2008 Sorghum Yields

No response to N rates (0, 40, 80, 120, 160 lb/acre)
2009 Sorghum Yields

![Graph showing 2009 Sorghum Yields with different crops represented by various markers.](image-url)
2009 Sorghum Stands After Cover Crops

plants/acre

Chem. Fallow
DC Soybean
FS Soybean
Sorg. Sudan
Winterpea
Canola
Relationship Between Yield and Plants/Acre (CC x N)

\[ y = -2E^{-08}x^2 + 0.0032x + 31.621 \]

\[ R^2 = 0.0727 \]
Sorghum Grain Yield After Cover Crops
Sorghum Stands After Cover Crops

![Graph showing the number of plants per acre for various cover crops, with a comparison between summer and winter seasons. The graph includes data for different crops such as Buckwheat, Cowpea, DC Soybean, Lab Lab, Pearl Millet, Sorg Sudan, SS/PM/SH/CP, Summer Mean, Winter Mean, Annual Fescue, Annual Rye, Barley, Canola, Oats, Winterpea, WP/WT, Winter Triticale, and Yellow Sweetclover. The x-axis represents the different cover crops, and the y-axis represents the number of plants per acre. The graph indicates that some cover crops, such as Yellow Sweetclover, have significantly higher plant density during the summer season compared to winter.](image-url)
Relationship Between Yield and Plants/Acre (CC)

\[ y = 0.0007x + 32.961 \]

\[ R^2 = 0.0324 \]
Cover Crop Thoughts

- Cover Crops can be grown in Wheat/Sorghum/Soybean rotation without adversely affecting crop yield.
- Cover crops with low C:N ratios can result in greater yields with no additional N.
- Too much cover crop residue can slow early growth, reducing sorghum yield at low N rates.