



# NITROGEN RATE STUDY

## CORN-AFTER-SOYBEANS

We continue to see the trend towards higher nitrogen efficiency when starting with 60 units up front in a 2x2x2 system. The data has been consistent for five years. The yield levels achieved with the split 160 lb./A. rate are notable.

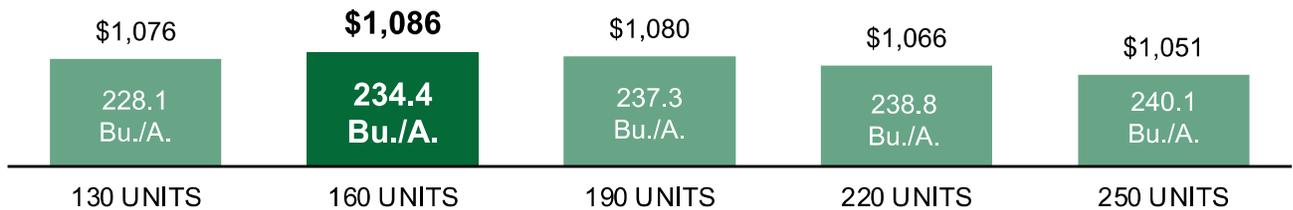
### 2025 MULTI-LOCATION RESULTS

BRAND	NITROGEN RESPONSE	UAN TREATMENTS	TOTAL NITROGEN (UNITS/A.)	BU./A.	NITROGEN COST/A.	NET RETURN
5647V*/6280TCV2P	Higher N Response	60 units 2x2x2 + 40 units @ V3	100	206.0	\$60.00	\$850.52
		60 units 2x2x2 + 70 units @ V3	130	215.3	\$78.00	\$873.63
		<b>60 units 2x2x2 + 100 units @ V3</b>	<b>160</b>	<b>222.7</b>	<b>\$96.00</b>	<b>\$888.33</b>
		60 units 2x2x2 + 130 units @ V3	190	225.8	\$114.00	\$884.04
		60 units 2x2x2 + 160 units @ V3	220	229.0	\$132.00	\$880.18
		60 units 2x2x2 + 190 units @ V3	250	231.2	\$150.00	\$871.90
5871AM*/6414V2P	N Efficient	60 units 2x2x2 + 40 units @ V3	100	208.4	\$60.00	\$861.13
		60 units 2x2x2 + 70 units @ V3	130	224.0	\$78.00	\$912.08
		<b>60 units 2x2x2 + 100 units @ V3</b>	<b>160</b>	<b>229.6</b>	<b>\$96.00</b>	<b>\$918.83</b>
		60 units 2x2x2 + 130 units @ V3	190	230.6	\$114.00	\$905.25
		60 units 2x2x2 + 160 units @ V3	220	231.1	\$132.00	\$889.46
		60 units 2x2x2 + 190 units @ V3	250	232.8	\$150.00	\$878.98

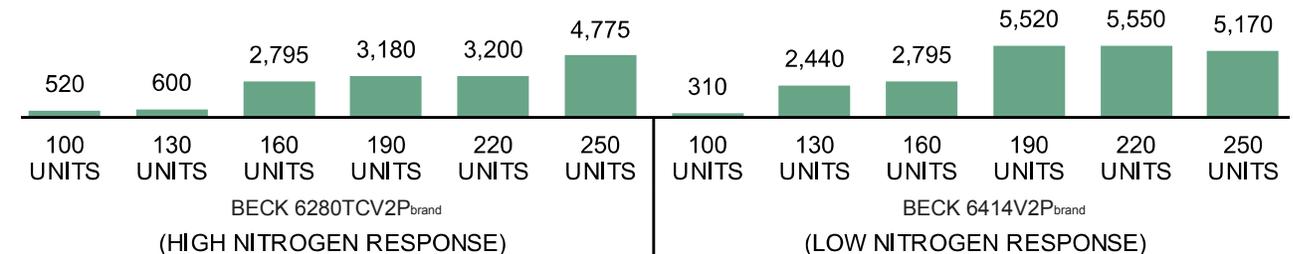
Corn \$4.42/Bu. UAN \$0.60/unit of nitrogen. These results are based on the disclosed study parameters and participating sites.

XL \*XL is a registered trademark of Pioneer. XL\* brand seed is distributed by Beck's Superior Hybrids, Inc.

