



## Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

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

Mehlich III potassium by ICP only (ppm or mg/kg) in Soil

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

	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K2O/acre-----										
AFRICAN MILLET	40	35	30	30	25	25	20	20	20	15	10
BARLEY (HEAVY GRAZING ON SANDY SOILS)	120	110	100	90	80	75	70	65	60	50	40
BARLEY (HEAVY GRAZING)	120	110	100	90	80	75	70	65	60	50	40
BARLEY GRAIN (30-40 BU/A)	40	35	30	30	25	25	20	20	20	15	10
BARLEY GRAIN (70-90 BU/A WITH LIGHT GRAZING)	90	80	75	65	60	55	50	50	45	35	30
CORN (100 BU/A)	80	70	65	60	50	50	45	40	40	35	25
CORN (110 BU/A)	130	115	105	95	85	80	75	70	65	55	45
CORN (120 BU/A)	130	115	105	95	85	80	75	70	65	55	45
CORN (130 BU/A)	130	115	105	95	85	80	75	70	65	55	45
CORN (140 BU/A)	130	115	105	95	85	80	75	70	65	55	45
CORN (150 BU/A)	130	115	105	95	85	80	75	70	65	55	45
CORN (160 BU/A)	140	125	115	105	95	85	80	75	70	60	50
CORN (170 BU/A)	140	125	115	105	95	85	80	75	70	60	50
CORN (180 BU/A)	140	125	115	105	95	85	80	75	70	60	50
CORN (190 BU/A)	140	125	115	105	95	85	80	75	70	60	50
CORN (200 BU/A)	140	125	115	105	95	85	80	75	70	60	50
CORN (210 BU/A)	160	145	135	125	115	110	105	100	95	85	70
CORN (220 BU/A)	160	145	135	125	115	110	105	100	95	85	70
CORN (230 BU/A)	160	145	135	125	115	110	105	100	95	85	70



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	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K2O/acre-----										
CORN (240 BU/A)	180	165	155	145	135	130	125	120	115	105	95
CORN (250 BU/A)	180	165	155	145	135	130	125	120	115	105	95
CORN (260 BU/A)	180	165	155	145	135	130	125	120	115	105	95
CORN (270 BU/A)	180	165	155	145	135	130	125	120	115	105	95
CORN (70 BU/A)	80	70	65	60	50	50	45	40	40	35	25
CORN (80 BU/A)	80	70	65	60	50	50	45	40	40	35	25
CORN (90 BU/A)	80	70	65	60	50	50	45	40	40	35	25
COTTON (2.0 BALES/A)	120	110	100	90	80	75	70	65	60	50	40
COTTON (3.0 BALES/A)	150	140	130	120	110	105	100	95	90	80	70
COTTON (3.5 BALES/A)	120	110	100	90	80	75	70	65	60	50	40
COTTON (4.0 BALES/A)	150	140	130	120	110	105	100	95	90	80	70
COTTON (4.5 BALES/A)	150	140	130	120	110	105	100	95	90	80	70
COTTON (5.0 BALES/A)	150	140	130	120	110	105	100	95	90	80	70
COTTON (DRYLAND OR IRRIGATION , 1.5 BALES/A)	50	45	40	35	30	30	30	25	25	20	15
COTTON (DRYLAND OR LIMITED IRRIGATION , 1 BALE/A)	30	25	25	20	20	15	15	15	15	10	10
COTTON (FULL IRRIGATION , 2.5 BALE/A)	120	110	100	90	80	75	70	65	60	50	40
GRAIN SORGHUM (1000 LBS/A)	20	15	15	15	10	10	10	10	10	5	5
GRAIN SORGHUM (10000 LBS/A)	150	140	130	120	110	105	100	95	90	80	70
GRAIN SORGHUM (1500 LBS/A)	20	15	15	15	10	10	10	10	10	5	5



