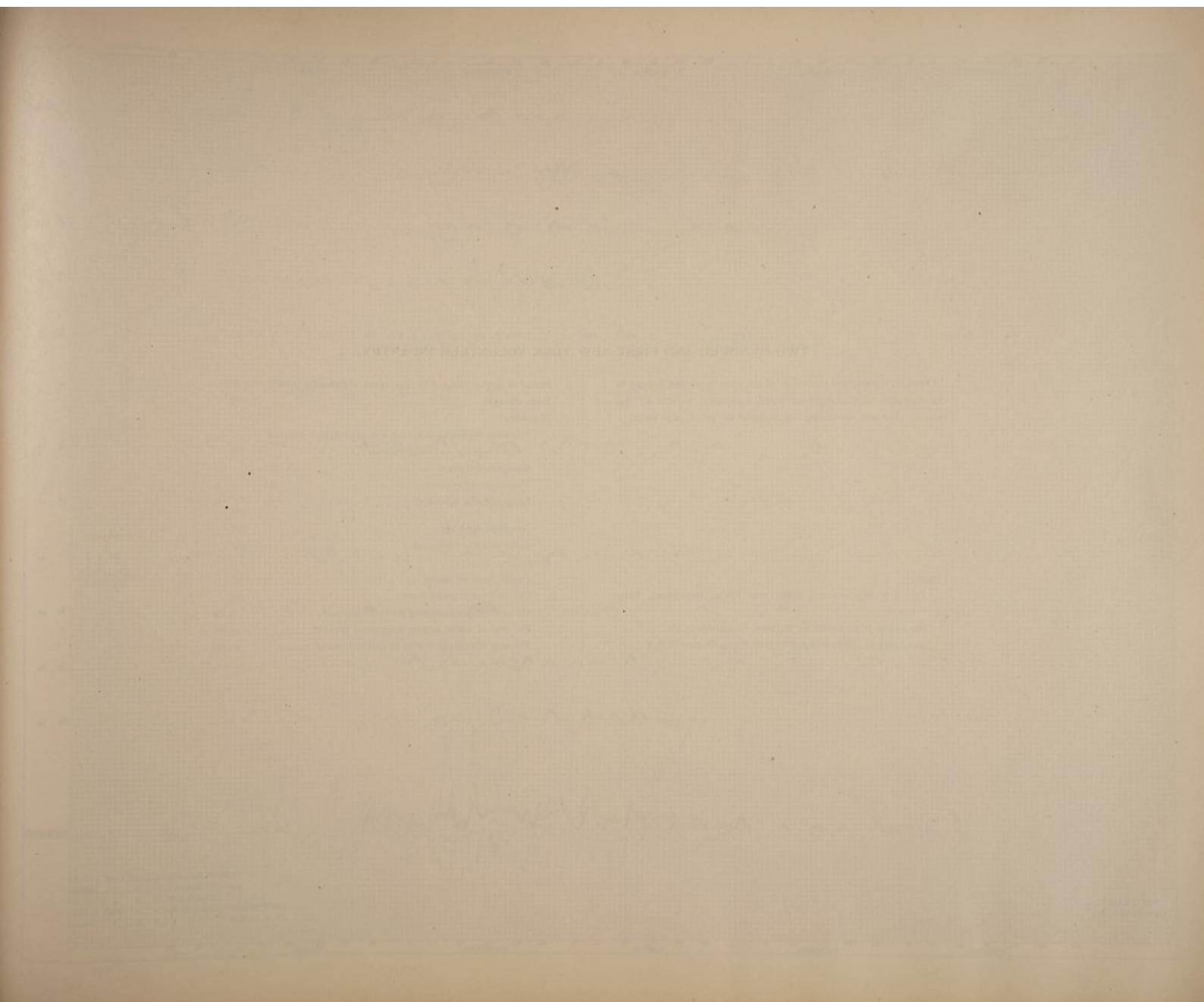
Probable typhoid, including recognized and unrecognized typhoid and long malarias	66
Recognized typhoid	43
Unrecognized typhoid	10
Long malarias (so called)	13
	66
Intestinal disorders	219
Short malarias (so called)	112

Mortality:

Deaths from all causes	3
Deaths from typhoid fever	3
Per cent of deaths among probable typhoid!	4.57
Per cent of deaths among recognized typhoid	6.97
Per cent of typhoid deaths to deaths from all causes	100







TWO HUNDRED AND FIRST NEW YORK VOLUNTEER INFANTRY.

Chart 77, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 460.)

Camps:
 July 7 to September 9, 1898, Camp Black, Hempstead, Long Island.
 September 10 to November 15, 1898, Camp Meade, Pa.
 November 17, 1898, to April 3, 1899, Camp Wetherill, S. C.

Period of service covered by this report, six months twenty-four days.

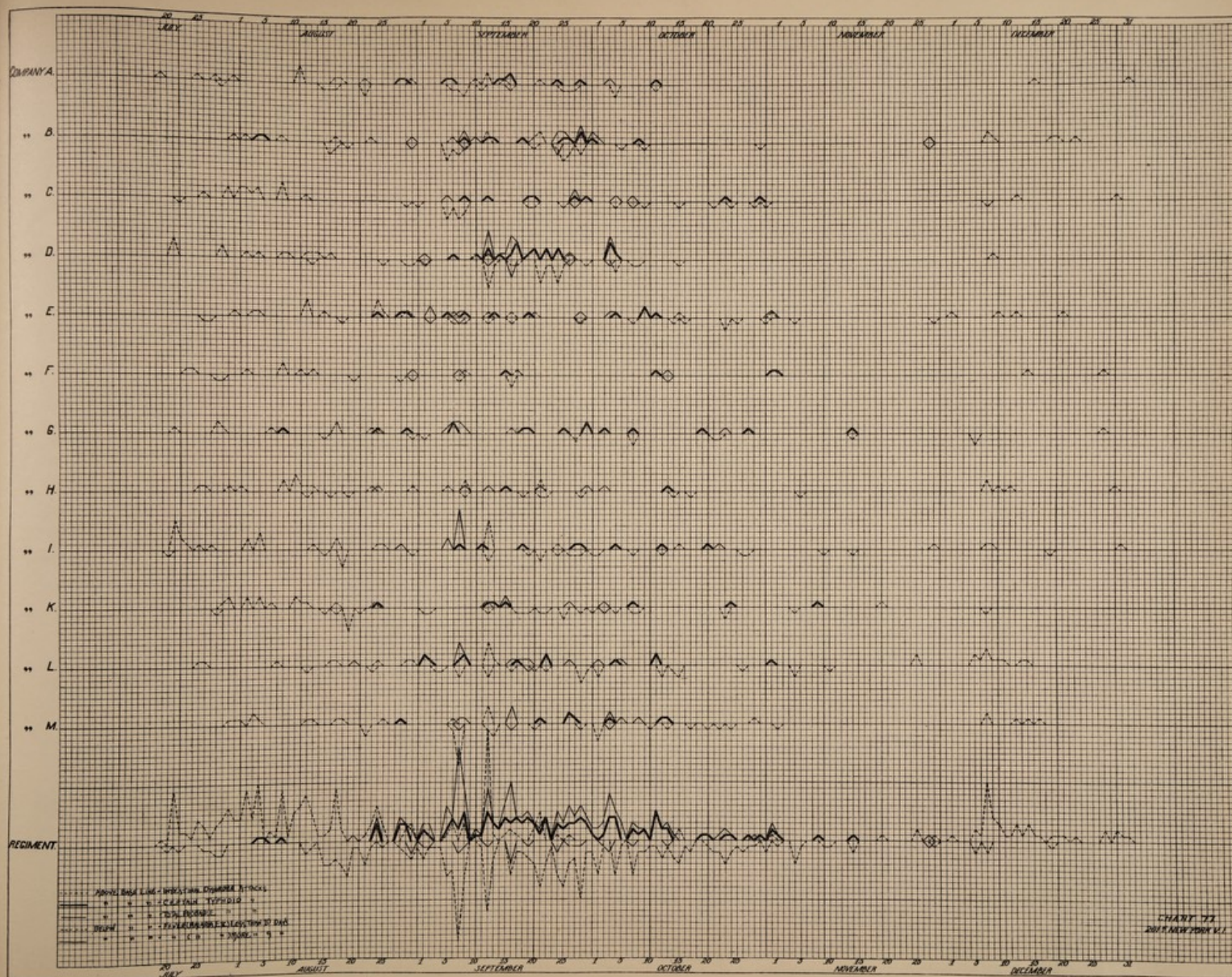
Mean strength..... 1,076

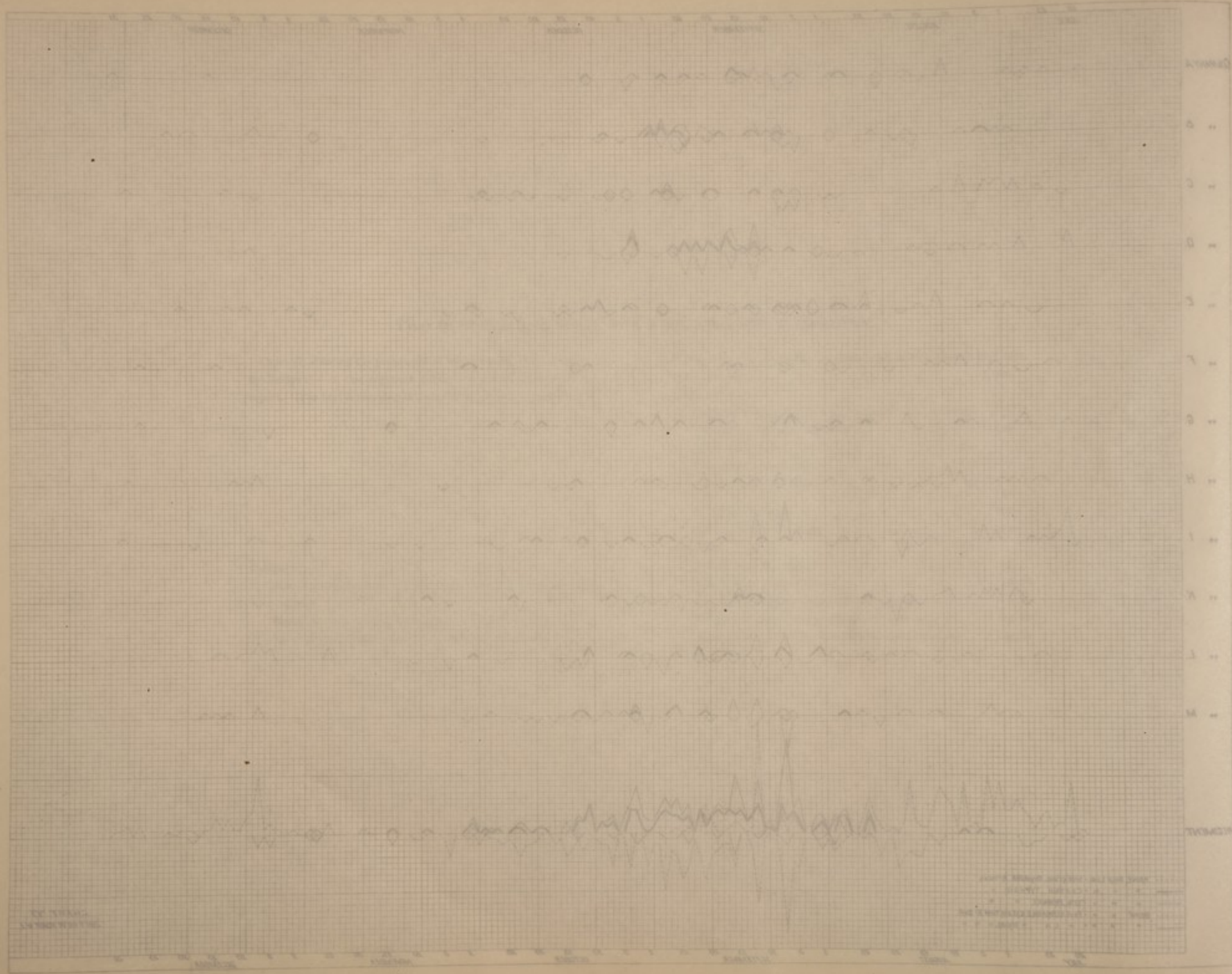
Morbidity:

Probable typhoid, including recognized and unrecognized typhoid and long malarias	195
Recognized typhoid	119
Unrecognized typhoid	54
Long malarias (so called)	22
	195
Intestinal disorders	227
Short malarias (so called)	244

Mortality:

Deaths from all causes	21
Deaths from typhoid fever	19
Per cent of deaths among probable typhoid	9.74
Per cent of deaths among recognized typhoid	15.96
Per cent of typhoid deaths to deaths from all causes ..	90.50





FIRST DELAWARE VOLUNTEER INFANTRY.

Chart 78, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 466.)

Camps:

April 26 to August 20, 1898, State Camp, Middletown, Del.
August 20 to November 6, 1898, Camp Meade, Pa.
November 6 to November 16, 1898, Wilmington, Del.

Period of service covered by this report, six months twenty-one days.

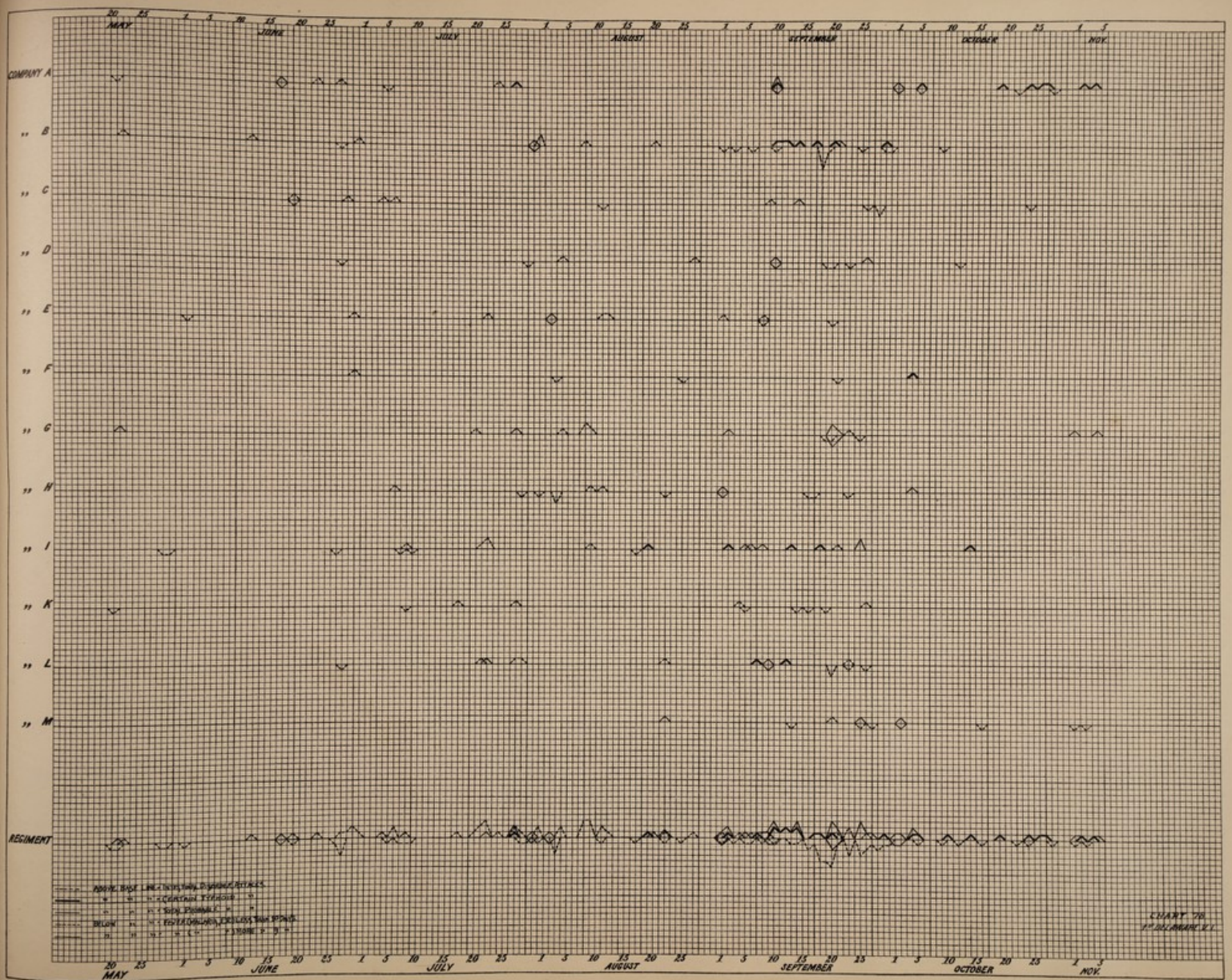
Mean strength 926

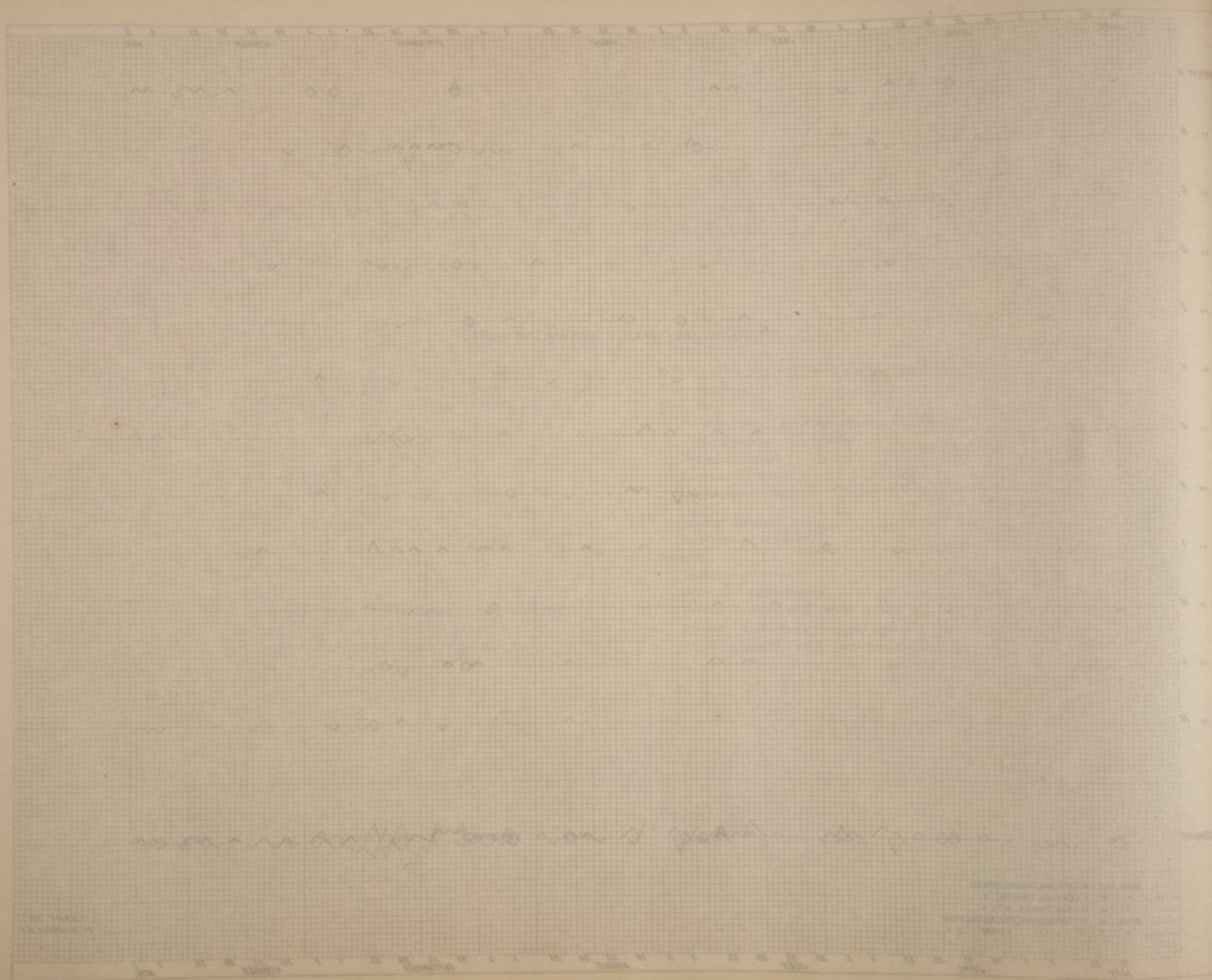
Morbidity:

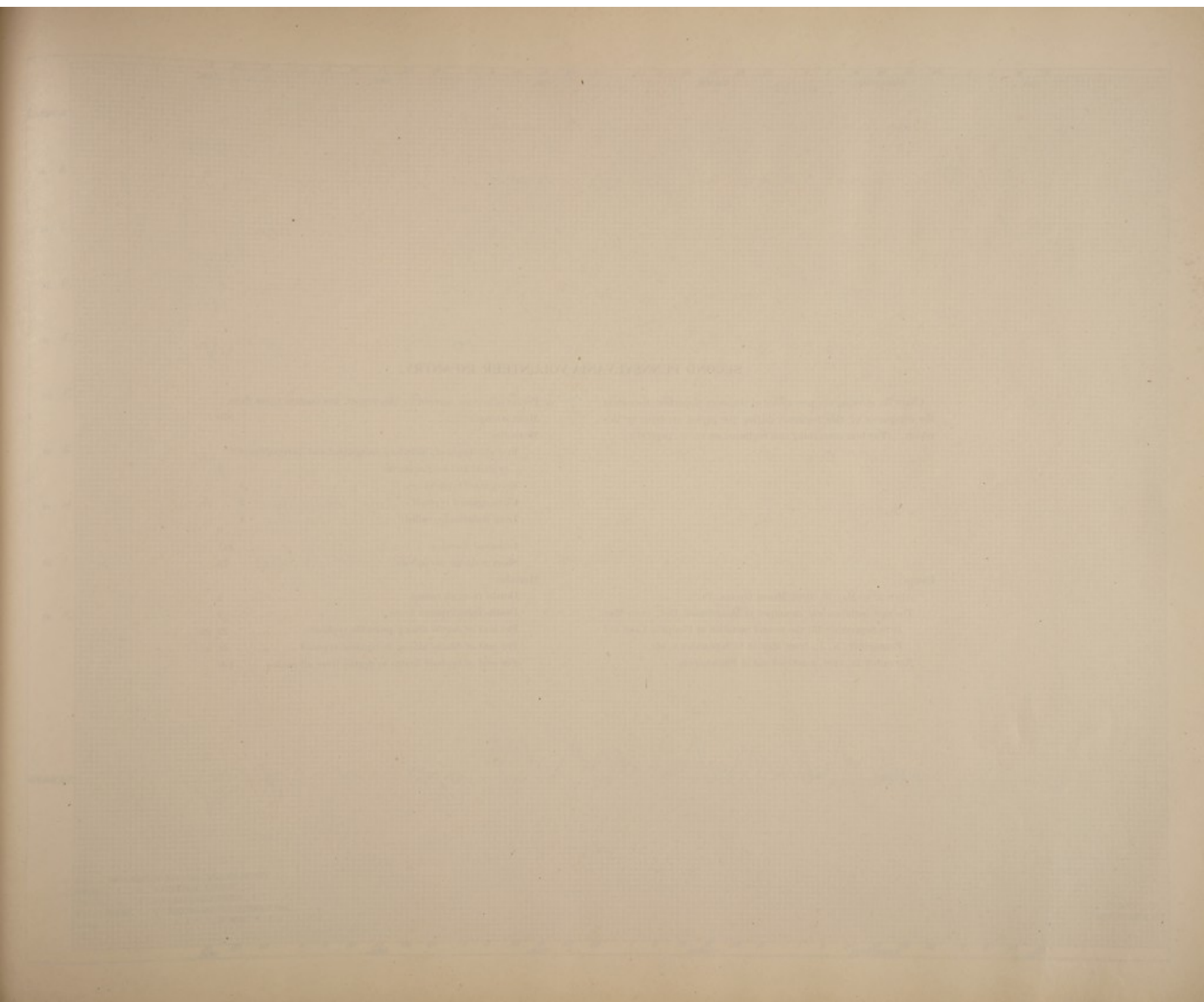
Probable typhoid, including recognized and unrecognized typhoid and long malarias	58
Recognized typhoid	30
Unrecognized typhoid	17
Long malarias (so called)	11
Intestinal disorders	49
Short malarias (so called)	68

Mortality:

Deaths from all causes	7
Deaths from typhoid fever	6
Per cent of deaths among probable typhoid	10.34
Per cent of deaths among recognized typhoid	20
Per cent of typhoid deaths to deaths from all causes	85.71







SECOND PENNSYLVANIA VOLUNTEER INFANTRY.

Chart 79, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 470.)

Camps:

April 28 to May 19, 1898, Mount Gretna, Pa.
The first battalion was encamped at Montchanin, Del., from May 19 to September 15; the second battalion at Pompton Lake and Pennsgrove, N. J., from May 18 to September 6, etc.
November 15, 1898, mustered out at Philadelphia.

Period of service covered by this report, five months three days.

