

142	Rosac	<i>Purshia stansburyana</i>	cliffrose	0.36	20/9
143	Rubia	<i>Galium aparine</i>	common bedstraw	3.46	1/1
144	Rubia	<i>Galium munzii ssp. ambivalens</i>	Munz's bedstraw	0.3	40/9
145	Rubia	<i>Galium wrightii</i>	Wright's bedstraw	0.17	2/2
146	Rutac	<i>Ptelea trifoliata ssp. pallida</i>	pallid hoptree	0.21	50/9
147	Rutac	<i>Thamnosma montana</i>	turpentine broom	3.51	13/3
148	Salic	<i>Populus fremontii</i>	Fremont cottonwood	4.59	iN/
149	Salic	<i>Salix exigua</i>	narrowleaf willow	4.66	iN/
150	Santa	<i>Arceuthobium divaricatum</i>	pinyon pine dwarf-mistletoe	0	2/2
151	Saxif	<i>Heuchera rubescens</i>	coral bells	0.3	7/4
152	Solan	<i>Datura wrightii</i>	sacred datura	2.74	iN/2
153	Solan	<i>Solanum elaeagnifolium</i>	silverleaf nightshade	4.62	iN/3
154	Vitac	<i>Parthenocissus inserta</i>	Virginia creeper	0.05	1/1
155	Vitac	<i>Vitis arizonica</i>	Canyon wild grape	4.59	iN/
156	Amary ~	<i>Allium bisceptrum var. palmeri</i>	Aspen onion	0.3	5/1
157	Aspar	<i>Agave utahensis var. kaibabensis</i>	Kaibab century plant	2.42	1/1
158	Aspar	<i>Nolina microcarpa</i>	sacahuista	4.56	3/1
159	Aspar	<i>Yucca baccata</i>	banana yucca	0.43	45/9
160	Cyper	<i>Carex alma</i>	sturdy sedge	IG	V/
161	Cyper	<i>Schoenoplectus americanus</i>	American tule	IG	iN/1
162	Lilia	<i>Calochortus flexuosus</i>	winding mariposa	3.61	10/2
163	Poace	<i>Aristida purpurea var. longiseta</i>	red three-awn	3.61	10/2
164	Poace	<i>Bouteloua curtipendula</i>	side-oats grama	3.52	50/9
165	Poace	<i>Bouteloua gracilis</i>	blue grama	4.1	30/3
166	Poace	<i>Bromus diandrus</i>	*ripgut brome	2.04	30/9
167	Poace	<i>Bromus inermis</i>	*smooth brome	0.41	99/9
168	Poace	<i>Bromus japonicus</i>	*Japanese chess	IG	iN/1
169	Poace	<i>Bromus richardsonii</i>	fringed brome	0.55	/
170	Poace	<i>Bromus rubens</i>	*red brome	2	10/1
171	Poace	<i>Bromus tectorum</i>	*downy brome	0	99/9
172	Poace	<i>Cynodon dactylon</i>	*Bermuda grass	0.36	5/1
173	Poace	<i>Elymus elymoides</i>	squirreltail	0.05	30/9
174	Poace ?	<i>Elymus smithii</i>	western wheatgrass	1.42	3/1
175	Poace	<i>Elymus trachycaulus</i>	slender wheatgrass	0.05	50/9
176	Poace ~	<i>Eriocoma arida</i>	Mormon needlegrass	1.99	20/5
177	Poace	<i>Eriocoma hymenoides</i>	Indian ricegrass	0.33	40/9
178	Poace ~	<i>Eriocoma parishii</i>	Parish needlegrass	2.18	20/9
179	Poace	<i>Hesperostipa comata</i>	needle & thread grass	3.01	10/2
180	Poace	<i>Hilaria jamesii</i>	James' galleta	1.95	1/1
181	Poace	<i>Hordeum jubatum</i>	squirreltail barley	1.58	iN/1
182	Poace	<i>Hordeum murinum</i>	*foxtail barley	0.03	99/9
183	Poace	<i>Lolium arundinaceum</i>	*tall fescue	IG	V/
184	Poace	<i>Muhlenbergia porteri</i>	bush muhly	2.05	10/2
185	Poace	<i>Pappostipa speciosa</i>	desert needlegrass	2.45	iN/1
186	Poace	<i>Phragmites australis</i>	common reed	4.59	iN/
187	Poace	<i>Poa annua</i>	*annual blue grass	0.26	1/1
188	Poace	<i>Poa fendleriana</i>	mutton grass	0.09	99/9
189	Poace	<i>Sporobolus cryptandrus</i>	sand dropseed	0.41	10/1

Grand Canyon Flora: Upper Bright Angel Trail / 10 September 2022

#	Famil ID	Scientific Name	(*)Common Name	Mile#	PI/Loc
1	Selag	<i>Selaginella mutica</i>	spike-moss	1.81	1/1
2	Pteri	<i>Myriopteris gracilis</i>	slender lipfern	-	2/1
3	Cupre	<i>Juniperus osteosperma</i>	Utah juniper	0	20/9
