



## Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

### Potassium Soil Fertility Recommendations for Forage Crops

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

updated on 3-30-2012: 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
ALFALFA (IRRIGATED , ESTABLISHMENT)	160	145	130	120	105	100	95	85	80	70	55
ALFALFA (IRRIGATED / 6 TON/A , ANNUALLY)	160	145	130	120	105	100	95	85	80	70	55
ALFALFA (IRRIGATED 8-12 TON/A , ANNUALLY)	200	180	165	150	135	125	120	110	100	85	70
ALFALFA (NON-IRRIGATED , ANNUALLY)	120	110	100	90	80	75	70	65	60	50	40
ALFALFA (NON-IRRIGATED , ESTABLISHMENT)	120	110	100	90	80	75	70	65	60	50	40
BAHIA GRASS (1 HAY CUTTING PLUS GRAZING)	120	110	100	90	80	75	70	65	60	50	40
BAHIA GRASS (3 HAY CUTTINGS)	180	165	155	140	130	125	120	110	105	95	80
BAHIA GRASS (4 TO 6 HAY CUTTINGS)	250	230	215	200	180	175	165	155	150	130	115
BAHIA GRASS ESTABLISHMENT	120	110	100	90	80	75	70	65	60	50	40
BAHIA GRASS, GRAZING (1 A.U. PER 1 TO 1.5 ACRES)	120	110	100	90	80	75	70	65	60	50	40
BAHIA GRASS, GRAZING (1 A.U. PER 1.5 TO 2 ACRES)	120	110	100	90	80	75	70	65	60	50	40
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
BERMUDA (COMMON, MIDLAND) GRASS (4 TO 6 HAY CUTTINGS)	310	295	280	270	255	245	240	230	225	210	195
BLUE PANIC (ESTABLISHMENT)	40	35	30	30	25	25	20	20	20	15	10
BLUE PANIC (GRAZING)	40	35	30	30	25	25	20	20	20	15	10
BLUESTEM (ESTABLISHMENT)	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-----										
BLUESTEM (GRAZING OR HAY)	120	110	100	90	80	75	70	65	60	50	40
BLUESTEM (IMPROVED-GRAZING OR HAY)	120	110	100	90	80	75	70	65	60	55	45
BUFFEL GRASS (3 HAY CUTTINGS)	120	110	100	90	80	75	70	65	60	50	40
BUFFEL GRASS (ESTABLISHMENT)	120	110	100	90	80	75	70	65	60	50	40
BUFFEL GRASS (HEAVY GRAZING OR HAY PLUS GRAZING)	120	110	100	90	80	75	70	65	60	50	40
BUFFEL GRASS (MODERATE GRAZING)	120	110	100	90	80	75	70	65	60	50	40
CLOVER (PREPARED SEEDBED)	120	110	105	95	90	85	85	80	75	70	65
CLOVER (SOD SEEDED)	120	110	105	95	90	85	85	80	75	70	65
CLOVER WITH RYEGRASS OR SMALL GRAIN (PREPARED SEEDBED)	120	110	105	95	90	85	85	80	75	70	65
CLOVER WITH RYEGRASS OR SMALL GRAIN (SOD SEEDED)	120	110	105	95	90	85	85	80	75	70	65
COMMON BERMUDA GRASS (1 A.U. PER 1 TO 1.5 ACRES)	80	70	65	60	50	50	45	40	40	35	25
COMMON BERMUDA GRASS (1 A.U. PER 1.5 TO 2 ACRES)	50	45	40	40	35	35	30	30	30	25	20
COMMON BERMUDA GRASS (1 HAY CUTTING PLUS GRAZING , ANNUALLY)	90	80	75	65	60	55	50	50	45	35	30
COMMON BERMUDA GRASS (3 HAY CUTTINGS , ANNUALLY)	240	225	210	190	175	170	160	150	145	125	110
COMMON BERMUDA GRASS (ESTABLISHMENT)	100	90	80	75	65	60	60	55	50	40	35
DALLIS GRASS (ESTABLISHMENT)	120	110	100	90	80	75	70	65	60	50	40
DALLIS GRASS (GRAZING 1 A.U. PER 1.5 TO 2 ACRES)	120	110	100	90	80	75	70	65	60	50	40
DALLIS GRASS(GRAZING 1 AU PER 1 TO 1.5 ACRES OR 1 HAY CUTTING PLUS GRAZING)	120	110	100	90	80	75	70	65	60	50	40