### 5-YEAR MULTI-LOCATION NITROGEN RATE - CORN-AFTER-SOYBEANS NET RETURN & YIELD



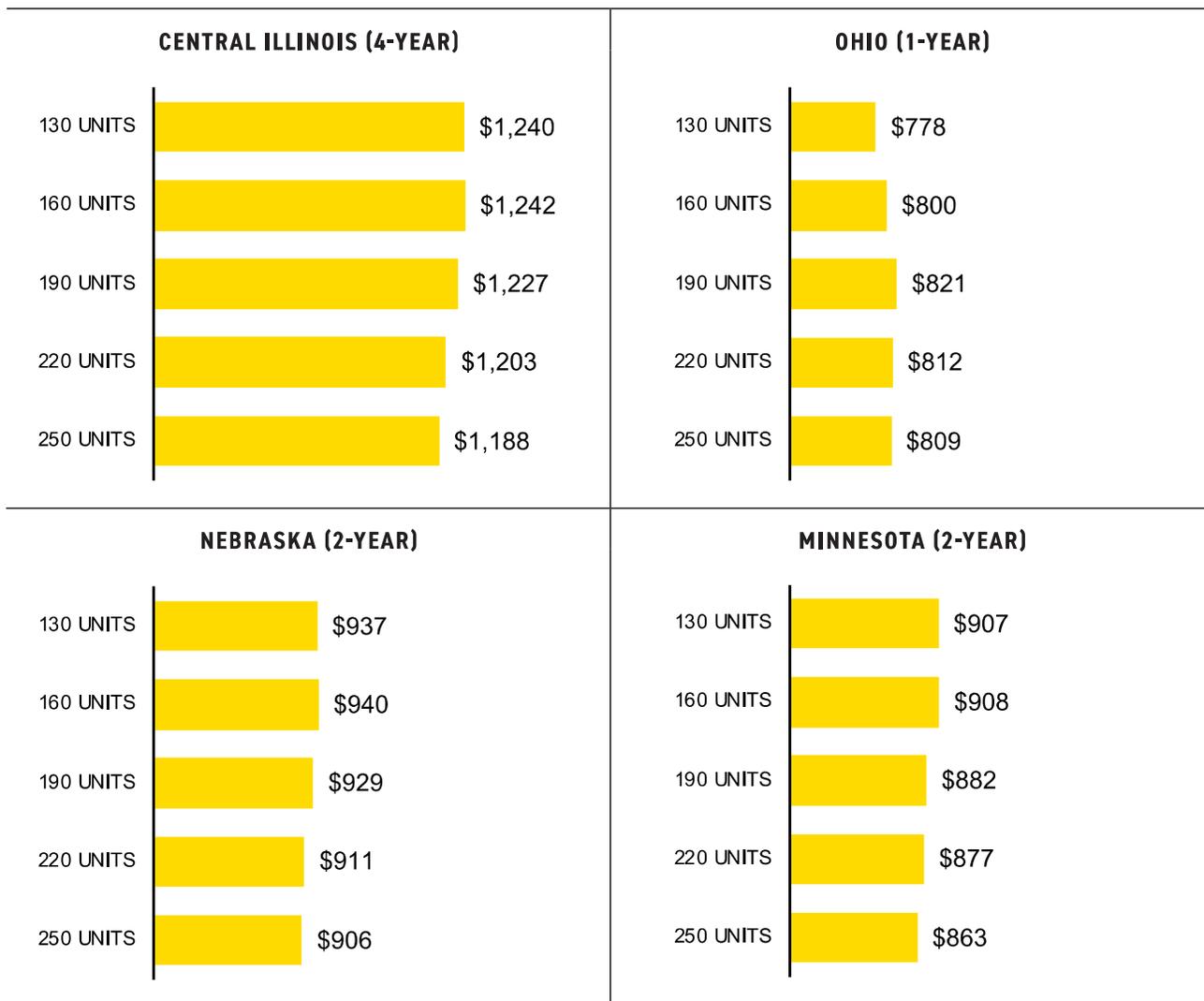
### STALK NITRATE RESULTS @ BLACK LAYER (OPTIMAL RANGE: 500 - 2,000 PPM): CENTRAL ILLINOIS



PARTICIPATING SITES



**MULTI-YEAR NITROGEN RATE - CORN-AFTER-SOYBEANS NET RETURN**



**BECK 6280TCV2P<sub>brand</sub> PLANT PICTURES @ R5: CENTRAL ILLINOIS**





# NITROGEN RATE STUDY

## CORN-AFTER-CORN

Interestingly, our corn-after-corn economic nitrogen rate is the same as our corn-after-soybean rate in 2025. We continue to see that by moving more nitrogen up front in a 2x2x2 system, we achieve higher nitrogen use rates. It's important to note that the three sites where this study was conducted all have high natural organic matter levels and likely mineralized higher levels of nitrogen this year, which can partially explain the data.

