Revised 3/19/00

Species	Group	USDA Zone	Cold Stratification Period	Yr. 2 Germ	Temp Germ.	Size In Inches	Habit	Color	Native Habitat
P. abietinus	Caespitosi	4	12 weeks			2x8	mat	Blue	dry upland
P. absarokensis	Habroanthus	4				6x	herbaceous	Blue	screes
P. acaulis v. acaulis	Caespitosi	3	12 weeks			1x8	tufted	Blue	dry upland
P. acaulis v. yampaensis	Caespitosi	3	12 weeks			1x3	tufted	Blue	dry upland
P. acuminatus v. acuminatus	Anularius	6	12 weeks	yes	50	24x8	herbaceous	Blue Lavender Pink	dryland
P. acuminatus v. latebracteatus	Anularius	6	12 weeks			24x8	herbaceous	Blue Lavender Pink	dryland
P. alamosensis	Centranthifolii	5	8 weeks			22x3	herbaceous	Red	rocky
P. albertinus	Humiles	5			40	18x9	mat	B, Vi	alpine
P. albidus	Aurator	4	8 weeks		40	6x3	herbaceous	W	plains
P. albomarginatus	Arenarii	?				8x?	herbaceous	Pi	desert
P. alluviorum	Penstemon	6			40	48x	herbaceous	W	moist woodland
P. ambiguus v. ambiguus	Ambigui	5-10	0 weeks,6 weeks		60	24x20	shrub	W,Pi	dryland
P. ambiguus v. laevissimus	Ambigui	5-10	0 weeks,6 weeks		60	24x20	shrub	W,Pi	dryland
P. ammophilus	Habroanthus	6				6X?	herbaceous	B-P	sand dunes
P. amphorellae	Fasciculus	?				16x?	herbaceous	Blue	dryland
P. angelicus	Peltanthera	8				50x?	herbaceous	S	desert
P. anguineus	Humiles	5	12 weeks	yes	50	30x16	herbaceous	B,P	open wooded
P. angustifolius ssp. angustifolius	Anularius	4	8 weeks			16x12	herbaceous	Pi, B, varies	plains
P. angustifolius v. dulcis	Anularius	4	8 weeks			16x12	herbaceous	Pi, R	plains
P. angustifolius v. venosus	Anularius	4	8 weeks			24x12	herbaceous	Pi, B, varies	plains
P. angustifolius v. vernalensis	Anularius	4	8 weeks			16x12	herbaceous	Pi, B, varies	plains
P. arenarius	Arenarii	4				11x?	herbaceous	W, L	sand dunes
P. arenicola	Anularius	4	8 weeks	yes	40	4x6	herbaceous	Blue	dryland
P. aridus	Humiles	4	0 weeks			8x3	herbaceous	B, P	screes
P. arkansanus	Penstemon	6			60	18x?	herbaceous	W, L	moist woodland
P. attenuatus "Bald Mt."	Proceri	4				16x10	herbaceous	Blue	rocky cliff
P. attenuatus "Nelsoni"	Proceri	4				16x10	herbaceous	Y,W	open wooded
P. attenuatus v. attenuatus	Proceri	4				27x10	herbaceous	B,V	open wooded
P. attenuatus v. militaris	Proceri	4				12x10	herbaceous	Blue	open wooded
P. attenuatus v. palustris	Proceri	4				16x10	herbaceous	Blue	moist woodland
P. attenuatus v. pseudoprocerus	Proceri	4				9x10	herbaceous	Blue	open wooded
P. atwoodii	Aurator	4				16x5	herbaceous	B, L	dryland
P. auriberbis	Aurator	5	8 weeks,L			8x4	herbaceous	Lavender	dryland
P. australis ssp. australis	Penstemon	?			40	30x?	herbaceous	R, V	open wooded
P. australis ssp. laxiflorus	Penstemon	?			40	30x?	herbaceous	R, V	open wooded
P. azureus v. angustissimus	Saccanthera	6				20x10	subshrub	Blue	open wooded
P. azureus v. azureus	Saccanthera	6				20x10	subshrub	Blue	open wooded
P. baccharifolius	Baccharifolii				40	23x12	shrub	Red	rocky cliff
P. barbatus "Cambridge"	Elmigera	3-8			70	18x6	mat	V	dryland
P. barbatus "Rondo"	Elmigera	3-8			70	26x6	mat	V	dryland
P. barbatus ssp. barbatus	Elmigera	3-8	L		70	18x6	mat	Red	dryland
P. barbatus ssp. torreyi	Elmigera	3-8			70	18x6	mat	V	dryland
P. barbatus ssp. trichander	Elmigera	3-8			70	18x6	mat	V	dryland
P. barbatus x 'My Pink'		?			50				
P. barnebyi	Aurator	?				8x	herbaceous	violet	dryland
P. barrettiae	Dasanthera	6	8 weeks,L		60	18x36	shrub	R,P	rocky cliff
P. bicolor ssp. bicolor	Peltanthera	?				38x	herbaceous	pink	dryland