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	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K <sub>2</sub> O/acre-----										
DESOTO GRASS	120	110	100	90	80	75	70	65	60	50	40
FESCUE (ESTABLISHMENT)	60	55	50	45	40	35	35	30	30	25	20
FESCUE , HAY OR GRAZING AT 3-4 AU/A	120	110	100	90	80	75	70	65	60	50	40
FORAGE SORGHUM	120	110	100	90	80	75	70	65	60	50	40
HAY GRAZER , 1 HAY CUTTING OR LIGHT GRAZING	40	35	30	30	25	25	20	20	20	15	10
HAY GRAZER , 2 HAY CUTTINGS OR MODERATE GRAZING	120	110	100	90	80	75	70	65	60	50	40
HAY GRAZER , 3 HAY CUTTINGS OR HEAVY GRAZING	120	110	100	90	80	75	70	65	60	50	40
HEGARI	60	55	50	45	40	35	35	30	30	25	20
HUBAN CLOVER	60	55	50	45	40	35	35	30	30	25	20
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING PLUS GRAZING)	150	140	130	120	110	105	100	95	90	80	70
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-1.5 TONS/A)	125	115	105	95	85	80	75	70	65	55	45
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-2 TONS/A )	150	135	125	110	100	95	90	80	75	65	50
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-2.5 TONS/A)	175	160	145	130	115	110	105	95	90	75	60
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-3 TONS/A)	200	185	170	160	145	140	130	125	120	105	90
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-1.5 TONS/A AVG.)	150	135	125	110	100	95	90	80	75	65	50
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-2 TONS/A AVG.)	200	185	170	160	145	140	130	125	120	105	90
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-2.5 TONS/A AVG.)	225	210	195	180	165	155	150	140	135	120	105
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-3 TONS/A AVG.)	250	230	215	195	180	170	165	155	145	130	115

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	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K2O/acre-----										
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-1.5 TONS/A AVG.)	200	185	170	160	145	140	130	125	120	105	90
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-2 TONS/A AVG.)	250	230	215	195	180	170	165	155	145	130	115
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-2.5 TONS/A AVG.)	275	255	235	220	200	190	180	170	165	145	125
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-3 TONS/A AVG.)	300	280	260	240	220	210	200	190	180	160	140
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-1.5 TONS/A AVG.)	240	220	205	190	175	165	160	150	140	125	110
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2 TONS/A AVG.)	300	280	265	245	230	220	215	205	195	180	165
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2.5 TONS/A AVG.)	325	305	285	270	250	240	230	225	215	195	180
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-3 TONS/A AVG.)	350	330	310	290	270	260	250	240	230	210	190
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2 TONS/A AVG.)	350	330	310	290	270	260	250	240	230	210	190
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2.5 TONS/A AVG.)	375	350	330	310	290	280	270	260	250	225	205
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-3 TONS/A AVG.)	400	375	355	330	310	300	285	275	265	240	220
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2 TONS/A AVG.)	400	375	355	330	310	300	285	275	265	240	220
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2.5 TONS/A AVG.)	425	400	375	350	330	315	305	295	280	255	235
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-3 TONS/A AVG.)	450	425	400	375	350	335	325	310	300	275	250
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2 TONS/A AVG.)	450	425	400	375	350	335	325	310	300	275	250
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2.5 TONS/A AVG.)	475	445	420	395	365	355	340	325	315	290	260
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-3 TONS/A AVG.)	500	470	440	415	385	370	360	345	330	305	275
IMPROVED AND HYBRID BERMUDA GRASS (ESTABLISHMENT)	100	90	80	75	65	60	60	55	50	40	35