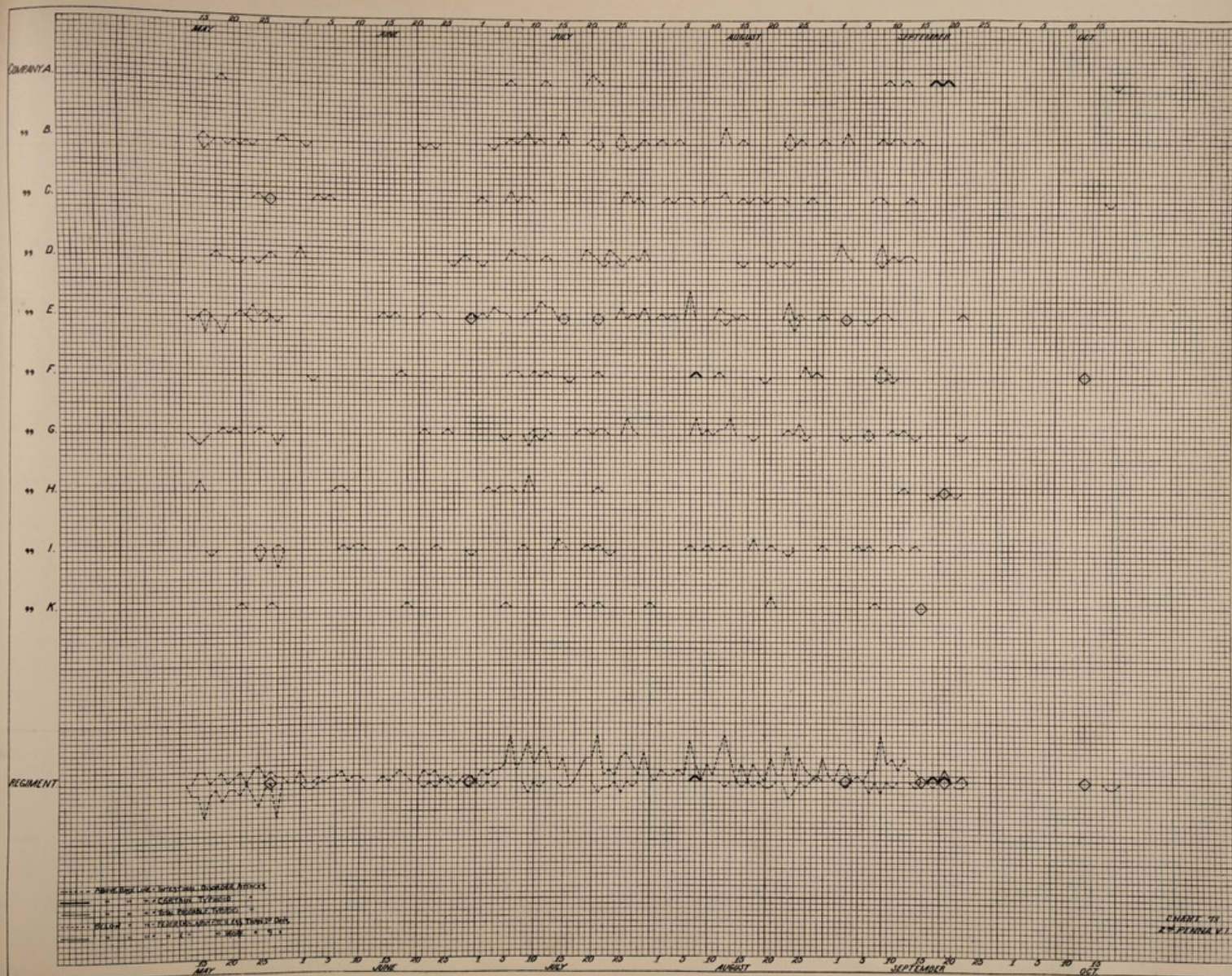
Mean strength..... 979

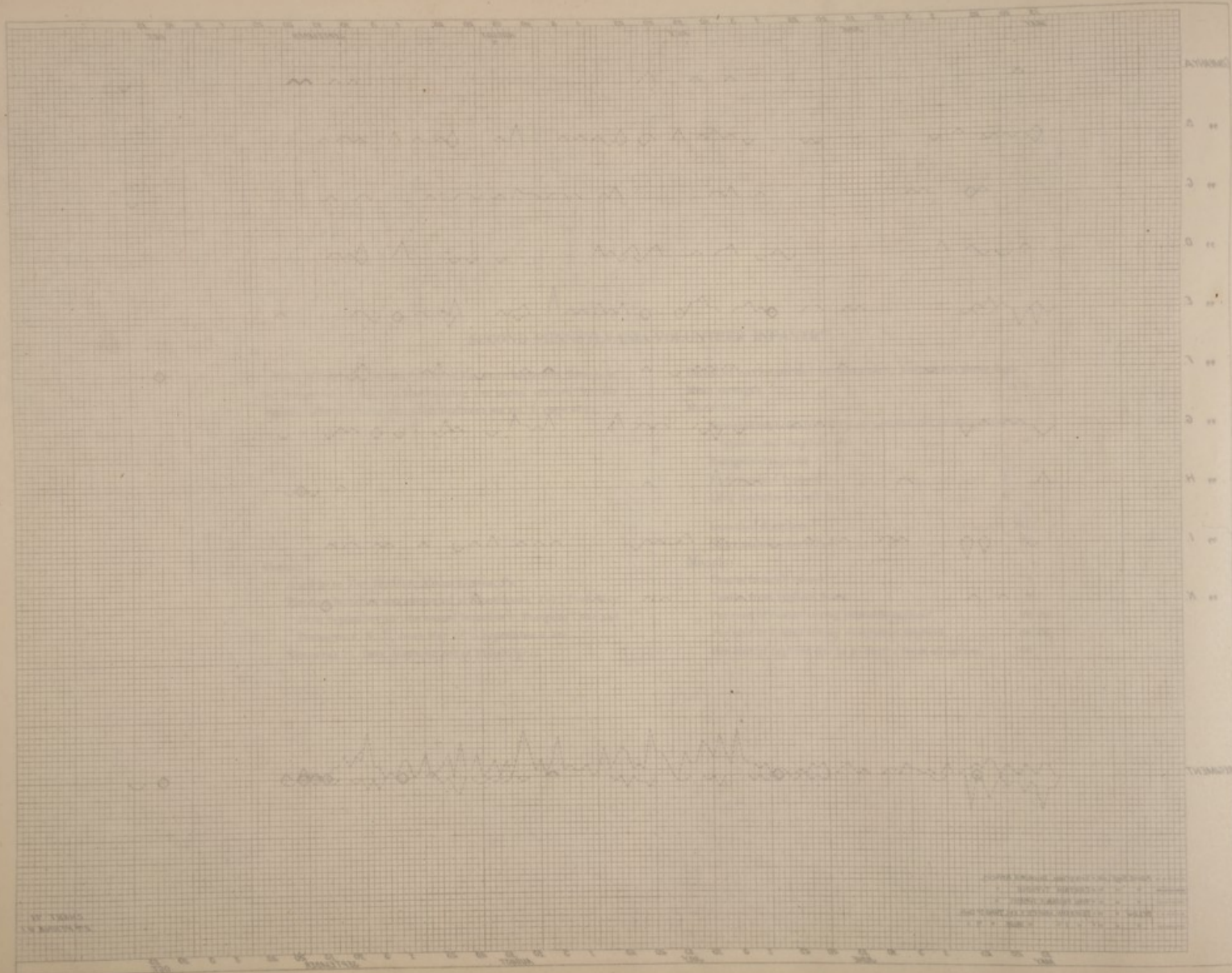
Morbidity:

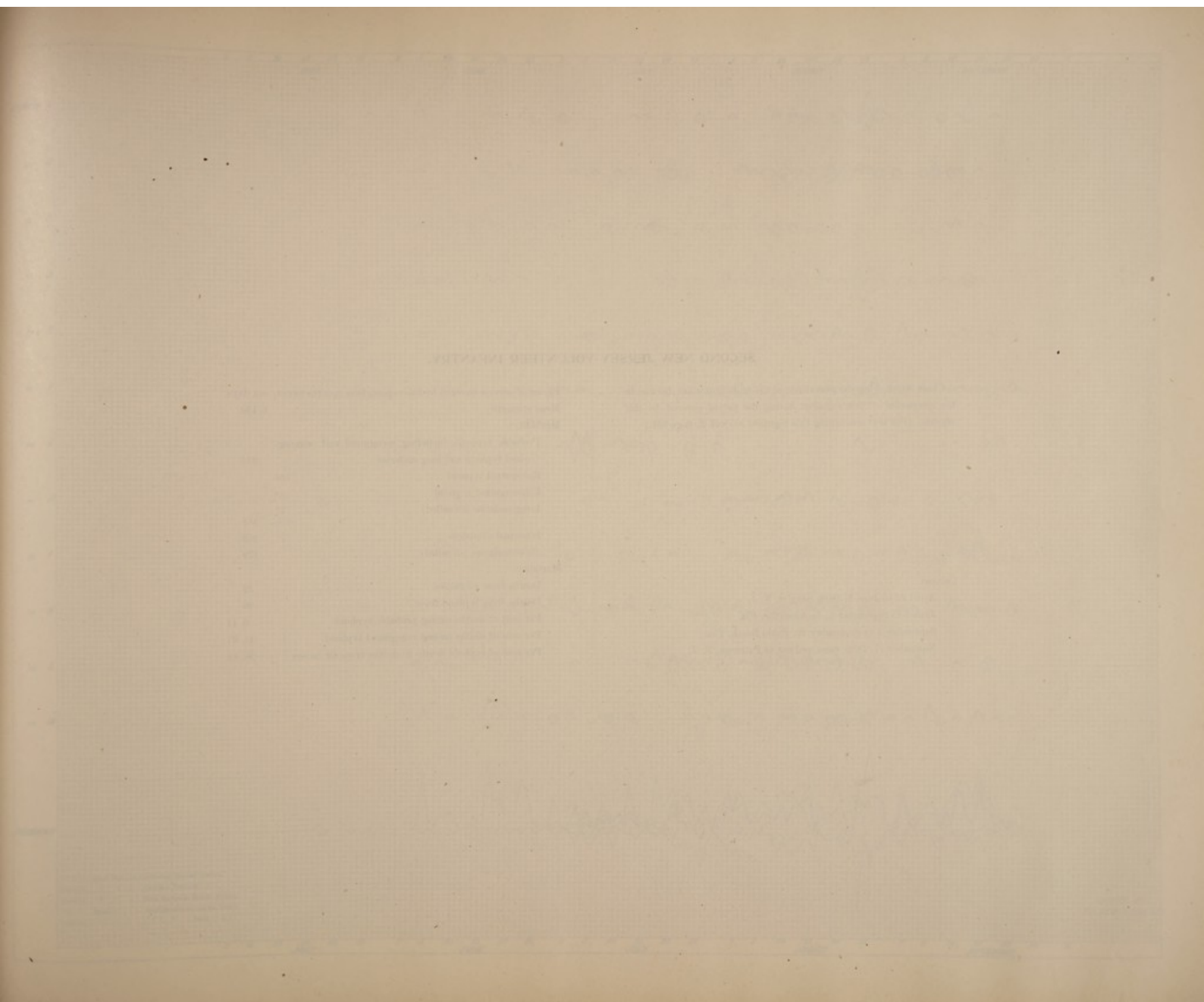
Probable typhoid, including recognized and unrecognized typhoid and long malarias	9
Recognized typhoid	3
Unrecognized typhoid	2
Long malarias (so called).....	4
Intestinal disorders	241
Short malarias (so called)	79

Mortality:

Deaths from all causes	2
Deaths from typhoid fever.....	2
Per cent of deaths among probable typhoid.....	22.22
Per cent of deaths among recognized typhoid.....	66.66
Per cent of typhoid deaths to deaths from all causes.....	100







SECOND NEW JERSEY VOLUNTEER INFANTRY.

Chart 80, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 531.)

Camps:

April 27 to June 1, 1898, Seagirt, N. J.
June 3 to September 2, Jacksonville, Fla.
September 2 to September 22, Pablo Beach, Fla.
November 17, 1898, mustered out at Paterson, N. J.

Period of service covered by this report, four months twenty-six days.

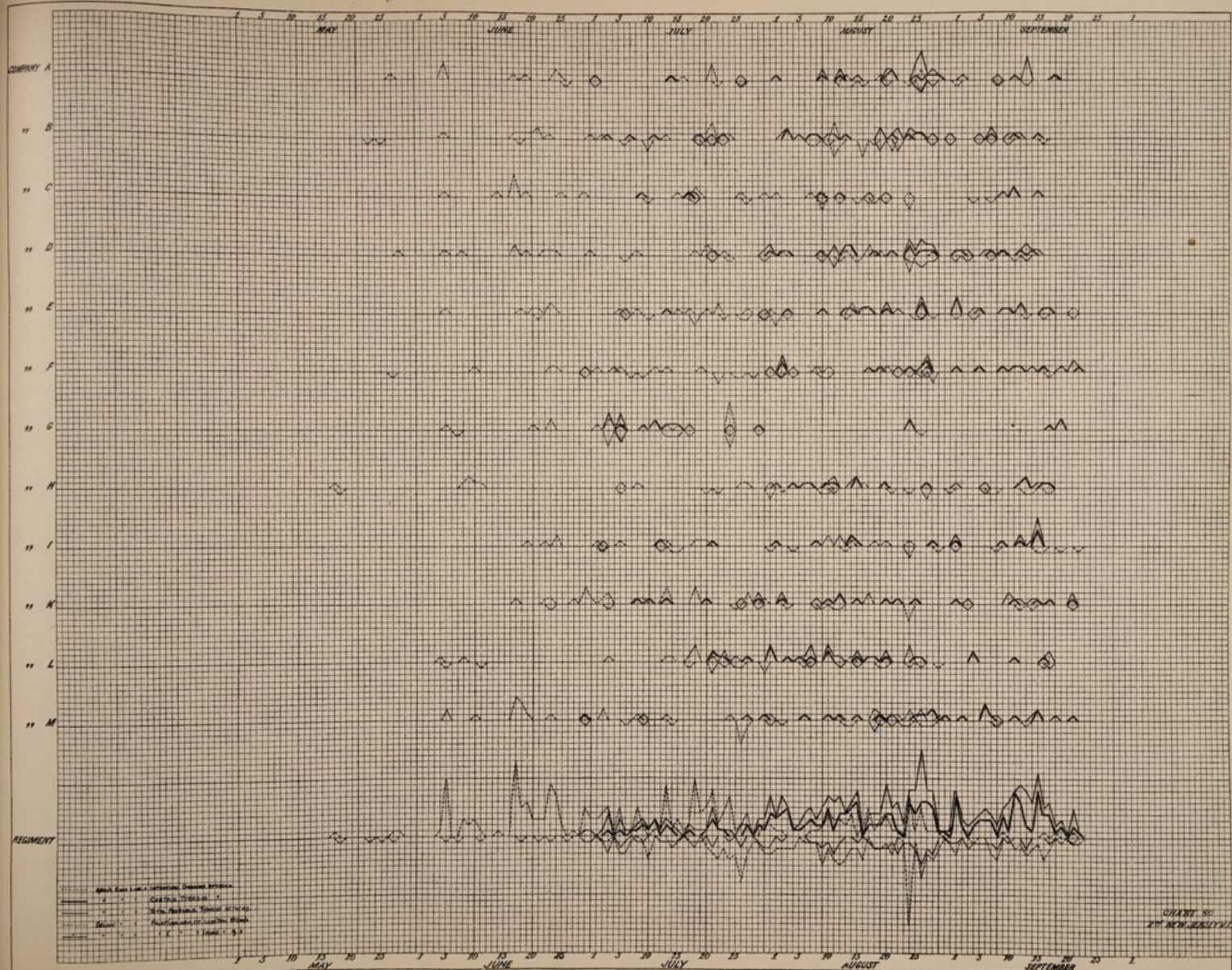
Mean strength..... 1,153

Morbidity:

Probable typhoid, including recognized and unrecognized typhoid and long malarias	318
Recognized typhoid	185
Unrecognized typhoid	58
Long malarias (so called)	75
Intestinal disorders	252
Short malarias (so called)	179

Mortality:

Deaths from all causes	32
Deaths from typhoid fever	29
Per cent of deaths among probable typhoid	9.11
Per cent of deaths among recognized typhoid	15.67
Per cent of typhoid deaths to deaths from all causes	90.62

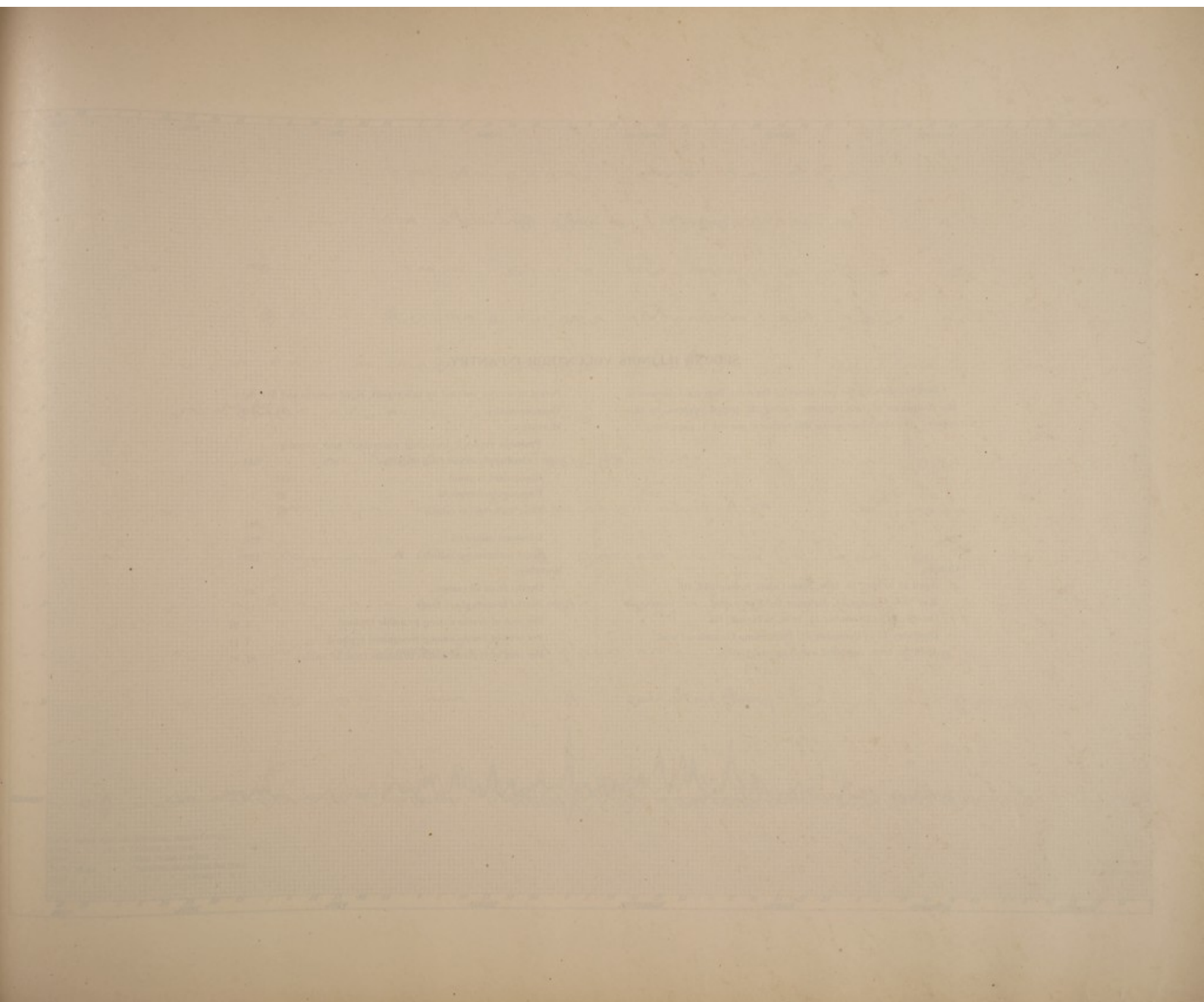


The first part of the paper is a
 short introduction to the subject
 and the second part is a
 description of the method used
 in the experiment. The third part
 is a discussion of the results
 and the fourth part is a
 conclusion. The paper is
 divided into four parts: a
 short introduction to the subject
 and the second part is a
 description of the method used
 in the experiment. The third part
 is a discussion of the results
 and the fourth part is a
 conclusion.



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SECOND ILLINOIS VOLUNTEER INFANTRY.

Chart 81, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 539.)

Camps:

April 25 to May 19, 1898, State Camp, Springfield, Ill.
May 23 to October 24, Jacksonville, Fla.
October 24 to December 15, 1898, Savannah, Ga.
December 15 to December 31, 1898, Camp Columbia, Cuba.
April 26, 1899, mustered out, Augusta, Ga.

Period of service covered by this report, eight months and five days.

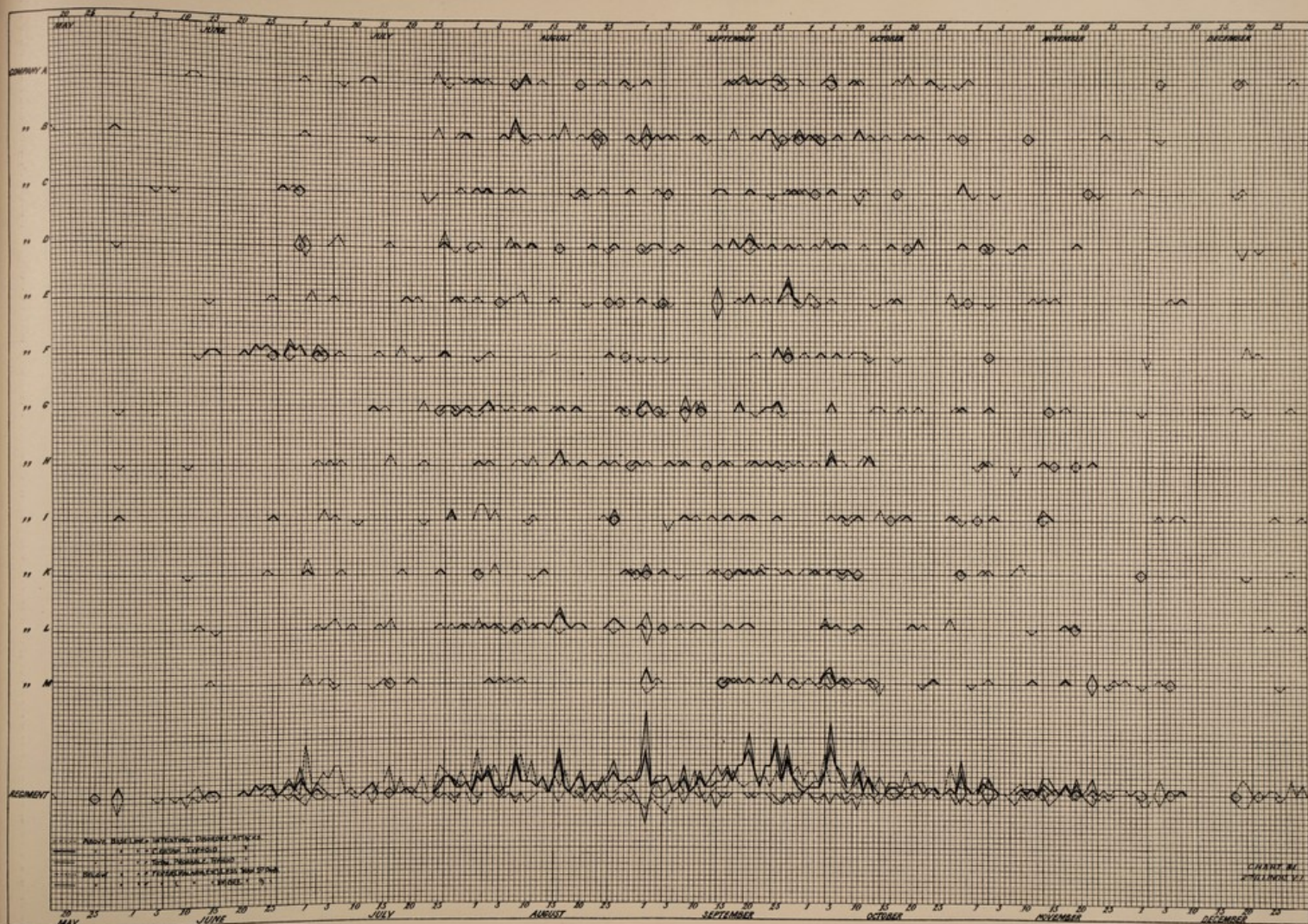
Mean strength 1,065

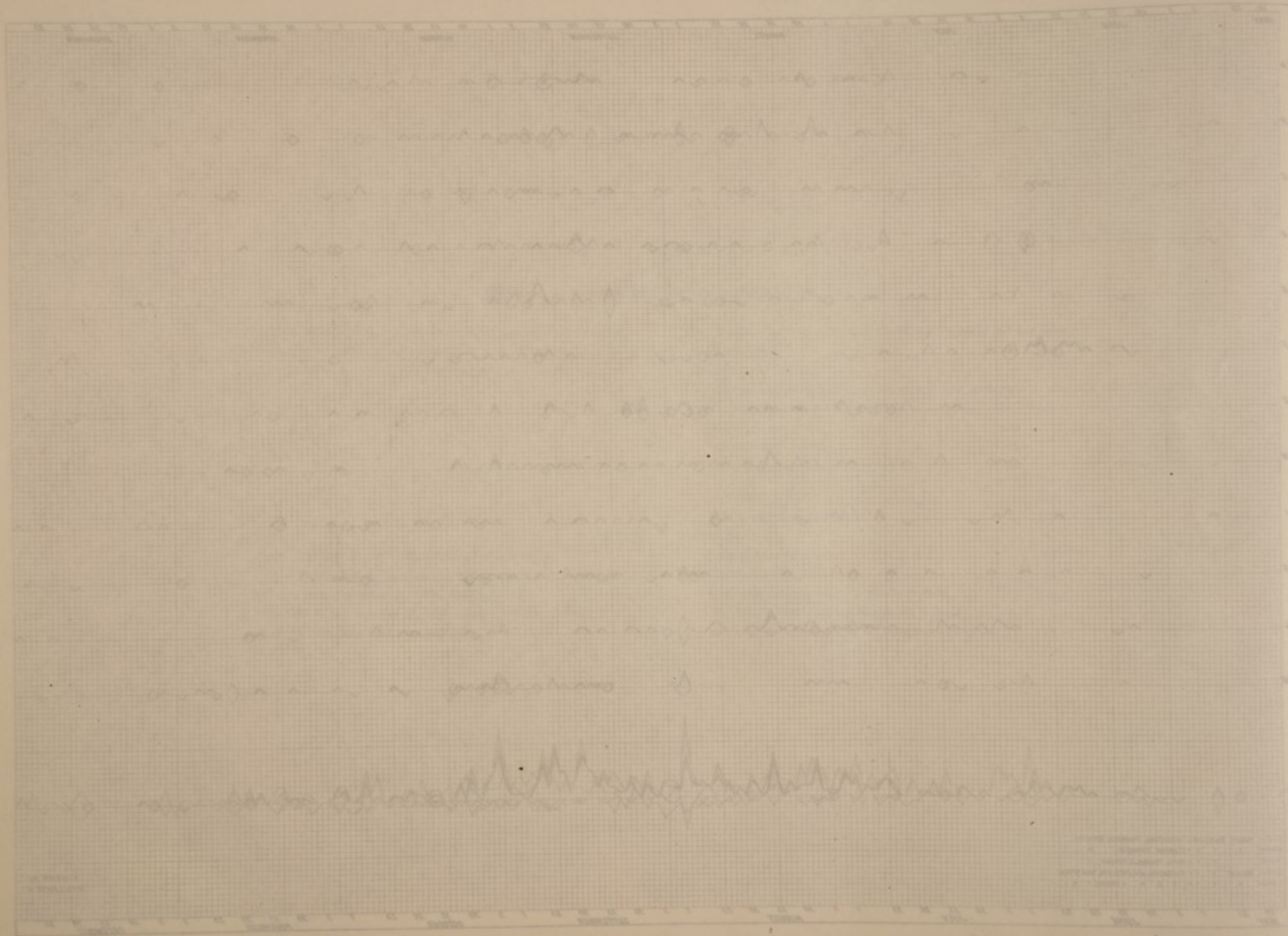
Morbidity:

Probable typhoid, including recognized and unrecognized typhoid and long malarias 341
Recognized typhoid 253
Unrecognized typhoid 25
Long malarias (so called) 63
..... 341
Intestinal disorders 316
Short malarias (so called) 133

Mortality:

Deaths from all causes 22
Deaths from typhoid fever 18
Per cent of deaths among probable typhoid 5.27
Per cent of deaths among recognized typhoid 7.11
Per cent of typhoid deaths to deaths from all causes ... 81.81





FIRST NORTH CAROLINA VOLUNTEER INFANTRY.

