

# Udder Washing Case Study



Senninger® Wobbler® LA



## Senninger Wobblers- Standard and Low-angle



**LOCATION:**  
Joe Branco Dairy- Hilmar, California

**INSTALLATION:**  
2006

**DESCRIPTION:**  
Udder washing prior to milking

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As the cows come in from the fields, they must pass a washing pen to have their udders washed prior to milking. The pen can hold 120 cows at a time. The water cycles on for 1 minute, off for 1 minute, on again for 1 minute before shutting off.

Pen Capacity: 120 cows

Units: 80

Product: Wobblers (standard & low-angle models alternating)

Spacing: 4 ft. x 5 ft.  
(1.21m x 1.52m)

Application:  
Cycles 1 minute on,  
1 minute off,  
1 minute on, shut-off



## Installation



### Wobbler® FEATURES:

The Senninger Wobbler has a unique off-center rotary-action with one moving part for longer life. This design provides extremely uniform coverage over a large diameter at low pressures and is built for strength and durability.

The Wobbler produces droplets which resist wind drift allowing for better distribution.



At this California dairy, brass impact sprinklers are exchanged for Senninger Wobblers, alternating standard-angle and low-angle models. The Wobblers are installed into an existing customized steel bracket system, protecting the applicators from the cows. Wobblers are placed on 4 ft. x 5 ft. spacing.

## Implications



Due to the immediate 360-degree distribution pattern, the Wobblers cleaned the udders on the first cycle of 3 minutes. The Wobblers out-performed the previously-installed brass rotating impacts, which had been used for 25 years. Better washing in a shorter period of time saves water and reduces pumping time. Low pressure operation saves energy costs.

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