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	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K <sub>2</sub> O/acre-----										
IMPROVED AND HYBRID BERMUDA GRASS (IRRIGATED , ESTABLISHMENT)	100	90	80	75	65	60	60	55	50	40	35
IMPROVED AND HYBRID BERMUDA GRASS, GRAZING	120	110	100	90	80	75	70	65	60	50	40
JOHNSON GRASS , 1 HAY CUTTING OR LIGHT GRAZING	40	35	30	30	25	25	20	20	20	15	10
JOHNSON GRASS , 2 HAY CUTTINGS OR MODERATE GRAZING	40	35	30	30	25	25	20	20	20	15	10
JOHNSON GRASS , 3 HAY CUTTINGS OR HEAVY GRAZING	120	110	100	90	80	75	70	65	60	50	40
KLEIN GRASS (1 AU PER 2 TO 3 ACRES OR HAY PRODUCTION)	50	45	40	35	30	30	30	25	25	20	15
KLEIN GRASS (ESTABLISHMENT)	60	55	50	45	40	35	35	30	30	25	20
KLEIN GRASS , 1 AU PER 1.25 TO 1.75 ACRE OR HAY PRODUCTION	120	110	100	90	80	75	70	65	60	50	40
LOVE GRASS (ESTABLISHMENT)	40	35	30	30	25	25	20	20	20	15	10
LOVE GRASS , GRAZING OR HAY	70	65	60	60	55	55	50	50	50	45	40
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
MINIMUM REQUIREMENT: ALFALFA	80	70	65	60	50	50	45	40	40	35	25
MINIMUM REQUIREMENT: BLUESTEM GRASS	40	35	30	30	25	25	20	20	20	15	15
MINIMUM REQUIREMENT: CLOVER	120	110	100	90	80	75	70	65	60	50	40
MINIMUM REQUIREMENT: COOL SEASON PERENNIAL GRASS	40	35	30	30	25	25	20	20	20	15	15
MINIMUM REQUIREMENT: PEAS	60	55	50	45	40	35	35	30	30	25	20
MINIMUM REQUIREMENT: S-1 CLOVER OR WHITE CLOVER	80	70	65	60	50	50	45	40	40	35	25



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	0	10	20	30	40	45	50	55	60	70	80
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MINIMUM REQUIREMENT: VETCH OR LESPEDZA	60	55	50	45	40	35	35	30	30	25	20
MINIMUM REQUIREMENT: WARM SEASON PERENNIAL GRASS	40	35	30	30	25	25	20	20	20	15	15
NK-37 OR MIDLAND BERMUDA GRASS (ESTABLISHMENT)	40	30	20	10	0						
NK-37 OR MIDLAND BERMUDA GRASS (GRAZING)	120	110	100	90	80	75	70	65	60	50	40
NK-37 OR MIDLAND BERMUDA GRASS , 2 TO 3 HAY CUTTINGS	200	180	165	150	135	125	120	110	100	85	70
OATS (HEAVY GRAZING OR GRAZING PLUS HAY OR GRAIN)	120	110	100	90	80	75	70	65	60	50	40
OATS (LIGHT GRAZING)	60	55	50	45	40	35	35	30	30	25	20
OATS (MODERATE GRAZING)	120	110	100	90	80	75	70	65	60	50	40
OATS ,HAY ONLY (2 -3 TONS/A)	40	35	30	30	25	25	20	20	20	15	10
RANGE GRASS (ESTABLISHMENT)	40	35	30	30	25	25	20	20	20	15	10
RANGE GRASS (GRAZING)	120	110	100	90	80	75	70	65	60	50	40
RHODES GRASS	120	110	100	90	80	75	70	65	60	50	40
RHODES GRASS (ESTABLISHMENT)	120	110	100	90	80	75	70	65	60	50	40
RYE , HEAVY GRAZING	120	110	100	90	80	75	70	65	60	50	40
RYE , MODERATE GRAZING	120	110	100	90	80	75	70	65	60	50	40
RYEGRASS (SOD SEEDED)	120	110	100	90	80	75	70	65	60	50	40
RYEGRASS , HEAVY GRAZING	120	110	100	90	80	75	70	65	60	50	40
RYEGRASS , MODERATE GRAZING	120	110	100	90	80	75	70	65	60	50	40



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	0	10	20	30	40	45	50	55	60	70	80
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SILAGE (CORN 11-15 TON/A)	100	90	80	75	65	60	60	55	50	40	35
SILAGE (CORN 16-20 TON/A)	120	110	100	90	80	75	70	65	60	50	40
SILAGE (CORN 21-25 TON/A)	120	110	100	90	80	75	70	65	60	50	40
SILAGE (CORN 26-30 TON/A)	160	145	130	120	105	100	95	85	80	70	55
SILAGE (CORN 7 TO 10 TON/A)	55	50	45	40	35	35	30	30	25	20	15
SILAGE (SORGHUM 11-15 TON/A)	100	90	80	75	65	60	60	55	50	40	35
SILAGE (SORGHUM 16-20 TON/A)	120	110	100	90	80	75	70	65	60	50	40
SILAGE (SORGHUM 21-25 TON/A)	120	110	100	90	80	75	70	65	60	50	40
SILAGE (SORGHUM 26-30 TON/A)	160	145	130	120	105	100	95	85	80	70	55
SILAGE (SORGHUM 7 TO 10 TON/A)	55	50	45	40	35	35	30	30	25	20	15
SMALL GRAIN AND RYEGRASS (INTENSIVE GRAZING)	120	110	100	90	80	75	70	65	60	50	40
SMALL GRAIN AND RYEGRASS (MODERATE GRAZING)	120	110	100	90	80	75	70	65	60	50	40
SMALL GRAIN AND RYEGRASS (SOD SEEDED)	120	110	100	90	80	75	70	65	60	50	40
SORGHUM ALMUM	120	110	100	90	80	75	70	65	60	50	40
SUDAN - SORGHUM HYBRID , 1 HAY CUTTING OR LIGHT GRAZING	120	110	100	90	80	75	70	65	60	50	40
SUDAN - SORGHUM HYBRID , 2 HAY CUTTINGS OR MODERATE GRAZING	120	110	100	90	80	75	70	65	60	50	40
SUDAN - SORGHUM HYBRID , 3 HAY CUTTINGS OR HEAVY GRAZING	120	110	100	90	80	75	70	65	60	50	40
SUDAN GRASS , 1 HAY CUTTING OR LIGHT GRAZING	120	110	100	90	80	75	70	65	60	50	40