Chart 82, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 551).

Camps:

May 1 to May 22, State Camp, Raleigh, N. C.
 June 23 to October 24, Jacksonville, Fla.
 October 25 to middle of December, Camp Onward, Savannah, Ga.
 Middle of December to end of December, 1898, Cuba.
 April 22, 1899, mustered out at Savannah, Ga.

Period of service covered by this report, eight months.

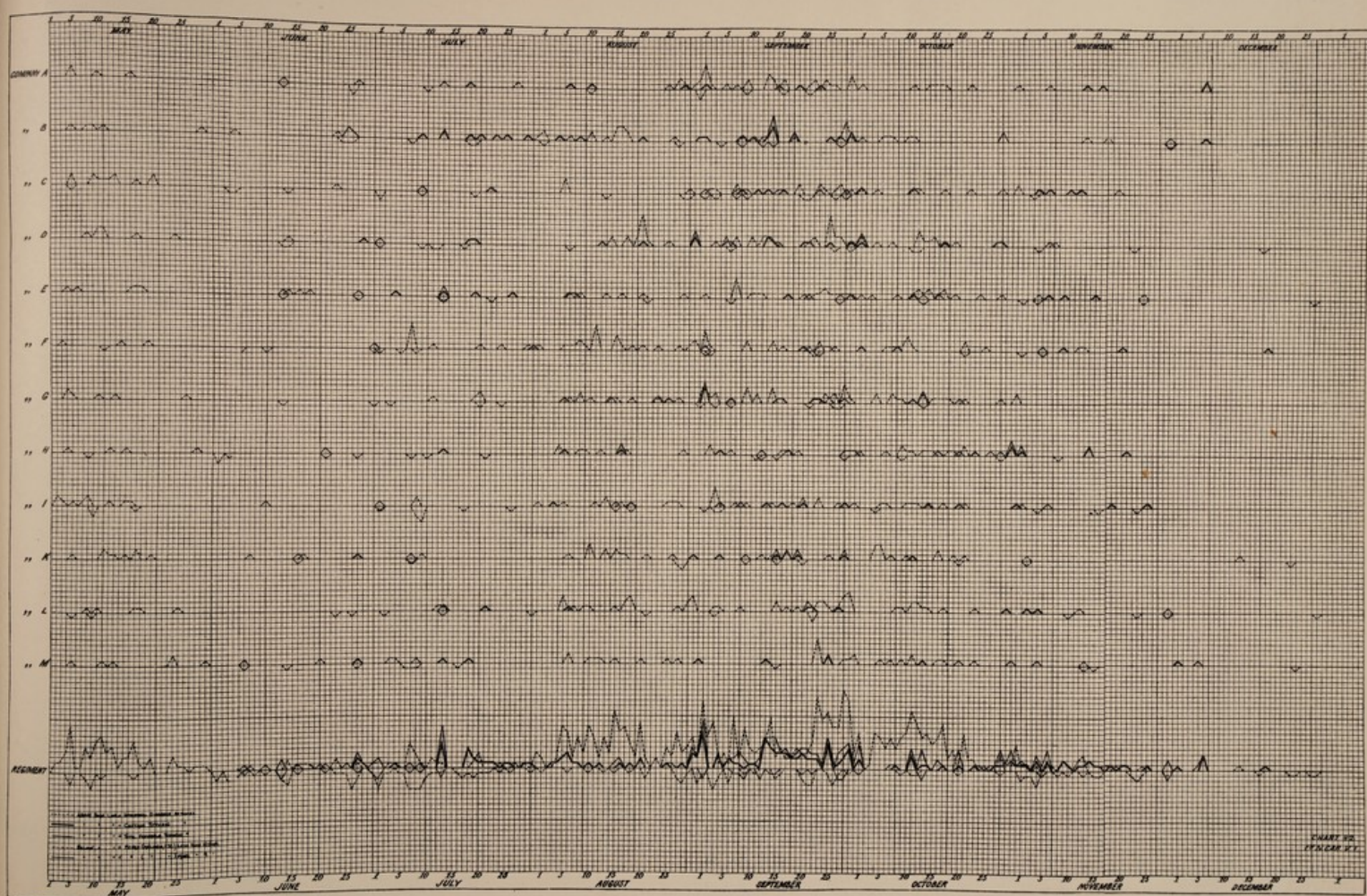
Mean strength 1,164

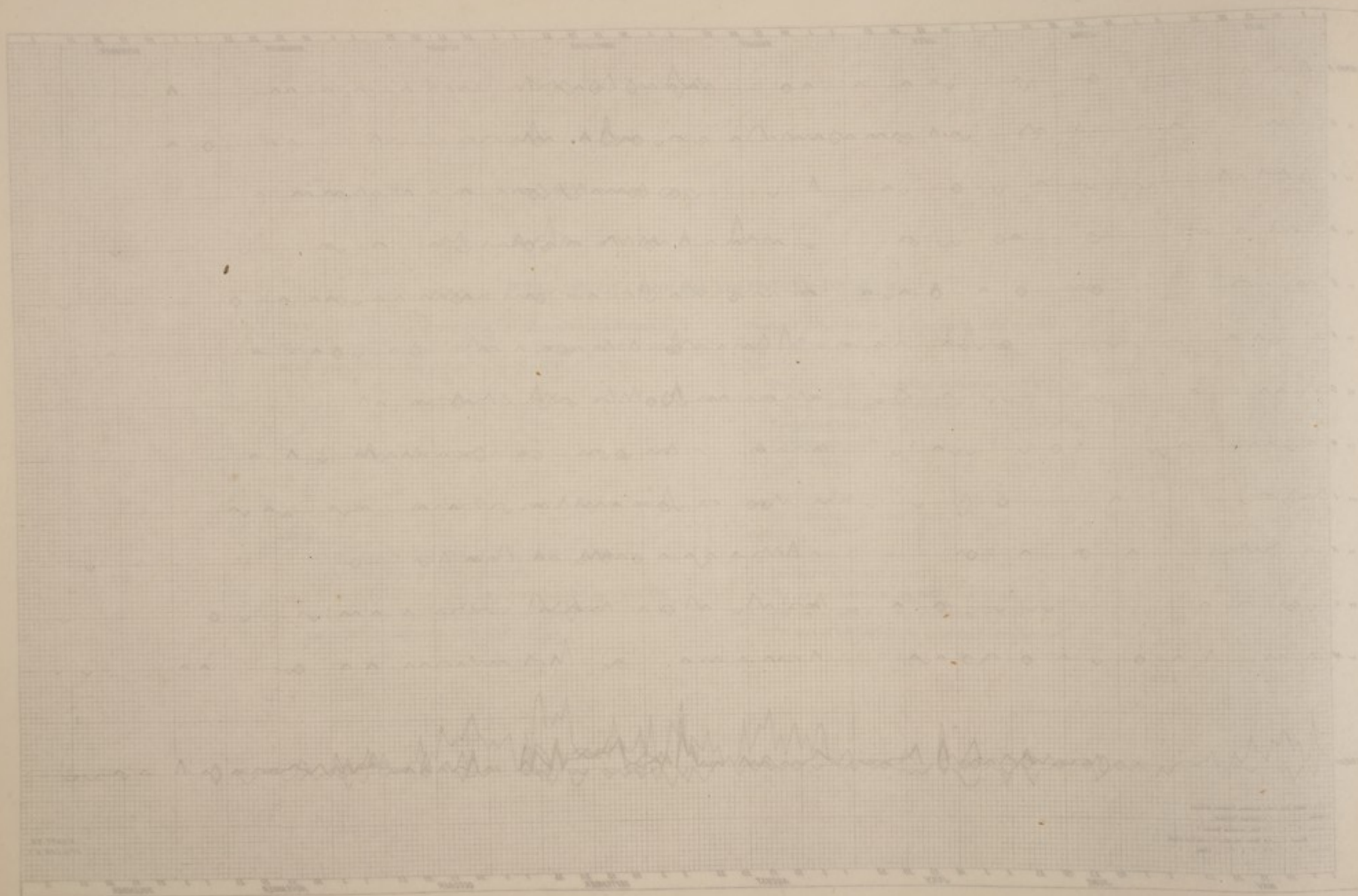
Morbidity:

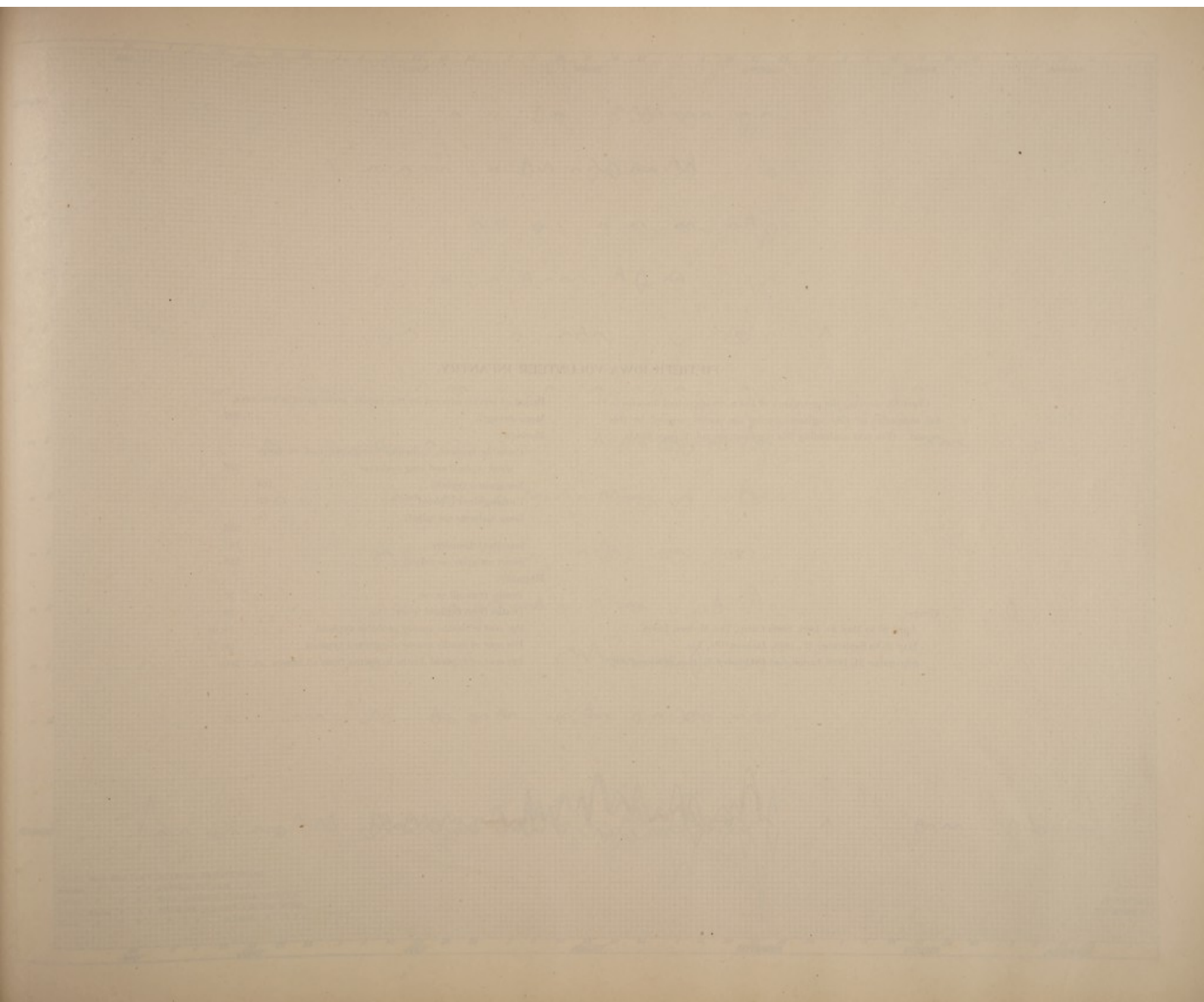
Probable typhoid, including recognized and unrecognized typhoid and long malarias	227
Recognized typhoid	147
Unrecognized typhoid	46
Long malarias (so called)	34
Intestinal disorders	568
Short malarias (so called)	141

Mortality:

Deaths from all causes	20
Deaths from typhoid fever	16
Per cent of deaths among probable typhoid	7.04
Per cent of deaths among recognized typhoid	10.68
Per cent of typhoid deaths to deaths from all causes ...	80







FIFTIETH IOWA VOLUNTEER INFANTRY.

Chart 83, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 559.)

Camps:

April 26 to May 20, 1898, State Camp, Des Moines, Iowa.
May 25 to September 17, 1898, Jacksonville, Fla.
September 21, 1898, furloughed to October 31, then mustered out.

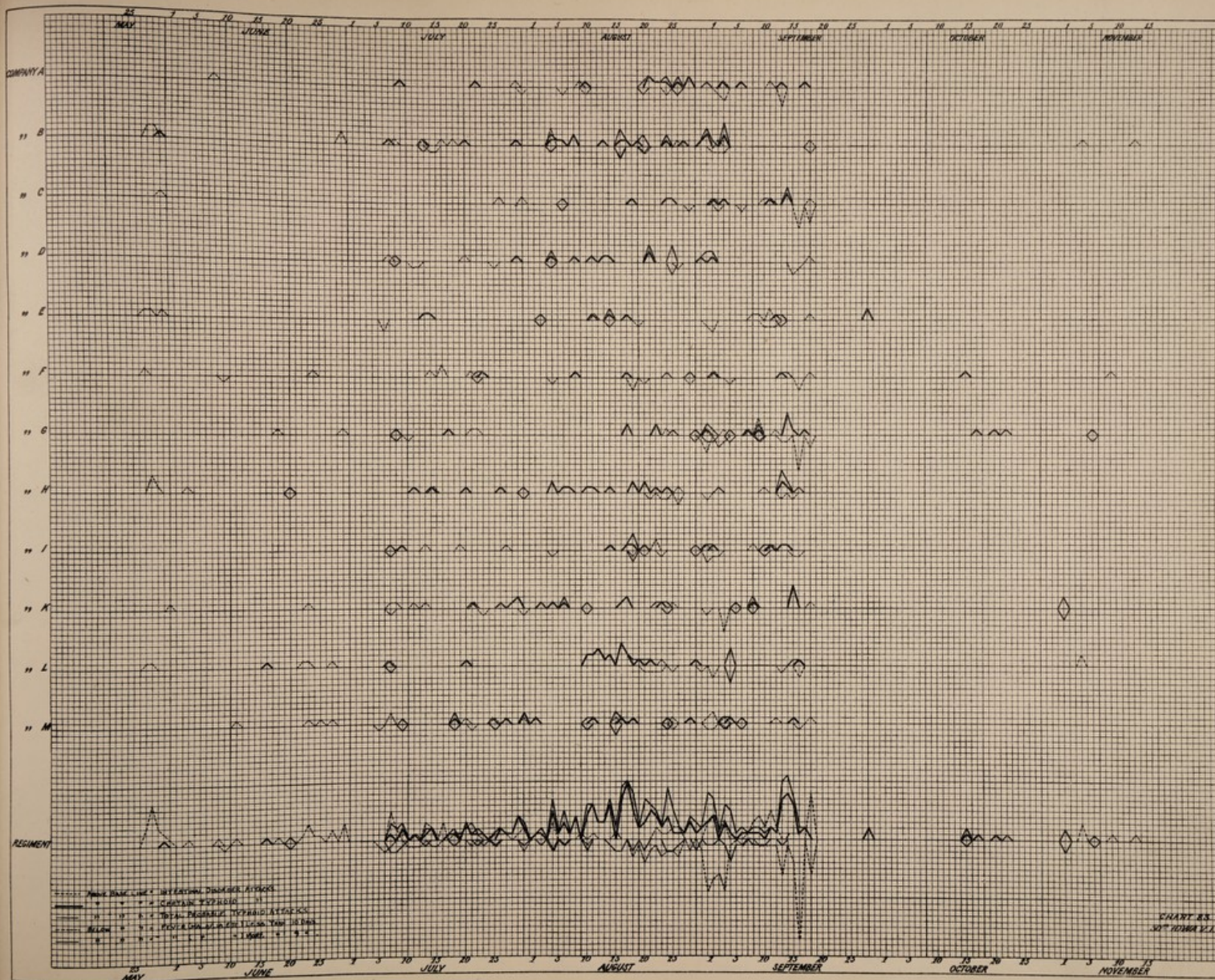
Period of service covered by this report, seven months five days.
Mean strength..... 1,097

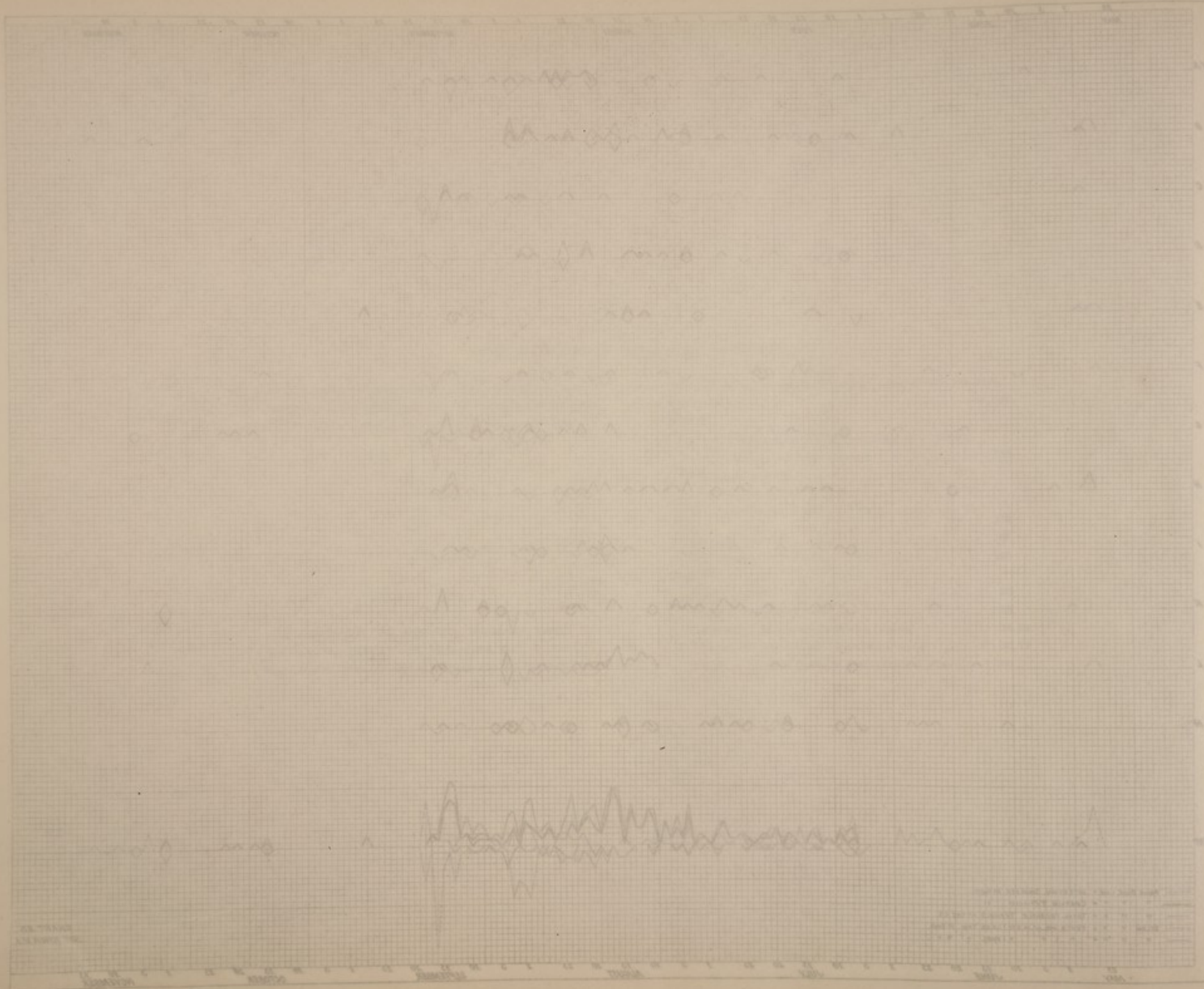
Morbidity:

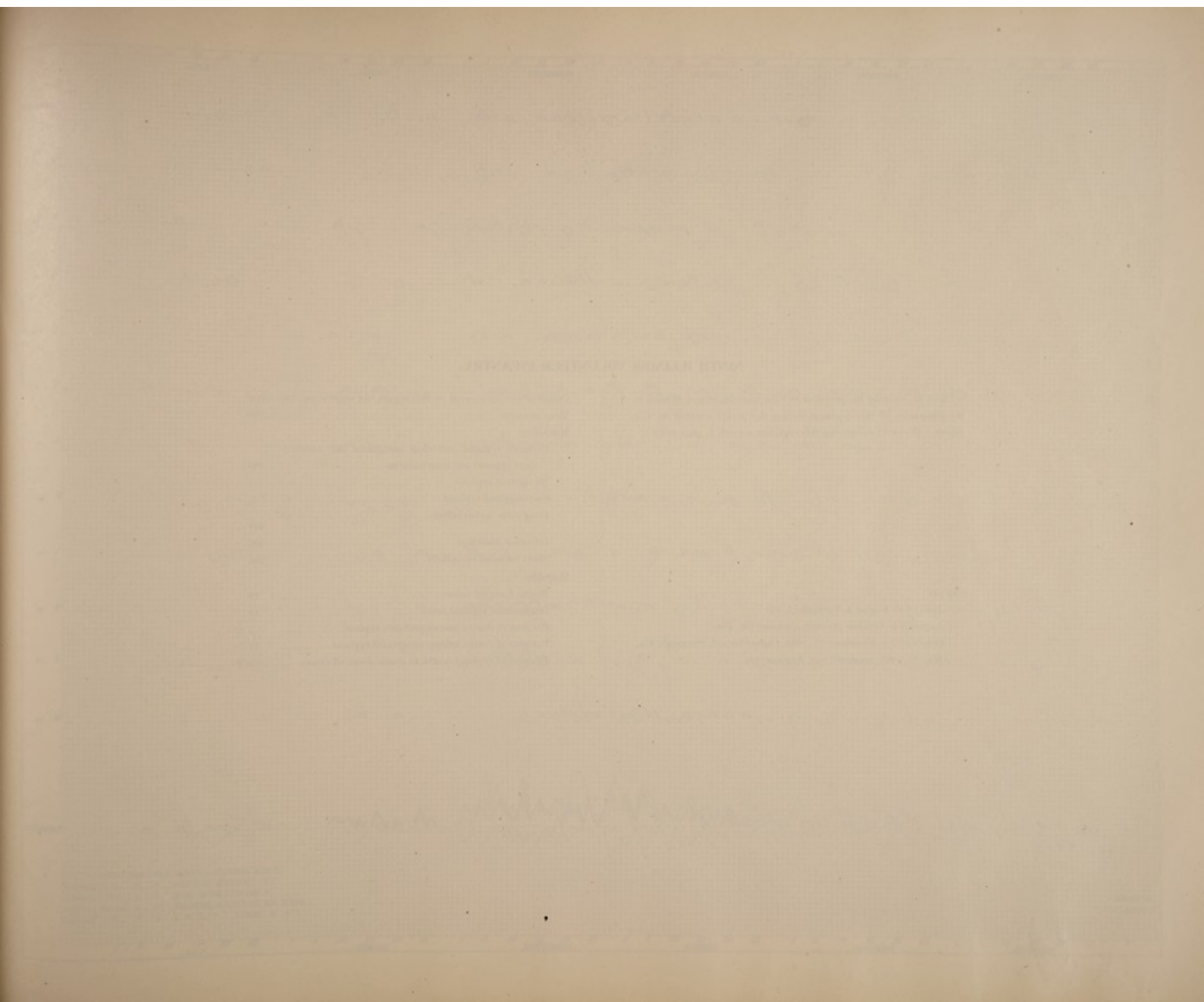
Probable typhoid, including recognized and unrecognized typhoid and long malarias	253
Recognized typhoid.....	164
Unrecognized typhoid.....	33
Long malarias (so called)	56
.....	253
Intestinal disorders	165
Short malarias (so called)	128

Mortality:

Deaths from all causes	33
Deaths from typhoid fever.....	33
Per cent of deaths among probable typhoid.....	13.94
Per cent of deaths among recognized typhoid.....	20.12
Per cent of typhoid deaths to deaths from all causes....	100







NINTH ILLINOIS VOLUNTEER INFANTRY.

