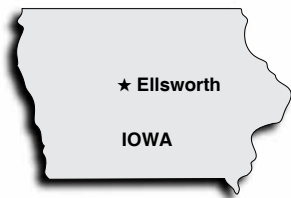


Double the Pelleting Power

IOWA FEED VENTURE ADDS A SECOND MILL TOWER AT ELLSWORTH SITE



Lincoln Supply LLC
Ellsworth, IA • 515-836-2125

Founded: 1997

Feed production: 1.2 million tpy at one location

Products: Turkey, swine feeds

Number of employees: 23

Grain storage capacity: 600,000 bushels

Key personnel:

- Scott Lovin, vice president-feed
- Doug Pittman, plant manager
- Brian Epperson, day shift supervisor
- Heath Karns, night shift supervisor
- Samantha Langerman, office manager
- Marty Wilson, grain procurement

Supplier List

Air compressor..... Quincy

Batch control system..... WEM Automation

Bearing sensors Maxi-Tronic Inc.

Bin level monitors.... BinMaster Level Controls

Boilers..... Cleaver Brooks

Bucket elevators..... Intersystems

Contractor/engineering... Younglove Construction LLC

Conveyors Intersystems, Bulk Conveyors Inc.

Distributor.. Hayes & Stolz Ind. Mfg. Co. Inc.

Dust collection system Aircon Corp.

Electrical contractor..... Nikkel & Associates

Elevator buckets Maxi-Lift Inc.

Feed cleaner CPM

Hammermills..... CPM Roskamp Champion

Microingredient system...CPM Beta Raven

Mixer ... Hayes & Stolz Ind. Mfg. Co.

Motion sensors .. 4B Components Ltd.

Pellet cooler Geelen

Pellet crumbler CPM

Pellet mills CPM

Screeners..... Rotex Global LLC

Truck scale.. Cardinal Scale Mfg. Co.



Twin towers – Lincoln Supply LLC’s 800,000-tpy milling complex right off Interstate 35 near Ellsworth, IA. Both towers were built by Younglove Construction LLC. Photos by Ed Zdrojewski.

When Lincoln Supply LLC built a 400,000-tpy feed mill in 2008 just off the Interstate 35 exit at Ellsworth, IA, the idea was to serve the rapidly growing turkey industry in central Iowa.

The growth never stopped. With ever-increasing demand for pelleted feeds from both poultry and swine producers within a

100-mile radius, Lincoln Supply, a joint venture between local agricultural investors and AgPartners LLC, decided it needed to double production by building a second slipform concrete mill tower next door to the first.

“We ran out of capacity sooner than we anticipated,” says Scott Lovin, vice president-feed



Scott Lovin (left), vice president-feed, and Doug Pittman, Ellsworth branch manager.

with Ag Partners. “It was either increase capacity or build an entirely new mill. It was too difficult and costly to add to the existing tower structure.”

To construct a second milling tower rated at 800,000 tpy, Lincoln Supply took bids and awarded the contract for an undisclosed sum to Younglove Construction LLC, Sioux City, IA (712-277-3906).

“Younglove built the original mill here,” says Plant Manager Doug Pittman who has been at the Ellsworth site since it opened in 1998. “We had a very good experience with the construction of that mill. Also, Lincoln Supply takes safety very seriously, and Younglove has a similar commitment to safety.”

Construction crews broke ground for the expansion in the summer of 2013. The project progressed as well as could be expected given some severe weather challenges, and when *Grain Journal* visited the mill in October 2014, startup had been scheduled for December.

Second Tower

The second tower stands 160 feet tall on a 70-foot-x-70-foot footprint. One difference from the first tower is the new one is built at grade with no basement. The slip includes 19 ingredient bins totaling roughly 2,000 tons capacity and 14 loadout bins at 1,350 tons total.

Incoming corn, whether delivered by truck or conveyed from an adjacent Lincoln Supply 600,000-bushel grain elevator, is sent through a pair of 500-hp CPM Roskamp Champion hammermills for grinding, before continuing on to storage. (Additional corn storage will be added in 2015.)

Lincoln Supply included the new tower on the same WEM automation system as the original tower. In the new tower, controls cover a new 12-ton Hayes & Stolz double-ribbon mixer. Pittman anticipates that upon startup, mixing time for a single



Pair of CPM Roskamp Champion hammermills for grinding incoming corn in the new tower.



One of two CPM Model 7936-14 pellet mills capable of producing 50 tph.

batch will be 3-1/2 to four minutes. A 24-bin CPM Beta Raven microingredient system feeds into the mixer.

The mill includes a pair of 600-hp CPM Model 7936 pellet mills. Incoming mash feed is conditioned with steam from a pair of Cleaver Brooks boilers, rated at 300 and 500 hp, respectively.

Pittman comments that the dual pellet lines allow for the production of two different types of feed simultaneously.

Newly pressed pellets are run through a Geelen counterflow cooler. Some of the pellets are routed through a CPM crumbler for poult and some additional products. One of the two lines also is outfitted with a Rotex screener.

All of the feeds produced in both towers are shipped in bulk. Trucks are loaded in the new tower with a movable 9-ton weigh lorry.

Ed Zdrojewski, editor