P. bicolor ssp. roseus	Peltanthera	?				38x	herbaceous	pink	dryland
P. bolanius	Campanulati	?				27x	herbaceous	Purple	dry upland
P. bracteatus	Anularius	5				3x?	herbaceous	Blue	alpine
P. brandegei	Habroanthus	5	8 weeks,L	No		24x	herbaceous	Blue	plains
P. breviculus	Aurator	5	8 weeks		40	15x4	herbaceous	B,P	open wooded
P. buckleyi	Anularius	6				30x8	herbaceous	lav	plains
P. caesius	Saccanthera	?	8 weeks			6x16	mat	P,B	dryland
P. caespitosus "Claude Barr"	Caespitosi	4-8	12 weeks,L			2x6	mat	Blue	dry upland
P. caespitosus ssp. caespitosus	Caespitosi	4-8	12 weeks,L			2x6	mat	Blue	dry upland
P. caespitosus ssp. desertipicti	Caespitosi	4-8	12 weeks,L			1x6	mat	Blue	dry upland
P. caespitosus ssp. perbrevis	Caespitosi	4-8	12 weeks,L			2x6	mat	Blue	dry upland
P. caespitosus ssp. suffruticosus	Caespitosi	5	12 weeks,L			2x6	herbaceous	Blue	dry upland
P. calcareus	Aurator	7				36x	herbaceous	Pi	rocky cliffs
P. californicus	Linarioides	?	8 weeks	yes	40	6x	herbaceous	B P	open wooded
P. calycosus	Penstemon	5				36x	herbaceous	W, Pi, V	open wooded
P. campanulatus "Garnet"	Campanulati	6				16x	herbaceous	Red	mixed
P. campanulatus v. campanulatus	Campanulati	6				30x	herbaceous	Pi,V	mixed
P. campanulatus v. chihuahuensis	Campanulati	6		yes	40	16x6	herbaceous	Blue	Mexico
P. campanulatus v. subglandulosus	Campanulati	6				16x6	herbaceous	Blue	Mexico
P. canescens	Penstemon	5				24X	herbaceous	Varies	open wooded
P. cardinalis ssp. cardinalis	Elmigera	5-9	8 weeks,L			24x16	herbaceous	Red	dryland
P. cardinalis ssp. regalis	Elmigera	5-9	8 weeks,L			24x16	herbaceous	Red	dryland
P. cardwellii	Dasanthera	4	8 weeks,L			8x60	shrub	Varies	alpine
P. cardwellii "Roseus"	Dasanthera	4	8 weeks,L		60	8x60	shrub	Varies	alpine
P. carnosus	Anularius	4	12 weeks,L			5x3	herbaceous	L	dryland
P. caryi	Habroanthus	4				12x12	mat	B, L	alpine
P. caudatis	Anularius	4	8 weeks			24x12	herbaceous	B,Pi	plains
P. centranthifolius	Centranthifolii	8	none		60	32x6	herbaceous	S	dryland
P. cerrosensis	Centranthifolii	8				18x	herbaceous	S	dryland
P. cinicola	Proceri	4				8x14	herbaceous	B,P	dryland
P. clevelandii	Peltanthera	6				17x12	herbaceous	Pi,P	dryland
P. clevelandii ssp. connatus	Peltanthera	6	8 weeks,L			16x12	herbaceous	Pi,P	dryland
P. clevelandii ssp. mohavensis	Peltanthera	6				17x12	herbaceous	Pi,P	dryland
P. clutei	Peltanthera	4	0			28x12	herbaceous	pink	dryland
P. cobaea v. cobaea	Aurator	5	8 weeks,L			12x	herbaceous	W, P	plains
P. cobaea v. purpureus	Aurator	5	8 weeks,L	yes	50	12x	subshrub	W,P	plains
P. comarrhenus	Habroanthus	?		yes	40	48X	herbaceous	LB	dryland
P. compactus	Habroanthus	5				10x	herbaceous	Blue	dryland
P. concinnus	Aurator					7x	herbaceous	B, Varies	dryland
P. confertus	Proceri	5	8 weeks,L	yes	50	5x3	mat	Y,W	open wooded
P. confusus	Centranthifolii					10x	herbaceous	Purple	dryland
P. coriaceus									
P. crandallii ssp. atratus	Caespitosi	3-9	12 weeks,L			10x30	shrub	Blue	alpine
P. crandallii ssp. crandalii	Caespitosi	3-9	12 weeks,L			10x30	shrub	Blue	alpine
P. crandallii ssp. glabrescens	Campanulati	3-9	12 weeks,L			10x30	shrub	Blue	alpine
P. crandallii ssp. procumbens	Caespitosi	3-9	12 weeks,L			10x30	shrub	Blue	alpine
P. cusickii	Saccanthera	5				18x8	herbaceous	Lav	dryland
P. cyananthus v. cyananthus	Habroanthus	4	8 weeks		40	20x7	herbaceous	B, L, Vi	dry upland
P. cyananthus v. subglaber	Habroanthus	4	8 weeks			26x12	herbaceous	B, L, Vi	dry upland
P. cyaneus	Habroanthus	3	8 weeks		40	16x7	herbaceous	Blue	dryland
