

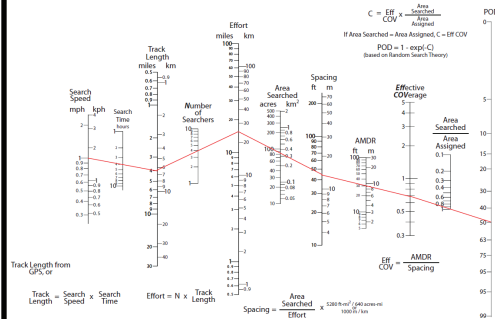
# SEARCH PLANNING WORKSHEET

1. INCIDENT NAME

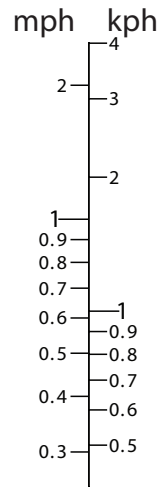
2. DATE

3. ASSIGNMENT IDENTIFIER

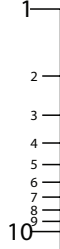
Example of  
completed worksheet



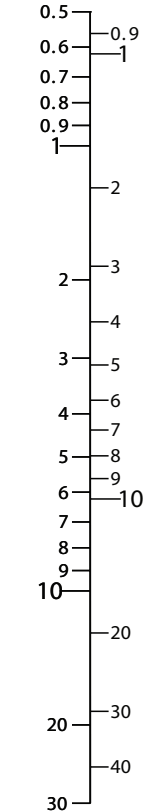
Search  
Speed



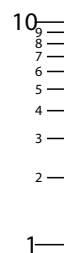
Search  
Time  
hours



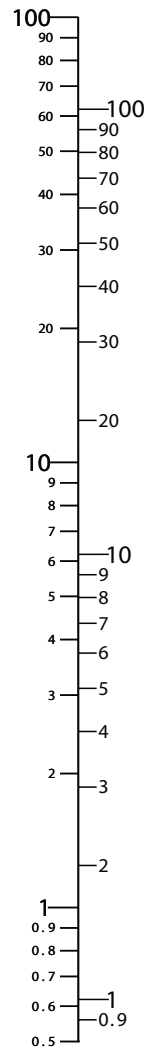
Track  
Length



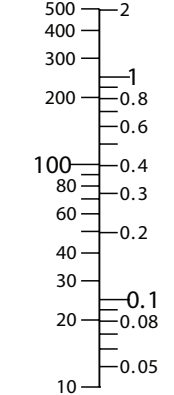
Number  
of  
Searchers



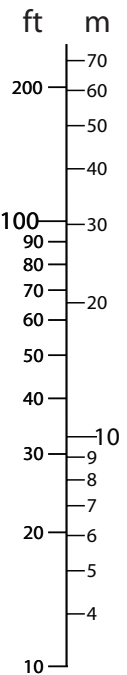
Effort  
miles km



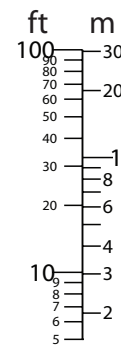
Area  
Searched



Spacing



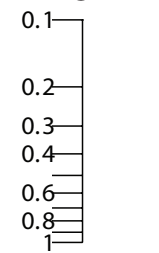
AMDR



Effective  
COVERAGE



Area  
Searched  
Area  
Assigned



$$\text{Eff COV} = \frac{\text{AMDR}}{\text{Spacing}}$$

Track Length from  
GPS, or

$$\text{Track Length} = \text{Search Speed} \times \text{Search Time}$$

$$\text{Effort} = N \times \text{Track Length}$$

$$\text{Spacing} = \frac{\text{Area Searched}}{\text{Effort}} \times \frac{5280 \text{ ft-mi}^2 / 640 \text{ acres-mi}}{1000 \text{ m} / \text{km}}$$

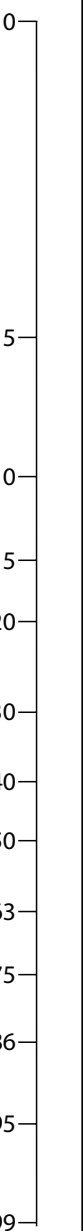
$$C = \frac{\text{Eff}}{\text{COV}} \times \frac{\text{Area Searched}}{\text{Area Assigned}}$$

If Area Searched = Area Assigned,  $C = \text{Eff COV}$

$$\text{POD} = 1 - \exp(-C)$$

(based on Random Search Theory)

POD



**SAR 138**

MARG 4/2012

5. PREPARED BY