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	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K2O/acre-----										
GRAIN SORGHUM (2000 LBS/A)	20	15	15	15	10	10	10	10	10	5	5
GRAIN SORGHUM (2500 LBS/A)	50	25	0	0	0	0	0	0	0	0	0
GRAIN SORGHUM (3000 LBS/A)	80	70	65	60	50	50	45	40	40	35	25
GRAIN SORGHUM (3500 LBS/A)	80	70	65	60	50	50	45	40	40	35	25
GRAIN SORGHUM (4000 LBS/A)	90	80	75	65	60	55	50	50	45	35	30
GRAIN SORGHUM (4500 LBS/A)	90	80	75	65	60	55	50	50	45	35	30
GRAIN SORGHUM (5000 LBS/A)	100	90	80	75	65	60	60	55	50	40	35
GRAIN SORGHUM (5500 LBS/A)	100	90	80	75	65	60	60	55	50	40	35
GRAIN SORGHUM (6000 LBS/A)	110	100	90	80	70	70	65	60	55	45	35
GRAIN SORGHUM (6500 LBS/A)	110	100	90	80	70	70	65	60	55	45	35
GRAIN SORGHUM (7000 LBS/A)	120	110	100	90	80	75	70	65	60	50	40
GRAIN SORGHUM (7500 LBS/A)	120	110	100	90	80	75	70	65	60	50	40
GRAIN SORGHUM (8000 LBS/A)	120	110	100	90	80	75	70	65	60	50	40
GRAIN SORGHUM (8500 LBS/A)	150	140	130	120	110	105	100	95	90	80	70
GRAIN SORGHUM (9000 LBS/A)	150	140	130	120	110	105	100	95	90	80	70
GRAIN SORGHUM (9500 LBS/A)	150	140	130	120	110	105	100	95	90	80	70
HEGARI	60	55	50	45	40	35	35	30	30	25	20
MILLET , 2 HAY CUTTINGS OR MODERATE GRAZING	40	35	30	25	20	20	20	15	15	10	5
MILLET , LIGHT GRAZING OR 1 HAY CUTTING	40	35	30	30	25	25	20	20	20	15	10



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	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K <sub>2</sub> O/acre-----										
OATS (60-80 BU/A)	40	35	30	30	25	25	20	20	20	15	10
OATS (80-100 BU/A)	100	90	80	75	65	60	60	55	50	40	35
OATS (SOD SEEDED)	100	90	80	75	65	60	60	55	50	40	35
OATS ,HAY ONLY (2 -3 TONS/A)	40	35	30	30	25	25	20	20	20	15	10
RED TOP CANE (GRAIN)	120	110	100	90	80	75	70	65	60	50	40
RICE (MEDIUM HEIGHT VARIETIES <6,000 LBS/ACRE)	120	110	100	90	80	75	70	65	60	50	40
RICE (MEDIUM HEIGHT VARIETIES >10,000 LBS/ACRE)	120	110	100	90	80	75	70	65	60	50	40
RICE (MEDIUM HEIGHT VARIETIES 6,000-10,000 LBS/ACRE)	120	110	100	90	80	75	70	65	60	50	40
RICE (SHORT VARIETIES <6,000 LBS/ACRE)	100	90	80	70	60	55	50	45	40	30	20
RICE (SHORT VARIETIES >10,000 LBS/ACRE)	100	90	80	70	60	55	50	45	40	30	20
RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)	100	90	80	70	60	55	50	45	40	30	20
RICE (TALL VARIETIES <6,000 LBS/ACRE)	150	140	130	120	110	105	100	95	90	80	70
RICE (TALL VARIETIES >10,000 LBS/ACRE)	150	140	130	120	110	105	100	95	90	80	70
RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)	150	140	130	120	110	105	100	95	90	80	70
RYE , GRAIN	120	110	100	90	80	75	70	65	60	50	40
SORGHUM ALMUM	120	110	100	90	80	75	70	65	60	50	40
TRITICALE GRAIN	40	35	30	30	25	25	20	20	20	15	10
WHEAT (20-29 BU/A) GRAIN ONLY	120	110	100	90	80	75	70	65	60	50	40
WHEAT (20-29 BU/A) GRAZING & GRAIN	120	110	100	90	80	75	70	65	60	50	40



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Mehlich III potassium by ICP only (ppm or mg/kg) in Soil

	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K <sub>2</sub> O/acre-----										
WHEAT (30-39 BU/A) GRAIN ONLY	120	110	100	90	80	75	70	65	60	50	40
WHEAT (30-39 BU/A) GRAZING & GRAIN	120	110	100	90	80	75	70	65	60	50	40
WHEAT (40-59 BU/A) GRAIN ONLY	120	110	100	90	80	75	70	65	60	50	40
WHEAT (40-59 BU/A) GRAZING & GRAIN	120	110	100	90	80	75	70	65	60	50	40
WHEAT (60-79 BU/A) GRAIN ONLY	120	110	100	90	80	75	70	65	60	50	40
WHEAT (60-79 BU/A) GRAZING & GRAIN	120	110	100	90	80	75	70	65	60	50	40
WHEAT (80-100 BU/A) GRAIN ONLY	120	110	100	90	80	75	70	65	60	50	40
WHEAT (80-100 BU/A) GRAZING & GRAIN	120	110	100	90	80	75	70	65	60	50	40



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Mehlich III potassium by ICP only (ppm or mg/kg) in Soil

