

Renwood Farms

Different Kind of Summer

It was a very different summer. The table at right shows the rainfall received in Central VA in 2013. After a wet June, July and Aug., Sept. turned dry. The temperature chart below shows that after a cooler-than-normal August, we had unusual heat in Sept.

What this meant to soybean production in 2013:

- The earlier the Maturity Group (MG) variety planted and the earlier they were planted, the better the yields. An MG 4.2 performed better than a 4.5 which performed better than a 5.2. Yield differences between planting by mid-May were huge compared to late May, June and July plantings.
- The cooler August reduced growth on the late-planted double-cropped soybeans. This reduced node numbers. Nodes are where soybean set pods.
- The wet July and Aug. kept roots shallow so when the heat and dry spell came in Sept., soil moisture reserves at the surface were low.



Flat pod at right in 2013:
Photo courtesy VA Tech

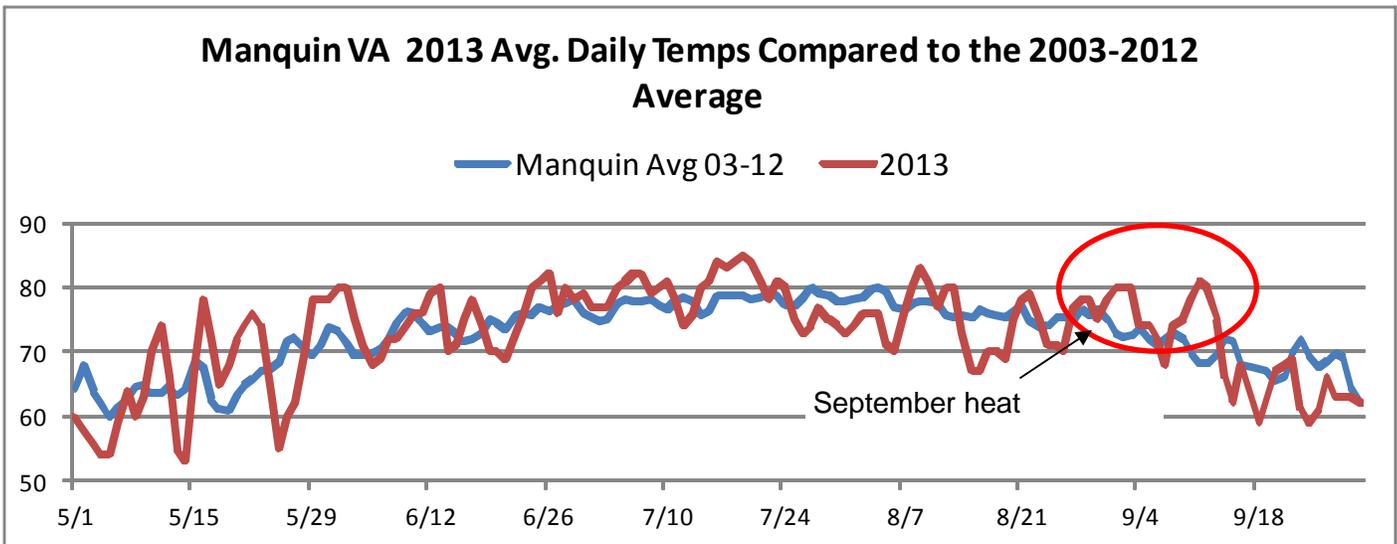
Manquin Rain (inch.)	Jun	July	Aug	Sept	Total
Avg. 03-10	4.1	4.0	4.4	4.3	16.9
2011	5.3	8.4	9.6	10.1	33.5
2012	2.6	3.1	1.5	2.4	9.6
2013	9.4	9.8	8.6	1.7	29.5

- Dr. David Holshouser, VA Tech soybean agronomist, reported several fields of “flat pods” and attributed it to the very dry Sept. (see photo).

At Renwood Farms, we deliver soybean varieties and seed treatments to produce above average yields in all types of summer weather.

Our goal at Renwood Farms is to provide to you:

- **consistency over time** with varieties that produce above average yields *in your fields*.
- **solutions** to address yield-limiting production problems
- **confidence** in planting USG genetics
- **security** in knowing the seed is protected with specific treatments to stop soil pathogens
- **enhanced farm profits** by using a systems approach to soybean production



USG Soybean Seed Test Plot Results

The 2013 plot results, shown at right and below, demonstrate that USG varieties yielded very well when with compared other brands of soybeans available on the market today.

