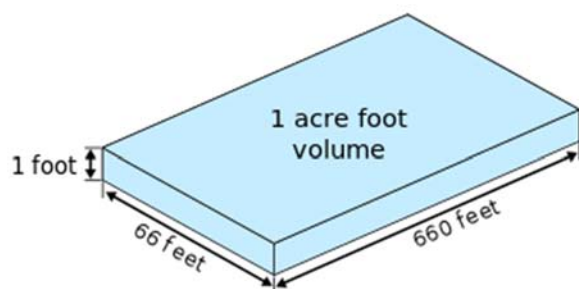


## Reductions in water use

Table 1 shows the estimated annual reduction in water for greenhouse, container and field production under 2 scenarios, 50% and 100% adoption rates (both assuming a 50% reduction in water volume per operation with the use of sensor networks). At both 50% and 100% adoption, container operations would have the highest reduction at 28,911 and 57,823 million gallons respectively followed closely by field operations at 23,436 and 46,872 million gallons respectively.



An acre foot of water is the amount of water it takes to fill one acre of area, one foot deep with water, or about 325,000 gallons of water.

For perspective, there are about 325,000 gallons per acre foot. The 50% reduction total of 58,790 million gallons of water equals about 181,000 acre feet vs 362,000 acre feet of water for the 100% adoption scenario. The average household uses about 140,000 gallons of water a year, so 181,000 acre feet is enough water for about 420,000 households, or 840,000 households under the 100% scenario.

Summary information is presented here. A list of water reductions by region can be found at the end of this module.

**Table 1.** Annual potential national reduction in water use (gallons) through the adoption of sensor networks for ornamental production. Water reductions are reported using a 50% and 100% adoption scenario, and assuming a 50% reduction in water use once sensor networks are adopted at an operation.

Region	Operation type	Annual reduction in water use (million gallons) <sup>2</sup>	
		50% adoption	100% adoption
All regions	Greenhouse	6,442.2	12,884.4
	Container	28,911.8	57,823.6
	Field	23,436.5	46,872.9
	<b>Total</b>	<b>58,790.4</b>	<b>117,580.9</b>
<sup>2</sup> 1 gal.= 3.785412 L			