

## Examples of irrigation equipment (continued)

7



Center pivot gooseneck elbow for new drop tubes

8



New drop tube for low-pressure pivot sprinklers attached to gooseneck

5 7 8



Completed upgrade of center pivot with gooseneck, drop tubes, and low-pressure sprinkler package

9



Center pivot boot gasket

## Opportunities for irrigators to save \$\$\$

A portfolio of energy-efficiency services and rebates is available to help you irrigate crops more efficiently.

In addition to saving money for energy used to operate inefficient irrigation systems, many of the eligible measures also increase irrigation uniformity and may even decrease the amount of fertilizer that is required to produce a quality crop.

Rebates are available for energy-efficient hardware improvements such as installation or replacement of pressure regulators, nozzles, sprinklers, and gaskets. See the list below and the related set of photos provided in this document.

### Irrigated Agriculture Equipment Eligible for Rebates

- New flow-controlling type nozzle for impact sprinklers; **1**
- Rebuilt or new brass sprinkler; **2**
- New rotating-type sprinkler (replacing impact sprinklers); **3**
- New gasket for wheel lines or hand lines; **4**
- New low-pressure regulators with pivot sprinklers (entire pivot must be upgraded); **5**
- New multiple-configuration nozzles for low-pressure pivot sprinklers; **6**
- New "goose neck" elbow for new drop tubes; **7**
- New drop tube for low-pressure pivot sprinklers (min. 3 feet long); and **8**
- New center pivot point O-ring gasket to replace a leaking gasket. **9**

Rebates also are available for National Electrical Manufacturers Association (NEMA) premium efficiency motors ranging from 25 horsepower to 500 horsepower.

An irrigation system analysis may identify opportunities for you to increase the efficiency of your pumping plant and irrigation delivery system. These opportunities may include:

- Low pressure conversion for pivots and laterals;
- Reduction of friction losses in pipes;
- Rebuilding pumps and trimming pump impellers;
- Adjustable speed drives in some applications such as multiple-valved sprinkler systems and field elevation differences of 25 feet or greater.

### Scientific Irrigation Scheduling (SIS)

SIS helps you know exactly when to irrigate crops through a system that monitors weather and soil moisture data. In addition to reducing energy costs for pumping water, SIS conserves water and reduces fertilizer use and run off. In determining when to irrigate, the system takes into account the specific type of crop planted in a monitored field. Energy and water savings could be more than 10 percent annually.

For information on how you can begin to save energy and \$\$\$, contact us.

## Examples of irrigation systems

Hand line sprinkler system



Wheel line

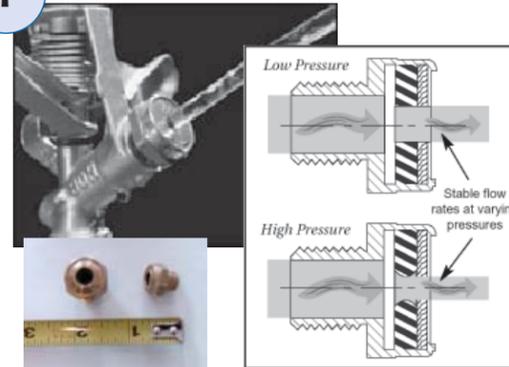


Center pivot  
with impact sprinklers on top of tower  
(notice drift due to droplet size, location and wind)



## Examples of irrigation equipment

1



Flow controlling nozzle for impact sprinklers  
(Nelson or Rainbird make these nozzles)

2



New brass impact sprinkler with new brass nozzle

3



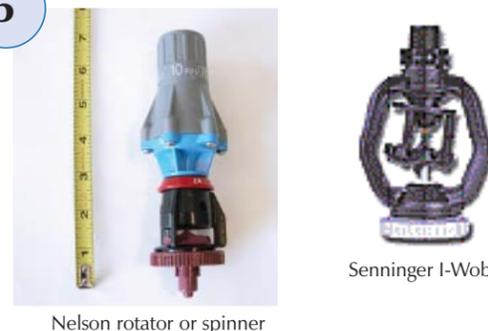
Low pressure rotating sprinkler to replace impact  
sprinkler (example shown of 'wind fighter'  
sprinkler by Nelson)

4



Wheel line gasket

5



Low pressure regulator with rotating or wobbling  
pivot sprinkler

6



Multiple configuration nozzle for low pressure  
pivot sprinkler