The table at the very bottom is the average of all varieties grown in the 2012 VA Tech Extension On-Farm plots in 2012. Of the 18 varieties tested, USG placed 1st, 2nd and 6th in overall yields.

2013 Suffolk: planted 07/10/13: Kenansville Loamy Sand

Brand	Variety	Treatment	% above or below plot average
USG	76S22R	RenPro	91%
USG	75Z38	RenPro Plus	43%
Asgrow	5905	Untreated	7%
USG	75Z38	Untreated	-5%
Channel	5606R2STS	Untreated	-17%
USG	75J90R	RenPro Plus	-29%
Asgrow	6732	RenPro Plus	-39%
Asgrow	6732	Untreated	-49%
Cropland	6192	Cruiser Max & Optimizer	-61%

USG 2013 Variety Trial, Essex Co.: Planted May 20, 2013

Brand	Variety	Bu. /A
USG	74D32R	59
USG	74B58	59
USG	74B81R	58
USG	74A92R	58

VA Tech: 2012 Extension Service On-Farm Test Plots: Overall Average

Brand	Variety	Hanover	King & Queen	Prince George	Suffolk	Sussex	VSU	West-moreland	Avg	Avg. Rel. Yield
USG	74B81R	78.7	53.1					48.8	60.2	113
USG	7495nRS			67.3	73.5	42.9	57.4		60.3	110
Pioneer	94Y70	79.0	53.2	65.3	53.2	46.2	51.4	48.1	56.6	105
Asgrow	AG4730	71.3	41.6	65.1	58.3	46.7	64.3	45.1	56.1	104
Pioneer	94Y22	74.9	59.7	65.1	50.1	45.7	48.8	42.4	55.2	103
USG	74E88	75.8	59.8	58.0	51.0		45.0	47.9	56.3	102
Southern States	SS 4700 R2	76.9	58.6	67.3	34.6	42.4	59.3	44.7	54.8	102
Progeny	P 4710 RY	59.8	39.2	58.1	68.6	48.7	55.7	50.1	54.3	101
Hubner	H48-12R2	68.7	42.3	65.1	59.4	43.0	56.6	48.4	54.8	101
HBK (Bayer CS)	RY4620	72.2	43.1	69.3	43.7	45.4	52.8	45.0	53.1	98
Hubner	H46-01R2/STS	58.1	38.6	67.3	55.3	44.1	54.4	50.6	52.6	98
Asgrow	AG4832	70.5	37.1	67.1	50.6		58.6	45.4	54.9	98
RPM (Doebler's)	DB4512RR	68.2	41.1	70.4	66.6		45.5	38.1	55.0	97
Southern States	SS 4510N R2	65.9	39.4	66.2	69.2	36.6	45.8	48.1	53.0	97
Seed Consultants	SCS 9412RR	55.9	40.3	61.1	65.3	42.4	60.3	41.7	52.4	97
HBK (Bayer CS)	RY4721	75.6	40.1	59.9	44.8	43.8	52.0	44.8	51.6	95
Progeny	P 4510 RY	52.4	40.1	65.1	53.4		57.4	46.1	52.4	95
Seed Consultants	SCS 9472RR	55.7	37.1	69.3	65.6	39.2	46.1	44.5	51.1	94
Average Each Location		68.2	45.0	65.1	56.7	43.6	53.6	45.9	54.7	101

*Only varieties that were tested at 3 or more locations are included in this table

