

### Map Spread

Map spread, in inches, is the size of a fire as scaled to a map. See Section 5.3 for more detailed information.

**Example 1.** For a rate of spread of 4 chains/hour and a projection time of 3 hours, find the map distance for the fire spread. Plot the distance using a tenths ruler for accuracy. The map scale is 1:24,000.

Step 1. Convert the map scale to feet per inch.  $24,000 \text{ in} \times 1 \text{ foot}/12 \text{ in} = 2000 \text{ feet}$ .

Step 2. Convert the spread distance to feet.  $12 \text{ chains} \times 66 \text{ feet}/\text{chain} = 792 \text{ feet}$ .

Step 3. Convert the ground spread distance to a map spread distance.  $792 \text{ feet} \times 1 \text{ inch}/2000 \text{ feet} = 0.4 \text{ inch}$

Step 4. Using a ruler, measure the distance from the point of origin to the distance of the fire spread.

Map spread distance is 0.4 inch.