Chart 84, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 567.)

Camps:

June 28 to August 5, Springfield, Ill.
August 8 to October 21, 1898, Jacksonville, Fla.
October 22 to December 31, 1898, Camp Onward, Savannah, Ga.
May 26, 1899, mustered out, Augusta, Ga.

Period of service covered by this report, six months and two days.

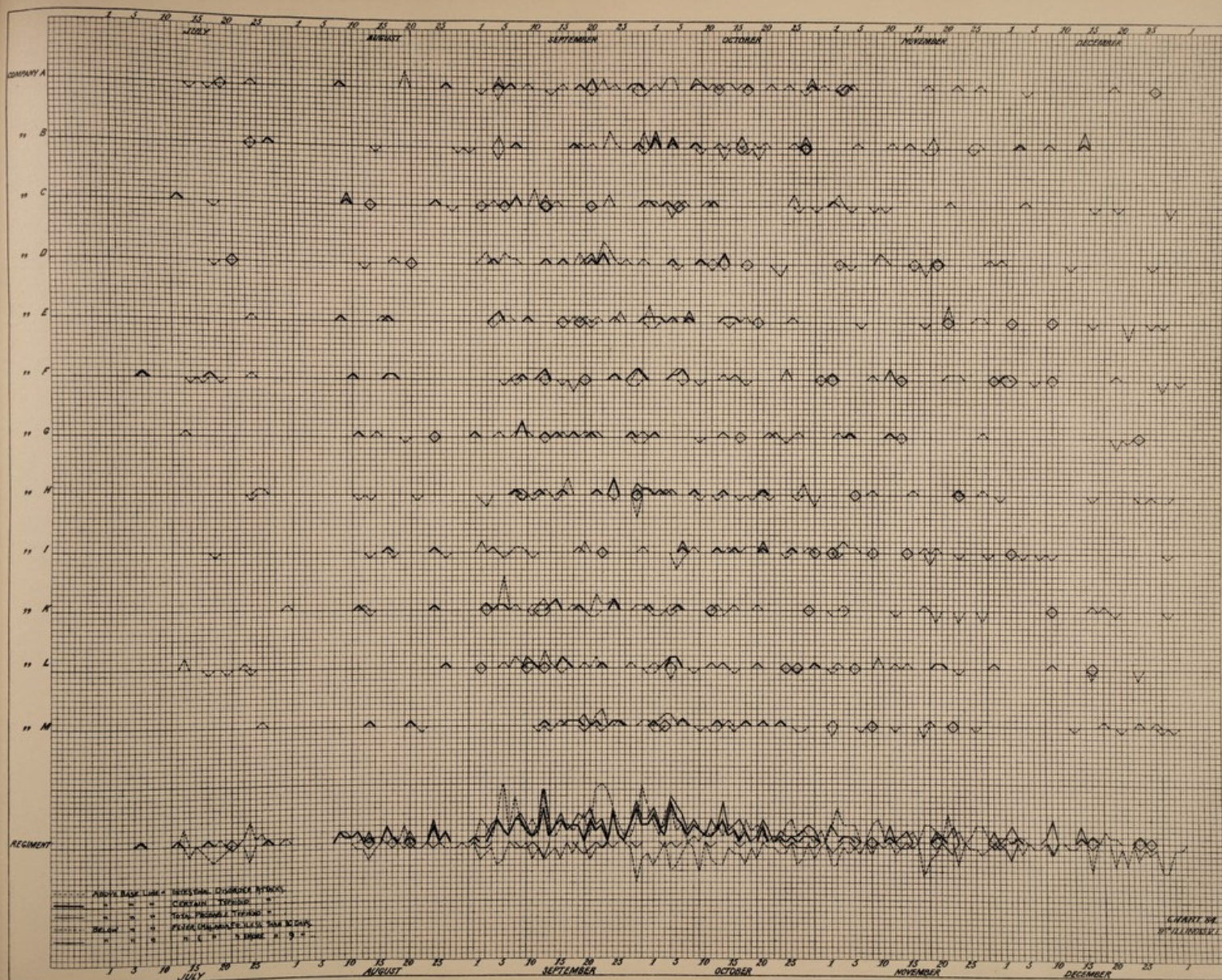
Mean strength 1,288

Morbidity:

Probable typhoid, including recognized and unrecognized typhoid and long malarias	248
Recognized typhoid	153
Unrecognized typhoid	47
Long malarias (so called).....	48
Intestinal disorders	303
Short malarias (so called)	235

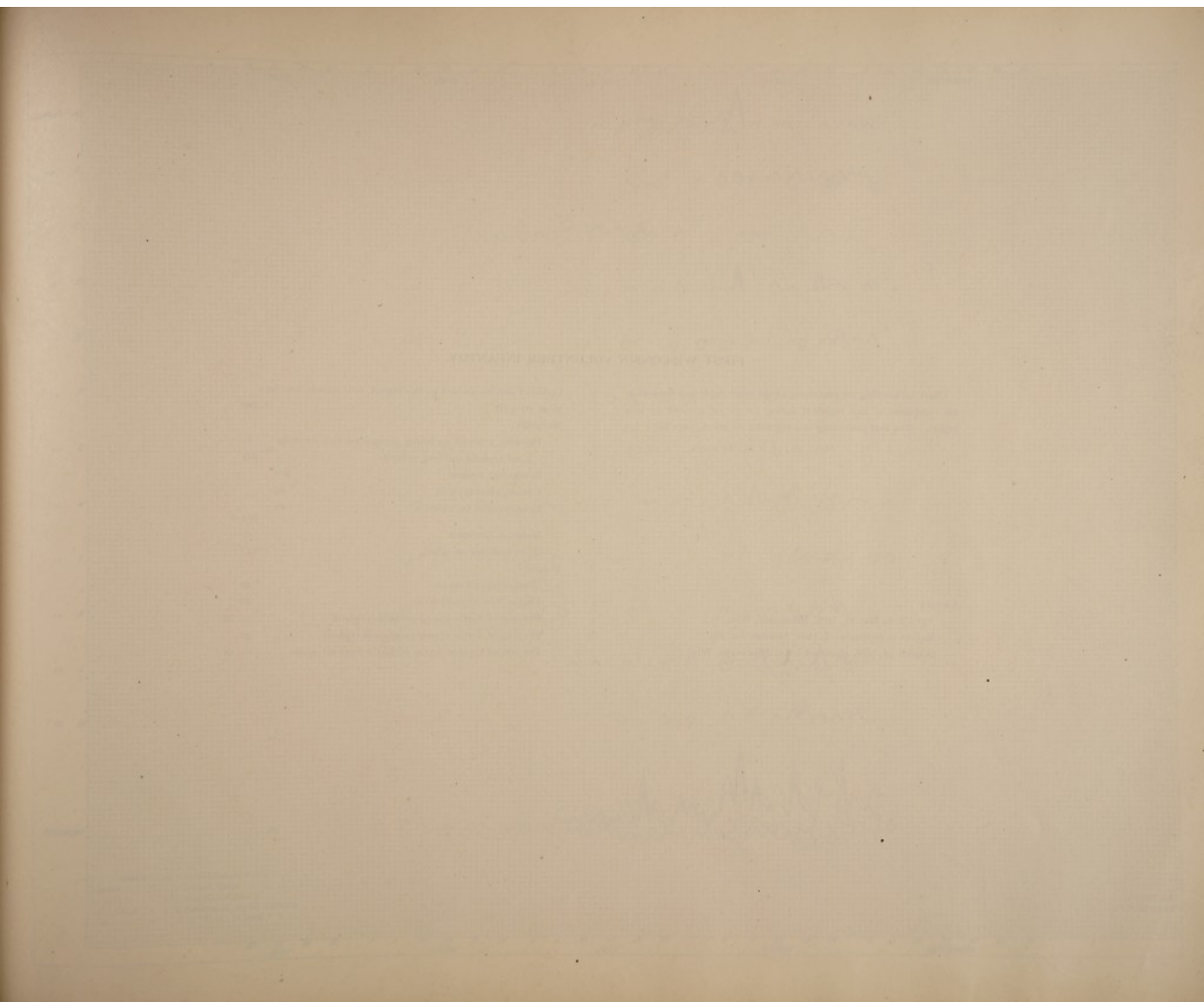
Mortality:

Deaths from all causes.....	28
Deaths from typhoid fever.....	18
Per cent of deaths among probable typhoid	7.25
Per cent of deaths among recognized typhoid	11.76
Per cent of typhoid deaths to deaths from all causes ...	64.28



Handwritten text on a grid background, likely a ledger or notebook page. The text is written in cursive and spans multiple lines. The page includes a header section with labels: NAME, ADDRESS, CITY, STATE, and ZIP. The main body contains several lines of text, including a date (JAN 1964) and a signature (J. H. HARRIS). The bottom right corner contains a small table with columns for NAME, ADDRESS, CITY, STATE, and ZIP, and a row of data.

NAME	ADDRESS	CITY	STATE	ZIP
J. H. HARRIS	12345	NEW YORK	NY	10001



FIRST WISCONSIN VOLUNTEER INFANTRY.

Chart 85, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 573.)

Camps:

April 28 to May 21, 1898, Milwaukee, Wis.
May 24 to September 7, 1898, Jacksonville, Fla.
October 19, 1898, mustered out at Milwaukee, Wis.

Period of service covered by this report, four months ten days.

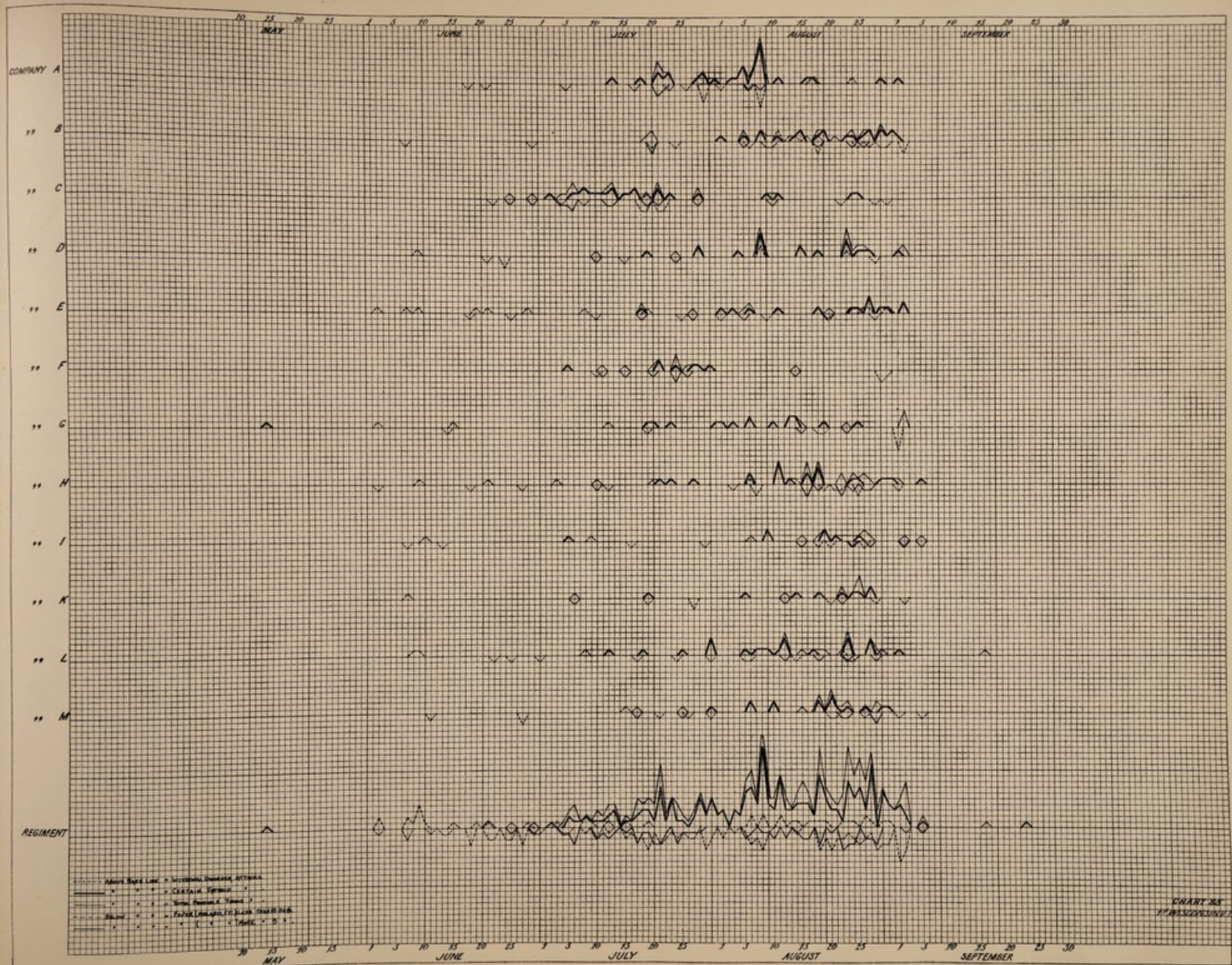
Mean strength..... 1,232

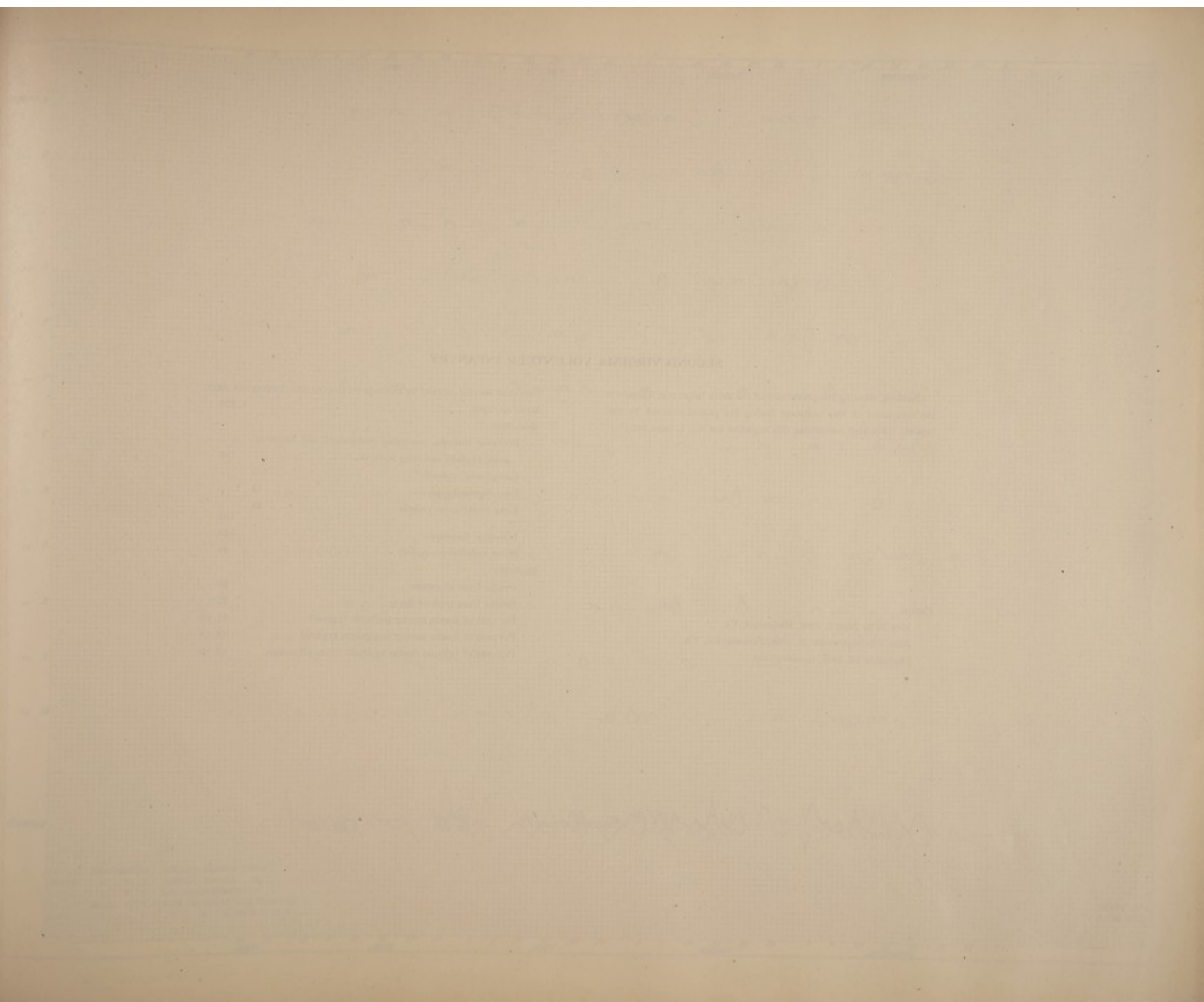
Morbidity:

Probable typhoid, including recognized and unrecognized typhoid and long malarias	311
Recognized typhoid	209
Unrecognized typhoid	34
Long malarias (so called)	68
Intestinal disorders	42
Short malarias (so called)	117

Mortality:

Deaths from all causes.....	48
Deaths from typhoid fever.....	46
Per cent of deaths among probable typhoid	14.79
Per cent of deaths among recognized typhoid.....	22
Per cent of typhoid deaths to deaths from all causes...	95.83





SECOND VIRGINIA VOLUNTEER INFANTRY.

Chart 86, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 586.)

Camps:

May 10 to June 1, 1898, Richmond, Va.
June 3 to September 19, 1898, Jacksonville, Fla.
December 16, 1898, mustered out.

Period of service covered by this report, four months twenty-six days.

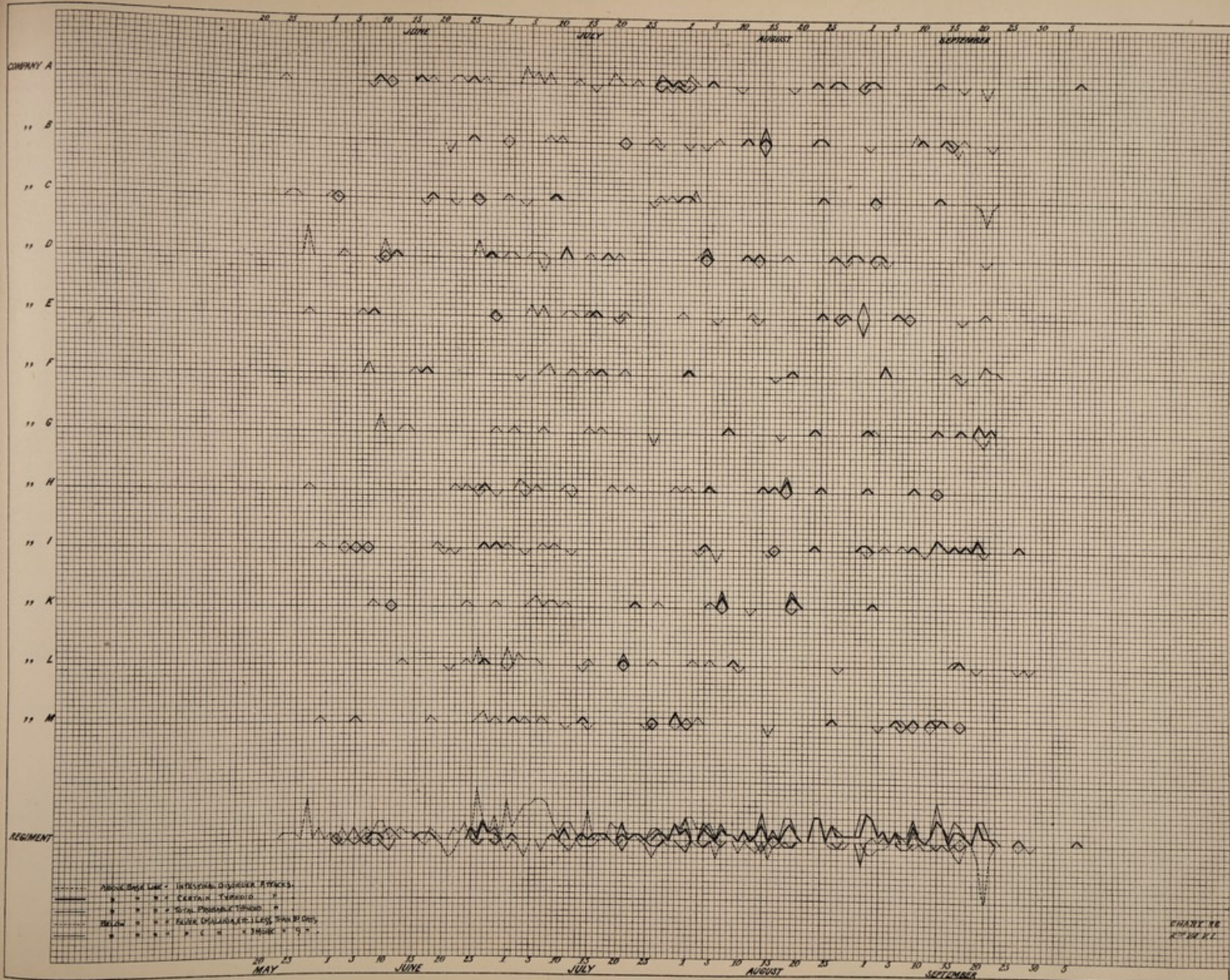
Mean strength 1,220

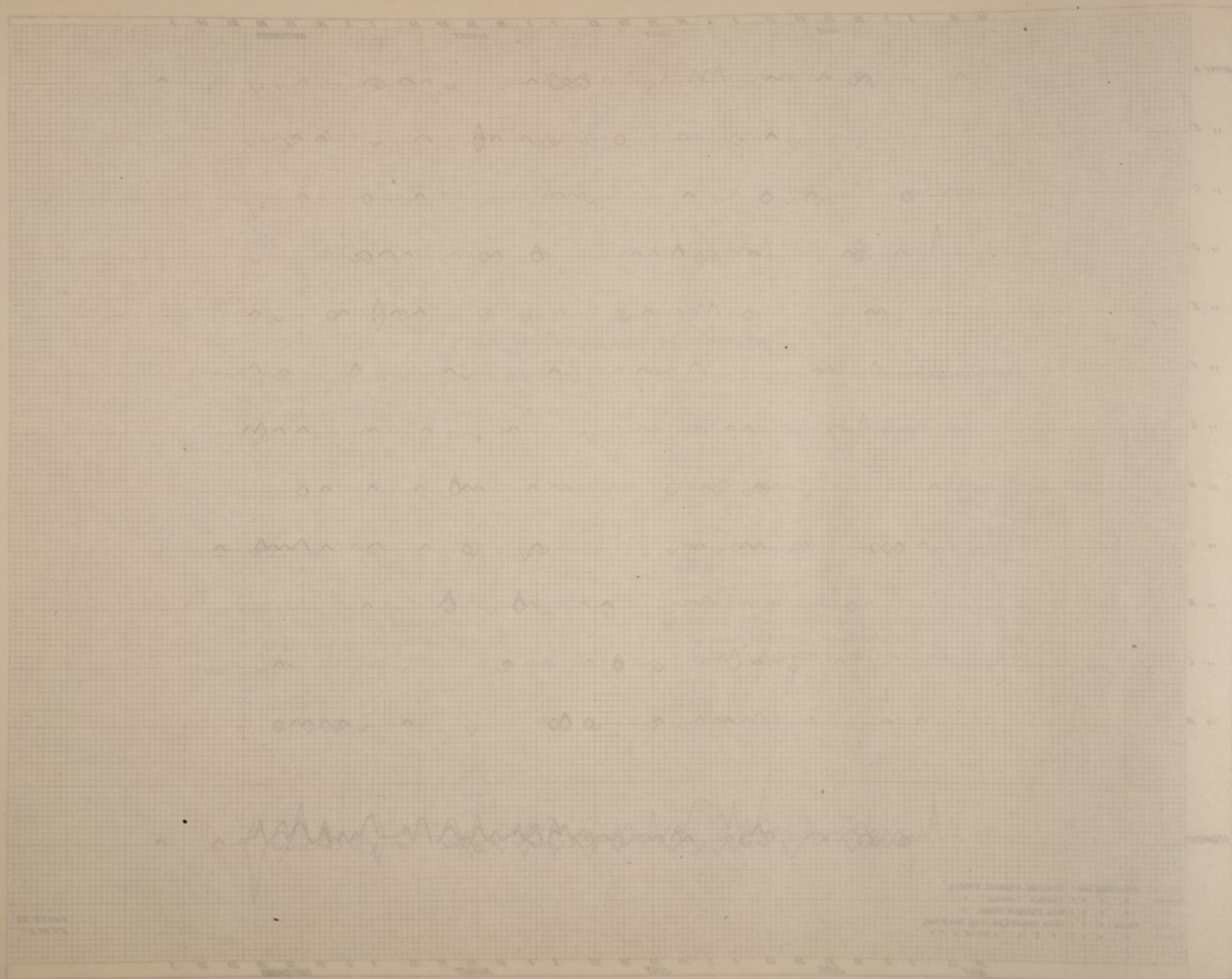
Morbidity:

