



Soil, Water and Forage Testing Laboratory

Potassium recommendations applicable for methods used by laboratory.

Potassium Soil Fertility Recommendations for Texas Vegetable, Nut and Fruit Production

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-----										
ALOE VERA	40	35	30	30	25	25	20	20	20	15	10
APPLES	150	140	130	120	110	105	100	95	90	80	75
BEANS, GREEN	120	110	100	90	80	75	70	65	60	50	40
BEANS, LIMA	120	110	100	90	80	75	70	65	60	50	40
BEANS, PINTO	120	110	100	90	80	75	70	65	60	50	40
BEETS	90	80	75	65	60	55	50	50	45	35	30
Blackberries/Raspberries - Production	120	110	105	95	90	85	85	80	75	70	65
BLUEBERRY	120	110	100	90	80	75	70	65	60	50	40
BROCCOLI	80	70	65	60	50	50	45	40	40	35	25
CABBAGES	160	145	130	120	105	100	95	85	80	70	55
CABBAGES, CHINESE	160	145	130	120	105	100	95	85	80	70	55
CANE	40	35	30	30	25	25	20	20	20	15	15
CANTALOUPE	80	70	65	60	50	50	45	40	40	35	25
CARROTS	120	110	100	90	80	75	70	65	60	50	40
CAULIFLOWER	120	110	100	90	80	75	70	65	60	50	40
CITRUS GUIDELINES FERTILITY	130	120	110	100	90	85	80	75	70	60	50
COLLARDS	120	110	100	90	80	75	70	65	60	50	40
CUCUMBERS	80	70	65	60	50	50	45	40	40	35	25
EGGPLANT	120	110	100	90	80	75	70	65	60	50	40



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	-----lbs K ₂ O/acre-----										
GARLIC	100	90	80	75	65	60	60	55	50	40	35
GRAPES	50	45	40	40	35	35	30	30	30	25	20
LAVENDER	120	110	100	90	80	75	70	65	60	50	40
LETTUCE	120	110	100	90	80	75	70	65	60	50	40
MUSTARD	50	40	30	20	10	5	0	0	0	0	0
OKRA	80	70	65	60	50	50	45	40	40	35	25
ONIONS	100	90	80	75	65	60	60	55	50	40	35
ONIONS (SEEDED)	100	90	80	75	65	60	60	55	50	40	35
ONIONS (TRANSPLANTS)	100	90	80	75	65	60	60	55	50	40	35
PEACHES	150	140	130	120	110	105	100	95	90	80	75
PEAS, BLACK EYE	40	35	30	30	25	25	20	20	20	15	10
PEAS, GREEN	40	35	30	30	25	25	20	20	20	15	10
PECANS (UPLAND GROVES)	100	90	80	70	60	55	50	45	40	30	20
PEPPERS, CHILE	120	110	100	90	80	75	70	65	60	50	40
PEPPERS, BELL	120	110	100	90	80	75	70	65	60	50	40
POTATOES (EARLY VARIETY)	100	90	80	75	65	60	60	55	50	40	35
POTATOES (LATE VARIETY)	100	90	80	75	65	60	60	55	50	40	35
RADISHES	120	110	100	90	80	75	70	65	60	50	40
SPINACH	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 ₂ O/acre-----										
SQUASH , SUMMER	80	70	65	60	50	50	45	40	40	35	25
SQUASH , WINTER	80	70	65	60	50	50	45	40	40	35	25
STRAWBERRIES (FIELD PLANTING)	120	110	100	90	80	75	70	65	60	50	40
SUGARCANE	150	140	130	120	110	105	100	95	90	80	75
SWEET CORN	80	70	65	60	50	50	45	40	40	35	25
SWEET POTATOES	200	185	175	165	150	145	140	135	130	120	105
SWISS CHARD	90	80	75	65	60	55	50	50	45	35	30
TOMATOES	160	145	130	120	105	100	95	85	80	70	55
TURNIPS	120	110	100	90	80	75	70	65	60	50	40
TURNIPS, TOPS	120	110	100	90	80	75	70	65	60	50	40
VEGETABLES , TRUCK FARM	160	145	130	120	105	100	95	90	80	70	55
WATERMELONS	60	55	50	45	40	35	35	30	30	25	20



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	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K ₂ O/acre-----										
ALOE VERA	10	5	0								
APPLES	65	55	45	35	25	20	15	5	0		
BEANS, GREEN	30	20	10	0							
BEANS, LIMA	30	20	10	0							
BEANS, PINTO	30	20	10	0							
BEETS	25	15	10	0							
Blackberries/Raspberries - Production	55	50	40	35	30	25	20	15	10	0	
BLUEBERRY	30	20	10	0							
BROCCOLI	20	15	5	0							
CABBAGES	40	30	15	5	0						
CABBAGES, CHINESE	40	30	15	5	0						
CANE	10	5	5	0							
CANTALOUPE	20	15	5	0							
CARROTS	30	20	10	0							
CAULIFLOWER	30	20	10	0							
CITRUS GUIDELINES FERTILITY	40	30	20	10	5	0					
COLLARDS	30	20	10	0							
CUCUMBERS	20	15	5	0							
EGGPLANT	30	20	10	0							



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	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K ₂ O/acre-----										
GARLIC	25	20	10	0							
GRAPES	20	15	10	10	5	5	0				
LAVENDER	30	20	10	0							
LETTUCE	30	20	10	0							
MUSTARD	0										
OKRA	20	15	5	0							
ONIONS	25	20	10	0							
ONIONS (SEEDED)	25	20	10	0							
ONIONS (TRANSPLANTS)	25	20	10	0							
PEACHES	65	55	45	35	25	20	15	5	0		
PEAS, BLACKEYE	10	5	0								
PEAS, GREEN	10	5	0								
PECANS (UPLAND GROVES)	10	0	0								
PEPPERS, CHILE	30	20	10	0							
PEPPERS, BELL	30	20	10	0							
POTATOES (EARLY VARIETY)	25	20	10	0							
POTATOES (LATE VARIETY)	25	20	10	0							
RADISHES	30	20	10	0							
SPINACH	30	20	10	0							



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	90	100	110	120	130	135	140	150	160	170	175
	-----lbs K ₂ O/acre-----										
SQUASH , SUMMER	20	15	5	0							
SQUASH , WINTER	20	15	5	0							
STRAWBERRIES (FIELD PLANTING)	30	20	10	0							
SUGARCANE	65	55	45	35	25	20	15	5	0		
SWEET CORN	20	15	5	0							
SWEET POTATOES	95	85	70	60	50	45	40	25	15	5	0
SWISS CHARD	25	15	10	0							
TOMATOES	40	30	15	5	0						
TURNIPS	30	20	10	0							
TURNIPS, TOPS	30	20	10	0							
VEGETABLES , TRUCK FARM	45	30	20	5	0						
WATERMELONS	15	10	5	0							