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	0	10	20	30	40	45	50	55	60	70	80
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SUDAN GRASS , 2 HAY CUTTINGS OR MODERATE GRAZING	120	110	100	90	80	75	70	65	60	50	40
SUDAN GRASS , 3 HAY CUTTINGS OR HEAVY GRAZING	120	110	100	90	80	75	70	65	60	50	40
SWITCH GRASS	120	110	100	90	80	75	70	65	60	50	40
SWITCH GRASS (ESTABLISHMENT)	120	110	100	90	80	75	70	65	60	50	40
TRITICALE GRAZING	120	110	100	90	80	75	70	65	60	50	40
VETCH (PREPARED SEEDBED)	120	110	105	95	90	85	85	80	75	70	65
VETCH (SOD SEEDED)	120	110	105	95	90	85	85	80	75	70	65
VETCH WITH RYEGRASS OR SMALL GRAIN (PREPARED SEEDBED)	120	110	105	95	90	85	85	80	75	70	65
WHEAT (HEAVY GRAZING)	120	110	100	90	80	75	70	65	60	50	40
WHEAT (LIGHT GRAZING)	120	110	100	90	80	75	70	65	60	50	40
WHEAT (MODERATE GRAZING)	120	110	100	90	80	75	70	65	60	50	40
WHEAT GRASS , JOSE (HEAVY GRAZING)	120	110	100	90	80	75	70	65	60	50	40
WHEAT GRASS , JOSE (LIGHT GRAZING)	120	110	100	90	80	75	70	65	60	50	40
WHEAT GREENCHOP (2 WET TONS/A-75% MOISTURE)	120	110	100	90	80	75	70	65	60	50	40
WHEAT GREENCHOP (3 WET TONS/A-75% MOISTURE)	120	110	100	90	80	75	70	65	60	50	40
WHEAT GREENCHOP (4 WET TONS/A-75% MOISTURE)	150	140	130	120	110	105	100	95	90	80	70
WHEAT GREENCHOP (5 WET TONS/A-75% MOISTURE)	150	140	130	120	110	105	100	95	90	80	70
WHEAT GREENCHOP (6 WET TONS/A-75% MOISTURE)	175	160	150	140	130	125	120	110	105	95	85





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	0	10	20	30	40	45	50	55	60	70	80
	-----lbs K <sub>2</sub> O/acre-----										
WHEAT GREENCHOP (7 WET TONS/A-75% MOISTURE)	175	160	150	140	130	125	120	110	105	95	85
WHEAT GREENCHOP (8 WET TONS/A-75% MOISTURE)	175	160	150	140	130	125	120	110	105	95	85
WHEAT HAY (1 TON/A)	120	110	100	90	80	75	70	65	60	50	40
WHEAT HAY (1.5 TON/A)	120	110	100	90	80	75	70	65	60	50	40
WHEAT HAY (2 TON/A)	120	110	100	90	80	75	70	65	60	50	40
WHEAT HAY (2.5 TON/A)	150	140	130	120	110	105	100	95	90	80	70
WHEAT HAY (3 TON/A)	150	140	130	120	110	105	100	95	90	80	70
WHEAT HAY (3.5 TON/A)	175	160	150	140	130	125	120	110	105	95	85
WHEAT HAY (4 TON/A)	175	160	150	140	130	125	120	110	105	95	85
WHEAT SILAGE (3 WET TONS-65% MOISTURE)	120	110	100	90	80	75	70	65	60	50	40
WHEAT SILAGE (4.5 WET TONS-65% MOISTURE)	120	110	100	90	80	75	70	65	60	50	40
WHEAT SILAGE (6 WET TONS-65% MOISTURE)	150	140	130	120	110	105	100	95	90	80	70
WHEAT SILAGE (7.5 WET TONS-65% MOISTURE)	150	140	130	120	110	105	100	95	90	80	70
WHEAT SILAGE (9 WET TONS-65% MOISTURE)	175	160	150	140	130	125	120	110	105	95	85