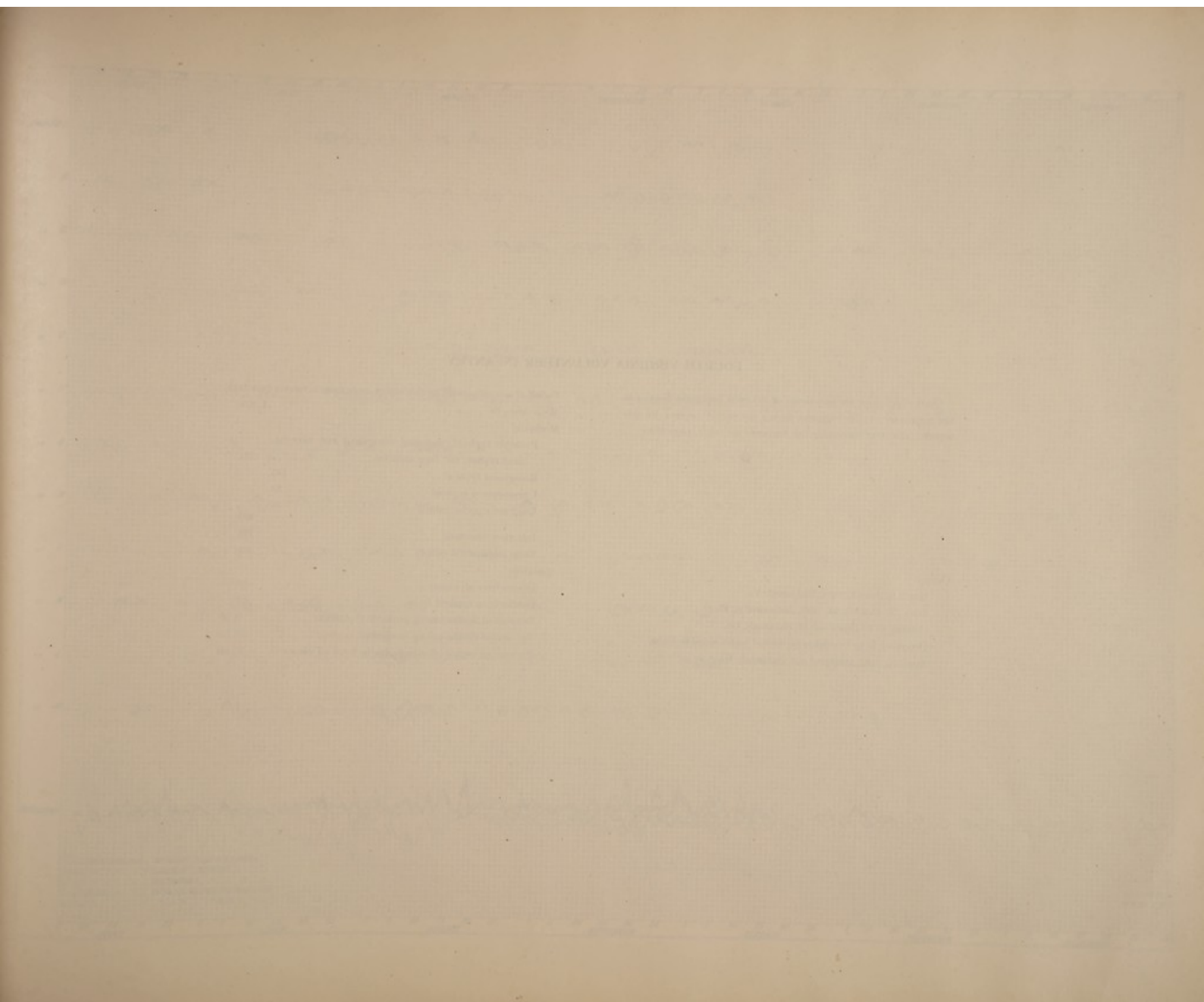
Probable typhoid, including recognized and unrecognized typhoid and long malarias	152
Recognized typhoid	105
Unrecognized typhoid	15
Long malarias (so called)	32
.....	152
Intestinal disorders	168
Short malarias (so called)	88

Mortality:

Deaths from all causes	20
Deaths from typhoid fever	17
Per cent of deaths among probable typhoid	11.18
Per cent of deaths among recognized typhoid	16.19
Per cent of typhoid deaths to deaths from all causes ...	85.00







FOURTH VIRGINIA VOLUNTEER INFANTRY.

Chart 87, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 592.)

Camps:

May 9 to June 5, 1898, Richmond, Va.
June 7 to October 25, 1898, Jacksonville, Fla.
October 27 to December 15, Savannah, Ga.
December 21 to December 31, 1898, Camp Columbia, Cuba.
April 27, 1899, mustered out, Savannah, Ga.

Period of service covered by this report seven months twenty-two days.

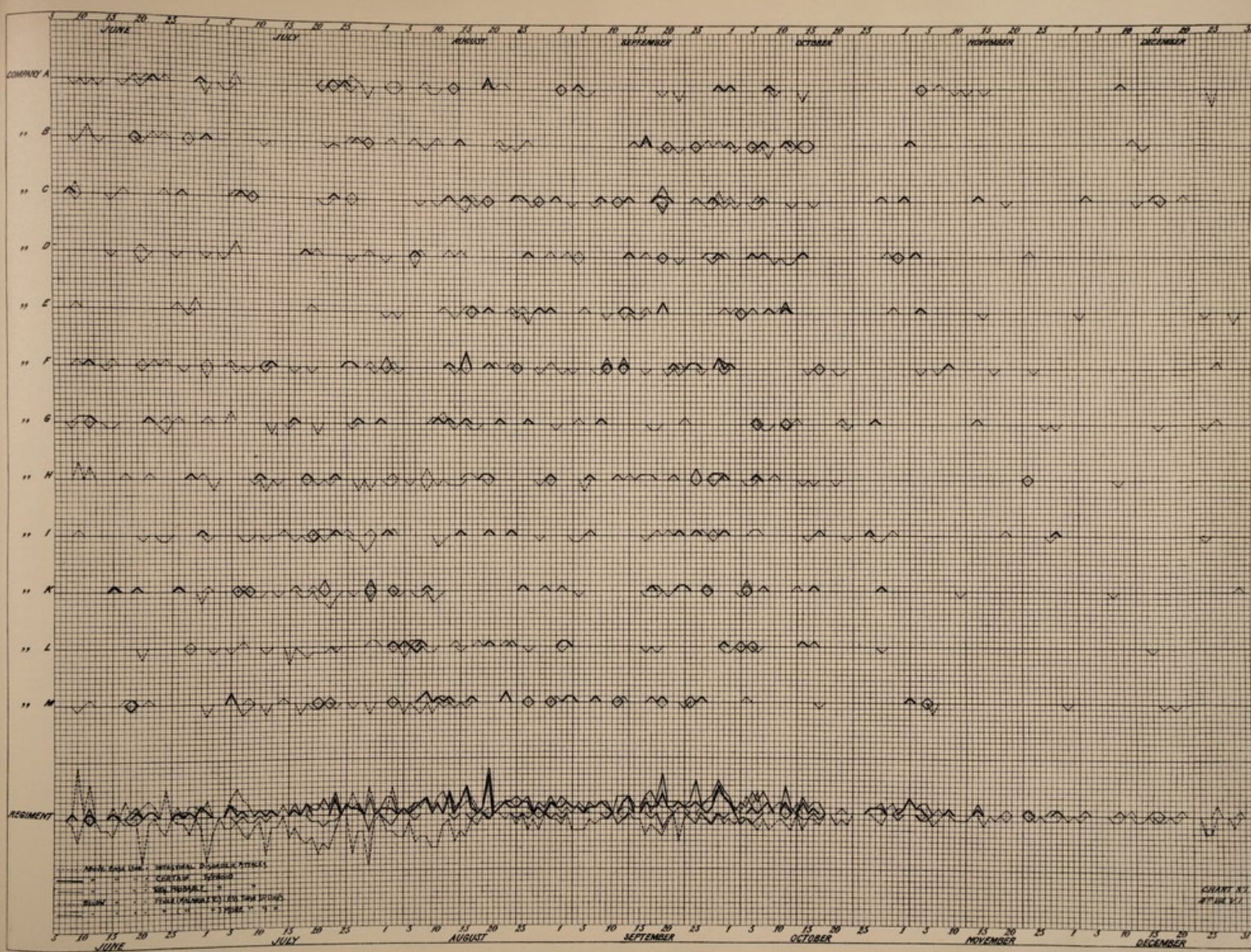
Mean strength..... 1,274

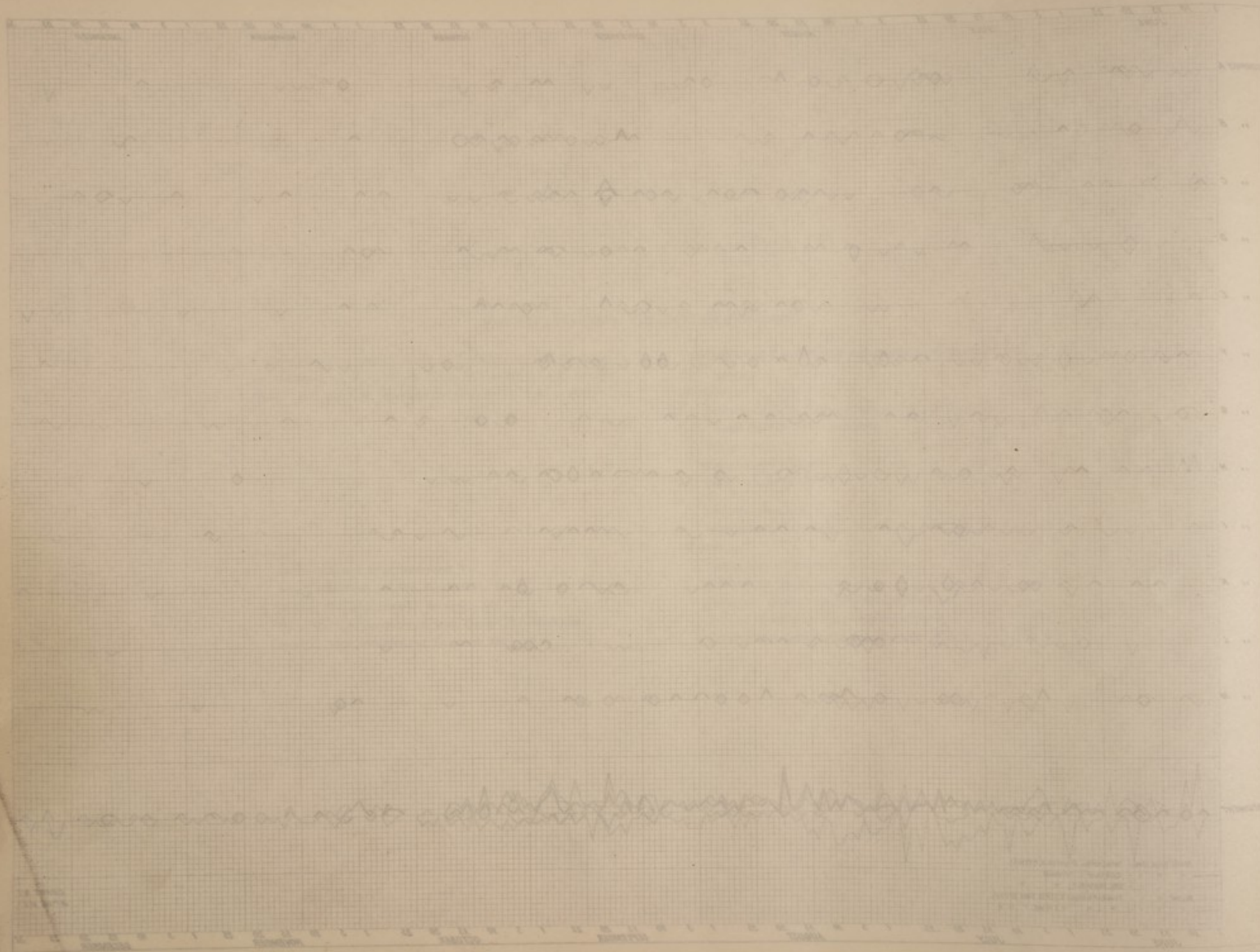
Morbidity:

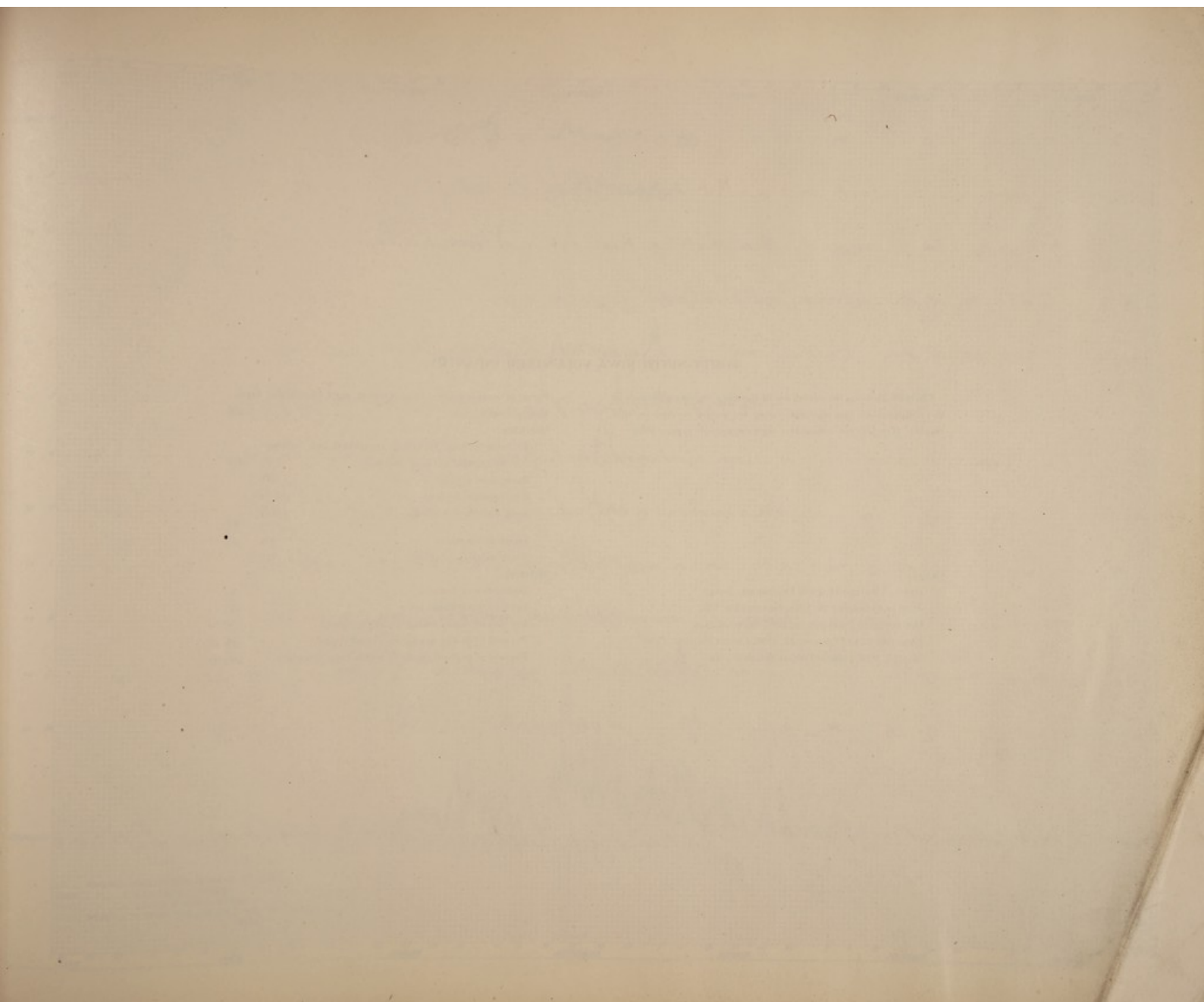
Probable typhoid, including recognized and unrecognized typhoid and long malarias	231
Recognized typhoid	135
Unrecognized typhoid	38
Long malarias (so called)	58
Intestinal disorders	191
Short malarias (so called)	335

Mortality:

Deaths from all causes	28
Deaths from typhoid fever	21
Per cent of deaths among probable typhoid	9.09
Per cent of deaths among recognized typhoid	15.55
Per cent of typhoid deaths to deaths from all causes ..	75.00







FORTY-NINTH IOWA VOLUNTEER INFANTRY.

Chart 88, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 599.)

Camps:

April 26 to June 11, 1898, Des Moines, Iowa.
June 14 to October 25, 1898, Jacksonville, Fla.
October 26 to December 19, 1898, Savannah, Ga.
December 23 to December 31, 1898, Camp Columbia, Cuba.
May 13, 1899, mustered out at Savannah, Ga.

Period of service covered by this report, eight months five days.

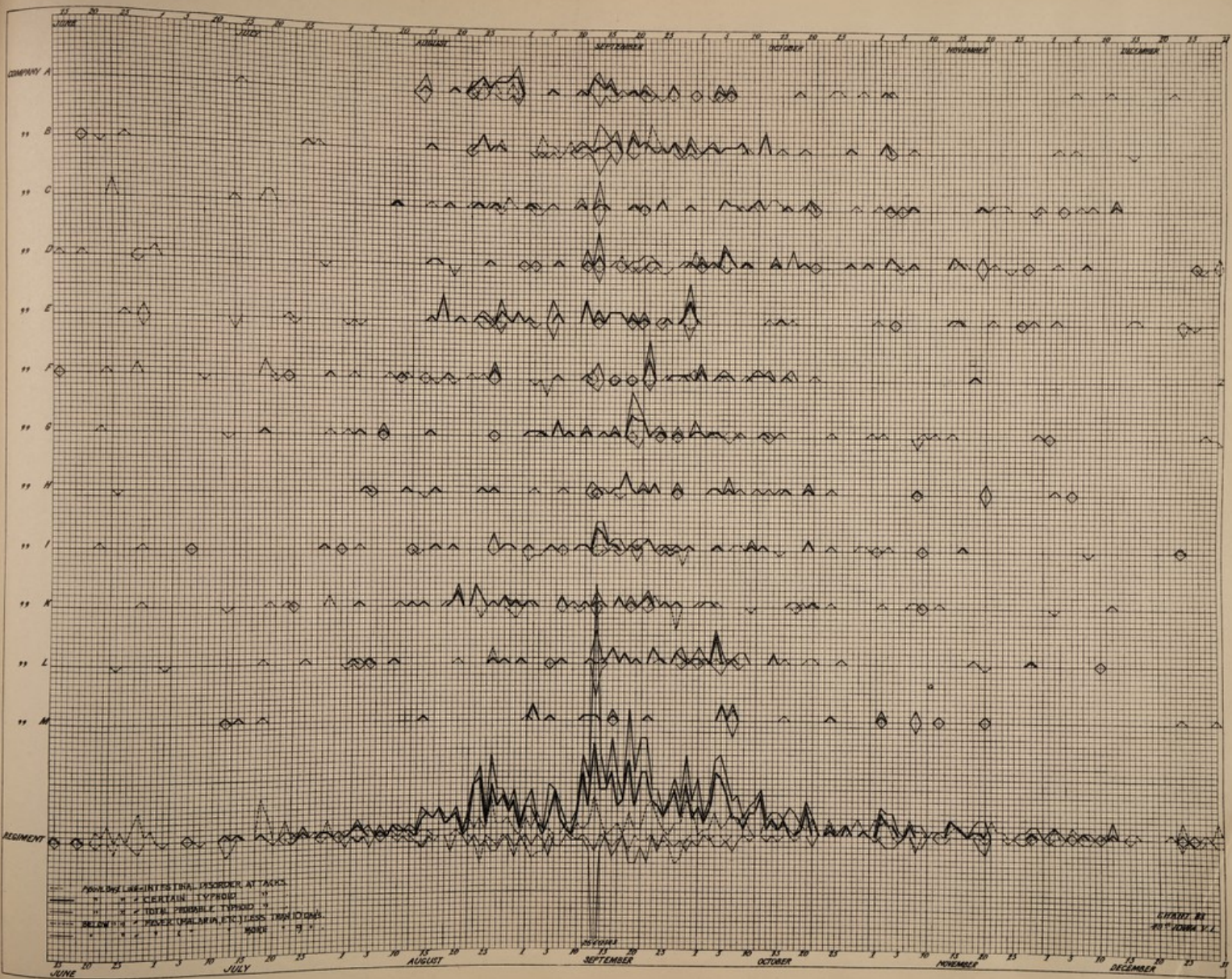
Mean strength 1,236

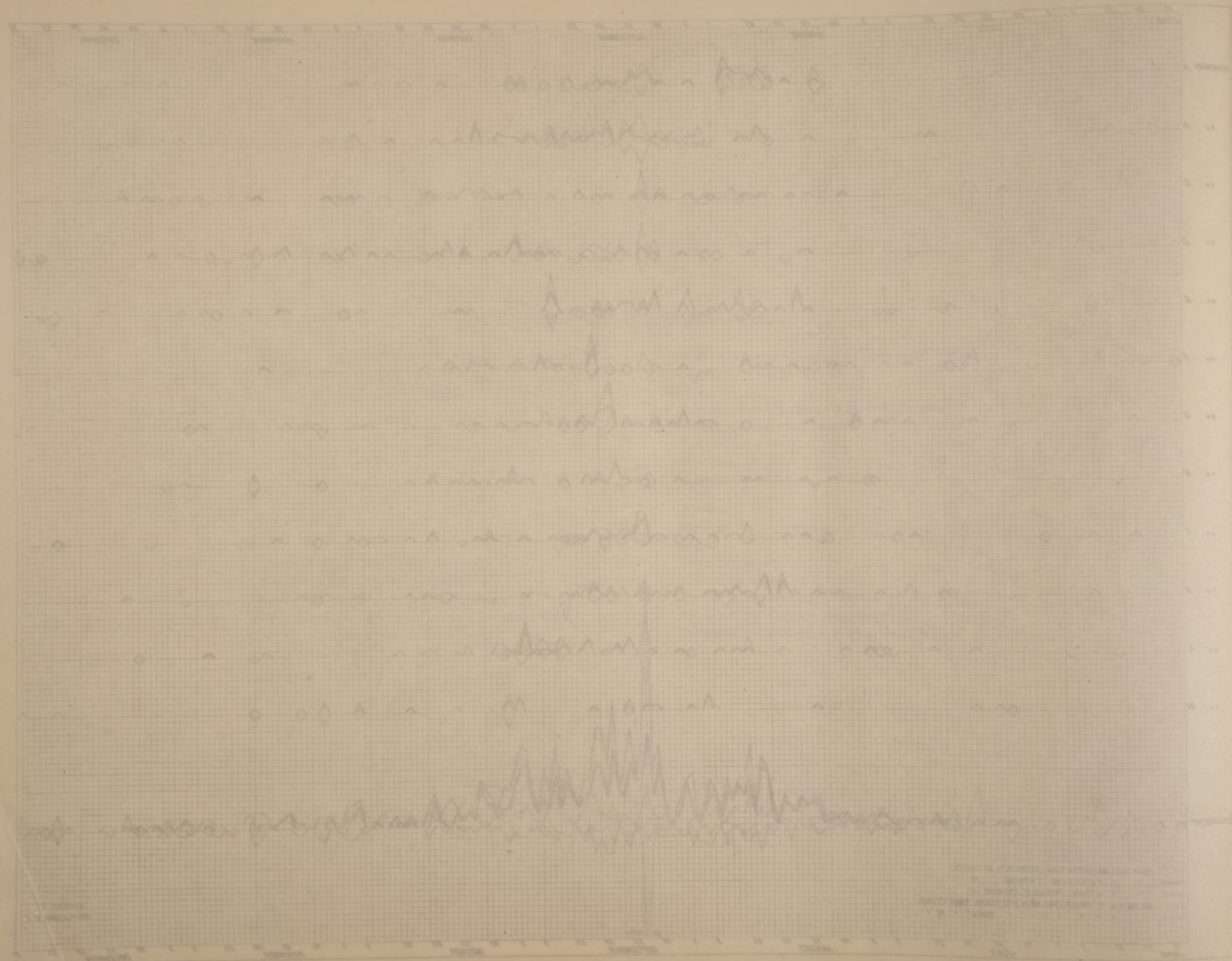
Morbidity:

