



## Soil, Water and Forage Testing Laboratory

### Nitrogen recommendations applicable for methods used by laboratory.

## Nitrogen Soil Fertility Recommendations for Texas Grain and Row Crops

1M KCl, Cd-Reduction Nitrate-N (ppm or mg/kg) in Soil

updated on 3-30-2012: [soiltesting.tamu.edu](http://soiltesting.tamu.edu)

	0	2	4	6	8	10	12	14	16	18	20
	-----lbs N/acre-----										
AFRICAN MILLET	60	55	50	45	40	40	35	30	25	20	20
BARLEY (HEAVY GRAZING ON SANDY SOILS)	100	95	90	85	80	80	75	70	65	60	60
BARLEY (HEAVY GRAZING)	80	75	70	65	60	60	55	50	45	40	40
BARLEY GRAIN (30-40 BU/A)	50	45	40	35	30	30	25	20	15	10	10
BARLEY GRAIN (70-90 BU/A WITH LIGHT GRAZING)	100	95	90	85	80	80	75	70	65	60	60
CORN (100 BU/A)	100	95	90	85	80	80	75	70	65	60	60
CORN (110 BU/A)	120	115	110	105	105	100	95	90	85	85	80
CORN (120 BU/A)	130	125	120	120	115	110	105	100	100	95	90
CORN (130 BU/A)	140	135	135	130	125	120	115	115	110	105	100
CORN (140 BU/A)	150	150	145	140	135	130	130	125	120	115	110
CORN (150 BU/A)	180	175	170	165	160	160	155	150	145	140	140
CORN (160 BU/A)	190	185	180	180	175	170	165	160	160	155	150
CORN (170 BU/A)	200	200	195	190	185	180	180	175	170	165	160
CORN (180 BU/A)	215	210	205	200	200	195	190	185	180	180	175
CORN (190 BU/A)	225	220	220	215	210	205	200	200	195	190	185
CORN (200 BU/A)	260	255	250	245	240	240	235	230	225	220	220
CORN (210 BU/A)	270	265	265	260	255	250	245	245	240	235	230
CORN (220 BU/A)	285	280	275	270	270	265	260	255	250	250	245
CORN (230 BU/A)	295	295	290	285	280	275	275	270	265	260	255



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	0	2	4	6	8	10	12	14	16	18	20
	-----lbs N/acre-----										
CORN (240 BU/A)	310	305	300	300	295	290	285	280	280	275	270
CORN (250 BU/A)	350	345	340	335	330	330	325	320	315	310	310
CORN (260 BU/A)	360	360	355	350	345	340	340	335	330	325	320
CORN (270 BU/A)	375	370	370	365	360	355	350	350	345	340	335
CORN (70 BU/A)	70	65	60	55	50	50	45	40	35	30	30
CORN (80 BU/A)	80	75	70	65	60	60	55	50	45	40	40
CORN (90 BU/A)	90	85	80	75	70	70	65	60	55	50	50
GRAIN SORGHUM (1000 LBS/A)	20	15	10	5	0						
GRAIN SORGHUM (10000 LBS/A)	200	195	190	185	180	180	175	170	165	160	160
GRAIN SORGHUM (1500 LBS/A)	30	25	20	15	10	10	5	0			
GRAIN SORGHUM (2000 LBS/A)	40	35	30	25	20	20	15	10	5	0	
GRAIN SORGHUM (2500 LBS/A)	50	45	40	35	30	30	25	20	15	10	10
GRAIN SORGHUM (3000 LBS/A)	60	55	50	45	40	40	35	30	25	20	20
GRAIN SORGHUM (3500 LBS/A)	70	65	60	55	50	50	45	40	35	30	30
GRAIN SORGHUM (4000 LBS/A)	80	75	70	65	60	60	55	50	45	40	40
GRAIN SORGHUM (4500 LBS/A)	90	85	80	75	70	70	65	60	55	50	50
GRAIN SORGHUM (5000 LBS/A)	100	95	90	85	80	80	75	70	65	60	60
GRAIN SORGHUM (5500 LBS/A)	110	105	100	95	90	90	85	80	75	70	70





