



Phosphorus Soil Fertility Recommendations for Texas Grain and Row Crops

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

Soil, Water and Forage Testing Laboratory

**Phosphorus recommendations applicable for methods used by laboratory.
Mehlich III by ICP only.**

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

	0	5	10	15	20	25	30	35	40	45	50	55	60
	-----lbs P2O5/acre-----												
AFRICAN MILLET	55	50	40	35	30	25	20	15	10	5	0		
BARLEY (HEAVY GRAZING ON SANDY SOILS)	105	95	80	70	60	50	40	30	20	10	0		
BARLEY (HEAVY GRAZING)	105	95	80	70	60	50	40	30	20	10	0		
BARLEY GRAIN (30-40 BU/A)	55	50	40	35	30	25	20	15	10	5	0		
BARLEY GRAIN (70-90 BU/A WITH LIGHT GRAZING)	80	70	60	55	45	40	30	20	15	5	0		
CORN (100 BU/A)	80	70	60	55	45	40	30	20	15	5	0		
CORN (110 BU/A)	105	95	80	70	60	50	40	30	20	10	0		
CORN (120 BU/A)	105	95	80	70	60	50	40	30	20	10	0		
CORN (130 BU/A)	105	95	80	70	60	50	40	30	20	10	0		
CORN (140 BU/A)	105	95	80	70	60	50	40	30	20	10	0		
CORN (150 BU/A)	105	95	80	70	60	50	40	30	20	10	0		
CORN (160 BU/A)	130	115	100	90	75	65	50	35	25	10	0		
CORN (170 BU/A)	130	115	100	90	75	65	50	35	25	10	0		
CORN (180 BU/A)	130	115	100	90	75	65	50	35	25	10	0		
CORN (190 BU/A)	130	115	100	90	75	65	50	35	25	10	0		
CORN (200 BU/A)	130	115	100	90	75	65	50	35	25	10	0		
CORN (210 BU/A)	150	135	120	105	90	75	60	45	30	15	0		
CORN (220 BU/A)	150	135	120	105	90	75	60	45	30	15	0		
CORN (230 BU/A)	150	135	120	105	90	75	60	45	30	15	0		



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	-----lbs P2O5/acre-----												
CORN (240 BU/A)	150	135	120	105	90	75	60	45	30	15	0		
CORN (250 BU/A)	175	155	140	120	105	85	70	50	35	15	0		
CORN (260 BU/A)	175	155	140	120	105	85	70	50	35	15	0		
CORN (270 BU/A)	175	155	140	120	105	85	70	50	35	15	0		
CORN (70 BU/A)	80	70	60	55	45	40	30	20	15	5	0		
CORN (80 BU/A)	80	70	60	55	45	40	30	20	15	5	0		
CORN (90 BU/A)	80	70	60	55	45	40	30	20	15	5	0		
GRAIN SORGHUM (1000 LBS/A)	30	25	20	20	15	15	10	5	5	0	0		
GRAIN SORGHUM (10000 LBS/A)	180	160	140	125	105	90	70	50	35	15	0		
GRAIN SORGHUM (1500 LBS/A)	30	25	20	20	15	15	10	5	5	0	0		
GRAIN SORGHUM (2000 LBS/A)	40	35	30	25	20	20	15	10	5	0	0		
GRAIN SORGHUM (2500 LBS/A)	50	45	40	35	30	25	20	15	10	5	0		
GRAIN SORGHUM (3000 LBS/A)	55	50	40	35	30	25	20	15	10	5	0		
GRAIN SORGHUM (3500 LBS/A)	60	55	50	40	35	30	25	15	10	5	0		
GRAIN SORGHUM (4000 LBS/A)	65	60	55	45	40	35	30	20	15	10	0		
GRAIN SORGHUM (4500 LBS/A)	75	65	60	50	45	35	30	20	15	5	0		
GRAIN SORGHUM (5000 LBS/A)	80	70	60	55	45	40	30	20	15	5	0		
GRAIN SORGHUM (5500 LBS/A)	90	80	70	60	50	45	35	25	15	5	0		
GRAIN SORGHUM (6000 LBS/A)	105	95	80	70	60	50	40	30	20	10	0		