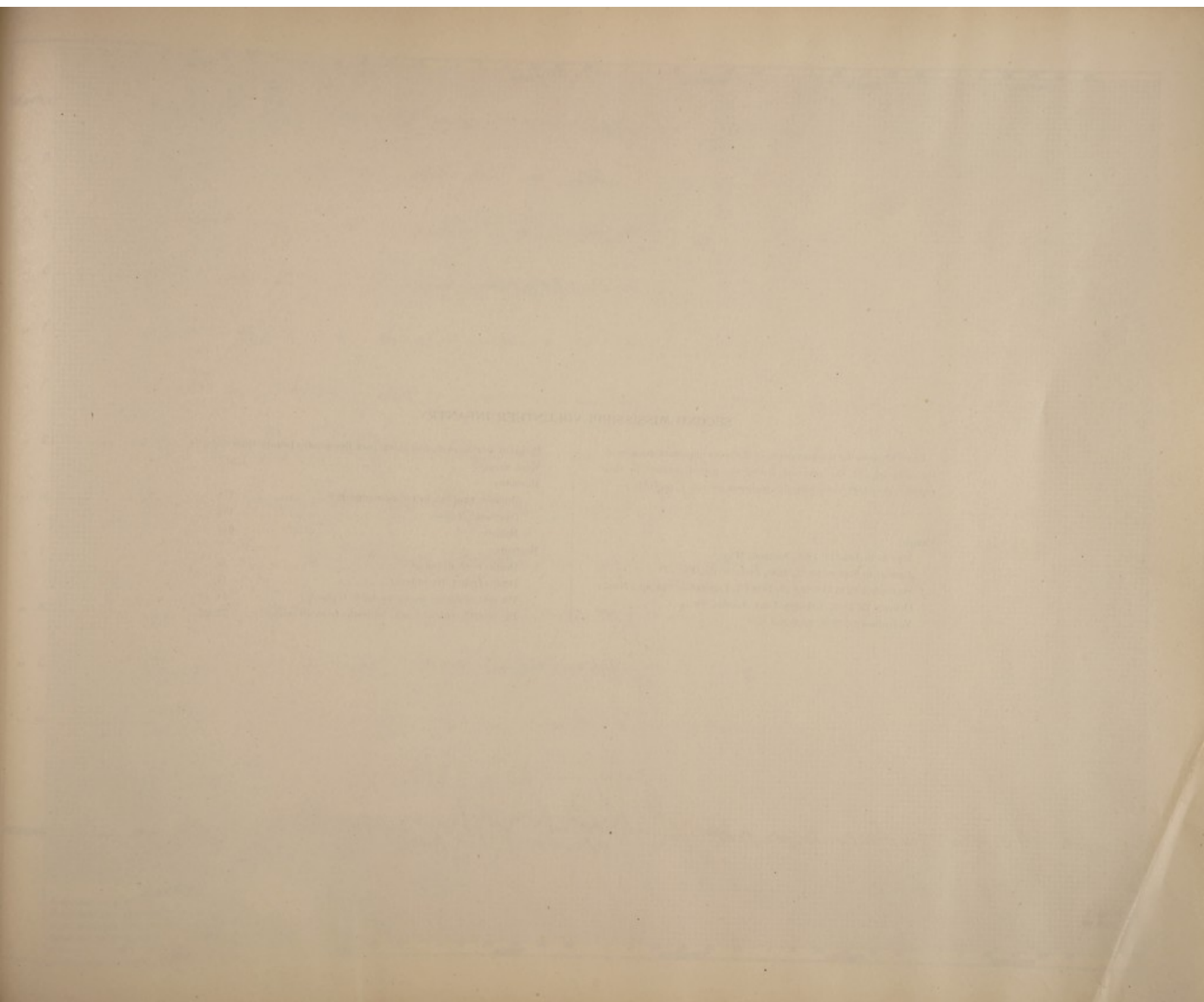
Probable typhoid, including recognized and unrecognized typhoid and long malarias	612
Recognized typhoid	378
Unrecognized typhoid	93
Long malarias (so called)	141
.....	612
Intestinal disorders	234
Short malarias (so called)	110

Mortality:

Deaths from all causes	50
Deaths from typhoid fever	50
Per cent of deaths among probable typhoid	8.16
Per cent of deaths among recognized typhoid	13.22
Per cent of typhoid deaths to deaths from all causes ...	100.00







SECOND MISSISSIPPI VOLUNTEER INFANTRY.

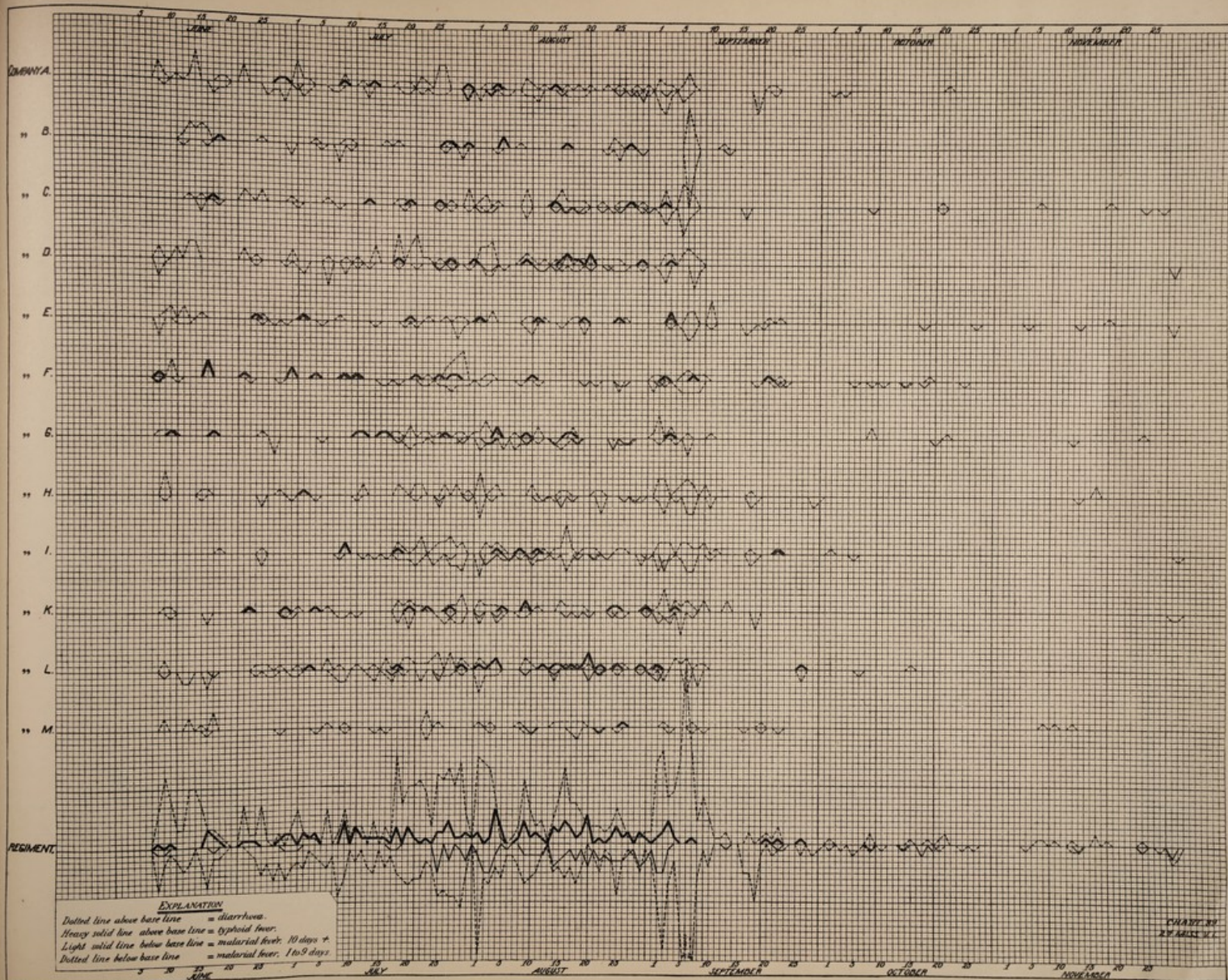
Chart 89, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 611.)

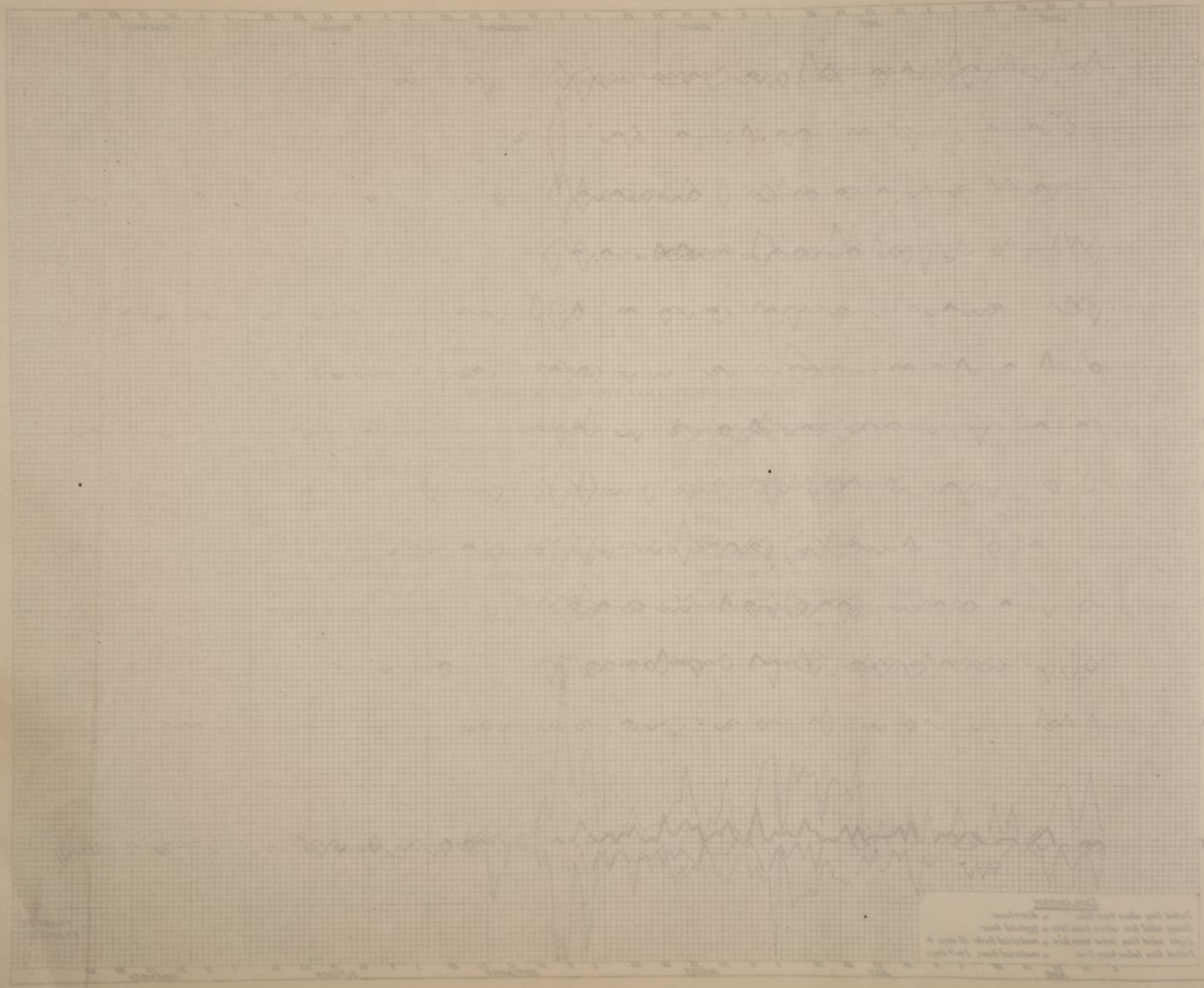
Camps:

May 26 to June 19, 1898, Jackson, Miss.
 June 21 to September 12, 1898, Jacksonville, Fla.
 September 12 to October 19, 1898 (†), Lauderdale Springs, Miss.
 October 19, 1898, furloughed at Columbia, Tenn.
 November 28, 1898, mustered out.

Period of service covered by this report, five months twenty-three days.

Mean strength.....	1,217
Morbidity:	
Probable typhoid, including recognized	118
Diarrhœal diseases	454
Malarias	614
Mortality:	
Deaths from all causes.....	22
Deaths from typhoid fever.....	17
Per cent of deaths among probable typhoid.....	14.40
Per cent of typhoid deaths to deaths from all causes...	77.27







FOURTH ILLINOIS VOLUNTEER INFANTRY.

Chart 90, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 616.)

Camps:

May 20 to May 26, 1898, Springfield, Ill.
May 29 to October 25, 1898, Jacksonville, Fla.
October 25 to December 31, 1898, Savannah, Ga.

Period of service covered by this report, seven months eleven days.

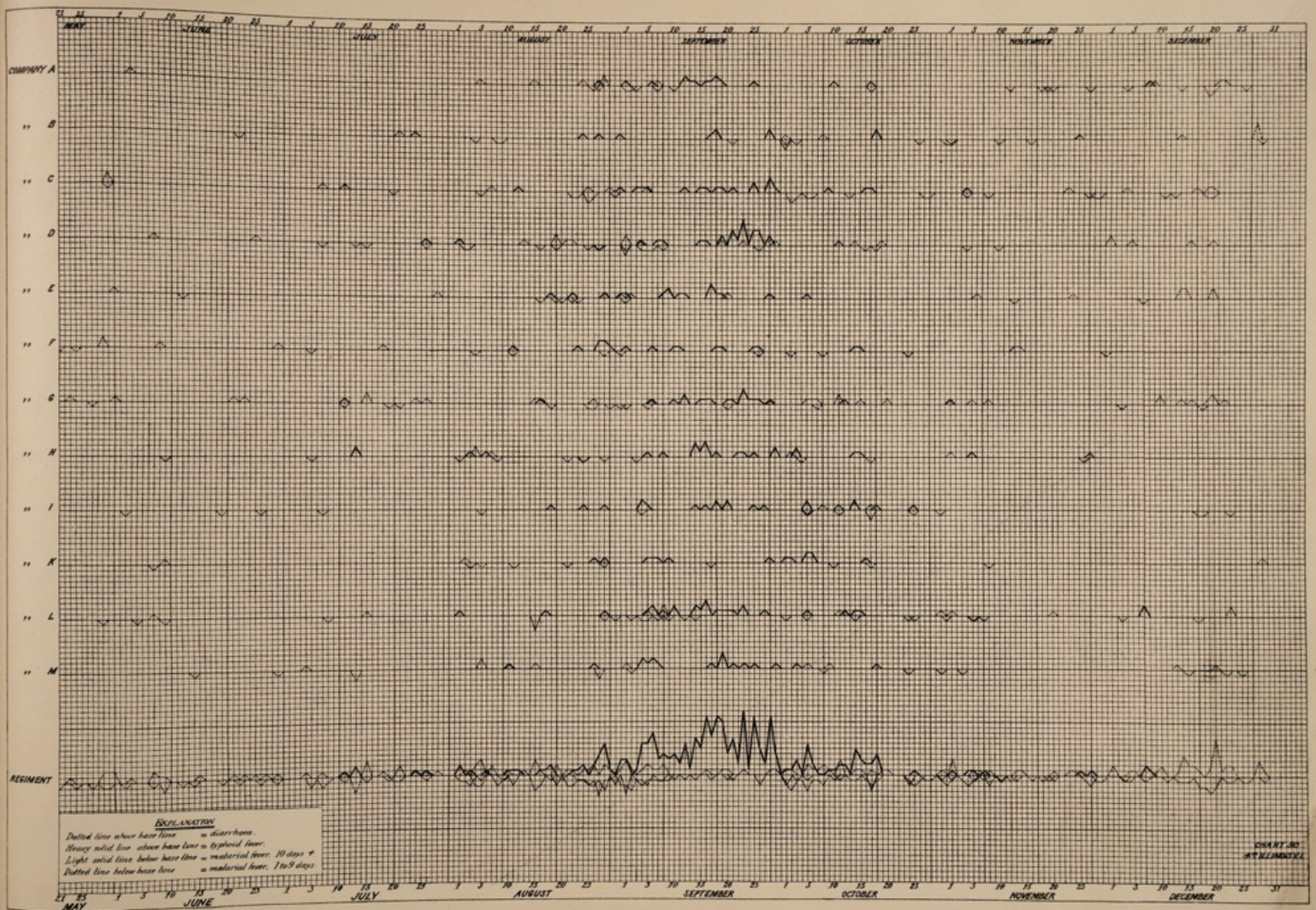
Mean strength..... 1,194

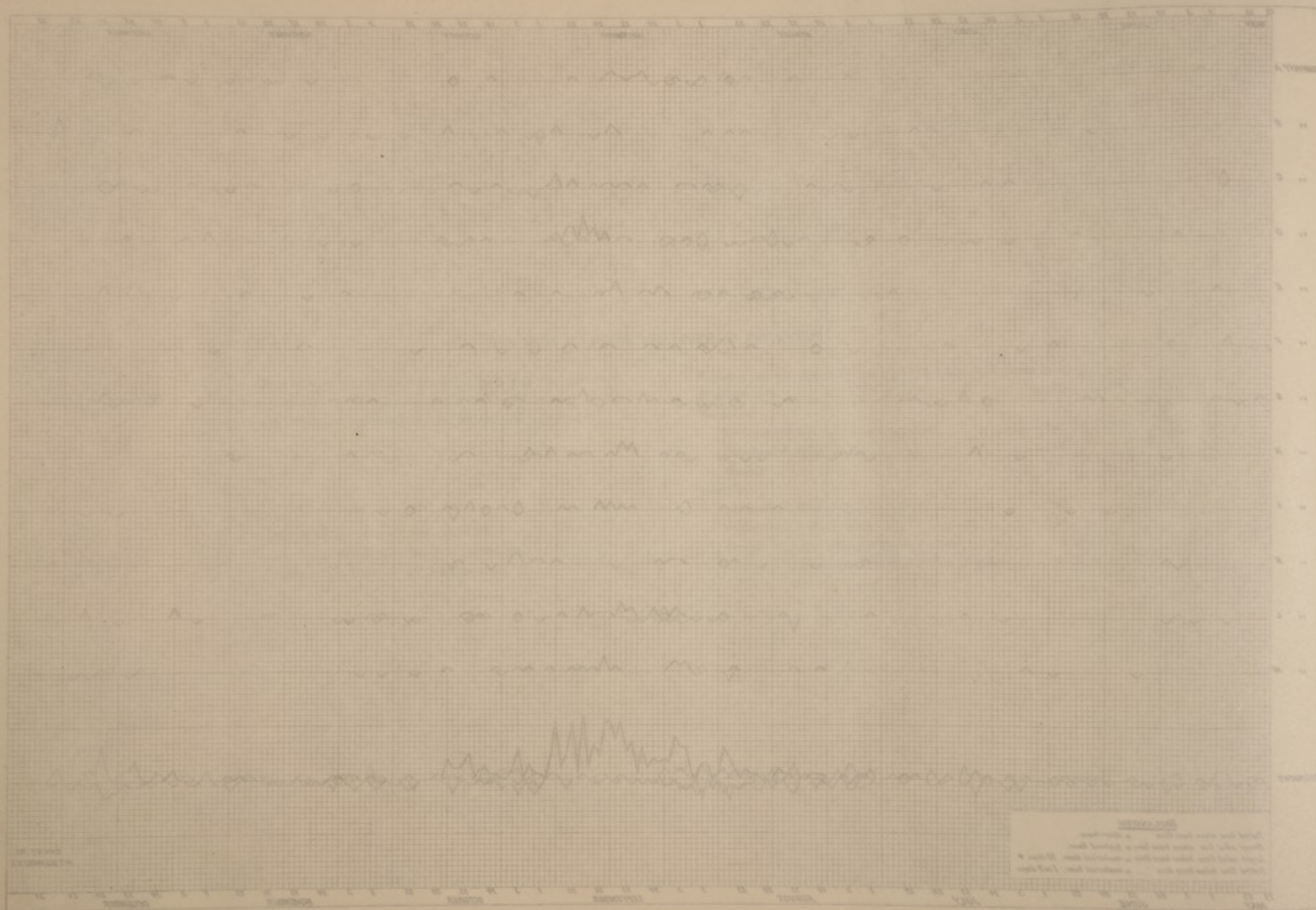
Morbidity:

Probable typhoid, including recognized 238
Diarrhoeal diseases 115
Malarias 200

Mortality:

Deaths from all causes 25
Deaths from typhoid fever 20
Per cent of deaths among probable typhoid 8.40
Per cent of typhoid deaths to deaths from all causes... 80





UNITED STATES GOVERNMENT

THE SECRETARY OF THE INTERIOR
WASHINGTON, D. C.
JANUARY 1, 1900

TO THE SECRETARY OF THE INTERIOR
WASHINGTON, D. C.

FROM THE SECRETARY OF THE INTERIOR
WASHINGTON, D. C.

SUBJECT: [Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

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FIRST SOUTH CAROLINA VOLUNTEER INFANTRY.

Chart 91, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 621.)

Camps:

May 3 to 30 to June 6, 1898, Columbia, S. C.
June 7 to July 29, 1898, Chickamauga, Ga.
July 29 to September 24, Jacksonville, Fla.
September 24, mustered out at Columbia, S. C.

Period of service covered by this report, three months twenty-three days.

