

## Section 3 Example: Land Application Equipment Inventory

### Equipment Description

a. Equipment Description	b. Type of Equipment	c. Includes Incorporation Attachment?	d. Capacity	e. Typical Total Daily Application Rate	f. Time to haul or pump manure produced	g. Ownership of Land Application Equipment <sup>1</sup>	h. Manure Storage System Served by this Equipment
20 ton Truck mounted box spreader – rear discharge	<input checked="" type="checkbox"/> ST <input type="checkbox"/> SS <input type="checkbox"/> CP <input type="checkbox"/> OS <input type="checkbox"/> FI <input type="checkbox"/> TH	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20 <input checked="" type="checkbox"/> tons/load  <input type="checkbox"/> gallons/min.  <input type="checkbox"/> gallons/load	600 <input checked="" type="checkbox"/> tons/day <input type="checkbox"/> gallons/day <input type="checkbox"/> acre-in./day	10 days	<input checked="" type="checkbox"/> O <input type="checkbox"/> L <input type="checkbox"/> CA	Solids from open lots and solids settling bass
Big Gun Applicator	<input type="checkbox"/> ST <input type="checkbox"/> SS <input type="checkbox"/> CP <input checked="" type="checkbox"/> OS <input type="checkbox"/> FI <input type="checkbox"/> TH	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	450 <input type="checkbox"/> tons/load <input checked="" type="checkbox"/> gallons/min. <input type="checkbox"/> gallons/load	324,000 <input type="checkbox"/> tons/day <input checked="" type="checkbox"/> gallons/day <input type="checkbox"/> acre-in./day	10 days for 25-yr, 24-hr storm event. 12 days for average annual runoff	<input checked="" type="checkbox"/> O <input type="checkbox"/> L <input type="checkbox"/> CA	Holding pond

### Time Required for Land Application:

Solids: We collect between 5,000 and 6,000 tons of manure solids annually. With our current equipment, we spend approximately 10 days spreading manure solids. Manure is typically spread on corn land in December and on alfalfa immediately after first cutting in May.

Liquids: We collect less than 4 million gallons annually in our runoff holding pond. It requires approximately 20 days of 10-hour operating periods to land apply the liquids. Depending upon pond level, our preference is to use the water on alfalfa from April through September. However, if pond levels approach the marker level indicating that capacity needed for the 25-year, 24-hour storm, we apply liquid to alfalfa as soon as the soil has the ability to absorb the added liquid. At least part of the feedlot quarter is maintained in alfalfa in all years to provide a site for emergency application.

A 25-yr, 24-hr storm event is expected to produce approximately 3 million gallons of runoff. We can pump 324,000 gallons per day in a 12 hour per day pumping period. At this pumping rate, this storm event can be land applied in less than 10 days. If necessary, the 12 hour per day pumping period can be extended.

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Type of Equipment: slurry tank...check "ST"; solids spreader...check "SS"; center pivot...check "CP"; other sprinkler...check "OS"; flood irrigation...check "FI"; towed hose tractor unit...check "TH"

Who owns this land application equipment? If Owned by livestock operation...check "O"; If Leased by livestock operation...check "L"; If equipment belongs to a Custom Applicator... check "CA".