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	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
BLUESTEM (GRAZING OR HAY)	30	20	10	0							
BLUESTEM (IMPROVED-GRAZING OR HAY)	35	25	15	5							
BUFFEL GRASS (3 HAY CUTTINGS)	30	20	10	0							
BUFFEL GRASS (ESTABLISHMENT)	30	20	10	0							
BUFFEL GRASS (HEAVY GRAZING OR HAY PLUS GRAZING)	30	20	10	0							
BUFFEL GRASS (MODERATE GRAZING)	30	20	10	0							
CLOVER (PREPARED SEEDBED)	55	50	40	35	30	25	20	15	10	0	
CLOVER (SOD SEEDED)	55	50	40	35	30	25	20	15	10	0	
CLOVER WITH RYEGRASS OR SMALL GRAIN (PREPARED SEEDBED)	55	50	40	35	30	25	20	15	10	0	
CLOVER WITH RYEGRASS OR SMALL GRAIN (SOD SEEDED)	55	50	40	35	30	25	20	15	10	0	
COMMON BERMUDA GRASS (1 A.U. PER 1 TO 1.5 ACRES)	20	15	5	0							
COMMON BERMUDA GRASS (1 A.U. PER 1.5 TO 2 ACRES)	20	15	10	10	5	5	0				
COMMON BERMUDA GRASS (1 HAY CUTTING PLUS GRAZING , ANNUALLY)	25	15	10	0							
COMMON BERMUDA GRASS (3 HAY CUTTINGS , ANNUALLY)	95	80	60	45	30	20	15	0			
COMMON BERMUDA GRASS (ESTABLISHMENT)	25	20	10	0							
DALLIS GRASS (ESTABLISHMENT)	30	20	10	0							
DALLIS GRASS (GRAZING 1 A.U. PER 1.5 TO 2 ACRES)	30	20	10	0							
DALLIS GRASS(GRAZING 1 AU PER 1 TO 1.5 ACRES OR 1 HAY CUTTING PLUS GRAZING)	30	20	10	0							



## Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

### Potassium Soil Fertility Recommendations for Forage Crops

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

updated on 3-30-2012: soiltesting.tamu.edu

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
DESOTO GRASS	30	20	10	0							
FESCUE (ESTABLISHMENT)	15	10	5	0							
FESCUE , HAY OR GRAZING AT 3-4 AU/A	30	20	10	0							
FORAGE SORGHUM	30	20	10	0							
HAY GRAZER , 1 HAY CUTTING OR LIGHT GRAZING	10	5	0	0							
HAY GRAZER , 2 HAY CUTTINGS OR MODERATE GRAZING	30	20	10	0							
HAY GRAZER , 3 HAY CUTTINGS OR HEAVY GRAZING	30	20	10	0							
HEGARI	15	10	5	0							
HUBAN CLOVER	15	10	5	0							
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING PLUS GRAZING)	60	50	40	30	20	15	10	0			
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-1.5 TONS/A)	35	25	15	5	0						
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-2 TONS/A )	40	30	15	5	0						
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-2.5 TONS/A)	45	35	20	5	0						
IMPROVED AND HYBRID BERMUDA GRASS (1 HAY CUTTING-3 TONS/A)	80	65	50	40	25	20	10	0			
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-1.5 TONS/A AVG.)	40	30	15	5	0	0	0	0			
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-2 TONS/A AVG.)	80	65	50	40	25	20	10	0			
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-2.5 TONS/A AVG.)	90	75	60	45	30	20	15	0			
IMPROVED AND HYBRID BERMUDA GRASS (2 HAY CUTTINGS-3 TONS/A AVG.)	95	80	65	45	30	20	15	0			



## Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

### Potassium Soil Fertility Recommendations for Forage 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)

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-1.5 TONS/A AVG.)	80	65	50	40	25	20	10	0			
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-2 TONS/A AVG.)	95	80	65	45	30	20	15	0			
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-2.5 TONS/A AVG.)	110	90	70	55	35	25	15	0			
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-3 TONS/A AVG.)	120	100	80	60	40	30	20	0			
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-1.5 TONS/A AVG.)	95	80	60	45	30	20	15	0			
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2 TONS/A AVG.)	145	130	115	95	80	70	65	45	30	15	5
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2.5 TONS/A AVG.)	160	140	125	105	90	80	70	50	35	15	5
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-3 TONS/A AVG.)	175	155	135	115	95	85	75	55	35	15	5
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2 TONS/A AVG.)	175	155	135	115	95	85	75	55	35	15	5
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2.5 TONS/A AVG.)	185	165	145	125	100	90	80	60	40	20	10
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-3 TONS/A AVG.)	200	175	155	130	110	100	85	65	40	20	10
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2 TONS/A AVG.)	200	175	155	130	110	100	85	65	40	20	10
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2.5 TONS/A AVG.)	210	185	165	140	115	105	90	70	45	20	10
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-3 TONS/A AVG.)	225	200	175	150	125	110	100	75	50	25	10
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2 TONS/A AVG.)	225	200	175	150	125	110	100	75	50	25	10
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2.5 TONS/A AVG.)	235	210	180	155	130	115	105	75	50	25	10
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-3 TONS/A AVG.)	245	220	190	165	135	120	110	80	55	25	10
IMPROVED AND HYBRID BERMUDA GRASS (ESTABLISHMENT)	25	20	10	0							



## Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

### Potassium Soil Fertility Recommendations for Forage 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)

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
IMPROVED AND HYBRID BERMUDA GRASS (IRRIGATED , ESTABLISHMENT)	25	20	10	0							
IMPROVED AND HYBRID BERMUDA GRASS, GRAZING	30	20	10	0							
JOHNSON GRASS , 1 HAY CUTTING OR LIGHT GRAZING	10	5	0								
JOHNSON GRASS , 2 HAY CUTTINGS OR MODERATE GRAZING	10	5	0								
JOHNSON GRASS , 3 HAY CUTTINGS OR HEAVY GRAZING	30	20	10	0							
KLEIN GRASS (1 AU PER 2 TO 3 ACRES OR HAY PRODUCTION)	10	10	5	0							
KLEIN GRASS (ESTABLISHMENT)	15	10	5	0							
KLEIN GRASS , 1 AU PER 1.25 TO 1.75 ACRE OR HAY PRODUCTION	30	20	10	0							
LOVE GRASS (ESTABLISHMENT)	10	5	0								
LOVE GRASS , GRAZING OR HAY	40	35	35	30	25	25	25	20	15	15	10
MILLET , 2 HAY CUTTINGS OR MODERATE GRAZING	0										
MILLET , LIGHT GRAZING OR 1 HAY CUTTING	10	5	0								
MINIMUM REQUIREMENT: ALFALFA	20	15	5	0							
MINIMUM REQUIREMENT: BLUESTEM GRASS	10	5	5	0							
MINIMUM REQUIREMENT: CLOVER	30	20	10	0							
MINIMUM REQUIREMENT: COOL SEASON PERENNIAL GRASS	10	5	5	0							
MINIMUM REQUIREMENT: PEAS	15	10	5	0							
MINIMUM REQUIREMENT: S-1 CLOVER OR WHITE CLOVER	20	15	5	0							



## Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

### Potassium Soil Fertility Recommendations for Forage 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)

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
MINIMUM REQUIREMENT: VETCH OR LESPEDZA	15	10	5	0							
MINIMUM REQUIREMENT: WARM SEASON PERENNIAL GRASS	10	5	5	0							
NK-37 OR MIDLAND BERMUDA GRASS (ESTABLISHMENT)											
NK-37 OR MIDLAND BERMUDA GRASS (GRAZING)	30	20	10	0							
NK-37 OR MIDLAND BERMUDA GRASS , 2 TO 3 HAY CUTTINGS	55	40	20	5							
OATS (HEAVY GRAZING OR GRAZING PLUS HAY OR GRAIN)	30	20	10	0							
OATS (LIGHT GRAZING)	15	10	5	0							
OATS (MODERATE GRAZING)	30	20	10	0							
OATS ,HAY ONLY (2 -3 TONS/A)	10	5	0								
RANGE GRASS (ESTABLISHMENT)	10	5	0								
RANGE GRASS (GRAZING)	30	20	10	0							
RHODES GRASS	30	20	10	0							
RHODES GRASS (ESTABLISHMENT)	30	20	10	0							
RYE , HEAVY GRAZING	30	20	10	0							
RYE , MODERATE GRAZING	30	20	10	0							
RYEGRASS (SOD SEEDED)	30	20	10	0							
RYEGRASS , HEAVY GRAZING	30	20	10	0							
RYEGRASS , MODERATE GRAZING	30	20	10	0							

