

APPENDIX I- Salt Tolerance of Selected Crops

Botanical Crop Name	Soil Salinity, C										Soil Solution Osmotic Potential		
	Piecwise Linear Threshold-Slope Model		Sigmoidal ("Compound Discount") Model			Modified Sigmoidal ("Compound Discount") Model					Threshold OP_{IC} , bars	Slope, % per bar	Rating
	Threshold Salinity, C_t (EC _e), dS/m	Slope, % per dS/m	C_{50} (EC ₅₀), dS/m		p (shape parameter)	C_{mid} (calculated)	Z^{nd} Derivative Function, $F(p)$	s (response curve steepness)	Salinity Tolerance Index, ST-Index				
			experimental	calculated									
Alfalfa	<i>Medicago sativa</i>	2.0	7.3	8.49	2.69	8.849	0.753	0.116	9.5	-1.51	-1.94	MS	
Almond	<i>Prunus dulcis</i>	1.5	19.0	3.83	3.30	4.132	0.901	0.312	5.0	-1.11	-1.25	S	
Apple	<i>Malus sylvestris</i>	1.3	17.5	3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S	
Apricot	<i>Prunus armeniaca</i>	1.6	24.0	3.39	3.8	3.683	1.021	0.394	4.7	-1.19	-1.24	S	
Artichoke, globe	<i>Cynara scolymus</i>	6.1	11.5	10.07	5.8	10.448	1.493	0.174	11.8	-4.93	-5.06	MT	
Asparagus	<i>Asparagus officinalis</i>	4.1	2.0	28.50	2.4	29.100	0.691	0.031	29.4	-3.24	-4.99	T	
Avocado	<i>Persea americana</i>	1.3	17.5	3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S	
Barley	<i>Hordeum vulgare</i>	8.0	5.0	18.0	17.53	3.9	18.000	1.041	0.077	18.9	-6.57	-11.77	T
Bean, dry	<i>Phaseolus vulgaris</i>	1.0	19.0	3.6	3.34	2.9	3.632	0.797	0.316	4.4	-0.73	-0.88	S
Bean, lima	<i>Phaseolus lunatus</i>	6.0	5.6	14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Bean, mung	<i>Vigna radiata [Phaseolus aureus]</i>	1.8	20.7	3.91	3.7	4.215	1.006	0.337	5.2	-1.35	-1.42	S	
Beet, red	<i>Beta vulgaris</i>	4.0	9.0	9.19	3.7	9.556	0.991	0.142	10.5	-3.15	-3.66	MT	
Bermudagrass	<i>Cynodon dactylon</i>	6.9	6.4	14.28	4.1	14.713	1.096	0.099	15.7	-5.62	-7.96	T	
Blackberry	<i>Rubus sp.</i>	1.5	22.0	3.48	3.5	3.773	0.954	0.362	4.7	-1.11	-1.20	S	
Boysenberry	<i>Rubus ursinus</i>	1.5	22.0	3.48	3.5	3.773	0.954	0.362	4.7	-1.11	-1.20	S	
Broadbean (faba bean)	<i>Vicia faba</i>	1.6	9.6	6.47	2.7	6.808	0.760	0.154	7.5	-1.19	-1.51	MS	
Broccoli	<i>Brassica oleracea botrytis</i>	2.8	9.2	7.88	3.2	8.235	0.870	0.147	9.0	-2.16	-2.58	MS	
Bromegrass, meadow	<i>Bromus biebersteinii</i>	4.4	6.8	11.36	3.4	11.753	0.918	0.107	12.6	-3.49	-4.40	MT	
Bromegrass, mountain	<i>Bromus marginatus</i>	6.0	5.6	14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Bromegrass, smooth	<i>Bromus inermis</i>	7.0	5.1	16.1	16.35	3.7	16.804	0.987	0.079	17.6	-5.70	-9.02	MT
Brussel sprouts	<i>Brassica oleracea gemmifera</i>	3.0	7.7	9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Burnet	<i>Sanguisorba minor</i>	3.0	7.7	9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Cabbage	<i>Brassica oleracea capitata</i>	1.8	9.7	7.0	6.62	2.8	6.955	0.781	0.156	7.7	-1.35	-1.68	MS
