

Farm Name: \_\_\_\_\_

# Irrigation

Building: \_\_\_\_\_ Area: \_\_\_\_\_ Date: \_\_\_\_\_

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**Note:** Motors manufactured after 1997 are required by law to be built to a higher efficiency. Motors sized at 80% to 100% of load operate at maximum efficiency which for large 3-phase motors can be as high as 90%. Premium efficiency motors operate at an even higher efficiency when matched to the load. However, premium efficiency motors tend to draw a higher starting current.

## Type of Irrigation System:

Fixed in place sprinklers    Traveling spray gun    Lateral move    Center pivot

**Water Source:**    Well                       River                       Private pond                       Lake

**Acreage Irrigated:**                      \_\_\_\_\_ acres

**Corp Irrigated:**    Corn                       Soybeans                       Hay                       Wheat                       \_\_\_\_\_

## Pump Power:

Diesel engine     Gasoline engine     Electric motor

**Engine:**      Horsepower \_\_\_\_\_

Years since last engine overhaul    \_\_\_\_\_ yrs.

Is 3-phase power available at the pump site? ( yes, no )

If 3-phase power is not available at pump site, approximate distance to nearest 3-phase power line in \_\_\_\_\_ miles.

## Motor:

Horsepower \_\_\_\_\_    Supply: (1-phase, 3-phase)    Voltage: (208, 240, 480)

Age of pump motor    \_\_\_\_\_ yrs.

## Motor Performance:

Is motor provided adequate ventilation? ( yes, no )

Are there reports of the motor starting slowly? ( yes, no )

(This can be a sign of excessive voltage drop on the wiring. Motor will run hotter and at lower efficiency if voltage is inadequate)