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RICE (SHORT VARIETIES <6,000 LBS/ACRE)

RICE (SHORT VARIETIES >10,000 LBS/ACRE)

RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)

RICE (TALL VARIETIES <6,000 LBS/ACRE)

RICE (TALL VARIETIES >10,000 LBS/ACRE)

RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)

RYE , GRAIN

SORGHUM ALMUM

TRITICALE GRAIN

WHEAT (20-29 BU/A) GRAIN ONLY

WHEAT (20-29 BU/A) GRAZING & GRAIN

WHEAT (30-39 BU/A) GRAIN ONLY

WHEAT (30-39 BU/A) GRAZING & GRAIN

WHEAT (40-59 BU/A) GRAIN ONLY

WHEAT (40-59 BU/A) GRAZING & GRAIN

WHEAT (60-79 BU/A) GRAIN ONLY

WHEAT (60-79 BU/A) GRAZING & GRAIN

WHEAT (80-100 BU/A) GRAIN ONLY

WHEAT (80-100 BU/A) GRAZING & GRAIN

	0	2	4	6	8	10	12	14	16	18	20
	-----lbs N/acre-----										
RICE (SHORT VARIETIES <6,000 LBS/ACRE)											
RICE (SHORT VARIETIES >10,000 LBS/ACRE)											
RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)											
RICE (TALL VARIETIES <6,000 LBS/ACRE)											
RICE (TALL VARIETIES >10,000 LBS/ACRE)											
RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)											
RYE , GRAIN	70	65	60	55	50	50	45	40	35	30	30
SORGHUM ALMUM	40	35	30	25	20	20	15	10	5	0	
TRITICALE GRAIN	70	65	60	55	50	50	45	40	35	30	30
WHEAT (20-29 BU/A) GRAIN ONLY	45	40	35	30	25	25	20	15	10	5	5
WHEAT (20-29 BU/A) GRAZING & GRAIN	60	55	50	45	40	40	35	30	25	20	20
WHEAT (30-39 BU/A) GRAIN ONLY	60	55	50	45	40	40	35	30	25	20	20
WHEAT (30-39 BU/A) GRAZING & GRAIN	80	75	70	65	60	60	55	50	45	40	40
WHEAT (40-59 BU/A) GRAIN ONLY	80	75	70	65	60	60	55	50	45	40	40
WHEAT (40-59 BU/A) GRAZING & GRAIN	120	115	110	105	100	100	95	90	85	80	80
WHEAT (60-79 BU/A) GRAIN ONLY	120	115	110	105	100	100	95	90	85	80	80
WHEAT (60-79 BU/A) GRAZING & GRAIN	160	155	150	145	140	140	135	130	125	120	120
WHEAT (80-100 BU/A) GRAIN ONLY	150	145	140	135	130	130	125	120	115	110	110
WHEAT (80-100 BU/A) GRAZING & GRAIN	200	195	190	185	180	180	175	170	165	160	160



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	25	30	35	40	45	50	55	60	65	70	75
	-----lbs N/acre-----										
AFRICAN MILLET	10	0									
BARLEY (HEAVY GRAZING ON SANDY SOILS)	50	40	30	20	10	0					
BARLEY (HEAVY GRAZING)	30	20	10	0							
BARLEY GRAIN (30-40 BU/A)	0										
BARLEY GRAIN (70-90 BU/A WITH LIGHT GRAZING)	50	40	30	20	10	0					
CORN (100 BU/A)	50	40	30	20	10	0					
CORN (110 BU/A)	70	60	50	40	30	20	10	0			
CORN (120 BU/A)	80	70	60	50	40	30	20	10	0		
CORN (130 BU/A)	90	80	70	60	50	40	30	20	10	0	
CORN (140 BU/A)	100	90	80	70	60	50	40	30	20	10	0
CORN (150 BU/A)	130	120	110	100	90	80	70	60	50	40	30
CORN (160 BU/A)	140	130	120	110	100	90	80	70	60	50	40
CORN (170 BU/A)	150	140	130	120	110	100	90	80	70	60	50
CORN (180 BU/A)	165	155	145	135	125	115	105	95	85	75	65
CORN (190 BU/A)	175	165	155	145	135	125	115	105	95	85	75
CORN (200 BU/A)	210	200	190	180	170	160	150	140	130	120	110
CORN (210 BU/A)	220	210	200	190	180	170	160	150	140	130	120
CORN (220 BU/A)	235	225	215	205	195	185	175	165	155	145	135
CORN (230 BU/A)	245	235	225	215	205	195	185	175	165	155	145



