



Location: Louisiana

Conducted by: Ronnie Bardwell, Ph.D. - Ag Educator, Kentwood Co-op

Date: Summer 2015

Product: Supreme Plant Food 32-0-0

Trial Setup:

During the summer of 2015, a Royal Grow demonstration was conducted utilizing this product, 32-0-0 on two established Bahia grass pastures with a 3-4" stubble height in South Louisiana. Two different rates of 4 and 2 gallons per acre was compared to 22.5 gallons of Insol, a 32% liquid nitrogen fertilizer, per acre.

Fertilizers were applied foliarly to a separate 4 acre plot on the same day. A one (1) Square foot grass sample per plot was taken every 14 days after the fertilizer was applied. Each of the three (3) samples taken from all the plots were analyzed for crude protein, total digestive nutrients (T.D.N.) and pounds of dry matter per acre. Farm (Smith) began on May 20, 2015 and Farm (Bass) began on June 4, 2015. Both concluded 42 days after fertilizer was applied.

Trial Results:

Results from this demonstration showed that Bahia grass responded favorably from Royal Grow nitrogen fertilizer. Similar results of crude protein, T.D.N. and pounds of dry matter per acre were achieved by applying 2 gallons of Royal Grow 32-0-0 as compared to 4 gallons per acre.

Although the 22.5 gallons of Insol application per acre rate produced the highest levels of crude protein, T.D.N. and pounds of dry matter per acre, the 2 gallon rate of Royal Grow 32-0-0 produced similar results.

Crude protein levels were the highest for the first and second samples taken as compared to third sample. Energy (T.D.N.) also tended to be higher within 30 days after fertilizer application.



Detailed Results:

Bahia grass responded favorably from Royal Grow Supreme Plant Food 32-0-0.

2 and 4 gallons of Royal-Grow 32-0-0 produced similar results to 22.5 gallons of Insol.

Mike Smith Trial	Sample #	C.P.%	T.D.N%	(lbs.) D.M./Acre
Royal-Grow 4 gallon rate	1	12.1	62.0	1439
	2	12.2	59.6	3070
	3	10.7	59.9	4030
Royal-Grow 2 gallon rate	1	12.1	61.2	2111
	2	15.4	60.7	2687
	3	9.6	58.3	3742
22.5 gallons Insol	1	17.3	60.9	1535
	2	12.5	59.5	2591
	3	12.3	58.8	2974

Fred Bass Trial	Sample #	C.P.%	T.D.N%	(lbs.) D.M./Acre
Royal-Grow 4 gallon rate	1	10.1	62.2	1247
	2	10.8	56.9	4989
	3	8.9	60.4	4787
Royal-Grow 2 gallon rate	1	11.2	63.2	768
	2	8.5	59.7	4222
	3	7.7	60.5	4701
22.5 gallons Insol	1	14.2	63.1	959
	2	10.9	59.1	5277
	3	9.6	61.2	6045