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	0	5	10	15	20	25	30	35	40	45	50	55	60
	-----lbs P2O5/acre-----												
GRAIN SORGHUM (6500 LBS/A)	120	105	95	80	70	60	45	35	20	10	0		
GRAIN SORGHUM (7000 LBS/A)	130	115	105	90	75	65	50	40	25	10	0		
GRAIN SORGHUM (7500 LBS/A)	135	120	105	90	80	65	50	40	25	10	0		
GRAIN SORGHUM (8000 LBS/A)	140	125	110	95	80	70	55	40	25	10	0		
GRAIN SORGHUM (8500 LBS/A)	150	135	120	105	90	75	60	45	30	15	0		
GRAIN SORGHUM (9000 LBS/A)	160	140	125	110	95	80	60	45	30	15	0		
GRAIN SORGHUM (9500 LBS/A)	170	150	135	115	100	85	65	50	30	15	0		
HEGARI	80	70	60	55	45	40	30	20	15	5	0		
MILLET , 2 HAY CUTTINGS OR MODERATE GRAZING	65	60	55	45	40	30	25	20	10	5	0		
MILLET , LIGHT GRAZING OR 1 HAY CUTTING	55	50	40	35	30	25	20	15	10	5	0		
OATS (60-80 BU/A)	55	50	40	35	30	25	20	15	10	5	0		
OATS (80-100 BU/A)	105	95	80	70	60	50	40	30	20	10	0		
OATS (SOD SEEDED)	80	70	60	55	45	40	30	20	15	5	0		
OATS ,HAY ONLY (2 -3 TONS/A)	55	50	40	35	30	25	20	15	10	5	0		
RED TOP CANE (GRAIN)	80	70	60	55	45	40	30	20	15	5	0		
RICE (MEDIUM HEIGHT VARIETIES <6,000 LBS/ACRE)	70	55	45	35	20	10	0	0	0	0	0		
RICE (MEDIUM HEIGHT VARIETIES >10,000 LBS/ACRE)	90	75	65	55	45	30	20	10	0	0	0		
RICE (MEDIUM HEIGHT VARIETIES 6,000-10,000 LBS/ACRE)	80	65	55	45	30	20	10	0	0	0	0		
RICE (SHORT VARIETIES <6,000 LBS/ACRE)	70	55	45	35	20	10	0	0	0	0	0		



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	-----lbs P2O5/acre-----												
RICE (SHORT VARIETIES >10,000 LBS/ACRE)	90	75	65	55	45	30	20	10	0				
RICE (SHORT VARIETIES 6,000-10,000 LBS/ACRE)	80	65	55	45	30	20	10	0	0				
RICE (TALL VARIETIES <6,000 LBS/ACRE)	70	55	45	35	20	10	0	0	0				
RICE (TALL VARIETIES >10,000 LBS/ACRE)	90	75	65	55	45	30	20	10	0				
RICE (TALL VARIETIES 6,000-10,000 LBS/ACRE)	80	65	55	45	30	20	10	0	0				
RYE , GRAIN	55	50	40	35	30	25	20	15	10	5	0		
SORGHUM ALMUM	55	50	40	35	30	25	20	15	10	5	0		
TRITICALE GRAIN	55	50	40	35	30	25	20	15	10	5	0		
WHEAT (20-29 BU/A) GRAIN ONLY	30	25	20	20	15	15	10	5	5	0	0		
WHEAT (20-29 BU/A) GRAZING & GRAIN	30	25	20	20	15	15	10	5	5	0	0		
WHEAT (30-39 BU/A) GRAIN ONLY	55	50	40	35	30	25	20	15	10	5	0		
WHEAT (30-39 BU/A) GRAZING & GRAIN	55	50	40	35	30	25	20	15	10	5	0		
WHEAT (40-59 BU/A) GRAIN ONLY	75	65	60	50	45	35	30	20	15	5	0		
WHEAT (40-59 BU/A) GRAZING & GRAIN	75	65	60	50	45	35	30	20	15	5	0		
WHEAT (60-79 BU/A) GRAIN ONLY	85	75	70	60	50	40	35	25	15	5	0		
WHEAT (60-79 BU/A) GRAZING & GRAIN	85	75	70	60	50	40	35	25	15	5	0		
WHEAT (80-100 BU/A) GRAIN ONLY	90	80	75	65	55	45	35	25	15	5	0		
WHEAT (80-100 BU/A) GRAZING & GRAIN	90	80	75	65	55	45	35	25	15	5	0		