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1M KCl, Cd-Reduction Nitrate-N (ppm or mg/kg) in Soil

	25	30	35	40	45	50	55	60	65	70	75
	-----lbs N/acre-----										
CORN (240 BU/A)	260	250	240	230	220	210	200	190	180	170	160
CORN (250 BU/A)	300	290	280	270	260	250	240	230	220	210	200
CORN (260 BU/A)	310	300	290	280	270	260	250	240	230	220	210
CORN (270 BU/A)	325	315	305	295	285	275	265	255	245	235	225
CORN (70 BU/A)	20	10	0								
CORN (80 BU/A)	30	20	10	0							
CORN (90 BU/A)	40	30	20	10	0						
GRAIN SORGHUM (1000 LBS/A)											
GRAIN SORGHUM (10000 LBS/A)	150	140	130	120	110	100	90	80	70	60	50
GRAIN SORGHUM (1500 LBS/A)											
GRAIN SORGHUM (2000 LBS/A)											
GRAIN SORGHUM (2500 LBS/A)	0										
GRAIN SORGHUM (3000 LBS/A)	10	0									
GRAIN SORGHUM (3500 LBS/A)	20	10	0								
GRAIN SORGHUM (4000 LBS/A)	30	20	10	0							
GRAIN SORGHUM (4500 LBS/A)	40	30	20	10	0						
GRAIN SORGHUM (5000 LBS/A)	50	40	30	20	10	0					
GRAIN SORGHUM (5500 LBS/A)	60	50	40	30	20	10	0				





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1M KCl, Cd-Reduction Nitrate-N (ppm or mg/kg) in Soil

	25	30	35	40	45	50	55	60	65	70	75
	-----lbs N/acre-----										
RICE (SHORT VARIETIES <6,000 LBS/ACRE)											
RICE (SHORT VARIETIES >10,000 LBS/ACRE)											
RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)											
RICE (TALL VARIETIES <6,000 LBS/ACRE)											
RICE (TALL VARIETIES >10,000 LBS/ACRE)											
RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)											
RYE , GRAIN	20	10	0								
SORGHUM ALMUM											
TRITICALE GRAIN	20	10	0								
WHEAT (20-29 BU/A) GRAIN ONLY	0										
WHEAT (20-29 BU/A) GRAZING & GRAIN	10	0									
WHEAT (30-39 BU/A) GRAIN ONLY	10	0									
WHEAT (30-39 BU/A) GRAZING & GRAIN	30	20	10	0							
WHEAT (40-59 BU/A) GRAIN ONLY	30	20	10	0							
WHEAT (40-59 BU/A) GRAZING & GRAIN	70	60	50	40	30	20	10	0			
WHEAT (60-79 BU/A) GRAIN ONLY	70	60	50	40	30	20	10	0			
WHEAT (60-79 BU/A) GRAZING & GRAIN	110	100	90	80	70	60	50	40	30	20	10
WHEAT (80-100 BU/A) GRAIN ONLY	100	90	80	70	60	50	40	30	20	10	0
WHEAT (80-100 BU/A) GRAZING & GRAIN	150	140	130	120	110	100	90	80	70	60	50