Mean strength	—
Morbidity:	
Probable typhoid	55
Mortality:	
Deaths from all causes.....	7
Deaths from typhoid fever	2
Per cent of deaths among probable typhoid	3.8
Per cent of typhoid deaths to deaths from all causes ...	28.57

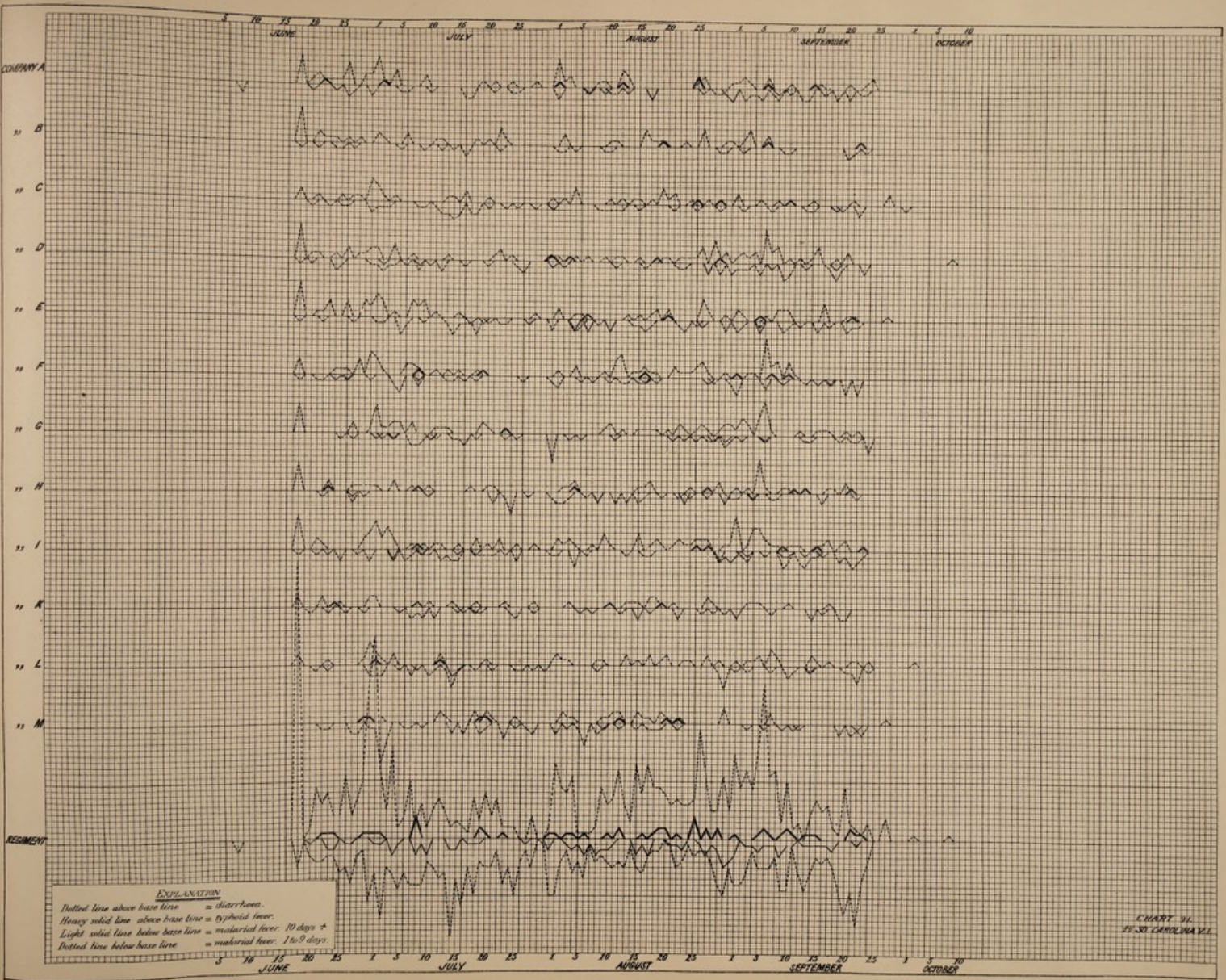


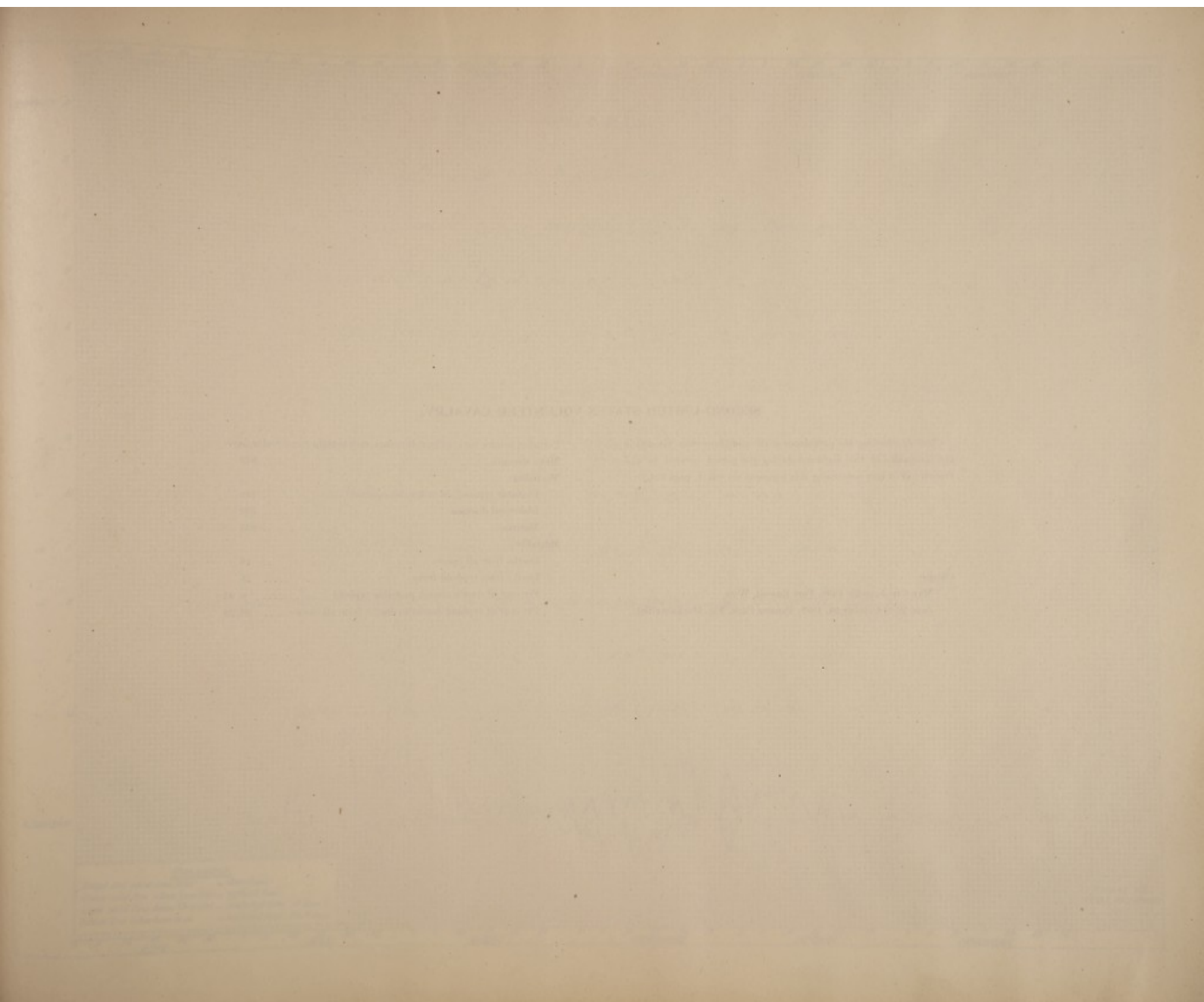
CHART 31.
1ST REG. CAROLINA V.I.

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

Handwritten text in cursive script, appearing to be a letter or a journal entry. The text is written on a grid background and is mostly illegible due to fading and the style of the handwriting. It appears to be a continuous paragraph of text.



Small printed text in the bottom right corner, likely a footer or a note. It contains several lines of text, including what appears to be a date and some descriptive information, but it is too small to read accurately.



SECOND UNITED STATES VOLUNTEER CAVALRY.

Chart 92, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 624.)

Camps:

May 6 to June 22, 1898, Fort Russell, Wyo.
June 28 to October 24, 1898, Panama Park, Fla. (Jacksonville).

Period of service covered by this report, four months twenty-nine days.

Mean strength..... 919

Morbidity:

Probable typhoid, including recognized 151

Diarrhoeal diseases 399

Malarias 233

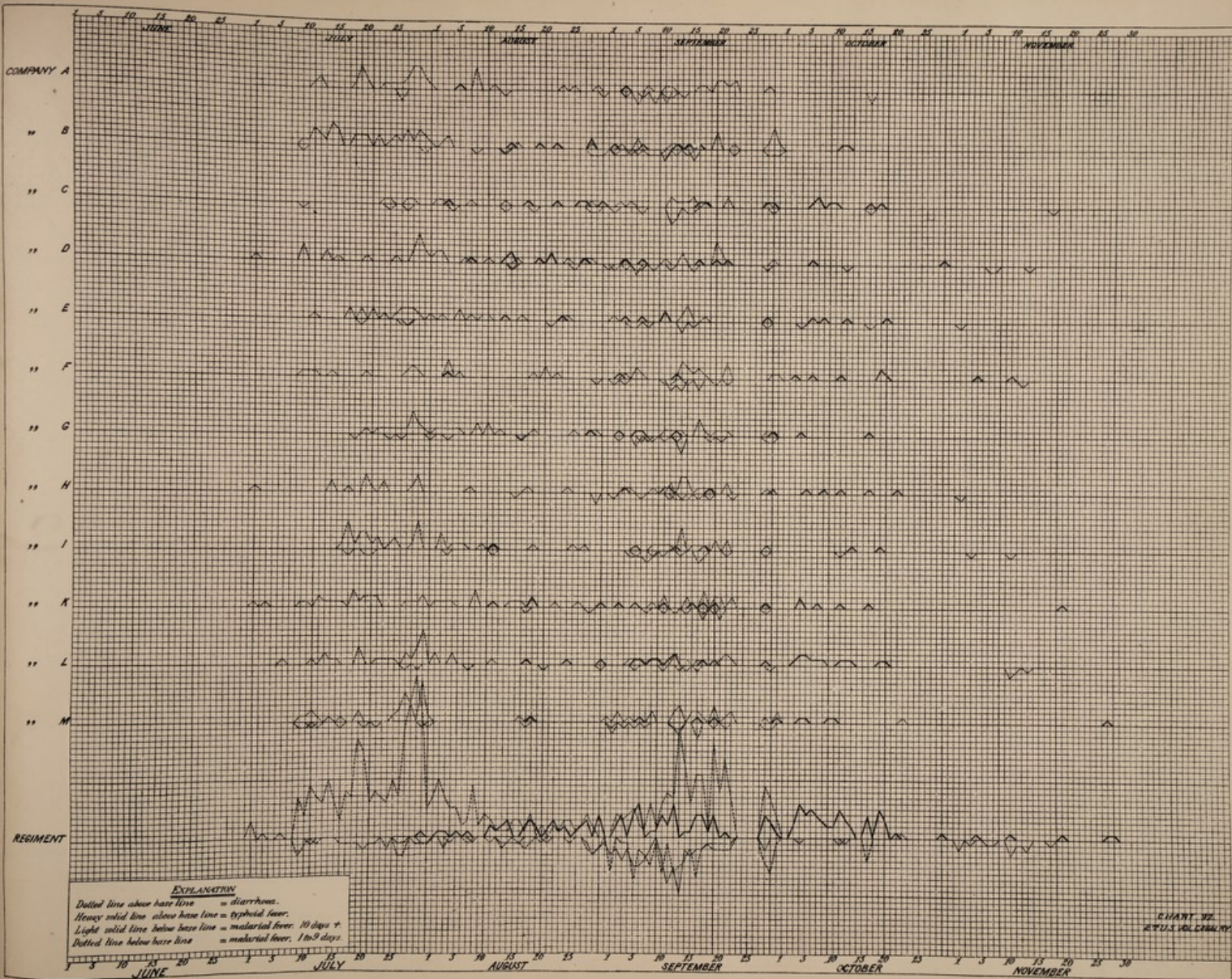
Mortality:

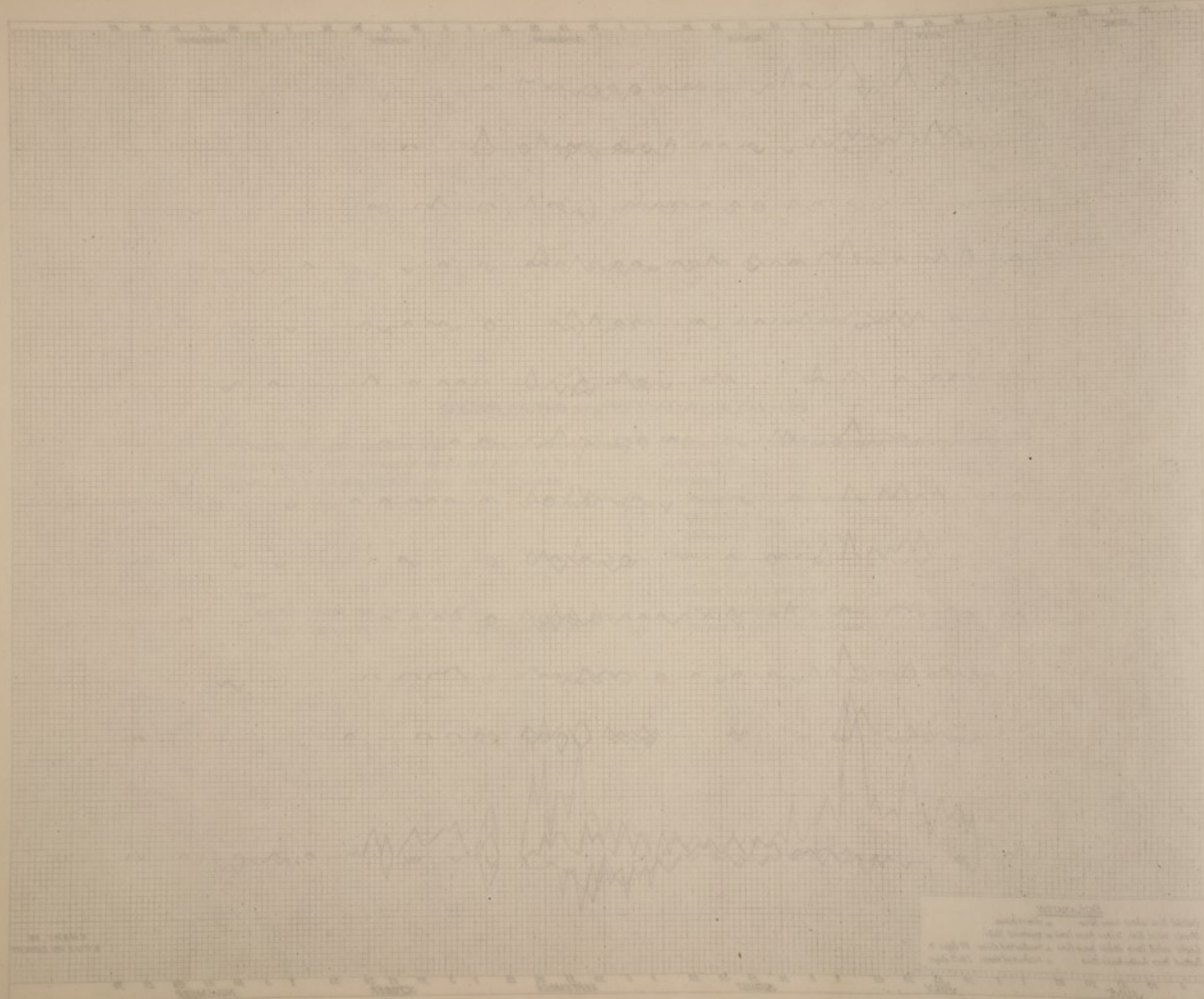
Deaths from all causes..... 18

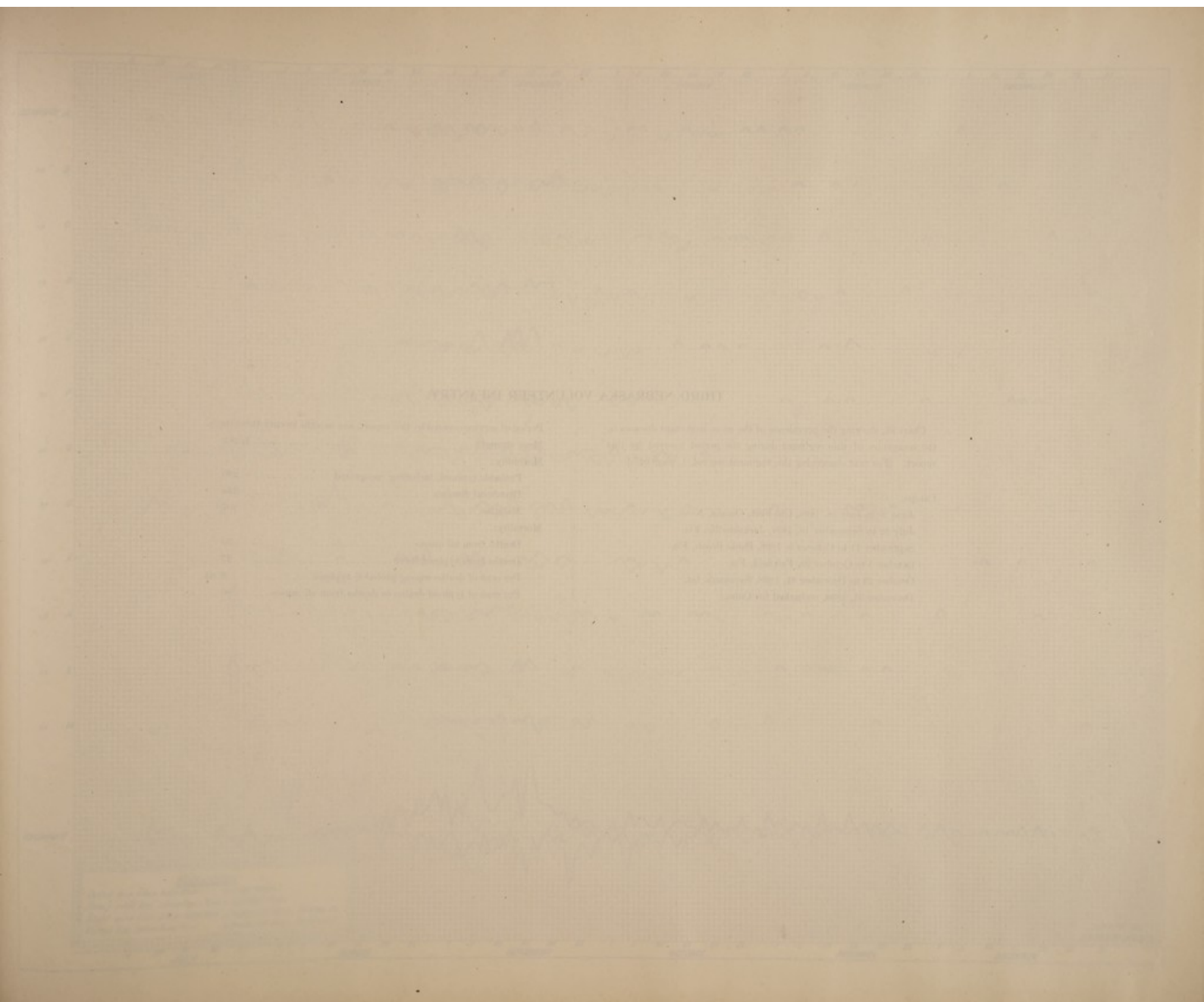
Deaths from typhoid fever..... 15

Per cent of deaths among probable typhoid 9.93

Per cent of typhoid deaths to deaths from all causes..... 83.33







THIRD NEBRASKA VOLUNTEER INFANTRY.

Chart 93, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 627.)

Camps:

June 20 to July 18, 1898, Old Fort, Omaha, Nebr.
 July 22 to September 10, 1898, Jacksonville, Fla.
 September 11 to October 5, 1898, Pablo Beach, Fla.
 October 5 to October 23, Fairfield, Fla.
 October 23 to December 31, 1898, Savannah, Ga.
 December 31, 1898, embarked for Cuba.

Period of service covered by this report, five months twenty-three days.

Mean strength 1,262

Morbidity:

Probable typhoid, including recognized 280

Diarrhoeal diseases 344

Malarias 307

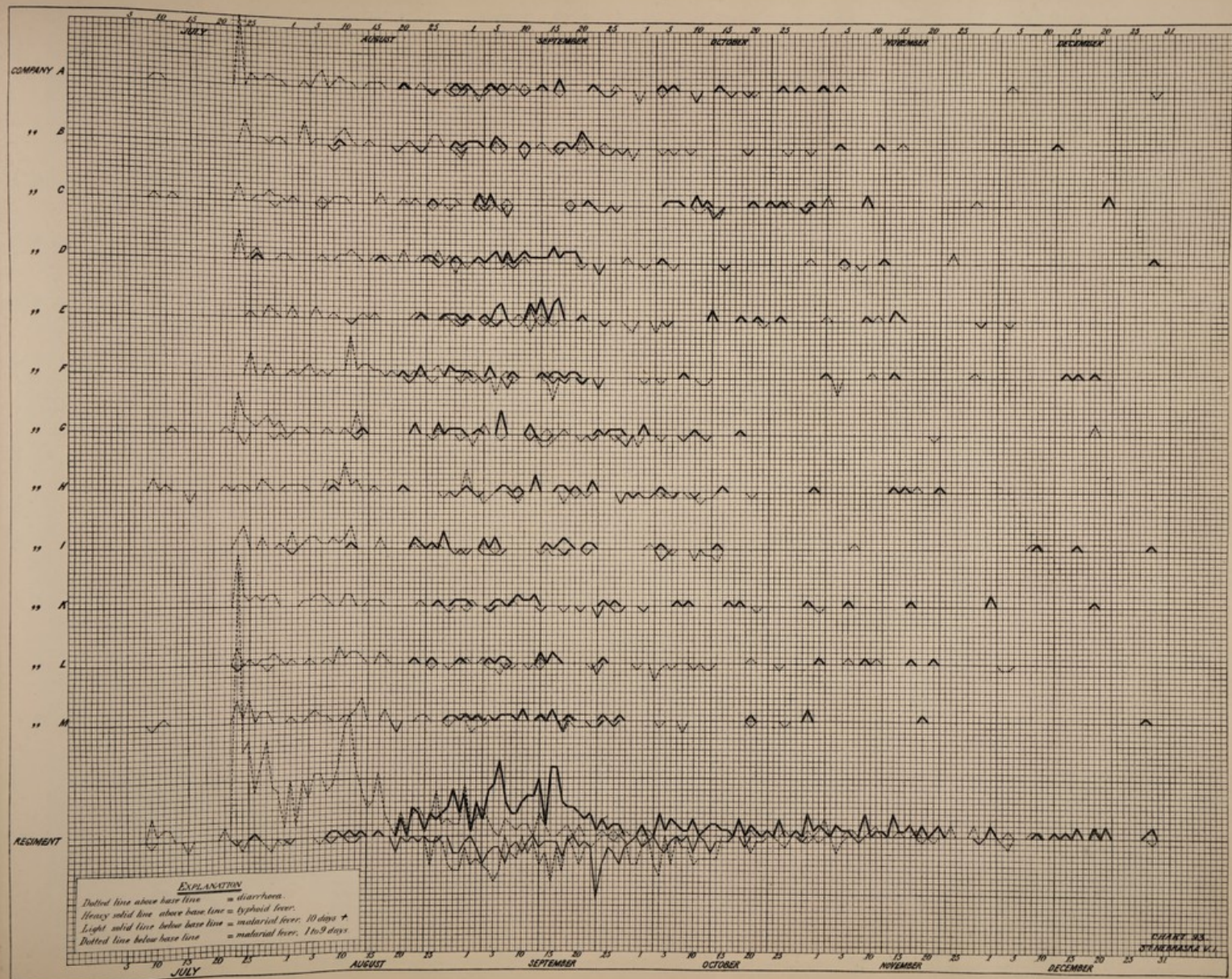
Mortality:

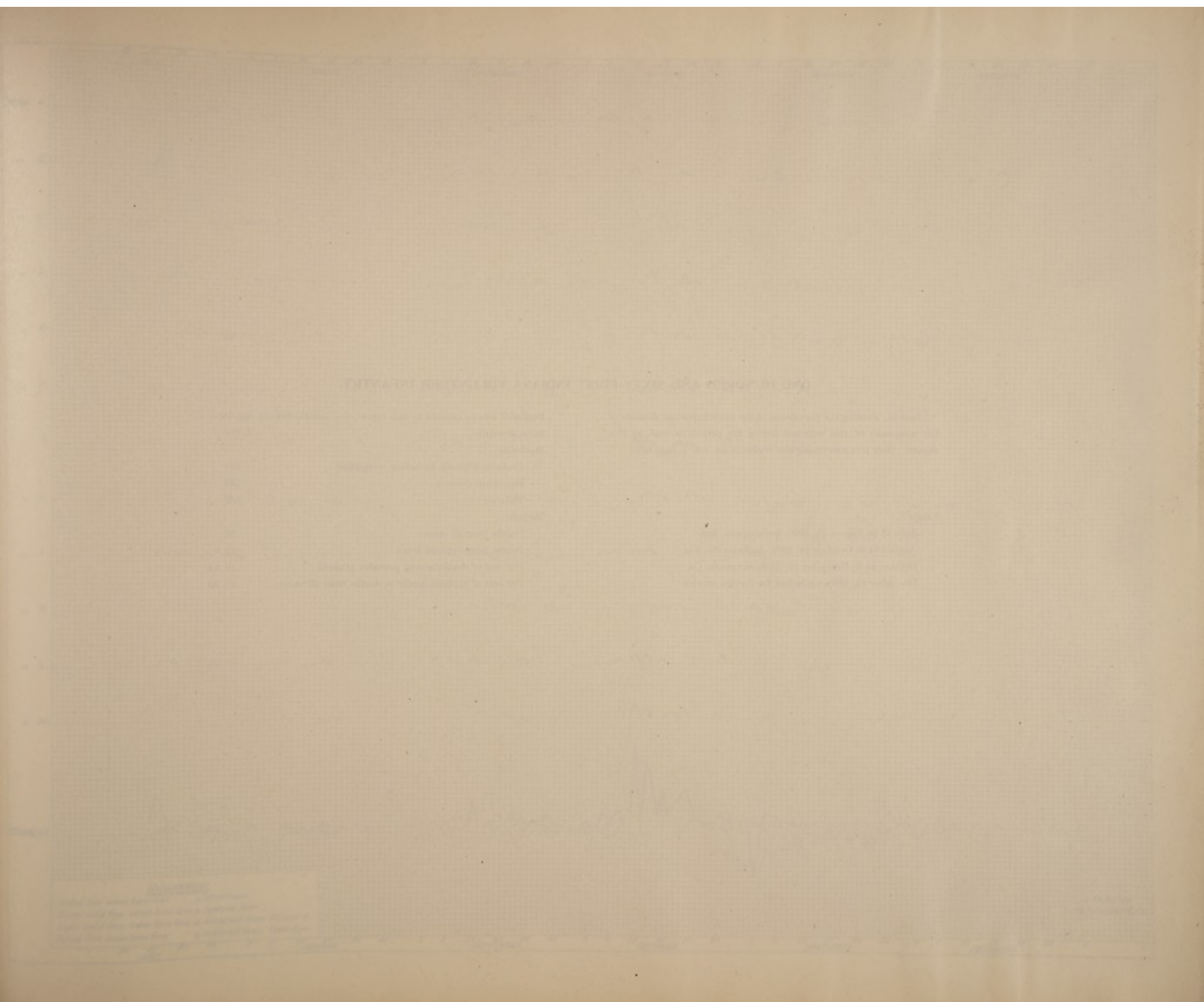
Deaths from all causes 30

Deaths from typhoid fever 27

Per cent of deaths among probable typhoid 9.64

Per cent of typhoid deaths to deaths from all causes ... 90





ONE HUNDRED AND SIXTY-FIRST INDIANA VOLUNTEER INFANTRY.