P. cyanocaulis	Habroanthus		12 weeks	yes	50	14x	herbaceous	Blue	dryland
P. cyanthophorus	Anularius	4	12 weeks,L	yes	40	10x3	herbaceous	varies	dryland
P. dasyphyllus	Dentanthera		8 weeks		50	16x	herbaceous	Blue	dryland
P. davidsonii v. praeteritus	Dasanthera	4	8 weeks,L		70	8x14	mat	L	alpine
P. davidsonii v. davidsonii	Dasanthera	4	8 weeks,L		70	8x14	mat	L	alpine
P. davidsonii v. menziesii	Dasanthera	4	8 weeks,L		70	8x14	mat	L	alpine
P. deamii	Penstemon	6				26x	herbaceous	W	open wooded
P. deaveri	Habroanthus								
P. debilis	Habroanthus	5	8 weeks,L			3x7	mat	W	dry upland
P. degeneri	Humiles	5				16x	herbaceous	Blue	open wooded
P. deustus v. deustus	Deusti	5	8 weeks	yes	50	12x12	herbaceous	W	dryland
P. deustus v. pedicellatus	Deusti	5	8 weeks	yes	50	12x12	herbaceous	W	dryland
P. deustus v. suffrutescens	Deusti	5	8 weeks	yes	50	12x12	herbaceous	W	dryland
P. deustus v. variabilis	Deusti	5	8 weeks	yes	50	12x12	herbaceous	W	dryland
P. digitalis	Penstemon	4	8 weeks,L			40x	herbaceous	W	mixed
P. digitalis "Husker Red"	Penstemon	3	8 weeks,L			24x6	herbaceous	W	mixed
P. diphyllus	Serrulati		8 weeks	yes	40	20x10	shrubby	L	dryland
P. discolor	Linarioides					8x	mat	Cr, Lav	dryland
P. dissectus	Dissecti	6				18x	herbaceous	P,L	sand
P. distans	Aurator					24x	herbaceous	B, Vi	open wooded
P. dolius v. dolius	Aurator	4	12 weeks,L	yes	40	8x	herbaceous	Violet	dryland
P. dolius v. duchenensis	Aurator	4	12 weeks,L	yes	40	8x	herbaceous	Violet	dryland
P. eatonii ssp. eatonii	Elmigera	3-8	8 weeks,L		40	36x24	herbaceous	S	dryland
P. eatonii ssp. exsertus	Elmigera	3-8	8 weeks,L			24x24	herbaceous	S	dryland
P. eatonii v. undosus	Elmigera	3-8	8 weeks,L			24x24	herbaceous	S	dryland
P. elegantulus	Humiles	5				12x	herbaceous	B, Vi	alpine
P. ellipticus	Dasanthera	4				6x18	mat	L	alpine
P. eriantherus v. argillosus	Aurator	4	8 weeks	yes		8x5	herbaceous	R, P	plains
P. eriantherus v. cleburnei	Aurator	4	8 weeks	yes		8x5	herbaceous	Pi, L	plains
P. eriantherus v. eriantherus	Aurator	4	8 weeks	yes	40	8x5	herbaceous	Pi, L,B	plains
P. eriantherus v. redactus	Aurator	4	8 weeks	yes		8x5	herbaceous	Pi, P	plains
P. eriantherus v. whitedii	Aurator	5	8 weeks	yes		8x5	herbaceous	P, Vi	plains
P. euglaucus	Proceri	4				20x	mat	B,L	open wooded
P. eximeus									
P. fasciculatus	Fasciculi					20x	mat	S	alpine
P. fendleri	Anularius	5		yes	40	24x	herbaceous	Violet	plains
P. filiformis	Saccanthera					20x	subshrub	Blue	dryland
P. filisepalis	Fasciculi					20x10	herbaceous	Red	Mexico
P. flavescens	Proceri	6				16x	herbaceous	Y	alpine
P. floribundus	Saccanthera	5				12x	herbaceous	Blue	alpine
P. floridus v. austinii	Peltanthera	6	8 weeks,L			36x8	herbaceous	Pi	desert
P. floridus v. floridus	Peltanthera	6	8 weeks,L			48x12	herbaceous	Pi	desert
P. flowersii	Anularius	5	12 weeks,L	yes	40	6x3	herbaceous	Pi	badlands
P. franklinii	Aurator					10x	herbaceous	L	dryland
P. fremontii	Habroanthus	4	8 weeks,L			10x	herbaceous	B,P	dryland
P. fruticiformis ssp. amargosae	Peltanthera	7	0 weeks			14x12	shrub	W,V	Death Valley
P. fruticiformis ssp. fruticiformis	Peltanthera	7	0 weeks			14x12	shrub	W,V	Death Valley
P. fruticosus "Purple Haze"	Dasanthera	4	8 weeks		50	16x16	shrub	L	alpine
P. fruticosus v. fruticosis "Bald Mt."	Dasanthera	4	8 weeks		50	16x16	shrub	L	alpine
P. fruticosus v. scouleri	Dasanthera	4	8 weeks		50	16x16	herbaceous	L	
P. fruticosus v. serratus	Dasanthera	4	8 weeks		50	16x16	herbaceous	L	
