

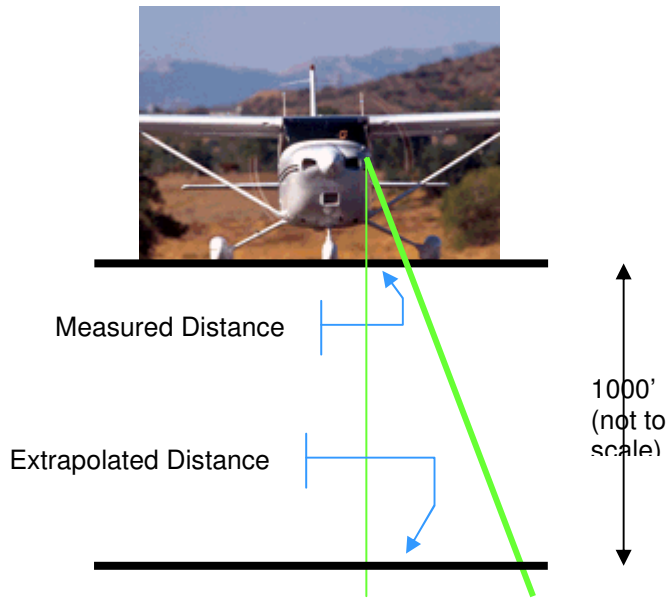
Search Effectiveness

Probability of Detection

Search Parameters	500 -1/2	1000 - 1	1500 - 3
Base Value	40%	30%	20%
Dense Forest	-15%	-15%	-15%
Moderate Forest	-10%	-10%	-10%
Light Forest	-5%	-5%	-5%
Fresh Snow	- (0 to 5%)	- (0 to 5%)	- (0 to 5%)
Lighting	- (0 to 5%)	- (0 to 5%)	- (0 to 5%)
Minimum Value	7%	4%	2%

The chart above can be used to help determine the POD value to report on the Air Tasking Debrief form. The values are provided as general rules of thumb from the SAR Tech community and are intended as guides only.

The chart below is intended to demonstrate the effect of spotter eye point on the loss of visual coverage in the scan range. It shows approximately how much ground cannot be seen below an aircraft at 1000' AGL. These results were determined by measuring how much of the spotter's view was obstructed by the fuselage, while the aircraft was on the ground. The measurements were then extrapolated out as if the aircraft was flying a "1000 and 1" search pattern.



	56" Eye Height		60" Eye Height	
	Measured	Extrapolated	Measured	Extrapolated
Nose on glass	12"	214'	11"	183'
Cap on glass	23'	410'	n/a	n/a
CASARA video position	33"	589'	29"	483'
Relaxed position	56'	1000'	46"	821'
very relaxed position	70"	1250'	80"	1333'

The chart shows the impact of alterations in the eye point. Naturally, higher eye points, closest to the glass have the least amount of obstruction while lower eye points in a 'sit back and relax' body posture results in the greatest obstruction. It is interesting to note that wearing a ball cap with the peak forward is enough to double the amount of obstruction.