Furches Farms Partnership Tripp and Sharon Furches Farm Irrigation Project

3182 State Rt. 94W, Murray, KY 42071 - Farming since 1946

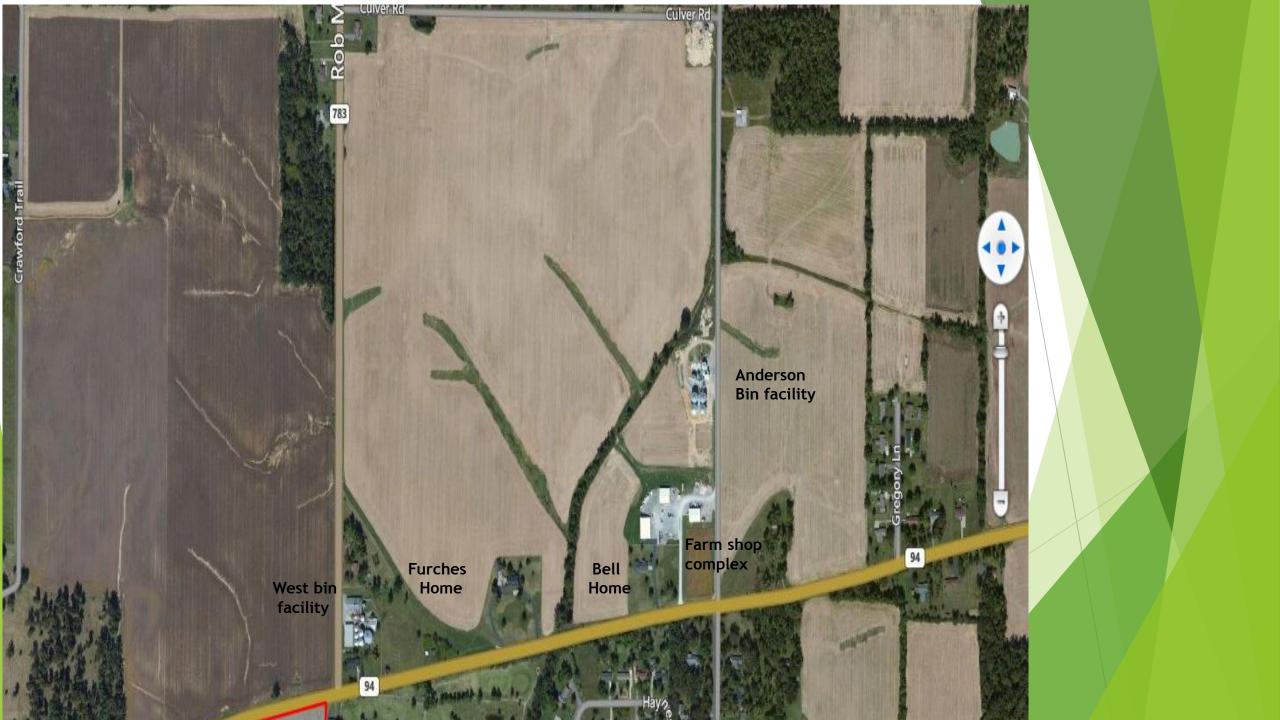


Furches Farms - 3 miles west of Murray on Hwy. 94

Home Farm - 150 acres

Our main grain complex - 550,000 bushel capacity, three farm shops, farm offices, and two family homes.

Joins an additional grain complex purchased in 2011 + 78 rented acres.



Probability of high volume wells in the Jackson Purchase Aquifers Porters Creek Clay *Improbable*