Canarygrass, reed	<i>Phalaris arundinacea</i>	6.0	5.6	14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Canola (rapeseed)	<i>Brassica napus</i>	10.0	11.2	14.04	9.5	14.464	2.397	0.160	16.3	-8.32	-9.87	T	
Cantaloupe (muskmelon)	<i>Cucumis Melo</i>	1.3	5.7	7.5	9.70	2.4	10.072	0.683	0.090	10.6	-0.96	-1.30	MS
Carrot	<i>Daucus carota</i>	1.0	14.0	4.26	2.7	4.571	0.747	0.229	5.2	-0.73	-0.92	S	
Casava	<i>Manihot esculenta</i>	3.0	7.7	9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Castorbean	<i>Ricinus communis</i>	3.0	7.7	9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Cauliflower	<i>Brassica oleracea botrytis</i>	3.0	7.7	9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Celery	<i>Apium graveolens</i>	1.8	6.2	11.0	9.49	2.5	9.865	0.719	0.098	10.4	-1.35	-1.79	MS
Cherry, sand	<i>Prunus Besseyi</i>	1.3	17.5	3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S	
Cherry, sweet	<i>Prunus avium</i>	1.3	17.5	3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S	
Chick pea (Garbonzo bean)	<i>Cicer arietinum</i>	3.0	7.7	9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Chinese cabbage (Pe-tsai)	<i>Brassica campestris</i>	3.2	10.0	7.85	3.5	8.200	0.942	0.159	9.1	-2.49	-2.87	MS	
Clover, alsike	<i>Trifolium hybridum</i>	1.5	12.0	5.35	2.8	5.667	0.787	0.194	6.4	-1.11	-1.37	MS	
Clover, berseem	<i>Trifolium alexandrinum</i>	1.5	5.7	9.90	2.4	10.272	0.694	0.090	10.8	-1.11	-1.50	MS	
Clover, ladino	<i>Trifolium repens</i>	1.5	12.0	5.35	2.8	5.667	0.787	0.194	6.4	-1.11	-1.37	MS	
Clover, red	<i>Trifolium pratense</i>	1.5	12.0	5.35	2.8	5.667	0.787	0.194	6.4	-1.11	-1.37	MS	
Clover, strawberry	<i>Trifolium fragiferum</i>	1.5	12.0	5.35	2.8	5.667	0.787	0.194	6.4	-1.11	-1.37	MS	
Clover, sweet	<i>Melilotus sp.</i>	6.0	5.6	14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Corn, forage	<i>Zea mays</i>	1.8	7.4	8.20	2.6	8.557	0.740	0.118	9.2	-1.35	-1.75	MS	
Corn, grain	<i>Zea mays</i>	1.7	12.0	5.9	5.54	2.9	5.867	0.812	0.194	6.6	-1.27	-1.54	MS
Corn, sweet	<i>Zea mays</i>	1.7	12.0	5.9	5.54	2.9	5.867	0.812	0.194	6.6	-1.27	-1.54	MS
Cotton	<i>Gossypium hirsutum</i>	7.7	5.2	17.0	16.86	3.9	17.315	1.041	0.081	18.2	-6.31	-10.66	T
Cowpea (forage)	<i>Vigna unguiculata</i>	2.5	11.0	6.71	3.3	7.045	0.890	0.176	7.9	-1.91	-2.23	S	
Cowpea (pulse)	<i>Vigna unguiculata</i>	4.9	12.0	9.1	8.71	5.0	9.067	1.307	0.185	10.3	-3.91	-3.99	MT
Crambe	<i>Crambe abyssinica</i>	2.0	6.5	9.32	2.6	9.692	0.737	0.103	10.3	-1.51	-1.97	MS	
Cucumber	<i>Cucumis sativus</i>	2.5	13.0	6.02	3.5	6.346	0.948	0.208	7.3	-1.91	-2.13	MS	