**Potassium Soil Fertility Recommendations for Forage 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)

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
SILAGE (CORN 11-15 TON/A)	25	20	10	0							
SILAGE (CORN 16-20 TON/A)	30	20	10	0							
SILAGE (CORN 21-25 TON/A)	30	20	10	0							
SILAGE (CORN 26-30 TON/A)	40	30	15	5							
SILAGE (CORN 7 TO 10 TON/A)	15	10	5	0							
SILAGE (SORGHUM 11-15 TON/A)	25	20	10	0							
SILAGE (SORGHUM 16-20 TON/A)	30	20	10	0							
SILAGE (SORGHUM 21-25 TON/A)	30	20	10	0							
SILAGE (SORGHUM 26-30 TON/A)	40	30	15	5							
SILAGE (SORGHUM 7 TO 10 TON/A)	15	10	5	0							
SMALL GRAIN AND RYEGRASS (INTENSIVE GRAZING)	30	20	10	0							
SMALL GRAIN AND RYEGRASS (MODERATE GRAZING)	30	20	10	0							
SMALL GRAIN AND RYEGRASS (SOD SEEDED)	30	20	10	0							
SORGHUM ALMUM	30	20	10	0							
SUDAN - SORGHUM HYBRID , 1 HAY CUTTING OR LIGHT GRAZING	30	20	10	0							
SUDAN - SORGHUM HYBRID , 2 HAY CUTTINGS OR MODERATE GRAZING	30	20	10	0							
SUDAN - SORGHUM HYBRID , 3 HAY CUTTINGS OR HEAVY GRAZING	30	20	10	0							
SUDAN GRASS , 1 HAY CUTTING OR LIGHT GRAZING	30	20	10	0							





## Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

### Potassium Soil Fertility Recommendations for Forage 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)

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
SUDAN GRASS , 2 HAY CUTTINGS OR MODERATE GRAZING	30	20	10	0							
SUDAN GRASS , 3 HAY CUTTINGS OR HEAVY GRAZING	30	20	10	0							
SWITCH GRASS	30	20	10	0							
SWITCH GRASS (ESTABLISHMENT)	30	20	10	0							
TRITICALE GRAZING	30	20	10	0							
VETCH (PREPARED SEEDBED)	55	50	40	35	30	25	20	15	10	0	
VETCH (SOD SEEDED)	55	50	40	35	30	25	20	15	10	0	
VETCH WITH RYEGRASS OR SMALL GRAIN (PREPARED SEEDBED)	55	50	40	35	30	25	20	15	10	0	
WHEAT (HEAVY GRAZING)	30	20	10	0							
WHEAT (LIGHT GRAZING)	30	20	10	0							
WHEAT (MODERATE GRAZING)	30	20	10	0							
WHEAT GRASS , JOSE (HEAVY GRAZING)	30	20	10	0							
WHEAT GRASS , JOSE (LIGHT GRAZING)	30	20	10	0							
WHEAT GREENCHOP (2 WET TONS/A-75% MOISTURE)	30	20	10	0							
WHEAT GREENCHOP (3 WET TONS/A-75% MOISTURE)	30	20	10	0							
WHEAT GREENCHOP (4 WET TONS/A-75% MOISTURE)	60	50	40	30	20	15	10	0			
WHEAT GREENCHOP (5 WET TONS/A-75% MOISTURE)	60	50	40	30	20	15	10	0			
WHEAT GREENCHOP (6 WET TONS/A-75% MOISTURE)	75	65	50	40	30	25	20	10	0		

**Potassium Soil Fertility Recommendations for Forage 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)

	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K <sub>2</sub> O/acre-----										
WHEAT GREENCHOP (7 WET TONS/A-75% MOISTURE)	75	65	50	40	30	25	20	10	0		
WHEAT GREENCHOP (8 WET TONS/A-75% MOISTURE)	75	65	50	40	30	25	20	10	0		
WHEAT HAY (1 TON/A)	30	20	10	0							
WHEAT HAY (1.5 TON/A)	30	20	10	0							
WHEAT HAY (2 TON/A)	30	20	10	0							
WHEAT HAY (2.5 TON/A)	60	50	40	30	20	15	10	0			
WHEAT HAY (3 TON/A)	60	50	40	30	20	15	10	0			
WHEAT HAY (3.5 TON/A)	75	65	50	40	30	25	20	10	0		
WHEAT HAY (4 TON/A)	75	65	50	40	30	25	20	10	0		
WHEAT SILAGE (3 WET TONS-65% MOISTURE)	30	20	10	0							
WHEAT SILAGE (4.5 WET TONS-65% MOISTURE)	30	20	10	0							
WHEAT SILAGE (6 WET TONS-65% MOISTURE)	60	50	40	30	20	15	10	0			
WHEAT SILAGE (7.5 WET TONS-65% MOISTURE)	60	50	40	30	20	15	10	0			
WHEAT SILAGE (9 WET TONS-65% MOISTURE)	75	65	50	40	30	25	20	10	0		