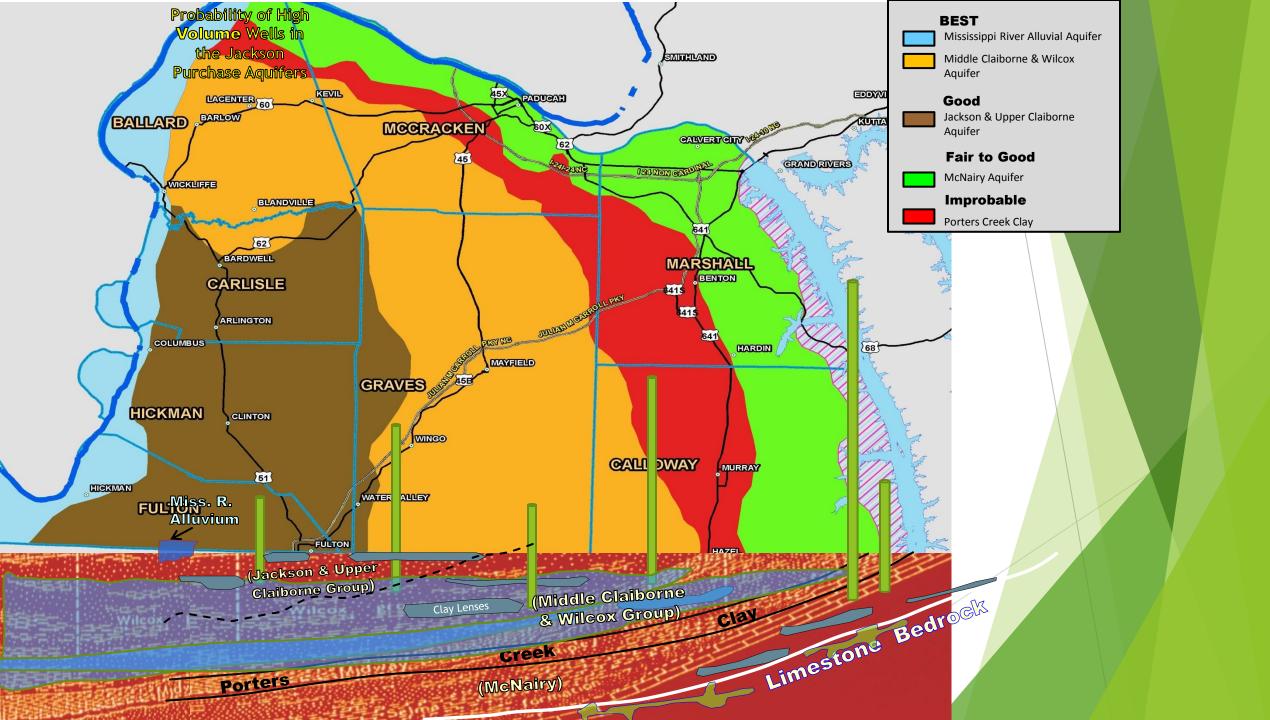
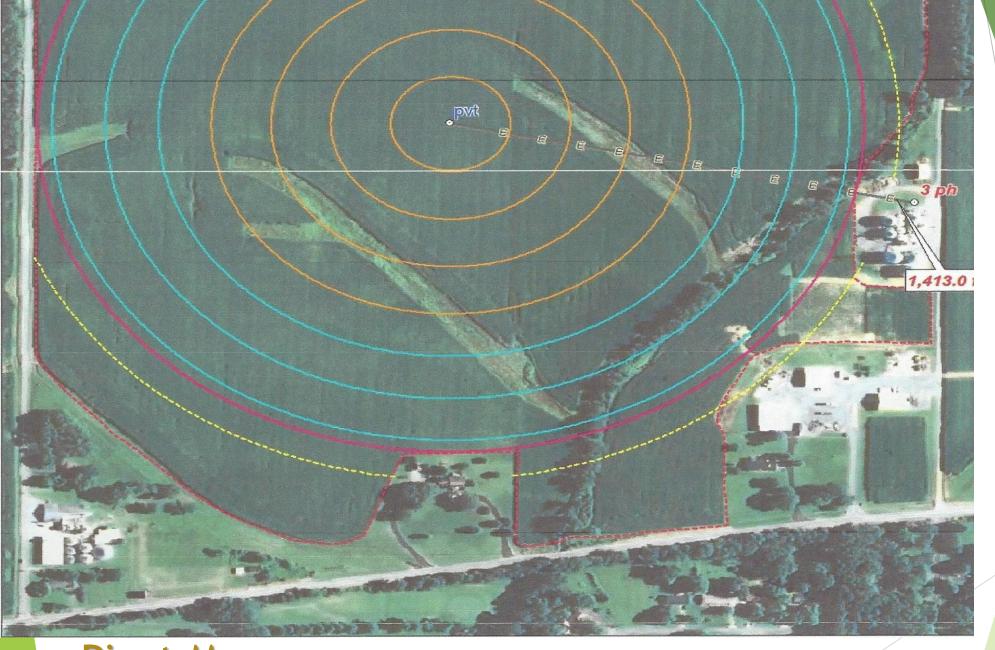


Table 5. Approximate maximum flow rate in different pipe sizes to keep velocity ≤ 5 feet per second.

Pipe diameter	Flow rate (gpm)
1/2	6
3/4	10
1	15
1 1/4	25
1 1/2	35
2	50
3	110
4	200
5	310
6	440
8	780
10	1225
12	1760
16	3140

Flow rate - 750 gal/minute 27,154 gallons to put 1" on 1 acre Can apply ½" on 123 acres in approx. 35 hours

Total application is approx. 1.7 million gallons



Pivot Map

- ➤ Drilled 490 feet deep
- ➤ Powered by 75 hp motor with shaft drive to bottom of 12" Well
- ➤ Well Drilling Cost \$49,125
- ➤ Additional cost for test well \$5,000

- ► VALLEY system cost \$76,126 (6 towers & an end gun. Covers 123 acres.
- ➤ Piping to Pivot 1300 ft. \$11,908 (\$9.16 per ft. includes trencher & labor)
- ➤ Chemigation Valve \$600
- ➤ Concrete & Misc. fittings \$2,034
- Control wire to Pivot \$3,597
 ►(\$2.77 per ft.)

Expected cost: \$153,515.00

Actual cost: \$163,840.00

Above ground 3-phase line extensions - \$8.00/ft.

Convert single to 3-phase - \$3.50/ft.

Underground trenching & pipe - \$5.75/ft.

Wire installed into pipe - \$9.00/ft.



Electrical panel

Located with electrical panel for grain complex.