Currant	<i>Ribes sp.</i>	1.3	17.5	3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S	
Date palm	<i>Phoenix dactylifera</i>	4.0	3.6	17.42	2.7	17.889	0.751	0.057	18.4	-3.15	-4.50	T	
Eggplant	<i>Solanum melongena esculentum</i>	1.1	6.9	7.99	2.4	8.346	0.685	0.110	8.9	-0.80	-1.08	MS	
Fennel	<i>Foeniculum vulgare</i>	1.2	15.7	4.8	4.08	2.9	4.385	0.796	0.258	5.1	-0.88	-1.07	S
Fescue, meadow	<i>Fesuca pratensis</i>	6.0	5.6	14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Fescue, tall	<i>Festuca elatior</i>	3.9	5.3	12.92	2.9	13.334	0.815	0.084	14.0	-3.07	-4.08	MT	
Fig	<i>Ficus carica</i>	6.0	5.6	14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Flax (Linseed)	<i>Linum usitatissimum</i>	1.7	12.0	5.54	2.9	5.867	0.812	0.194	6.6	-1.27	-1.54	MT	
Foxtail, meadow	<i>Alopecurus pratensis</i>	1.5	9.6	6.38	2.7	6.708	0.751	0.154	7.4	-1.11	-1.42	MS	
Garlic	<i>Allium sativum</i>	3.9	7.4	7.4	10.28	3.3	10.657	0.905	0.117	11.5	-3.07	-3.78	MT
Gooseberry	<i>Ribes sp.</i>	1.3	17.5	3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S	
Gramma, blue	<i>Boutteloua gracilis</i>	3.0	7.7	9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Grape	<i>Vitis sp.</i>	1.5	16.0	4.32	3.1	4.625	0.851	0.262	5.4	-1.11	-1.30	MS	
Grapefruit	<i>Citrus paradisi</i>	1.8	16.0	4.61	3.3	4.925	0.905	0.260	5.8	-1.35	-1.52	S	
Green bean	<i>Phaseolus vulgaris</i>	1.0	19.0	3.34	2.9	3.632	0.797	0.316	4.4	-0.73	-0.88	S	

APPENDIX I- Salt Tolerance of Selected Crops

	Botanical Crop Name	Soil Salinity, C										Soil Solution Osmotic Potential		Rating
		Piecewise Linear Threshold-Slope Model		Sigmoidal ("Compound Discount") Model			Modified Sigmoidal ("Compound Discount") Model					Threshold OF _{ec} -bars	Slope, % per bar	
		Threshold Salinity, C (EC _e), dS/m	Slope, % per dS/m	C ₅₀ (EC ₅₀), dS/m		p (shape parameter)	C _{mid} (calculated)	Z nd Derivative Function, F(p)	S _e (response curve steepness)	Salinity Tolerance Index, ST-Index				
				experimental	calculated						calculated, C _{mid}			
Guar	<i>Cyamopsis tetragonoloba</i>	8.8	17.0			11.35	14.5	11.741	3.603	0.236	14.0	-7.27	-5.60	T
Guayule	<i>Parthenium argentatum</i>	15.0	13.0			18.37	23.7	18.846	5.814	0.172	21.5	-12.79	-23.50	T
Harding grass	<i>Phalaris tuberosa</i>	4.6	7.6			10.79	3.6	11.179	0.978	0.119	12.1	-3.65	-4.46	MT
Jerusalem artichoke	<i>Helianthus tuberosus</i>	0.4	9.6	5.8	5.29	2.3	5.608	0.651	0.154	6.1	-0.27	-0.38	MS	
Kale	<i>Brassica oleracea acephala</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Kochia, forage (perennial)	<i>Kochia prostrata (Bassia prostrata)</i>	15.0	15.0			17.86	32.5	18.333	7.933	0.195	21.3	-12.79	-16.40	T
