

Grid size	Area per cell [km <sup>2</sup> ]
50 × 50	40
100 × 100	10
200 × 200	2.5
400 × 400	0.625

The total area of the bounding box around the customers is approximately  $500 \text{ km} \times 200 \text{ km} = 100,000 \text{ km}^2$ .