Irrigation

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)