Kohlrabi	<i>Brassica oleracea gongylode</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Lemon	<i>Citrus Limon</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Lettuce	<i>Lactuca sativa</i>	1.3	13.0	5.2	4.83	2.8	5.146	0.776	0.212	5.9	-0.96	-1.18	MS	
Lime	<i>Citrus aurantifolia</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Mango	<i>Mangifera indica</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Milkvetch, Cicer	<i>Astragalus cicer</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Millet, foxtail	<i>Setaria italica</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Millet, pearl	<i>Pennisetum gloucum</i>	6.0	5.6			14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT
Oats	<i>Avena sativa</i>	6.0	5.6			14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT
Okra	<i>Abelmoschus esculentus</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Olive	<i>Olea europaea</i>	6.0	5.6			14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT
Onion	<i>Allium cepa</i>	1.2	16.0	4.1	4.02	2.9	4.325	0.799	0.263	5.1	-0.88	-1.06	S	
Orange	<i>Citrus sinensis</i>	1.7	16.0			4.52	3.2	4.825	0.886	0.260	5.7	-1.27	-1.45	S
Orchardgrass	<i>Dactylis glomerta</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Papaya	<i>Carica papaya</i>	6.0	5.6			14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT
Parsnip	<i>Pastinaca sativa</i>	0.8	17.5			3.36	2.7	3.657	0.747	0.291	4.3	-0.57	-0.72	S
Pea	<i>Pisum sativum</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Peach	<i>Prunus Persica</i>	1.7	21.0			3.78	3.7	4.081	0.987	0.343	5.1	-1.27	-1.35	S
Peanut (groundnut)	<i>Arachis hypogaea</i>	3.2	29.0			4.61	7.6	4.924	1.935	0.440	6.6	-2.49	-1.87	MS
Pear	<i>Pyrus communis</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Pecan	<i>Carya illinoensis</i>	1.9	16.6			4.60	3.5	4.912	0.937	0.269	5.8	-1.43	-1.58	MS
Pepper	<i>Capsicum annum</i>	1.5	14.0			4.76	3.0	5.071	0.818	0.228	5.8	-1.11	-1.33	MS
Persimmon	<i>Diospyros virginiana</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Pigeon pea (forage)	<i>Cajanus cajan</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Pineapple	<i>Ananus comosus</i>	6.0	5.6			14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT
Plum (fruit-bearing)	<i>Prunus domestica</i>	2.6	31.0			3.91	6.6	4.213	1.685	0.481	5.8	-2.00	-1.59	S
Plum (seedling)	<i>Prunus domestica</i>	1.5	18.0			3.97	3.2	4.278	0.884	0.295	5.1	-1.11	-1.27	S
Pomegranate	<i>Punica granatum</i>	6.0	5.6			14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT
Potato	<i>Solanum tuberosum</i>	1.7	12.0	6.2	5.54	2.9	5.867	0.812	0.194	6.6	-1.27	-1.54	MS	
Prune	<i>Prunus domestica</i>	1.5	18.0			3.97	3.2	4.278	0.884	0.295	5.1	-1.11	-1.27	S
Pummelo	<i>Citrus maxima</i>	1.5	18.0			3.97	3.2	4.278	0.884	0.295	5.1	-1.11	-1.27	S