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1M KCl, Cd-Reduction Nitrate-N (ppm or mg/kg) in Soil

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80	90	100	110	120	130	140	150
-----lbs N/acre-----							

AFRICAN MILLET

BARLEY (HEAVY GRAZING ON SANDY SOILS)

BARLEY (HEAVY GRAZING)

BARLEY GRAIN (30-40 BU/A)

BARLEY GRAIN (70-90 BU/A WITH LIGHT GRAZING)

CORN (100 BU/A)

CORN (110 BU/A)

CORN (120 BU/A)

CORN (130 BU/A)

CORN (140 BU/A)

CORN (150 BU/A)

CORN (160 BU/A)

CORN (170 BU/A)

CORN (180 BU/A)

CORN (190 BU/A)

CORN (200 BU/A)

CORN (210 BU/A)

CORN (220 BU/A)

CORN (230 BU/A)

20	0						
30	10	0					
40	20	0					
55	35	15	0				
65	45	25	5	0			
100	80	60	40	20	0		
110	90	70	50	30	10	0	
125	105	85	65	45	25	5	0
135	115	95	75	55	35	15	0





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GRAIN SORGHUM (6000 LBS/A)

GRAIN SORGHUM (6500 LBS/A)

GRAIN SORGHUM (7000 LBS/A)

GRAIN SORGHUM (7500 LBS/A)

GRAIN SORGHUM (8000 LBS/A)

GRAIN SORGHUM (8500 LBS/A)

GRAIN SORGHUM (9000 LBS/A)

GRAIN SORGHUM (9500 LBS/A)

HEGARI

MILLET , 2 HAY CUTTINGS OR MODERATE GRAZING

MILLET , LIGHT GRAZING OR 1 HAY CUTTING

OATS (60-80 BU/A)

OATS (80-100 BU/A)

OATS (SOD SEEDED)

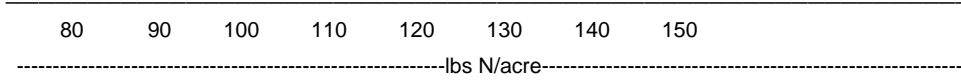
OATS ,HAY ONLY (2 -3 TONS/A)

RED TOP CANE (GRAIN)

RICE (MEDIUM HEIGHT VARIETIES <6,000 LBS/ACRE)

RICE (MEDIUM HEIGHT VARIETIES >10,000 LBS/ACRE)

RICE (MEDIUM HEIGHT VARIETIES 6,000-10,000 LBS/ACRE)



	0							
	10	0						
	20	0						
	30	10	0					



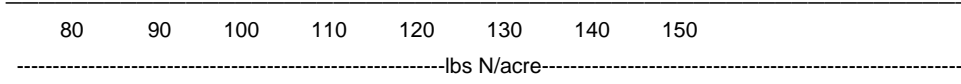
**Soil, Water and Forage Testing Laboratory**

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RICE (SHORT VARIETIES <6,000 LBS/ACRE)

RICE (SHORT VARIETIES >10,000 LBS/ACRE)

RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)

RICE (TALL VARIETIES <6,000 LBS/ACRE)

RICE (TALL VARIETIES >10,000 LBS/ACRE)

RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)

RYE , GRAIN

SORGHUM ALMUM

TRITICALE GRAIN

WHEAT (20-29 BU/A) GRAIN ONLY

WHEAT (20-29 BU/A) GRAZING & GRAIN

WHEAT (30-39 BU/A) GRAIN ONLY

WHEAT (30-39 BU/A) GRAZING & GRAIN

WHEAT (40-59 BU/A) GRAIN ONLY

WHEAT (40-59 BU/A) GRAZING & GRAIN

WHEAT (60-79 BU/A) GRAIN ONLY

WHEAT (60-79 BU/A) GRAZING & GRAIN

0

WHEAT (80-100 BU/A) GRAIN ONLY

WHEAT (80-100 BU/A) GRAZING & GRAIN

40      20      0



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## Nitrogen Soil Fertility Recommendations for Forage Crops

