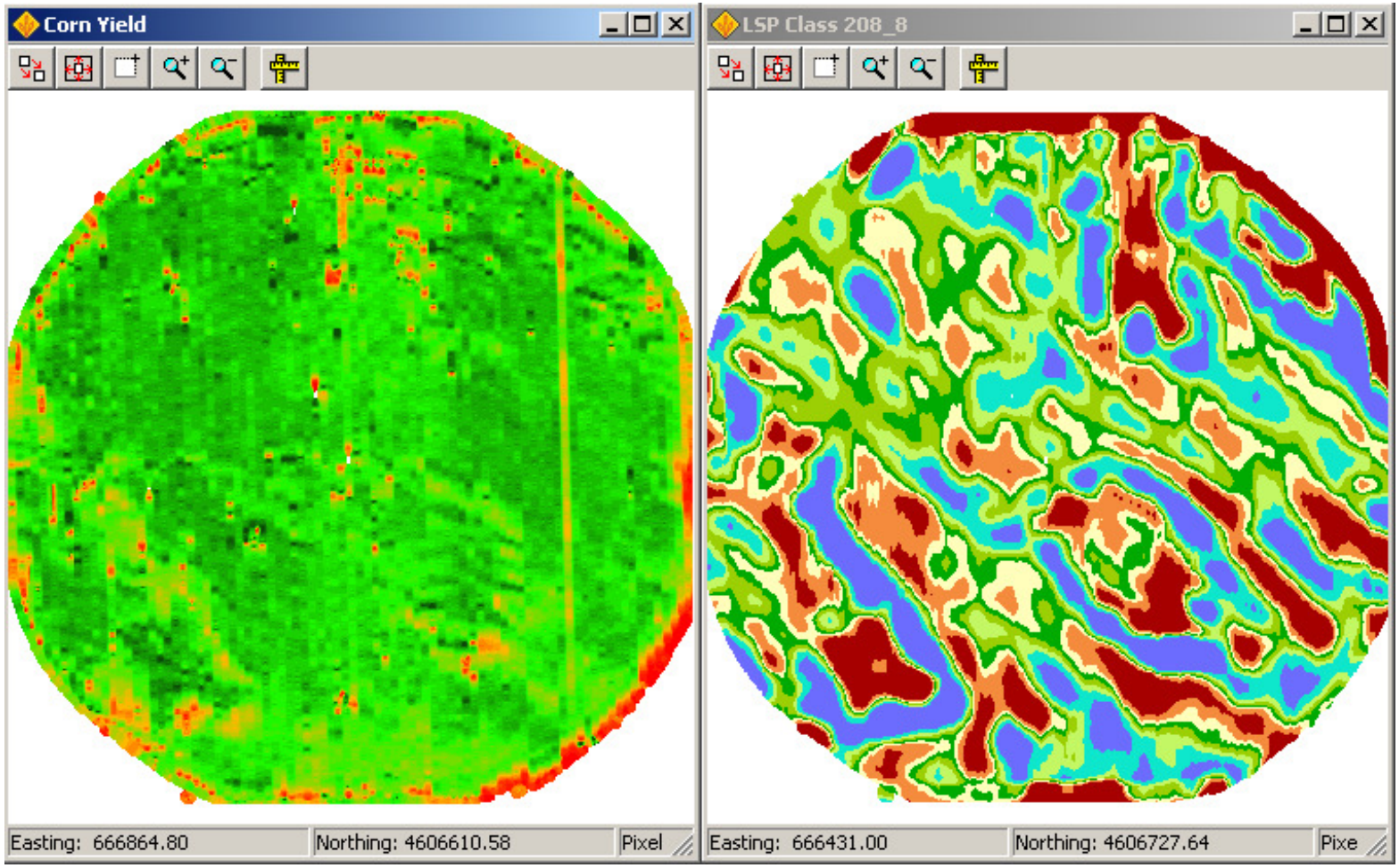
Delta Data Systems announces support to Variable Rate Irrigation technology

RxPivot -- automated generation of instruction sets for pivot control from zone based analysis.