Pumpkin	<i>Curculitla pepo pepo</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Purslane	<i>Portulaca oleraceae</i>	6.3	9.6			11.12	5.1	11.508	1.333	0.146	12.7	-5.10	-5.77	MT
Radish	<i>Raphanus sativus</i>	1.3	13.0			4.83	2.8	5.146	0.776	0.212	5.9	-0.96	-1.18	MS
Raspberry	<i>Rubus idaeus</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Rice	<i>Oryza sativa</i>	1.9	9.1	3.6	7.05	2.8	7.395	0.780	0.146	8.1	-1.43	-1.79	S	
Rye	<i>Secale cereale</i>	11.4	10.8			15.59	10.8	16.030	2.708	0.153	18.0	-9.56	-13.52	T
Ryegrass, Italian	<i>Lolium italicum multiflorum</i>	6.0	5.6			14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT
Ryegrass, perennial	<i>Lolium perenne</i>	5.6	7.0			12.34	3.8	12.743	1.031	0.109	13.7	-4.50	-5.76	MT
Safflower	<i>Carthamus tinctoris</i>	7.5	6.0	14.0	15.39	4.2	15.833	1.107	0.093	16.8	-6.14	-9.43	MT	
Sesame	<i>Sesamum indicum</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Sesbania	<i>Sesbania exaltata</i>	2.3	7.0			9.08	2.7	9.443	0.768	0.111	10.1	-1.75	-2.24	MS
Sorghum	<i>Sorghum bicolor</i>	6.8	16.0	15.0	9.55	9.2	9.925	2.314	0.232	11.8	-5.53	-4.59	MT	
Soybean	<i>Gycine max</i>	5.0	20.0			7.16	8.3	7.500	2.098	0.295	9.3	-3.99	-3.11	MT
Spinach	<i>Spinacia oleracea</i>	2.0	7.6			8.22	2.7	8.579	0.759	0.121	9.2	-1.51	-1.93	MS
Squash, scallop (winter)	<i>Cucurbita pepo melopepo</i>	3.2	16.0			6.00	4.5	6.325	1.193	0.251	7.5	-2.49	-2.46	MS
Squash, summer	<i>Cucurbita pepo melopepo</i>	4.7	9.4			9.65	4.1	10.019	1.096	0.147	11.1	-3.74	-4.24	MT
Strawberry	<i>Fragaria sp.</i>	1.0	33.0			2.23	3.5	2.515	0.954	0.564	3.5	-0.73	-0.78	S
Sudangrass	<i>Sorghum sudanense</i>	2.8	4.3			14.00	2.6	14.428	0.727	0.068	15.0	-2.16	-2.94	MT
Sugarbeet	<i>Beta vulgaris</i>	7.0	5.9	15.0	15.04	4.0	15.475	1.058	0.091	16.4	-5.70	-8.46	T	
Sugarcane	<i>Saccharum officinarum</i>	1.7	5.9			9.80	2.5	10.175	0.708	0.094	10.7	-1.27	-1.70	MS
Sunflower	<i>Helianthus annus</i>	4.8	5.0			14.37	3.1	14.800	0.851	0.079	15.5	-3.82	-5.28	MT
Sweet potato	<i>Impomoea batatas</i>	1.5	11.0			5.72	2.8	6.045	0.772	0.178	6.7	-1.11	-1.39	MS
Swiss chard	<i>Beta vulgaris</i>	11.0	5.7	17.5	19.28	5.2	19.772	1.369	0.086	20.9	-9.21	-29.45	T	
Tangerine	<i>Citrus reticulata</i>	1.3	17.5			3.86	3.0	4.157	0.837	0.288	5.0	-0.96	-1.12	S
Tepary bean	<i>Phaseolus acutifolius var. acutifolius</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Timothy	<i>Phleum pratense</i>	3.0	7.7			9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS
Tomato	<i>Lycopersicon lycopersicum</i>	2.5	9.9	7.6	7.21	3.1	7.551	0.859	0.158	8.3	-1.91	-2.28	MS	

APPENDIX I- Salt Tolerance of Selected Crops

	Botanical Crop Name	Soil Salinity, C										Soil Solution Osmotic Potential		