P. gairdneri ssp. gairdneri	Gairdneriani	6	8 weeks,L			5x3	mat	L, P, Rose	dryland
P. gairdneri ssp. hians (?)	Gairdneriani	6	8 weeks,L			5x3	mat	L, P, Rose	dryland
P. gairdneri ssp. oreganus	Gairdneriani	6	8 weeks,L			5x3	mat	Blue	dryland
P. gentianoides	Fasciculi	7				60x	herbaceous	Purple	Mexico
P. gentryi	Campanulati					24x	herbaceous	L	Mexico
P. gibbensii	Habroanthus	5				8x	herbaceous	Blue	dryland
P. glaber ssp. alpinus	Habroanthus	5	8 weeks,L	yes	40	24x	herbaceous	Blue	plains
P. glaber ssp. glaber	Habroanthus	5	8 weeks,L	yes	40	26x16	herbaceous	B, Vi, Pi	plains
P. glabrescens v. glabrescens	Peltanthera								
P. glabrescens v. taosensis	Ericopsis	5							
P. glandulosus v. chelanensis	Serrulati		8 weeks	yes	40	36x10	herbaceous	Lav	dryland
P. glandulosus v. glandulosus	Serrulati					36x	herbaceous	Lav	dryland
P. glaucinus	Proceri	5				14x	herbaceous	BP	open wooded
P. globosus	Proceri	6				24x	herbaceous	Blue	alpine
P. goodrichii	Aurator	5	12 weeks,L			16x10	herbaceous	L	badlands
P. gormanii	Aurator	6				12x	herbaceous	L	dryland
P. gracilentus	Saccanthera	6				28x12	open wooded	Purple	open wooded
P. gracilis	Penstemon	4				30x8	herbaceous	lilac	plains
P. grahamii	Aurator	5				6x	herbaceous	L	dryland
P. grandiflorus	Anularius	3	8 weeks, L		40	48x12	herbaceous	Pi, L, Vi	plains
P. griffinii	Humiles					20x	herbaceous	Blue	
P. grinnellii v. grinnellii	Peltanthera	6				18x24	shrub	L	dryland
P. grinnellii v. scrophularioides	Peltanthera	6				24x24	shrub	L	dryland
P. guadalupensis	Aurator	8				12x	herbaceous	W	dryland
P. hallii	Habroanthus	3	0 weeks,L		70	4x4	herbaceous	Violet	alpine
P. harbourii	Peltanthera	3	0 weeks,L			6x20	mat	L	alpine
P. harringtonii	Anularius	4				3x8	herbaceous	Blue	alpine
P. hartwegii	Fasciculi	9	0 weeks		60	60x	herbaceous	R-P	Mexico
P. havardii	Havardiani	5	8 weeks		50	30x12	herbaceous	Red	rocky areas
P. haydenii	Anularius	5				48x	herbaceous	L	rocky
P. hendricksonii	Elmigera	7				24x	herbaceous	R-P	open wooded
P. heterodoxus v. cephalophorus	Proceri	4	0 weeks			6x8	shrub	Violet	alpine
P. heterodoxus v. heterodoxus	Proceri	4	0 weeks			6x8	shrub	Violet	alpine
P. heterodoxus v. shastensis	Proceri	4	0 weeks			20x8	herbaceous	B-P	moist upland
P. heterophyllus ssp. australis	Saccanthera	5				12x12	subshrub	Blue	alpine
P. heterophyllus ssp. heterophyllus	Saccanthera	5				12x12	subshrub	Blue	alpine
P. heterophyllus ssp. purdyi	Saccanthera	5				12x12	subshrub	Blue	alpine
P. hidalgensis	Perfoliatus	7				72x	herbaceous	R,P	open wooded
P. hintonii	Ericopsis	5							
P. hirsutus	Penstemon	4	3 weeks		70	24X6	herbaceous	W	lowland
P. hirsutus "Alba"	Penstemon	4	3 weeks		70	24X6	herbaceous	W	lowland
P. hirsutus "Minimus"	Penstemon	4	3 weeks		70	15x6	herbaceous	L	lowland
P. hirsutus "Pygmaeus"	Penstemon	4	3 weeks		70	4x4	herbaceous	L	lowland
P. humilus ssp. brevifolius	Humiles	5	4 weeks, L	yes	40	24x4	herbaceous	B,Vi	dryland
P. humilus ssp. humilus	Humiles	5	4 weeks, L			24x4	herbaceous	B, Vi	dryland
P. humilus ssp. obtusifolius	Humiles	5	4 weeks, L			24x4	herbaceous	B,Vi	dryland
P. idahoensis	Habroanthus	5				8x4	herbaceous	B, Vi	alpine
P. imberbis	Elmigera					24x	herbaceous	Varies	dryland
P. immanifestus	Anularius		8 weeks	yes	40	30x	herbaceous	L	desert
P. incertus	Peltanthera	7	8 weeks		50	24x16	shrub	Blue	dryland
P. inflatus	Humiles					24x	herbaceous	Blue	open wooded
P. isophyllus	Fasciculati					36x	herbaceous	Red	open wooded
