The dotted circle represents what the mortality would have been had the Army been as healthy as Manchester - 25.6 per 1000 per annum. The area of each monthly division exhibits the relative mortality in the army during the month.

Each wedge indicates, if compared, area for area, with every other wedge, and with the Manchester circle, and each wedge shows the mortality per 1000 per annum for the month. The dark area outside the Manchester circle exhibits the excess of mortality in the Army for the same age over that of one of the most unhealthy towns in England. The figures show the mortality per 1000 per annum.
The areas of the blue, red, & black wedges are each measured from the centre as the common origin.

The blue wedges measured from the centre of the circle represent areas for the deaths from Preventable or Mitigable Zymotic diseases

The red wedges measured from the centre, the deaths from wounds & the black wedges measured from the centre, the deaths from all other causes.

The black line across the red triangle in Nov. 1855 marks the boundary of the deaths from all other causes during the month.

In October 1854 & April 1855 the black area coincides with the red; in January & February 1856 the blue coincide with the black.

The entire areas may be compared by following the blue, the red & the black lines enclosing them.

[Diagram of the Causes of Mortality in the Army in the East, April 1855 to March 1856]
EXPLANATION.

The Figures represent the ANNUAL RATES of Mortality per 1000 in the Hospitals of the Army in the East, for each Month from April 1854 to March 1855.

The upper curve shows the Mortality which the Army would have experienced if it had been exposed to the same rate which prevailed in one of the unhealthful districts of England (Manchester). The difference between the upper and the second, the second and the third, curves is the rate represented by the lines to the right of the figure.

The average rate of Mortality in any particular Month is shown by the length of the radial line extending from the centre in the direction of the date indicated on the outer circle.

Note: In January 1855 the Annual rate of Mortality per 1000 was 171; a higher rate than that which prevailed during the North of September when the Mortality was highest in the year of the Great Plague, 1665.
only “ignorant people conceive that the comparison is intended to be between the areas”
Representing the Relative Mortality of the Foot Guards and of the English Male Population at corresponding Ages.

<table>
<thead>
<tr>
<th>Ages</th>
<th>Deaths Annually to 1000 Living</th>
<th>DEATHS.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>20-25</td>
<td>8.4</td>
<td>21.6</td>
<td>Englishmen.</td>
</tr>
<tr>
<td></td>
<td>21.6</td>
<td>Englishmen.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>21.1</td>
<td>Foot Guards.</td>
<td></td>
</tr>
<tr>
<td>30-35</td>
<td>10.2</td>
<td>19.5</td>
<td>Englishmen.</td>
</tr>
<tr>
<td></td>
<td>19.5</td>
<td>Foot Guards.</td>
<td></td>
</tr>
<tr>
<td>35-40</td>
<td>11.6</td>
<td>22.4</td>
<td>Englishmen.</td>
</tr>
<tr>
<td></td>
<td>22.4</td>
<td>Foot Guards.</td>
<td></td>
</tr>
</tbody>
</table>

Note.—The Mortality of the English Male Population, at the above ages, is taken from English Life Table (1840-53).
representing the relative Annual Morbidity from ALL CAUSES, ZYMOTIC DISEASES, CHEST and TUBERCULAR DISEASES, and OTHER DISEASES in the ENGLISH MALE POPULATION aged 15-45, and in the INFANTRY OF THE LINE serving at home.

ENGLISH MALE POPULATION AGED 15-45 (1848-54)

<table>
<thead>
<tr>
<th>Zymotic Diseases</th>
<th>Chest and Tubercular Diseases</th>
<th>All other Diseases</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>4.5</td>
<td>3.3</td>
</tr>
<tr>
<td>per 1000 living</td>
<td>to 1000 living</td>
<td>to 1000 living</td>
</tr>
</tbody>
</table>

Deaths annually to 1000 living from All Causes 9.8

INFANTRY OF THE LINE (SERVING AT HOME) 1857-66

<table>
<thead>
<tr>
<th>Zymotic Diseases</th>
<th>Chest and Tubercular Diseases</th>
<th>All other Diseases</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.7</td>
<td>10.1</td>
<td>5.7</td>
</tr>
<tr>
<td>per 1000 living</td>
<td>to 1000 living</td>
<td>to 1000 living</td>
</tr>
</tbody>
</table>

Deaths annually to 1000 living from All Causes 17.9
DIAGRAMS CONSTRUCTED ON THE DATA FURNISHED BY THE
QUARTER MASTER GENERAL'S PLANS FOR ENCAMPEMENT

DENSITY
1. 9 Square Yds to a Person.

PROXIMITY
2. 3 Yds from Person to Person.
3. 0 Square Yds to a Person.
4. 7 Square Yds to a Person.
5. 9 Yds from Person to Person.

The Number of Points (•) represents the Density of the Population; the six sided Figures represent the average amount of ground to each person and the blue lines from point to point indicate the Proximity or mean distance from person to person, including the space occupied by the body.

1852.
I. Diagram — representing the Army at Home in its present State.

II. Diagram — representing the Army at Home in an improved State.

Two Diagrams showing the loss of strength in the Army by Invaliding and by Death.

The force 141,764 (represented by the red area) is assumed to be maintained by 10,000 Annual Recruits, which if there were no loss by Death, or by Invaliding would sustain a force of 200,000 Men, represented by the square figure. — The loss of strength shown in Diagram I. is equal to 38,237 = 29 per cent.

The dark area represents the loss of strength by death.

The yellow area represents the loss of strength by Invaliding, and it will be borne in mind that many of the Invalided die soon after leaving the Army.

Note: 10,000 Annual Recruits under System No. 2, would sustain a force of 141,764; under System No. 2, 10,000 Annual Recruits would sustain a force of 166,910. (See Table E & F.)

Owing to Service abroad in unhealthy Stations, the numbers are actually reduced much more rapidly than they are at home, as shown in Diagram I.
The dotted circle represents what the Mortality would have been, had the Army been as healthy as Manchester - 23.3 per 1000 per Annum. The Areas of each Monthly division exhibit the relative Mortality in the Army during the Month. Each wedge subdivides of Comparison, area for area, with every other wedge, and with the Manchester Circle, each wedge shows the Mortality per 1000 per Annum for the Month. The dark Area outside the Manchester circle exhibits the excess of Mortality in the Army for the same ages over that of one of the most unhealthy Towns in England. The Figures shew the Mortality per 1000 per Annum.
A bar chart to show the Mortality in Army in the East from April 1854-March 1855.
A pie chart to show the Mortality in the Army in the East from
April 1854-March 1855
DIAGRAMS OF THE MORTALITY IN THE ARMY IN THE EAST.

The dotted circle represents what the Mortality would have been, had the Army been as healthy as Manchester - 15.4 per 1000 per annum.
The area of each Monthly division exhibits the relative Mortality in the Army during the Month.

Each wedge, subtends at Compassion, area for area, with every other wedge, and with the Manchester circle, and each wedge shows the Mortality per 1000 per annum for the Month.
The dark area outside the Manchester circle exhibits the excess of Mortality in the Army for the same, per 1000 over that of one of the most unhealthy Towns in England.
The figures above the Mortality per 1000 per annum.
“Diagrams are of great utility for understanding certain questions of vital statistics by conveying ideas on the subject though the eye which cannot be so readily grasped when contained in figure”