4	Ephed	<i>Ephedra viridis</i>	green ephedra	0.34	50/9
5	Pinac	<i>Pinus edulis</i>	two-needle pinyon pine	0	50/9
6	Pinac	<i>Pinus ponderosa</i>	ponderosa pine	0.13	/
7	Pinac	<i>Pseudotsuga menziesii var. glauca</i>	Rocky Mountain Douglas fir	0.38	10/3
8	Amara	<i>Amaranthus albus</i>	*tumble pigweed	0.02	5/2
9	Amara	<i>Amaranthus powellii</i>	Powell's amaranth	0	20/2
10	Amara	<i>Atriplex canescens</i>	fourwing saltbush	3.73	5/1
11	Amara	<i>Atriplex rosea</i>	*tumbling oracle	0.02	40/2
12	Amara	<i>Chenopodium fremontii</i>	Fremont's goosefoot	0.08	20/5
13	Amara	<i>Salsola tragus</i>	*Russian thistle	0.01	20/3
14	Anaca	<i>Rhus aromatica</i>	skunkbush	1.17	20/6
15	Apiac	<i>Yabea microcarpa</i>	California hedge-parsley	3.46	2/1
16	Apocy	<i>Asclepias subverticillata</i>	poison milkweed	3.61	1/1
17	Aster	<i>Acourtia wrightii</i>	brownfoot	3.46	2/2
18	Aster	<i>Ageratina herbacea</i>	fragrant snakeroot	0.2	30/5
19	Aster	<i>Artemisia bigelovii</i>	Bigelow sagebrush	1.77	iN/2
20	Aster	<i>Artemisia ludoviciana</i>	silver wormwood	0.05	99/9
21	Aster	<i>Artemisia nova</i>	black sagebrush	0.23	x/1
22	Aster	<i>Artemisia tridentata</i>	big sagebrush	0.15	30/9
23	Aster	<i>Baccharis salicifolia</i>	mule fat	IG	iN/1
24	Aster	<i>Baccharis sarothroides</i>	broom baccharis	4.6	iN/1
25	Aster	<i>Brickellia californica</i>	California brickellbush	0.04	99/9
26	Aster	<i>Brickellia longifolia</i>	longleaf brickellbush	1.71	99/9
27	Aster	<i>Chaetopappa ericoides</i>	rose heath	0.44	20/6
28	Aster	<i>Cirsium arizonicum</i>	Arizona thistle	0.05	30/9
29	Aster	<i>Dieteria canescens</i>	hoary-aster	0	50/9
30	Aster	<i>Encelia resinifera</i>	resin brittlebush	3.28	30/7
31	Aster	<i>Ericameria arizonica</i>	Grand Canyon Goldenweed	0.12	20/8
32	Aster	<i>Ericameria nauseosa var. graveolens</i>	pungent rabbitbrush	0.14	1/1
33	Aster	<i>Ericameria nauseosa var. juncea</i>	rush rabbitbrush	3.61	40/9
34	Aster	<i>Ericameria nauseosa var. oreophila</i>	threadleaf common rabbitbrush	0	50/9
35	Aster	<i>Erigeron concinnus</i>	tidy fleabane	1.57	50/9
36	Aster	<i>Erigeron flagellaris</i>	trailing fleabane	0.58	30/9
37	Aster	<i>Erigeron utahensis</i>	Utah fleabane	1.97	iN/1
38	Aster	<i>Eurybia glauca pulchra</i>	beautiful aster	0.09	99/9
39	Aster	<i>Gutierrezia microcephala</i>	sticky snakeweed	0.39	30/9
40	Aster	<i>Gutierrezia sarothrae</i>	matchweed	0.02	5/2
41	Aster ~	<i>Helianthus petiolaris</i>	prairie sunflower	0.02	1/1
42	Aster	<i>Hymenoxys cooperi</i>	Cooper's rubberweed	0.27	5/2
43	Aster	<i>Iva frutescens</i>	bigleaf marsh-elder	IG	V/
44	Aster	<i>Packera multilobata</i>	Basin butterweed	0.36	3/2
45	Aster	<i>Perityle congesta</i>	Grand Canyon rock-daisy	0.09	50/9

46	Aster	<i>Psilostrophe sparsiflora</i>	greenstem paperflower	1.95	5/2	94	Gross	<i>Ribes cereum var. pedicellare</i>	whisky currant	0	99/9
47	Aster	<i>Solidago velutina</i>	velvety goldenrod		5/2	95	Gross	<i>Ribes leptanthum</i>	trumpet gooseberry	1.12	50/9
48	Aster	<i>Stephanomeria pauciflora</i>	wire-lettuce	3.3	/	96	Gross	<i>Ribes velutinum</i>	desert gooseberry	0	99/9
49	Aster	<i>Uropappus lindleyi</i>	silver puffs	3.75	1/1	97	Hydra	<i>Fendlera rupicola</i>	Fendler bush	0.51	40/9
50	Aster	<i>Xanthisma gracile</i>	yellow spiny daisy	0.36	x/1	98	Hydra	<i>Fendlerella utahensis</i>	Utah fendlerbush	0.25	1/1