P. jamesii	Aurator	4		yes	40	20x8	herbaceous	L	plains
P. janishiae	Aurator	5	8 weeks,Sc			10x6	herbaceous	Pi,P	dryland
P. kingii	Saccanthera	6				10x10	herbaceous	Vi-P	dryland
P. kunthii	Campanulati	6-9				22x12	herbaceous	Red	mixed
P. labrosus	Elmigera	6				18x7	herbaceous	S	open wooded
P. laetus v. laetus	Saccanthera	6				30x12	subshrub	Pi, Vi,P	open wooded
P. laetus v. leptosepalus	Saccanthera	6				30x12	subshrub	Pi, Vi,P	open wooded
P. laetus v. sagittatus	Saccanthera	6				30x12	subshrub	Pi, Vi,P	open wooded
P. laevigatus	Penstemon	6				30x	herbaceous	W	open wooded
P. laevis	Habroanthus	4				16x	herbaceous	Blue	dryland
P. lanceolatus	Dentanthera					22x	herbaceous	S	open wooded
P. laricifolius ssp. exilifolius	Ericopsis	3	8 weeks,L		40	4x3	herbaceous	W	plains
P. laricifolius ssp. laricifolius	Ericopsis	3	8 weeks,L		40	4x3	herbaceous	L, Pi	plains
P. laxiflorus	segregated from P. campanulatus by Straw								
P. laxus	Proceri	6				24x	herbaceous	Blue	dryland
P. leiophyllus v. keckii	Habroanthus					12x	herbaceous	P, Vi	dry upland
P. leiophyllus v. leiophyllus	Habroanthus					24x	herbaceous	P, Vi	dry upland
P. leiophyllus v.francisci-pennellii	Habroanthus					12x	herbaceous	P, Vi	dry upland
P. lemhiensis	Habroanthus	6				30x6	herbaceous	Blue	open wooded
P. lentus v. albiflorus	Anualarius					20x	herbaceous	W	dryland
P. lentus v. lentus	Anualarius					20x	herbaceous	Blue	dryland
P. leonardii	Saccanthera	6				16x16	subshrub	Blue	dryland
P. leonardii v. higginsii	Saccanthera	6				16x16	subshrub	Blue	dryland
P. leonardii v. patricus	Saccanthera					16x	subshrub	Blue	dryland
P. leonensis	Fasciculi	7				20x	herbaceous	Purple	open wooded
P. leptanthus	Habroanthus								
P. linarioides ssp. coloradoensis	Ericopsis	5	8 weeks	yes	40	5x6	mat	B,V	alpine
P. linarioides ssp. compactifolius	Ericopsis	5	8 weeks			5x6	mat	B,V	alpine
P. linarioides ssp. maguirei	Ericopsis	5	8 weeks			5x6	mat	B,V	alpine
P. linarioides ssp. linarioides	Ericopsis	5	8 weeks			5x6	mat	B,V	alpine
P. linarioides v. sileri	Ericopsis	5	8 weeks	yes	40	5x6	mat	B,V	alpine
P. longiflorus	Habroanthus					24x	herbaceous	Blue	dry upland
P. lyallii	Dasanthera	5				30x	shrubby	L	alpine
P. marcusii	Aurator	6				9x	herbaceous	B,P	desert
P. mensarum	Habroanthus	4	8 weeks,L	yes	40	30x8	herbaceous	Blue	alpine
P. miniatus	Fasciculi					48x	herbaceous	Red	alpine
P. miser	Aurator	5				16x	herbaceous	B, L, P	dryland
P. moffattii ssp. moffattii	Aurator	4	8 weeks,L			12x4	herbaceous	Blue	dryland
P. moffattii ssp. paysonii	Aurator	4	8 weeks,L			12x4	herbaceous	Blue	dryland
P. mohrinoranus	Fasciculi	7				40x	herbaceous	Red	open wooded
P. monoensis	Aurator	6	8 weeks,L			12x10	herbaceous	rose	dryland
P. montanus v. idahoensis	Dasanthera	3	12 weeks,L			6x10	shrub	B, L, Vi	alpine
P. montanus v. montanus	Dasanthera	3	8 weeks,L		70	7x6	shrub	B, L, Vi	alpine
P. moriahensis	Habroanthus	6				20x	herbaceous	Blue	open wooded
P. moronensis									
P. multiflorus	Multiflori					24x	herbaceous	W	open wooded
P. murrayanus	Havardiana	8	8 weeks		70	36x8	herbaceous	Red	open wooded
P. nanus	Aurator	5	12 weeks,L			1x2	herbaceous	Violet	dryland
P. navajoa	Habroanthus					18x	herbaceous	Blue	open wooded
P. neomexicanus	Habroanthus	5	8 weeks			35x10	herbaceous	Purple	open wooded
P. neotericus	Saccanthera		8 weeks	yes	40	24x	subshrub	Blue	open wooded
P. newberryi ssp. berryi	Dasanthera	5	12 weeks,L			12x20	shrub	L, P, Pi	alpine