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
AFRICAN MILLET	10	5	0								
BARLEY (HEAVY GRAZING ON SANDY SOILS)	30	20	10	0							
BARLEY (HEAVY GRAZING)	30	20	10	0							
BARLEY GRAIN (30-40 BU/A)	10	5	0								
BARLEY GRAIN (70-90 BU/A WITH LIGHT GRAZING)	25	15	10	0							
CORN (100 BU/A)	20	15	5	0							
CORN (110 BU/A)	35	25	15	5	0						
CORN (120 BU/A)	35	25	15	5	0						
CORN (130 BU/A)	35	25	15	5	0						
CORN (140 BU/A)	35	25	15	5	0						
CORN (150 BU/A)	35	25	15	5	0						
CORN (160 BU/A)	35	25	15	5	0						
CORN (170 BU/A)	35	25	15	5	0						
CORN (180 BU/A)	35	25	15	5	0						
CORN (190 BU/A)	35	25	15	5	0						
CORN (200 BU/A)	35	25	15	5	0						
CORN (210 BU/A)	60	50	40	30	20	15	10	0			
CORN (220 BU/A)	60	50	40	30	20	15	10	0			
CORN (230 BU/A)	60	50	40	30	20	15	10	0			



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	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
CORN (240 BU/A)	85	75	65	55	45	40	35	25	15	5	0
CORN (250 BU/A)	85	75	65	55	45	40	35	25	15	5	0
CORN (260 BU/A)	85	75	65	55	45	40	35	25	15	5	0
CORN (270 BU/A)	85	75	65	55	45	40	35	25	15	5	0
CORN (70 BU/A)	20	15	5	0							
CORN (80 BU/A)	20	15	5	0							
CORN (90 BU/A)	20	15	5	0							
COTTON (2.0 BALES/A)	30	20	10	0							
COTTON (3.0 BALES/A)	60	50	40	30	20	15	10	0			
COTTON (3.5 BALES/A)	30	20	10	0	0	0	0	0			
COTTON (4.0 BALES/A)	60	50	40	30	20	15	10	0			
COTTON (4.5 BALES/A)	60	50	40	30	20	15	10	0			
COTTON (5.0 BALES/A)	60	50	40	30	20	15	10	0			
COTTON (DRYLAND OR IRRIGATION , 1.5 BALES/A)	10	10	5	0	0	0	0	0			
COTTON (DRYLAND OR LIMITED IRRIGATION , 1 BALE/A)	5	5	0	0	0	0	0	0			
COTTON (FULL IRRIGATION , 2.5 BALE/A)	30	20	10	0							
GRAIN SORGHUM (1000 LBS/A)	5	0									
GRAIN SORGHUM (10000 LBS/A)	60	50	40	30	20	15	10	0			
GRAIN SORGHUM (1500 LBS/A)	5	0	0	0	0	0	0	0			







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	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
OATS (60-80 BU/A)	10	5	0								
OATS (80-100 BU/A)	25	20	10	0							
OATS (SOD SEEDED)	25	20	10	0							
OATS ,HAY ONLY (2 -3 TONS/A)	10	5	0								
RED TOP CANE (GRAIN)	30	20	10	0							
RICE (MEDIUM HEIGHT VARIETIES <6,000 LBS/ACRE)	30	20	10	0							
RICE (MEDIUM HEIGHT VARIETIES >10,000 LBS/ACRE)	30	20	10	0							
RICE (MEDIUM HEIGHT VARIETIES 6,000-10,000 LBS/ACRE)	30	20	10	0							
RICE (SHORT VARIETIES <6,000 LBS/ACRE)	10	0									
RICE (SHORT VARIETIES >10,000 LBS/ACRE)	10	0									
RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)	10	0									
RICE (TALL VARIETIES <6,000 LBS/ACRE)	60	50	40	30	20	15	10	0			
RICE (TALL VARIETIES >10,000 LBS/ACRE)	60	50	40	30	20	15	10	0			
RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)	60	50	40	30	20	15	10	0			
RYE , GRAIN	30	20	10	0							
SORGHUM ALMUM	30	20	10	0							
TRITICALE GRAIN	10	5	0								
WHEAT (20-29 BU/A) GRAIN ONLY	30	20	10	0							
WHEAT (20-29 BU/A) GRAZING & GRAIN	30	20	10	0							



**Potassium Soil Fertility Recommendations for Texas Grain and Row Crops**

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- 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

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	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
WHEAT (30-39 BU/A) GRAIN ONLY	30	20	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	30	20	10	0							
WHEAT (60-79 BU/A) GRAIN ONLY	30	20	10	0							
WHEAT (60-79 BU/A) GRAZING & GRAIN	30	20	10	0							
WHEAT (80-100 BU/A) GRAIN ONLY	30	20	10	0							
WHEAT (80-100 BU/A) GRAZING & GRAIN	30	20	10	0							