Chart 94, showing the prevalence of the more important diseases in the companies of this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 631.)

Camps:

July 15 to August 11, 1898, Indianapolis, Ind.
 August 14 to October 24, 1898, Jacksonville, Fla.
 October 24 to December 12, 1898, Savannah, Ga.
 December 12, 1898, embarked for foreign service.

Period of service covered by this report, five months twenty-one days.

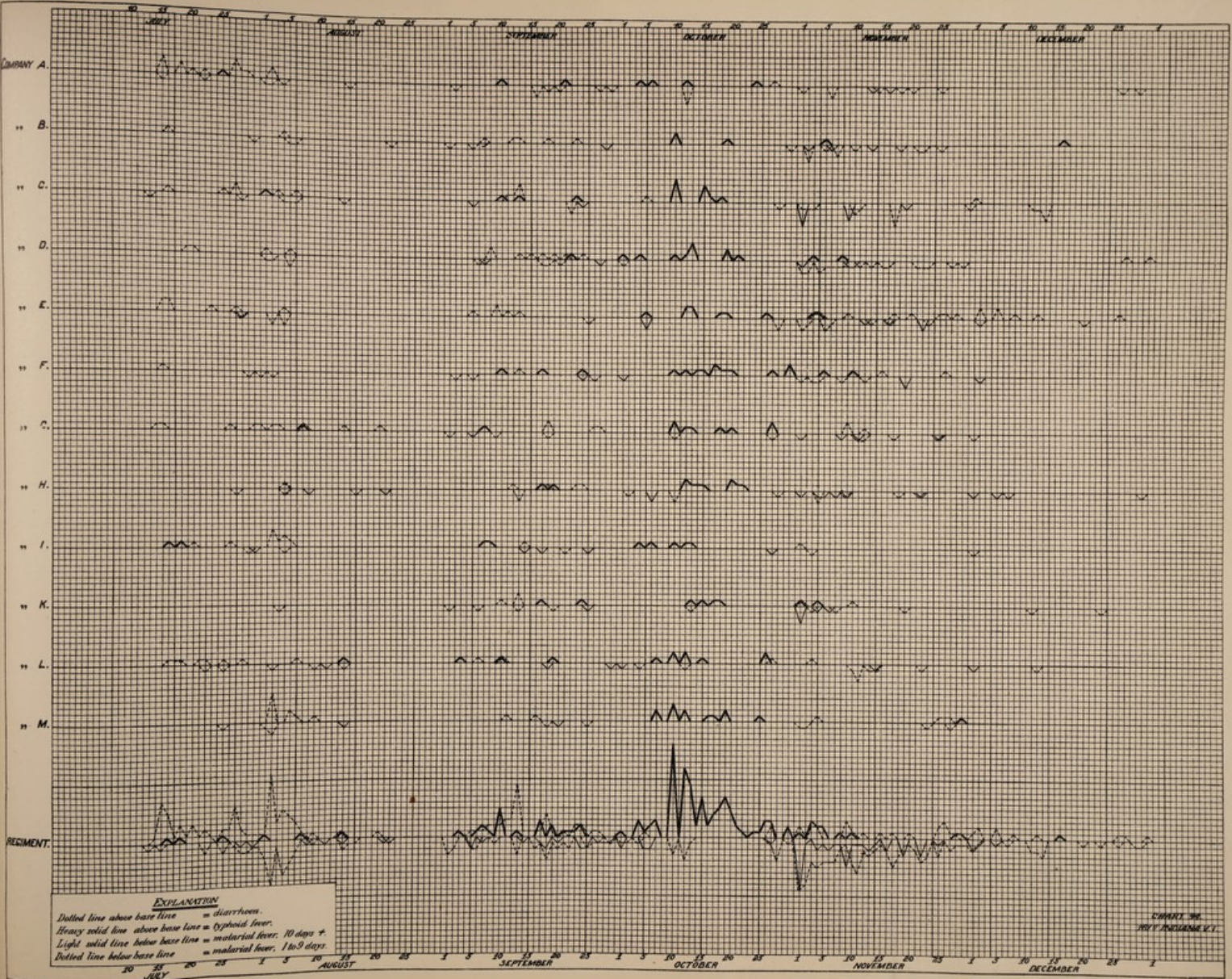
Mean strength..... 1,304

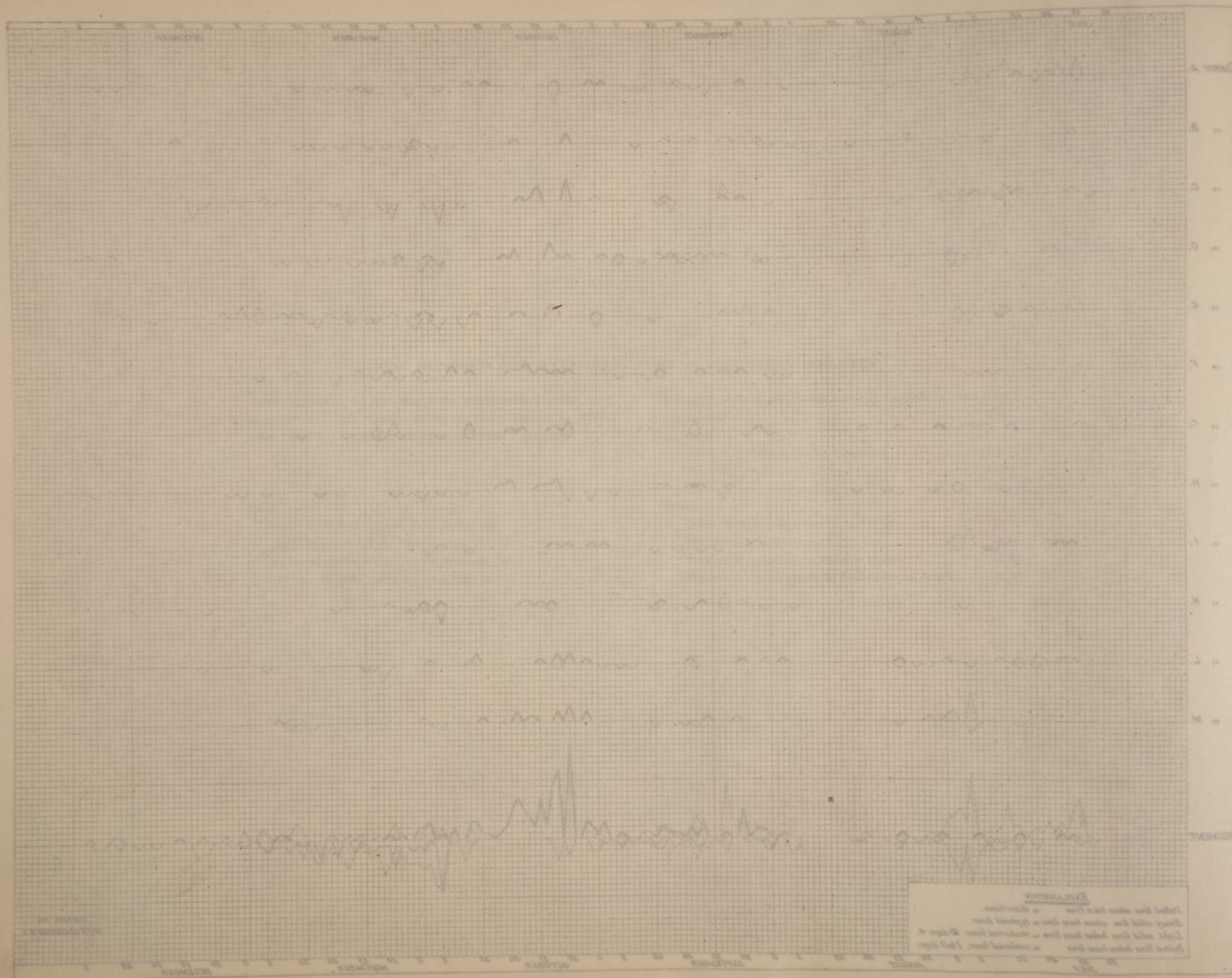
Morbidity:

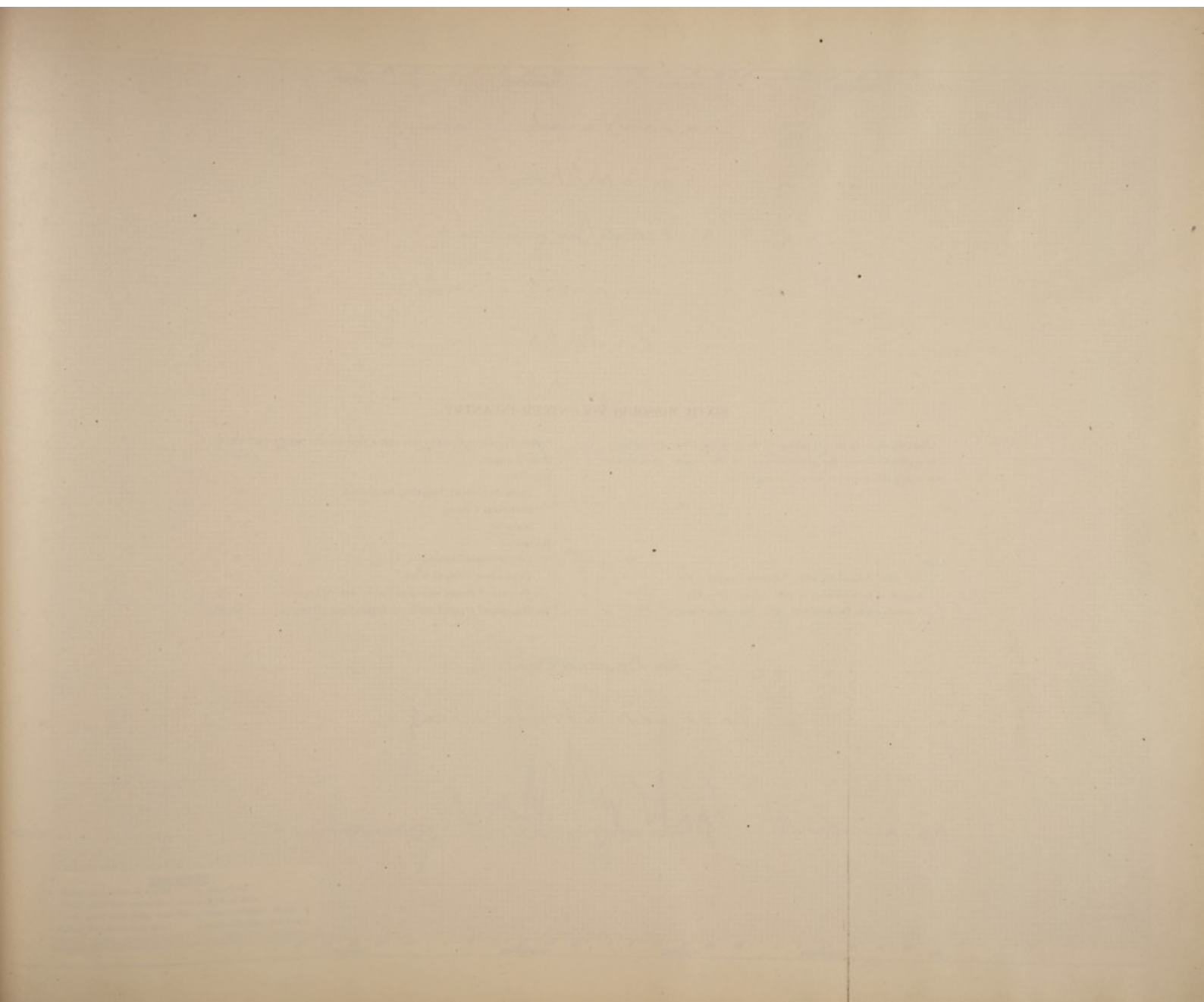
Probable typhoid, including recognized..... 134
 Diarrhoeal diseases..... 133
 Malarias..... 299

Mortality:

Deaths from all causes..... 15
 Deaths from typhoid fever..... 14
 Per cent of deaths among probable typhoid..... 10.44
 Per cent of typhoid deaths to deaths from all causes... 93.33







SIXTH MISSOURI VOLUNTEER INFANTRY.

Chart 95, showing the prevalence of the more important diseases in this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 633.)

Camps:

July 23 to August 11, 1898, Jefferson Barracks, Mo.
August 15 to November 6, 1898, Jacksonville, Fla.
November 6 to December 21, 1898, Savannah, Ga.

Period of service covered by this report, four months twenty-eight days.

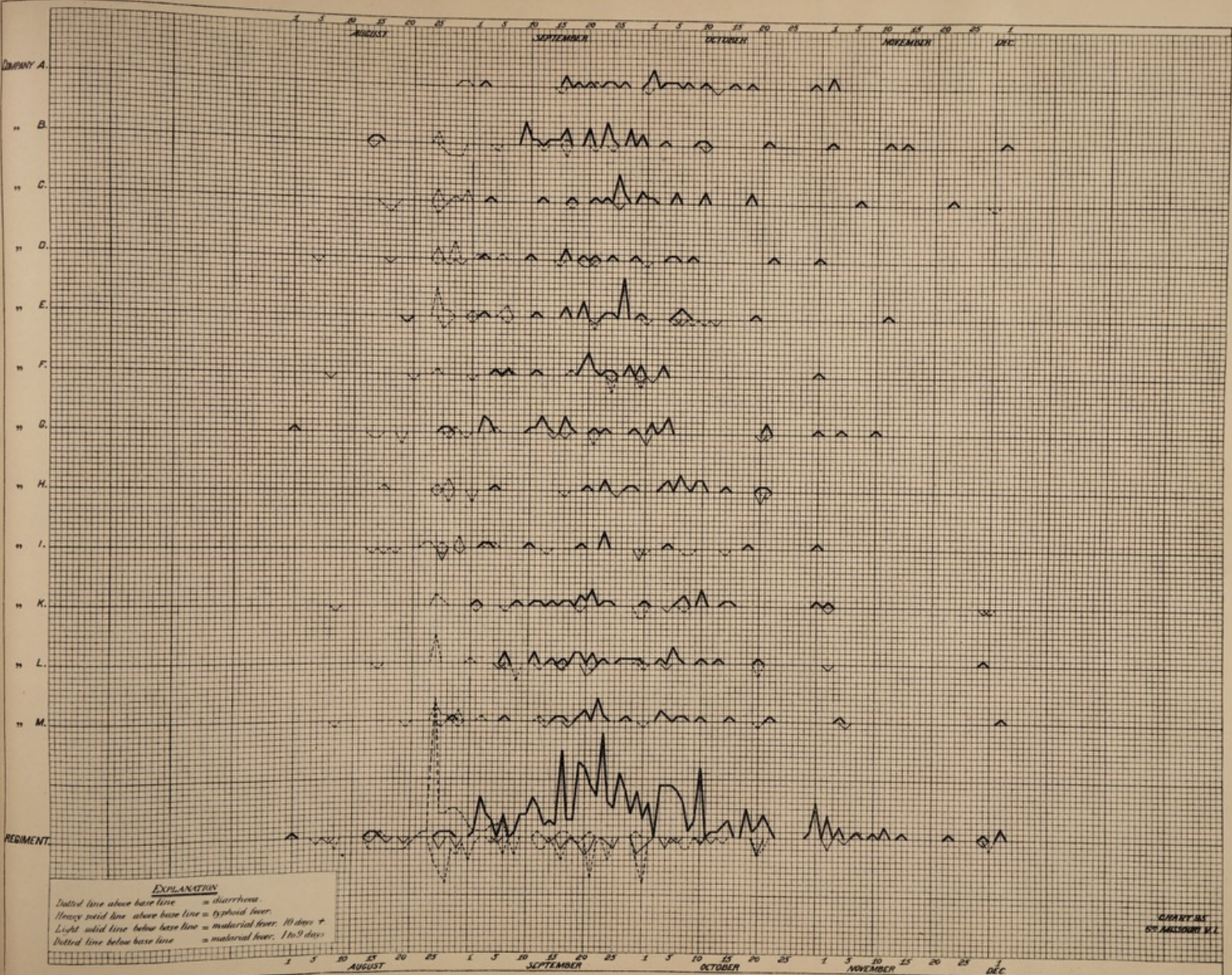
Mean strength 1,149

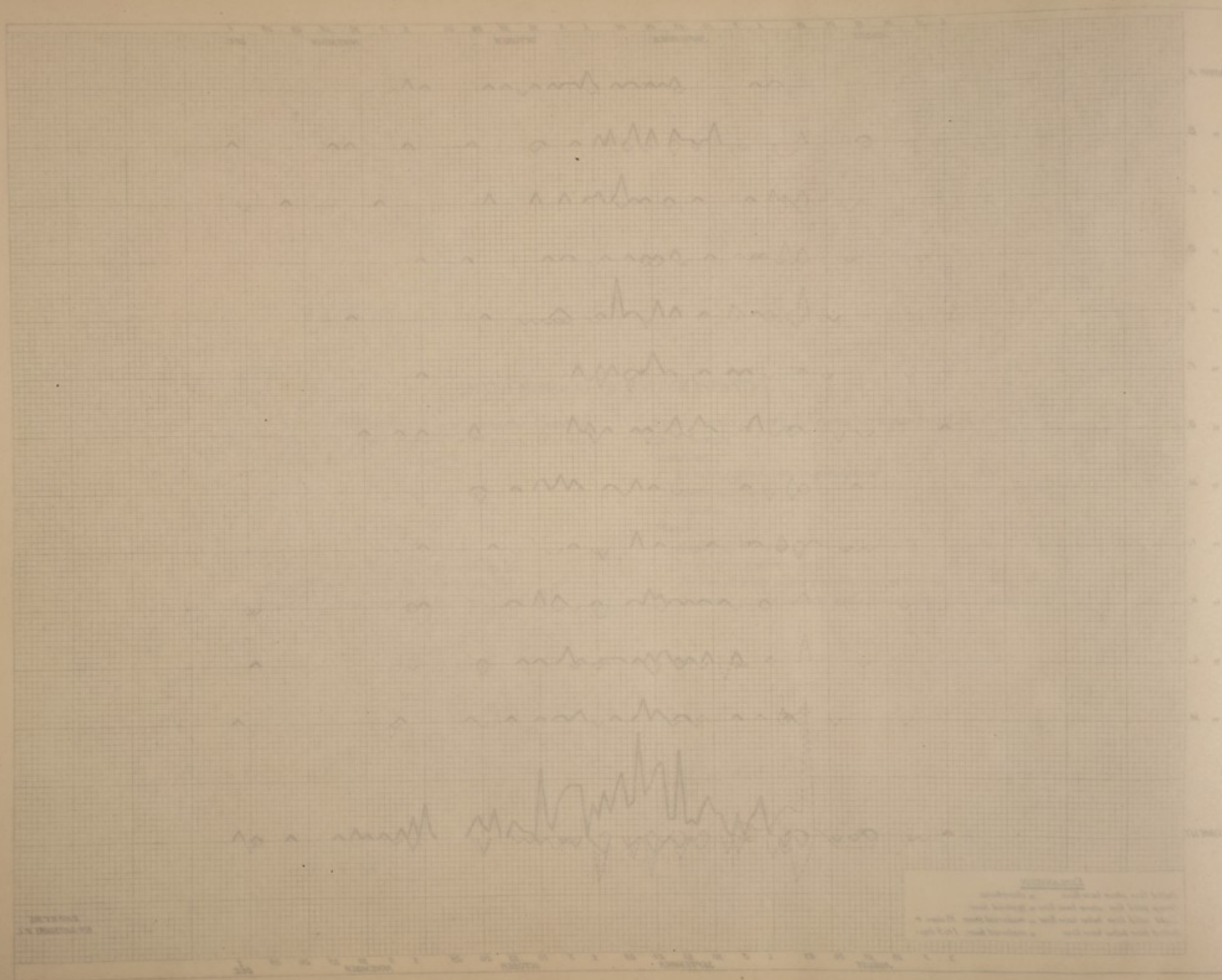
Morbidity:

Probable typhoid, including recognized 286
Diarrhoeal diseases 67
Malarias 176

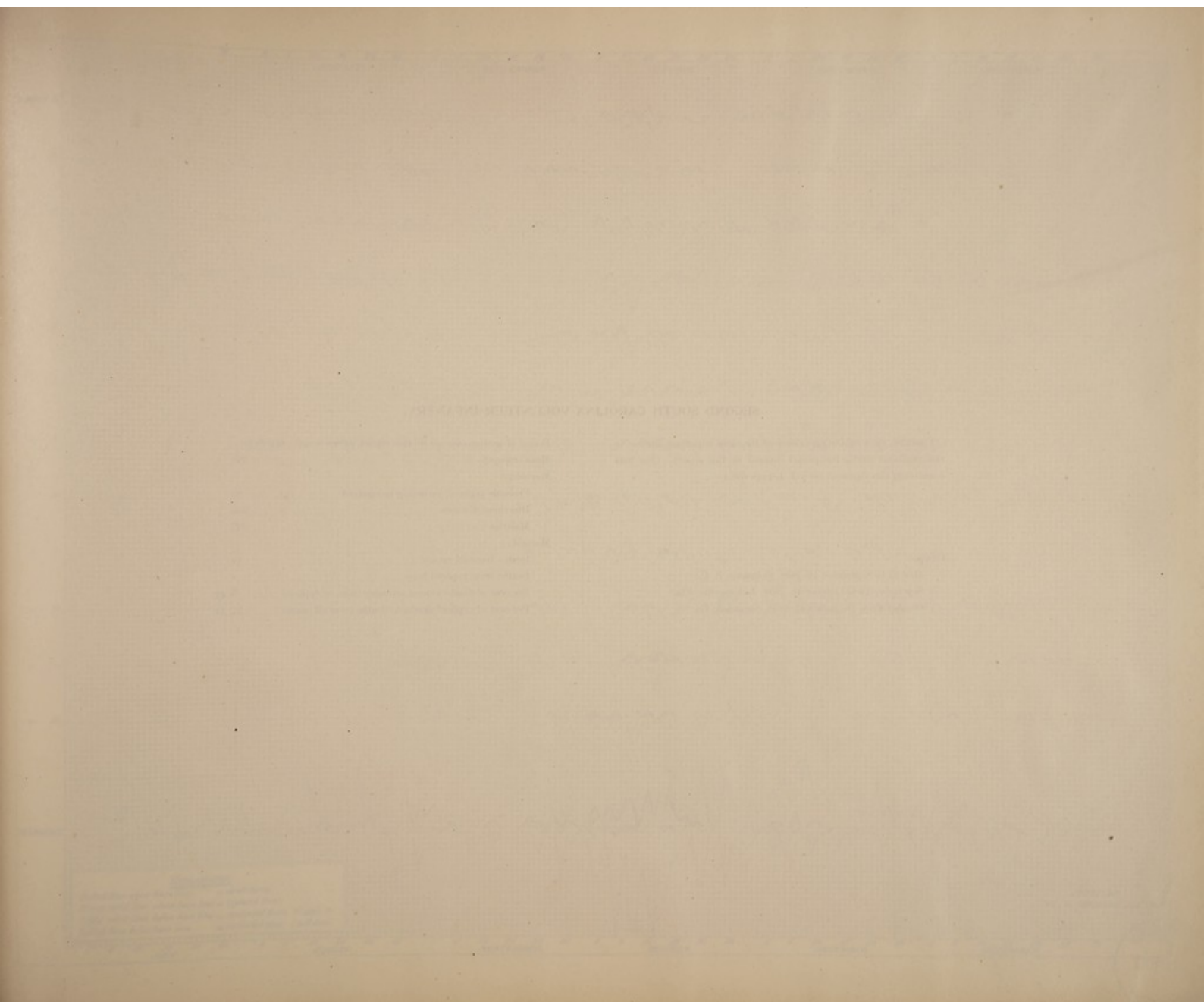
Mortality:

Deaths from all causes 22
Deaths from typhoid fever 19
Per cent of deaths among probable cases of typhoid... 6.64
Per cent of typhoid deaths to deaths from all causes... 86.36





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SECOND SOUTH CAROLINA VOLUNTEER INFANTRY.

Chart 96, showing the prevalence of the more important diseases in this regiment during the period covered by this report. (For text concerning this regiment see vol. 1, page 636.)

Camps:

May 21 to September 16, 1898, Columbia, S. C.
September 16 to October 21, 1898, Jacksonville, Fla.
October 22 to December 31, 1898, Savannah, Ga.

Period of service covered by this report, seven months ten days.

Mean strength 945

Morbidity:

Probable typhoid, including recognized 85

Diarrhoeal diseases 365

Malarias 537

Mortality:

Deaths from all causes 14

Deaths from typhoid fever 8

Per cent of deaths among probable cases of typhoid 9.41

Per cent of typhoid deaths to deaths from all causes 57.14