P. newberryi ssp. newberryi	Dasanthera	5	12 weeks,L			8x20	shrub	Red	alpine
P. newberryi ssp. sonomensis	Dasanthera	5	12 weeks,L			8x20	shrub	Red	alpine
P. nitidus v. longifolius	Anularius	4	8 weeks, L	yes	40	16x9	herbaceous	Blue	plains
P. nitidus v. nitidus	Anularius	3	8 weeks, L		70	16x9	herbaceous	Blue	plains
P. nitidus v. polyphyllus	Anularius	4	8 weeks, L		70	16x9	herbaceous	Blue	plains
P. nudiflorus	Habroanthus	6				40x6	herbaceous	L	dryland
P. occiduus	Fasciculi					24x	herbaceous	Violet	alpine
P. oklahomensis	Penstemon					24x	herbaceous	W	mixed
P. oliganthus	Penstemon					14x6	herbaceous	Blue	open wooded
P. ophianthus	Aurator	6				4x3	herbaceous	L	plains
P. osterhoutii	Anularius					32x	herbaceous	Purple	dryland
P. ovatus	Humiles	6	8 weeks,L			40x	herbaceous	B, Vi	dryland
P. pachyphyllus v. congestus	Anularius	4	8 weeks,L			14x6	herbaceous	Blue	dryland
P. pachyphyllus v. mucronatus	Anularius	4	8 weeks,L			14x6	herbaceous	Blue	dryland
P. pachyphyllus v. pachyphyllus	Anularius					14x6	herbaceous	Blue	open wooded
P. pahutensis	Habroanthus					14x	herbaceous	L	open wooded
P. pallidus	Penstemon					36x	herbaceous	W	mixed
P. palmeri v. macranthus	Peltanthera	4-9	0 weeks,8 weeks			34x24	herbaceous	W,Pi	dryland
P. palmeri v. palmeri	Peltanthera	4-9	0 weeks,8 weeks			34x24	herbaceous	W,Pi	dryland
P. palmeri v. eglandulosus	Peltanthera	4-9	0 weeks,8 weeks			34x24	herbaceous	W,Pi	dryland
P. papillatus	Saccanthera					16x	herbaceous	Violet	open wooded
P. parryi	Centranthifolii	6	0 weeks			48x	herbaceous	rose	desert
P. parviflorus	Aurator					12x	herbaceous	Purple	dryland
P. parvulus	Saccanthera		8 weeks	yes	50	14x12	subshrub	B, Vi	open wooded
P. parvus	Habroanthus					7x3	herbaceous	Blue	dryland
P. patens	Centranthifolii	6	8 weeks,Sc			24x	subshrub	Purple	dry upland
P. payetttensis	Habroanthus	5	12 weeks,L			28x10	herbaceous	B, Vi	dryland
P. paysoniorum	Habroanthus	3	12 weeks,L		40	6x5	herbaceous	Violet	dryland
P. peckii	Proceri	5				48x12	mat	B,Pi	open wooded
P. penlandii	Habroanthus					10x	herbaceous	Violet	dryland
P. pennellianus	Habroanthus	5	12 weeks,L	yes	50	24x12	herbaceous	Blue	dry upland
P. perfoliatus	Perfoliati	6				27x12	herbaceous	P,B	high forest
P. perpulcher	Habroanthus	6				36x8	herbaceous	B, Vi	dryland
P. personatus	Cryptostemon	8				22x	herbaceous	Purple	dryland
P. petiolatus	Petiolati	7	L			4x8	herbaceous	Violet	dryland
P. pinifolius	Fasciculi	3-9	8 weeks		50	18x12	herbaceous	Red	dry upland
P. pinifolius "Compactum"	Fasciculi	3-9	8 weeks		50	8x8	herbaceous	Red	dry upland
P. pinifolius "Mersea Yellow"	Fasciculi	3-9	8 weeks			12x12	herbaceous	Y	dry upland
P. pinorum	Aurator					8x	herbaceous	B,L	dryland
P. plagapineus	Fasciculi					40x	subshrub	Red	high forest
P. platyphyllus	Saccanthera					24x8	subshrub	L	dry upland
P. potosinus	Campanulati					38x	subshrub	Purple	open forest
P. pratensis	Proceri	5				20x8	herbaceous	Cr	moist upland
P. procerus ssp. aberrans	Proceri	2	8 weeks			6x12	mat	B,V	alpine
P. procerus ssp. brachyanthus	Proceri	2	8 weeks			6x12	mat	B,V	alpine
P. procerus ssp. formosus	Proceri	2	8 weeks			6x12	mat	B,V	alpine
P. procerus ssp. modestus	Proceri	2	8 weeks			6x12	mat	B,V	alpine
P. procerus v. procerus	Proceri	2	8 weeks			6x12	mat	B,V	alpine
P. procerus v. tolmiei	Proceri	2	8 weeks			6x12	mat	B,V	alpine
P. pruinosus	Humiles	6	8 weeks	yes	40	16x6	herbaceous	B, L	dryland
P. pseudoparvus	Humiles					12x	herbaceous	Purple	alpine