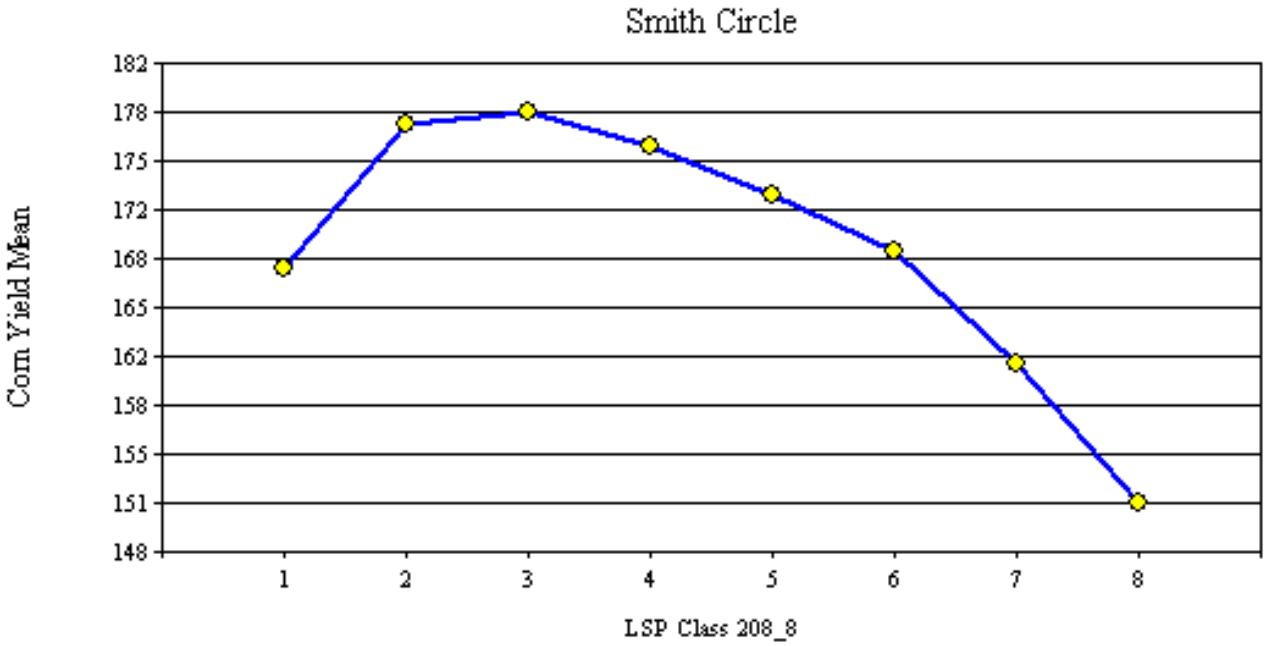
Delta Data Systems, Inc., 131 Third St., Picayune, MS 39466, (601) 799 1813, ren@deltadatasystems.com

Smith Pivot



Corn Yield Map

Landscape Position Zones



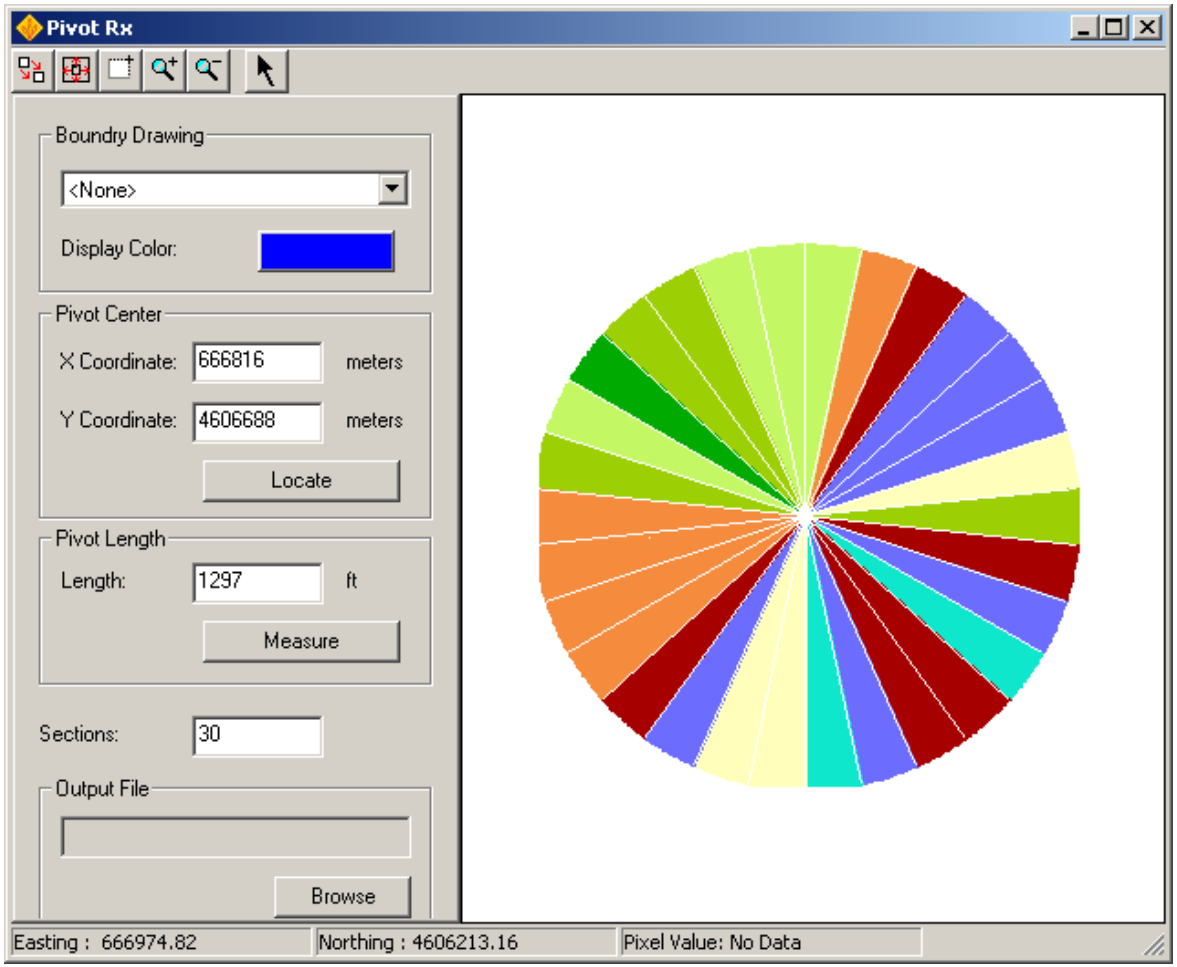
Crop-Terrain Curve. Would you interpret this as follows?