Additional comments which may appear on soil test reports

updated on 3-30-2012: [soiltesting.tamu.edu](http://soiltesting.tamu.edu)

IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-2.5 TONS/A AVG.)	Apply an additional 125 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-3 TONS/A AVG.)	Apply an additional 150 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-1.5 TONS/A AVG.)	Apply an additional 75 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2 TONS/A AVG.)	Apply an additional 100 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2.5 TONS/A AVG.)	Apply an additional 125 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-3 TONS/A AVG.)	Apply an additional 150 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2 TONS/A AVG.)	Apply an additional 100 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2.5 TONS/A AVG.)	Apply an additional 125 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-3 TONS/A AVG.)	Apply an additional 150 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2 TONS/A AVG.)	Apply an additional 100 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2.5 TONS/A AVG.)	Apply an additional 125 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-3 TONS/A AVG.)	Apply an additional 150 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2 TONS/A AVG.)	Apply an additional 100 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2.5 TONS/A AVG.)	Apply an additional 125 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-3 TONS/A AVG.)	Apply an additional 150 lbs/A of nitrogen for each subsequent hay cuttings.
IMPROVED AND HYBRID BERMUDA GRASS (ESTABLISHMENT)	Apply an additional 40 lbs/A of nitrogen upon 75% vegetative cover.
IMPROVED AND HYBRID BERMUDA GRASS (IRRIGATED , ESTABLISHMENT)	Apply an additional 40 lbs/A of nitrogen upon 75% vegetative cover.
IMPROVED AND HYBRID BERMUDA GRASS, GRAZING	Apply an additional 70 lbs/A of nitrogen for each subsequent heavy graze down.
JOHNSON GRASS , 1 HAY CUTTING OR LIGHT GRAZING	



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Additional comments which may appear on soil test reports

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AFRICAN MILLET

BARLEY (HEAVY GRAZING ON SANDY SOILS)

Apply an additional 80 lbs/A of nitrogen in early spring followed by 40 lbs of nitrogen in late spring.

BARLEY (HEAVY GRAZING)

Apply an additional 80 lbs/A of nitrogen in early spring.

BARLEY GRAIN (30-40 BU/A)

BARLEY GRAIN (70-90 BU/A WITH LIGHT GRAZING)

CORN (100 BU/A)

CORN (110 BU/A)

CORN (120 BU/A)

CORN (130 BU/A)

CORN (140 BU/A)

CORN (150 BU/A)

CORN (160 BU/A)

CORN (170 BU/A)

CORN (180 BU/A)

CORN (190 BU/A)

CORN (200 BU/A)

CORN (210 BU/A)

CORN (220 BU/A)

CORN (230 BU/A)



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GRAIN SORGHUM (6000 LBS/A)

GRAIN SORGHUM (6500 LBS/A)

GRAIN SORGHUM (7000 LBS/A)

GRAIN SORGHUM (7500 LBS/A)

GRAIN SORGHUM (8000 LBS/A)

GRAIN SORGHUM (8500 LBS/A)

GRAIN SORGHUM (9000 LBS/A)

GRAIN SORGHUM (9500 LBS/A)

HEGARI

MILLET , 2 HAY CUTTINGS OR MODERATE GRAZING

MILLET , LIGHT GRAZING OR 1 HAY CUTTING

OATS (60-80 BU/A)

OATS (80-100 BU/A)

OATS (SOD SEEDED)

OATS ,HAY ONLY (2 -3 TONS/A)

RED TOP CANE (GRAIN)

RICE (MEDIUM HEIGHT VARIETIES <6,000 LBS/ACRE)

RICE (MEDIUM HEIGHT VARIETIES >10,000 LBS/ACRE)

RICE (MEDIUM HEIGHT VARIETIES 6,000-10,000 LBS/ACRE)

If moisture conditions are suitable, topdress with an additional 40 lbs/A of nitrogen after heavy graze down.