P. pseudoputus	Habroanthus					16x	herbaceous	mauve	dryland
P. pseudospectabilis ssp. connatifoliu	Peltanthera	5-10	8 weeks			20x12	herbaceous	R,Pi	desert
P. pseudospectabilis ssp. pseudospec	Peltanthera	5-10	8 weeks,L			20x12	herbaceous	R,Pi	desert
P. pseudospectabilis ssp. pudicus	Peltanthera	5-10	8 weeks,L			20x12	herbaceous	R,Pi	desert
P. pudicus	Saccanthera					18x	subshrub	Blue	high forest
P. pumilus	Aurator	5				6x6	prostrate	B, P	dryland
P. punctatus	Aurator					?	?	Violet	plains
P. purpusii	Saccanthera	6				8x	shrub	Violet	alpine
P. putus									
P. radicosus	Humiles	5				16x6	herbaceous	B,P	dryland
P. ramaleyi	Caespitosi					12x	subshrub	Blue	alpine
P. ramosus	Dentanthera					22x	herbaceous	O,R,V	dryland
P. rattanii ssp. kleei	Humiles		12 weeks			48x	herbaceous	L,Vi	open wooded
P. rattanii ssp. rattanii	Humiles		12 weeks	yes	50	48x	herbaceous	L,Vi	open wooded
P. retrorsus	Caespitosi	5	12 weeks,L			3x8	mat	Violet	dry upland
P. richardsonii v. curtiflorus	Serrulati	4	6 weeks,L			24x24	subshrub	L	dryland
P. richardsonii v. dentatus	Serrulati	4	6 weeks,L			24x24	subshrub	L	dryland
P. richardsonii v. richardsonii	Serrulati	4	6 weeks,L			24x24	subshrub	L	dryland
P. roezlii	Saccnthera	5				20x8	herbaceous	B, Vi	alpine
P. rostriflorus	Emersus	6	8 weeks,L			24x24	subshrub	scarlet	dryland
P. rotundifolius	Havardiani					12x	subshrub	scarlet	dryland
P. rubicundus	Peltanthera					48x	herbaceous	rose	dryland
P. rupicola	Dasanthera	4	8 weeks,L		70	12x12	mat	Red	alpine
P. rydbergii ssp. aggregatus	Proceri	2	8 weeks			24x	herbaceous	Blue	moist upland
P. rydbergii v. oreocharis	Proceri	2	8 weeks			24x	herbaceous	Blue	moist upland
P. rydbergii v. rydbergii	Proceri	2	8 weeks			24x	herbaceous	Blue	moist upland
P. saltarius	Fasciculus					14x	herbaceous	Violet	open wooded
P. 'Saskatoon Hybrid'		3	8 weeks			40x16	herbaceous	Red	na
P. saxosorum	Habroanthus					30x	herbaceous	Blue	dry upland
P. scapoides	Saccanthera	5	8 weeks,L			16x	subshrub	lilac	dryland
P. scariosus v. albifluvis	Habroanthus					20x	herbaceous	Blue	mixed dry
P. scariosus v. cyanomontanus	Habroanthus					20x	herbaceous	Blue	mixed dry
P. scariosus v. garrettii	Habroanthus					20x	herbaceous	Blue	mixed dry
P. scariosus v. scariosus	Habroanthus					20x	herbaceous	Blue	mixed dry
P. schaffneri	Campanulati					27x	shrub	Red	mixed dry
P. secundiflorus	Anularius	4	6 weeks,L		70	20x10	herbaceous	Pi,Vi,L	mixed
P. seorus	Gairdneriani	5				16x6	mat	B, Pi, L	dryland
P. sepalulus	Saccanthera					30x	subshrub	L	scree
P. serrulatus	Serrulati	5				16x6	subshrub	B,P	moist ground
P. smallii	Penstemon	6				24x	herbaceous	Purple	lowland
P. spatulatus	Proceri	5				10x10	mat	B, Vi	alpine
P. speciosus	Habroanthus	5	8 weeks			36x8	herbaceous	B, Vi, P	dryland
P. speciosus "Kennedyi"	Habroanthus	5	8 weeks	yes	50	36x	herbaceous	Blue	dryland
P. spectabilis ssp. subviscosus	Peltanthera	6	0W			60x24	herbaceous	B,Pi	desert
P. spectabilis v. gilmanii	Peltanthera	6	0W			60x24	herbaceous	B,Pi	desert
P. spectabilis v. spectabillis	Peltanthera	6	0W			30x20	herbaceous	B,Pi	desert
P. stenophyllus	Dentanthera		8 weeks	yes	40	20x6	herbaceous	Violet	dryland
P. stephensii	Peltanthera					36x	herbaceous	Red	desert
P. strictiformis	Habroanthus					24x	herbaceous	Blue	open wooded
P. strictus	Habroanthus	4-9	12 weeks,L			24x18	mat	B,P	dry upland
P. subglaber	Habroanthus	5				28x5	herbaceous	Blue	mixed
P. subserratus	Humiles	5				30x	herbaceous	Blue	open wooded