1) The lowest LSP, Zone 1 (where over-watering would likely collect) depressed yield outcomes which might ordinarily have been as high or higher as zones 2-4 because of higher EC values. Cut back on watering in Zone 1. Speed up the pivot.

2) Zones 2-5 are the better outcomes. If a scarce resource is to be allocated, make sure these areas have the greatest opportunity. Minimum travel speed.

3) Zone 6 and zone 1 have similar outcomes (but probably for different reasons). Set travel speed at an equivalent rate?

4) Zones 7 and 8 are the poorer outcomes. Watering at a constant rate did not 'pay-off'. Decrease watering by speeding up pivot travel .



This is a variable watering plan for Smith pivot with 21 unique instructions based on 30 slices.

A full circle will take 26 h. 8' to complete with these variations in pivot travel.

100% travel speed is 10.7 ft/min. At that rate, with a 650 gpm bore, the delivery is 0.15 ac.in.

MFOV	% of Max	Ac.In Deliv.
1	.65	0.23
2	.35	0.43
3	.35	0.43
4	.35	0.43
5	.35	0.43
6	.65	0.23
7	.70	0.22
8	.75	0.20

VR Irrigation Report

Time: Thu Jul 30 10:58:43 2009

Grower: Nebraska Farm

Farm: Smith Place

Field: Smith Circle

Season: Year2009

0,12,6,0.65

12,24,2,0.35

24,36,1,0.65

36,72,8,0.75

72,84,3,0.35

84,96,5,0.35

96,108,1,0.65

108,120,8,0.75

120,132,7,0.70

132,156,1,0.65

156,168,8,0.75

168,180,7,0.70

180,204,3,0.35

204,216,8,0.75

216,228,1,0.65

228,276,2,0.35

276,288,5,0.35

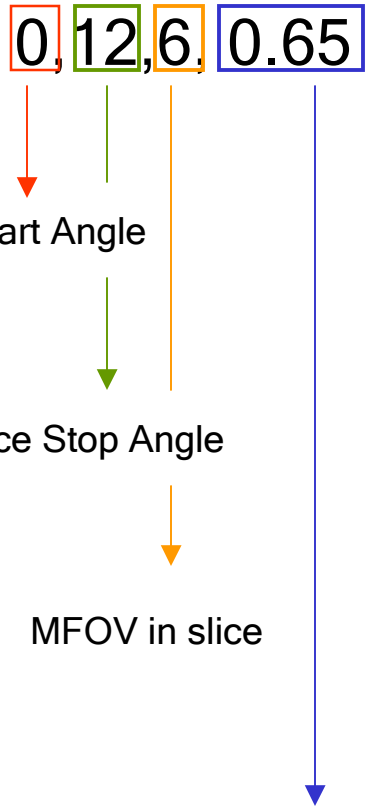
288,300,6,0.65

300,312,4,0.35

312,336,5,0.35

336,360,6,0.65

This is the Virr Report. Instructions interpreted as follows:



Rate. In this case, percent of Maximum travel speed.

10.7 * 0.65 = 6.95 ft/min delivering 0.23 ac.in. to the slice(s).