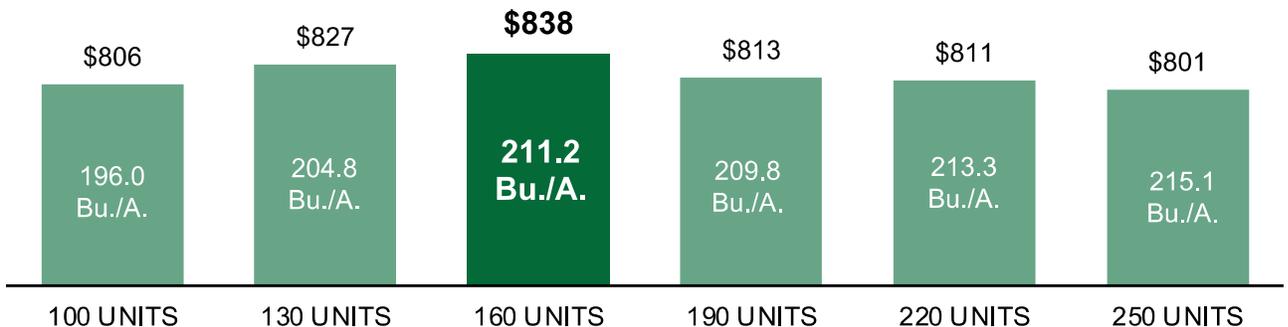
### 2025 MULTI-LOCATION RESULTS

BRAND	NITROGEN RESPONSE	UAN TREATMENTS	TOTAL NITROGEN (UNITS/A.)	BU./A.	NITROGEN COST/A.	NET RETURN
5647V/6280TCV2P	Higher N Response	60 units 2x2x2 + 40 units @ V3	100	198.5	\$60.00	\$817.37
		60 units 2x2x2 + 70 units @ V3	130	210.3	\$78.00	\$851.53
		<b>60 units 2x2x2 + 100 units @ V3</b>	<b>160</b>	<b>214.5</b>	<b>\$96.00</b>	<b>\$852.10</b>
		60 units 2x2x2 + 130 units @ V3	190	214.6	\$114.00	\$834.53
		60 units 2x2x2 + 160 units @ V3	220	216.7	\$132.00	\$825.81
		60 units 2x2x2 + 190 units @ V3	250	218.0	\$150.00	\$813.56
5871AM*/6414V2P	N Efficient	60 units 2x2x2 + 40 units @ V3	100	193.5	\$60.00	\$795.27
		60 units 2x2x2 + 70 units @ V3	130	199.2	\$78.00	\$802.46
		<b>60 units 2x2x2 + 100 units @ V3</b>	<b>160</b>	<b>207.9</b>	<b>\$96.00</b>	<b>\$822.92</b>
		60 units 2x2x2 + 130 units @ V3	190	204.9	\$114.00	\$791.66
		60 units 2x2x2 + 160 units @ V3	220	209.9	\$132.00	\$795.76
		60 units 2x2x2 + 190 units @ V3	250	212.2	\$150.00	\$787.92

Corn \$4.42/Bu. UAN \$0.60/unit of nitrogen. These results are based on the disclosed study parameters and participating sites.