**Soil, Water and Forage Testing Laboratory**

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**Potassium Soil Fertility Recommendations for Forage 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)

180	185	200	210	220	225	230
-----lbs K <sub>2</sub> O/acre-----						

AFRICAN MILLET						
ALFALFA (IRRIGATED , ESTABLISHMENT)						
ALFALFA (IRRIGATED / 6 TON/A , ANNUALLY)						
ALFALFA (IRRIGATED 8-12 TON/A , ANNUALLY)						
ALFALFA (NON-IRRIGATED , ANNUALLY)						
ALFALFA (NON-IRRIGATED , ESTABLISHMENT)						
BAHIA GRASS (1 HAY CUTTING PLUS GRAZING)						
BAHIA GRASS (3 HAY CUTTINGS)						
BAHIA GRASS (4 TO 6 HAY CUTTINGS)						
BAHIA GRASS ESTABLISHMENT						
BAHIA GRASS, GRAZING (1 A.U. PER 1 TO 1.5 ACRES)						
BAHIA GRASS, GRAZING (1 A.U. PER 1.5 TO 2 ACRES)						
BARLEY (HEAVY GRAZING ON SANDY SOILS)						
BARLEY (HEAVY GRAZING)						
BERMUDA (COMMON, MIDLAND) GRASS (4 TO 6 HAY CUTTINGS)	55	50	25	10	0	
BLUE PANIC (ESTABLISHMENT)						
BLUE PANIC (GRAZING)						
BLUESTEM (ESTABLISHMENT)						



**Soil, Water and Forage Testing Laboratory**

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**Potassium Soil Fertility Recommendations for Forage 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)

180	185	200	210	220	225	230
-----lbs K <sub>2</sub> O/acre-----						

IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-1.5 TONS/A AVG.)	
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-2 TONS/A AVG.)	
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-2.5 TONS/A AVG.)	
IMPROVED AND HYBRID BERMUDA GRASS (3 HAY CUTTINGS-3 TONS/A AVG.)	
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-1.5 TONS/A AVG.)	
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-2.5 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (4 HAY CUTTINGS-3 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-2.5 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (5 HAY CUTTINGS-3 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-2.5 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (6 HAY CUTTINGS-3 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-2.5 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (7 HAY CUTTINGS-3 TONS/A AVG.)	0
IMPROVED AND HYBRID BERMUDA GRASS (ESTABLISHMENT)	



**Soil, Water and Forage Testing Laboratory**

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180	185	200	210	220	225	230
-----lbs K <sub>2</sub> O/acre-----						

IMPROVED AND HYBRID BERMUDA GRASS (IRRIGATED , ESTABLISHMENT)

IMPROVED AND HYBRID BERMUDA GRASS, GRAZING

JOHNSON GRASS , 1 HAY CUTTING OR LIGHT GRAZING

JOHNSON GRASS , 2 HAY CUTTINGS OR MODERATE GRAZING

JOHNSON GRASS , 3 HAY CUTTINGS OR HEAVY GRAZING

KLEIN GRASS (1 AU PER 2 TO 3 ACRES OR HAY PRODUCTION)

KLEIN GRASS (ESTABLISHMENT)

KLEIN GRASS , 1 AU PER 1.25 TO 1.75 ACRE OR HAY PRODUCTION

LOVE GRASS (ESTABLISHMENT)

LOVE GRASS , GRAZING OR HAY

10      10      5      0

MILLET , 2 HAY CUTTINGS OR MODERATE GRAZING

MILLET , LIGHT GRAZING OR 1 HAY CUTTING

MINIMUM REQUIREMENT: ALFALFA

MINIMUM REQUIREMENT: BLUESTEM GRASS

MINIMUM REQUIREMENT: CLOVER

MINIMUM REQUIREMENT: COOL SEASON PERENNIAL GRASS

MINIMUM REQUIREMENT: PEAS

MINIMUM REQUIREMENT: S-1 CLOVER OR WHITE CLOVER