USG Varieties for 2014

Variety	Traits	RM	Notes
74D32R	N, RR2	4.3	A light tawny bean with excellent yield potential but with good stress tolerance for an early MG4 soybean. Yielded 108% in FS and 106% in DC in VA Tech OVT: Has had 68% wins against other brands in this maturity. Good resistance to Sudden Death and Frogeye Leaf Spot
74B58	N, RR, STS	4.5	This large-seeded, tawny bean has superb yield potential with a great disease package; with RR and STS traits: averaged 6% higher than average in VA Tech DC State Trials: Top yielder in Maryland OVT FS and DC MG4
74B81R	N, RR2, STS	4.8	Top Yielding MG4 tawny soybean in full-season and double-crop VA Tech 2011 state-wide OVT: Yielded 81.9 in FS MG4 OVT at Warsaw. Very good stem canker resistance with above average resistance to frogeye leaf spot. Replaces USG 74E88.
74A92R	N, RR2	4.9	High-yields in Virginia Tech 2012 OVT. Taller, narrow bean that stands well and responds to higher plant population: replaces USG 7495; had 71% wins compared to Pioneer 94Y70 and 94Y80. Has excellent resistance to stem canker and SDS
75Z38	N, RR	5.3	Top yields in VA Tech and NCSU Soybean 2011 OVT Trials; Finally, a Root Knot Nematode resistant bean with high yield potential. Strong disease package with resistance to soybean mosaic virus in a tawny (red) bean: for stress environments. Responds to lower populations.
7553	N, RR, STS	5.5	The standard in a MG5 maturity soybean: a tough bean that will pleasantly surprise growers with impressive yields in a good year. Remarkable shatter resistance with an impressive disease package
75J50R	N, RR2	5.5	A high yield tawny bean that has outstanding resistance to stem canker and good resistance to Frogeye leaf spot, Sudden Death and Cercospora. Designed for better soils or irrigation.
75Z98	N, RR	5.9	A late MG5 that yielded 105% in VA Tech State Trials in 2009 and 102% in 2011: top in NCSU three-year OVT average: moderately resistant to Race 1 SCN along with 3 and 14: strong resistance to stem canker
75J90R	N, RR2	5.9	Top yield in NCSU OVT 2-year trials; resistant to Root Knot nematode and SCN Race 3: moderately resistant to SCN Race 14. Excellent resistance to Stem Canker and very good resistance to Cercospora and Frogeye Leaf Spot: for better soils
76S22R	N, RR2	6.2	New for 2014! A Root-Knot nematode resistant soybean designed for the lighter soils of VA and NC. Above average yields in NC Trials in both May and June planting. A tawny bean with a medium height and semi-bushy growth type.

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For more information about Renwood Farms Seed,
check our web page at: <http://renwoodseed.com>

RenPro Soybean Seed Treatments from Renwood Farms

RenPro and **RenPro Plus** soybean seed treatments promote rapid early growth and protect roots from harmful pathogens. This aggressive early growth shades the ground to reduce weed competition and conserve soil moisture to produce higher yields.

RenPro soybean seed treatment contains four fungicides to help prevent pathogen resistance. These fungicides protect the seed and seedlings against the diseases in cool, moist soils when planting early and the diseases that stress plants in hot soils when planting double-cropped.

RenPro Plus contains a seed insecticide in addition to the four fungicides. Adding a seed insecticide provides early-season protection from thrips and bean-leaf beetles which stunt plants. In double-crop beans, this treatment provides a growth stimulant effect for quick emergence and shading.

RenPro seed treatments **contain molybdenum**. Molybdenum is the single most limiting micronutrient in VA and NC soybean production. Low plant moly levels can reduce yields by 50%. Adding moly to the seed treatment is the least expensive way to correct this problem.

BioFlex® is a Bio-Primed Inoculant (BPI) biological powered by probiotic microbes that are applied to seed to biologically protect, stimulate and enhance the seed's growth genetics and can be added with all RenPro seed treatments.

BioFlex® is an encapsulated seed inoculant providing *bacteria that produces nitrogen-fixing nodules* on soybean roots but also contains a balance of several other free living micro-organisms.

2013: Suffolk, VA : Planted July 10, 2013			
Brand	Var.	Treatment	Yield Bu. / acre
USG	75Z38	RenPro Plus Bioflex & Votivo	55
USG	75Z38	RenPro Plus	50
USG	75Z38	Untreated	47
Lynchburg Fine Sandy Loam: 70% sand			

2013 Seed Treatment Plot: King William Co. VA	
Variety: USG 74D32R Planted 07/03/13	
Seed Treatment	Bu. /A
RenPro Plus BioFlex	51
Untreated	47
Apron/ Max	46

BioFlex® protects the seed from pathogens outside the seed while promoting growth inside the seed. These microbes allow the seed to more efficiently uptake vital nutrients needed to promote a healthy growing environment for seed and seedling development.

Votivo® is a seed treatment used to reduce nematode populations and damage during early growth. It is the only treatment available today, seed treatment or otherwise, to limit nematode damage. Votivo can be order with **RenPro Plus** soybean seed treatment.