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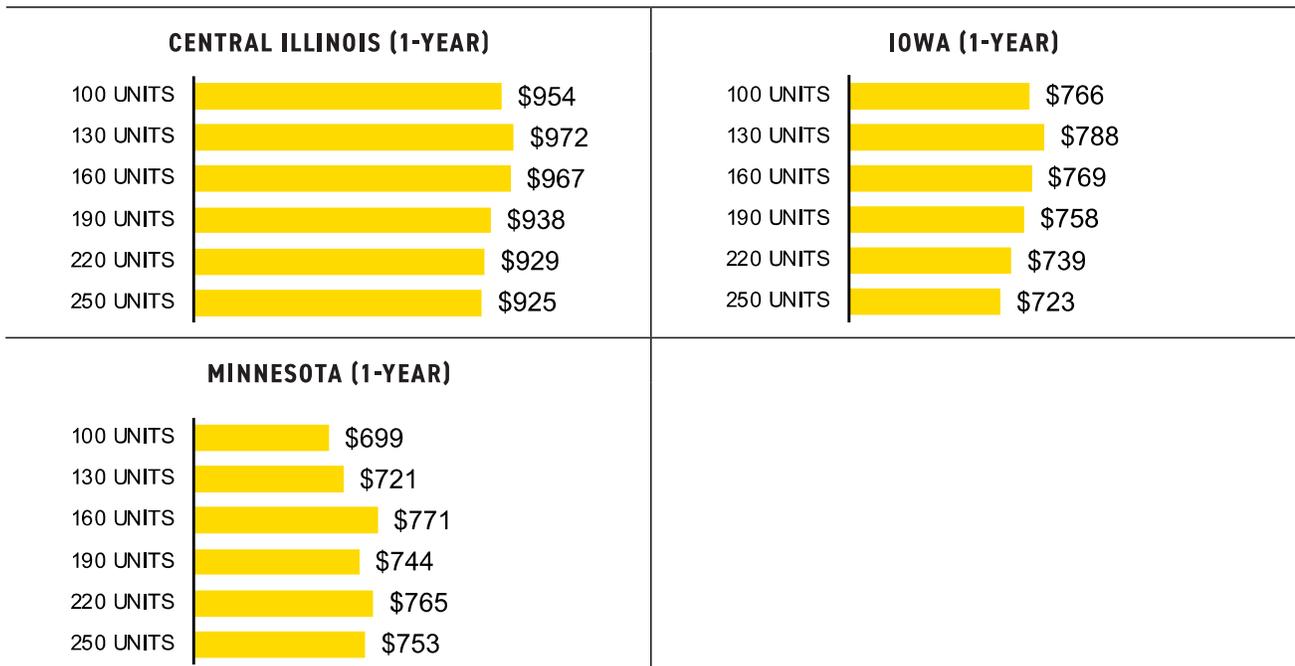
### 2025 MULTI-LOCATION NITROGEN RATE - CORN-AFTER-CORN NET RETURN & YIELD



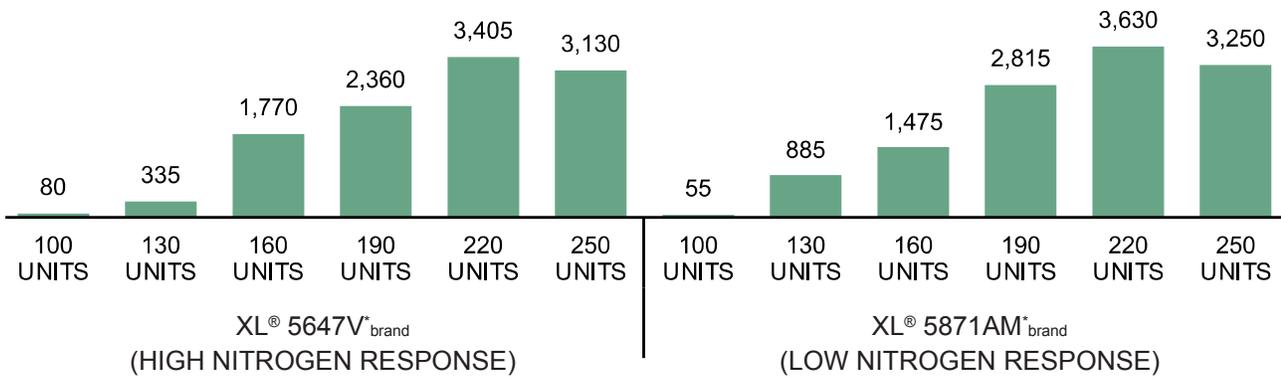
PARTICIPATING SITES



**2025 NITROGEN RATE - CORN-AFTER-CORN NET RETURN**



**STALK NITRATE RESULTS @ BLACK LAYER (OPTIMAL RANGE: 500 - 2,000 PPM): IOWA**



**EAR PICTURES: IOWA**