P. subulatus	Centranthifolii	6	12 weeks	yes	40	28x8	herbaceous	S	dryland
P. sudans	Deusti	6				28x	herbaceous	Cream	dry upland
P. superbus	Centranthifolii	6	0 weeks			48x	herbaceous	S	mixed dry
P. tenuiflorus	Penstemon					24x	herbaceous	W	lowland
P. tenuifolius	Fasciculus					14x	shrub	L	alpine
P. tenuis	Penstemon					24x	herbaceous	Purple	lowland
P. tepicensus	Campanulati					16x	herbaceous	L	alpine
P. teucrioides	Caespitosi	3	8 weeks,L		70	3x24	mat	Blue	dryland
P. thompsoniae ssp. jaegeri	Caespitosi	4	8 weeks,L		70	2x8	shrub	Violet	dry wooded
P. thompsoniae ssp. thompsoniae	Caespitosi	4	8 weeks,L		70	2x8	shrub	Violet	dry wooded
P. thurberii	Ambigui	6	6 weeks,0 weeks			24x12	shrub	L	dryland
P. tidestromii	Habroanthus					24x	herbaceous	Blue	open wooded
P. tiehmii	Mexican species from Zacetecas								
P. tracyi	Deusti					5x	herbaceous	Pi	dry upland
P. triflorus ssp. integrifolius	Aurator					24x	herbaceous	L	plains
P. triflorus ssp. triflorus	Aurator					24x	herbaceous	v	plains
P. triphyllus	Serrulati	6				30x30	subshrub	lilac	dryland
P. tubaeflorus v. achoreus	Tubaeflori					36x	herbaceous	W	alluvial
P. tubaeflorus v. tubaeflorus	Tubaeflori					36x	herbaceous	W	alluvial
P. tusharensis	Saccanthera								
P. unilateralis	Habroanthus	5	8 weeks			24x5	herbaceous	B,L,P	dry upland
P. unitahensis	Habroanthus					6x	herbaceous	Blue	dry upland
P. utahensis	Centranthifolii	4	8 weeks,L	yes	40	1x6	herbaceous	Blue	dryland
P. venustus	Serrulati	5	8 weeks,L			20x20	subshrub	L, P, Vi	alpine
P. versicolor									
P. virens	Humiles	4-8	8 weeks,L		70	12x6	herbaceous	Blue	open wooded
P. virgatus ssp. arizonicus	Habroanthus	5	0 weeks			12x5	herbaceous	v	dry upland
P. virgatus ssp. virgatus	Habroanthus	5	0 weeks			12x5	herbaceous	v	dry upland
P. vizcainensis	Peltanthera					72x	herbaceous	Red	dryland
P. vulcanellus	Perfoliati	8				12x	subshrub	lavender	alpine
P. wardii	Habroanthus	5	8 weeks,L			6x2	herbaceous	Blue	open wooded
P. washingtonensis	Proceri	5				10x5	herbaceous	Blue	moist ground
P. watsonii	Proceri	6	8 weeks		50	24x6	herbaceous	B,P	dry upland
P. whippleanus	Humiles	3	8 weeks,L		70	20x6	herbaceous	V	alpine
P. wilcoxii	Humiles	6	8 weeks,L			20x10	herbaceous	Blue	open wooded
P. wisconsinensis	Penstemon					30x	herbaceous	lilac	plains
P. wislizeni	Elmigera					24x	mat	S	dryland
P. wrightii	Centranthifolii					36x	herbaceous	Red	mixed

Total species >>>>>>>>>>>>>>

Total Plants >>>>>>>>>>>>>>>>>>

Blue Mt. Species

	According to Jean Mitchell	Strickler	Me	USFS	WNPS
attenuatus v. attenuatus					
confertus	x	x	x	x	
davidsonii		x	x	x	
deustus v. deustus				x	
fruticosus v. fruticosus		x	x	x	
fruticosus v. serratus	x	x	x	x	
gairdneri		x			
glandulosus				x	
pennellianus				x	
procerus v. procerus	x	x	x	x	x
richardsonii v. richardsonii		x	x	x	x
richardsonii v. curtiflorus			x	x	
richardsonii v. dentatus		x			
rydbergii				x	x
rydbergii v. oreocharis				x	
speciosus		x			
venustus				x	
wilcoxii	x	x	x	x	x
		x		x	
Changed Names	4	11	8	15	4

Old Name	New Name
P. alpinus	*P. glaber ssp. alpinus*
P. angustifolius v. caudatus	*P. caudatus*
P. brandegei	*P. glaber ssp. brandegei*
P. bridgesii	*P. rostriflorus*
P. parvulus	*P. azureus v. parvulus*
P. speciosus v. kennedyi	*P. speciosus "Kennedyi"*
P. tusharensis	*P. caespitosus v. suffruticosus*
P. yampaensis	*P. acaulis v. yampaensis*
P. menziesii	*P. davidsonii v. menziesii*
P. virgatus v. asi-greyi	*P. unilateralis*