		Piecewise Linear Threshold-Slope Model		Sigmoidal ("Compound Discount") Model			Modified Sigmoidal ("Compound Discount") Model					Threshold OF _{1c} , bars	Slope, % per bar	Rating
		Threshold Salinity, C (EC _e), dS/m	Slope, % per dS/m	C ₅₀ (EC ₅₀), dS/m		p (shape parameter)	C _{mod} calculated	2 nd Derivative Function, F(n)	s (response curve steepness)	Salinity Tolerance Index, ST-Index				
				experimental	calculated									
Trefoil, birdsfoot (big)	<i>Lotus uliginosus</i>	2.3	19.0		4.62	4.1	4.932	1.089	0.305	6.0	-1.75	-1.78	MS	
Trefoil, birdsfoot (broadleaf)	<i>Lotus corniculatus arvensis</i>	6.0	5.6		14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Trefoil, birdsfoot (narrowleaf)	<i>Lotus corniculatus</i>	5.0	10.0		9.63	4.4	10.000	1.176	0.155	11.1	-3.99	-4.41	MT	
Triticale	<i>X Triticoseale</i>	6.1	2.5		25.53	2.7	26.100	0.759	0.039	26.5	-4.93	-8.76	T	
Turnip, forage	<i>Brassica rapa</i>	3.3	4.8		13.30	2.7	13.717	0.765	0.076	14.3	-2.57	-3.46	MT	
Turnip, root	<i>Brassica rapa</i>	0.9	8.9	6.5	6.19	2.4	6.518	0.689	0.143	7.1	-0.65	-0.87	MS	
Vetch, common	<i>Vicia angustifolia</i>	3.0	11.0		7.20	3.5	7.545	0.954	0.175	8.5	-2.32	-2.63	MS	
Walnut	<i>Juglans sp.</i>	1.7	16.1		4.50	3.2	4.806	0.888	0.262	5.7	-1.27	-1.45	MT	
Watermelon	<i>Citrullus lanatus</i>	3.0	7.7		9.13	3.1	9.494	0.841	0.122	10.2	-2.32	-2.87	MS	
Wheat, common	<i>Triticum aestivum</i>	6.0	7.1	13.0	12.63	4.0	13.042	1.075	0.110	14.0	-4.84	-6.25	MT	
Wheat, Durum	<i>Triticum turgidum</i>	5.9	3.8		18.58	3.0	19.058	0.834	0.060	19.7	-4.76	-7.53	T	
Wheat, semidwarf	<i>Triticum aestivum</i>	8.6	3.0		24.71	3.2	25.267	0.871	0.047	25.9	-7.09	-18.65	T	
Wheatgrass, crested	<i>Agropyron sibiricum</i>	3.5	4.0		15.56	2.7	16.000	0.747	0.063	16.5	-2.74	-3.79	MT	
Wheatgrass, fairway crested	<i>Agropyron cristatum</i>	7.5	6.9		14.32	4.5	14.746	1.201	0.106	15.8	-6.14	-8.75	T	
Wheatgrass, intermediate	<i>Agropyron intermedium</i>	6.0	5.6		14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Wheatgrass, NewHy	<i>Elytrigia repens x Pseudoroegneria spicata</i>	4.8	4.3		15.98	2.9	16.428	0.815	0.068	17.1	-3.82	-5.47	T	
Wheatgrass, tall	<i>Agropyron elongatum</i>	7.5	4.2		18.92	3.4	19.405	0.936	0.065	20.2	-6.14	-11.16	T	
Wheatgrass, western	<i>Agropyron smithii</i>	6.0	5.6		14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Wildrye, beardless	<i>Leymus triticoides</i>	2.7	5.9		10.79	2.7	11.175	0.766	0.093	11.8	-2.08	-2.71	MS	
Wildrye, Canada	<i>Elymus canadensis</i>	6.0	5.6		14.50	3.6	14.929	0.961	0.087	15.8	-4.84	-6.85	MT	
Wildrye, Russian	<i>Psathyrostachys Junceus</i>	10.0	4.6		20.37	4.2	20.870	1.120	0.071	21.8	-8.32	-24.34	T	