Apply 1/2 of nitrogen at preplant and topdress remainder in late winter.

Topdress an additional 50 lbs/A of nitrogen in late fall and again in late winter.

Follow the Texas Rice Production Guidelines---

[http://beaumont.tamu.edu/eLibrary/ExtensionBulletins\\_default.htm](http://beaumont.tamu.edu/eLibrary/ExtensionBulletins_default.htm)

Follow the Texas Rice Production Guidelines---

[http://beaumont.tamu.edu/eLibrary/ExtensionBulletins\\_default.htm](http://beaumont.tamu.edu/eLibrary/ExtensionBulletins_default.htm)

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## Soil, Water and Forage Testing Laboratory

### Nitrogen recommendations applicable for methods used by laboratory.

## Nitrogen Soil Fertility Recommendations for Texas Grain and Row Crops

Additional comments which may appear on soil test reports

updated on 3-30-2012: [soiltesting.tamu.edu](http://soiltesting.tamu.edu)

RICE (SHORT VARIETIES <6,000 LBS/ACRE)

Follow the Texas Rice Production Guidelines---

[http://beaumont.tamu.edu/eLibrary/ExtensionBulletins\\_default.htm](http://beaumont.tamu.edu/eLibrary/ExtensionBulletins_default.htm)

RICE (SHORT VARIETIES >10,000 LBS/ACRE)

Follow the Texas Rice Production Guidelines---

[http://beaumont.tamu.edu/eLibrary/ExtensionBulletins\\_default.htm](http://beaumont.tamu.edu/eLibrary/ExtensionBulletins_default.htm)

RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)

Follow the Texas Rice Production Guidelines---

[http://beaumont.tamu.edu/eLibrary/ExtensionBulletins\\_default.htm](http://beaumont.tamu.edu/eLibrary/ExtensionBulletins_default.htm)

RICE (TALL VARIETIES <6,000 LBS/ACRE)

Follow the Texas Rice Production Guidelines---

[http://beaumont.tamu.edu/eLibrary/ExtensionBulletins\\_default.htm](http://beaumont.tamu.edu/eLibrary/ExtensionBulletins_default.htm)

RICE (TALL VARIETIES >10,000 LBS/ACRE)

Follow the Texas Rice Production Guidelines---

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RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)

Follow the Texas Rice Production Guidelines---

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RYE , GRAIN

SORGHUM ALMUM

TRITICALE GRAIN

WHEAT (20-29 BU/A) GRAIN ONLY

Topdress with an additional 30 lbs/A of nitrogen after livestock removal and prior to jointing.

WHEAT (20-29 BU/A) GRAZING & GRAIN

Apply 1/3 of recommended nitrogen at preplant and remainder prior to jointing.

WHEAT (30-39 BU/A) GRAIN ONLY

WHEAT (30-39 BU/A) GRAZING & GRAIN

Topdress with an additional 30 to 50 lbs/A of nitrogen after livestock removal and prior to jointing.

WHEAT (40-59 BU/A) GRAIN ONLY

Apply 1/3 of recommended nitrogen at preplant and remainder prior to jointing.

WHEAT (40-59 BU/A) GRAZING & GRAIN

Topdress with an additional 40 to 60 lbs/A of nitrogen after livestock removal and prior to jointing.

WHEAT (60-79 BU/A) GRAIN ONLY

Apply 1/3 of recommended nitrogen at preplant and remainder prior to jointing.

WHEAT (60-79 BU/A) GRAZING & GRAIN

Topdress with an additional 50 to 70 lbs/A of nitrogen after livestock removal and prior to jointing.

WHEAT (80-100 BU/A) GRAIN ONLY

Apply 1/3 of recommended nitrogen at preplant and remainder prior to jointing.

WHEAT (80-100 BU/A) GRAZING & GRAIN

Topdress with an additional 60 to 80 lbs/A of nitrogen after livestock removal and prior to jointing.