51	Aster	<i>Xylorhiza tortifolia</i>	Mojave woodyaster	2.77	20/9	99	Lamia	<i>Hedeoma drummondii</i>	Drummond's false pennyroyal	0.3	1/1
52	Berbe	<i>Berberis fremontii</i>	Fremont barberry	0.39	10/9	100	Lamia	<i>Marrubium vulgare</i>	*horehound	0.02	20/5
53	Berbe	<i>Berberis repens</i>	creeping barberry	0.1	20/5	101	Lamia	<i>Nepeta cataria</i>	*catnip	0.05	20/3
54	Betul	<i>Ostrya knowltonii</i>	Knowlton hop hornbeam	0.86	30/9	102	Malva	<i>Malva neglecta</i>	*common mallow	0	10/2
55	Borag ~	<i>Cryptantha gracilis</i>	slender cryptantha	0.37	20/3	103	Malva	<i>Sphaeralcea grossulariifolia</i>	gooseberryleaf globemallow	1.51	50/9
56	Borag	<i>Cryptantha pterocarya</i>	wing-nut cryptantha	3.75	x/	104	Malva	<i>Sphaeralcea parvifolia</i>	littleleaf globe mallow	0.02	30/9
57	Borag	<i>Lappula occidentalis var. occidentalis</i>	flatspine stickseed	0.16	30/9	105	Monti	<i>Claytonia parviflora ssp. utahensis</i>	narrow-leaved miner's lettuce	1.27	99/9
58	Borag	<i>Phacelia filiformis</i>	narrow phacelia	1.95	20/3	106	Nycta ~	<i>Mirabilis linearis</i>	narrow-leaf four o'clock	0.61	2/1
59	Borag	<i>Phacelia laxiflora</i>	nodding scorpionflower	3.59	iN/1	107	Nycta	<i>Mirabilis multiflora</i>	giant four o'clock	2.03	20/5
60	Brass	<i>Alyssum simplex</i>	*wild alyssum	0.8	iN/1	108	Nycta	<i>Mirabilis oxybaphoides</i>	smooth spreading four o'clock	0	50/9
61	Brass	<i>Boechea perennans</i>	perennial rock-cress	0	40/9	109	Oleac	<i>Fraxinus anomala</i>	single-leaf ash	1.93	10/5
62	Brass	<i>Capsella bursa-pastoris</i>	shepherd's purse	0.23	10/3	110	Oleac	<i>Fraxinus cuspidata</i>	fragrant ash	1.47	30/9
63	Brass	<i>Chorispora tenella</i>	*crossflower	0	99/9	111	Onagr	<i>Chylismia multijuga</i>	froststem suncup	IG	V/
64	Brass	<i>Descurainia sophia</i>	*herb sophia	0	99/9	112	Papav	<i>Argemone arizonica</i>	Arizona prickly poppy	1.46	6/2
65	Brass	<i>Erysimum capitatum var. purshii</i>	wallflower	0.26	5/3	113	Papav	<i>Corydalis aurea</i>	scrambled eggs	0.63	5/2
66	Brass	<i>Lepidium densiflorum</i>	common pepper-grass	0	5/1	114	Plant	<i>Castilleja chromosa</i>	Martin's paintbrush	0.39	3/1
67	Brass	<i>Lepidium draba</i>	whitetop (removed by GC)	2.42	20/1	115	Plant	<i>Maurandya antirrhiniflora</i>	snapdragon vine	3.19	3/2
68	Brass	<i>Lepidium lasiocarpum var. lasiocarpum</i>	hairy-podded pepper-grass	2.5	20/5	116	Plant	<i>Penstemon eatonii ssp. undosus</i>	Eaton's penstemon	0.59	20/9
69	Brass	<i>Lepidium montanum</i>	mountain pepper-grass	-	7/2	117	Plant	<i>Penstemon palmeri</i>	Palmer's penstemon	0.05	10/2
70	Brass	<i>Lepidium perfoliatum</i>	*Klamath pepper-grass	0.04	99/9	118	Plant	<i>Penstemon rostriflorus</i>	beaked penstemon	0.16	10/5
71	Brass	<i>Nasturtium officinale</i>	water cress	4.66	iN/	119	Plant	<i>Penstemon utahensis</i>	Utah penstemon	1.95	20/7
72	Brass	<i>Noccaea fendleri</i>	wild candytuft	0.58	8/3	120	Plant	<i>Plantago patagonica</i>	Patagonia plantain	3.61	10/1
73	Brass	<i>Physaria purpurea</i>	rose bladderpod	3.12	30/7	121	Plant	<i>Verbascum thapsus</i>	common mullein	1.64	2/1
74	Brass	<i>Sisymbrium irio</i>	*London rocket	0.06	10/3	122	Polem	<i>Gilia ophthalmoides</i>	eyed gilia	1.95	2/2
75	Brass	<i>Thelypodium wrightii</i>	Wright's thelypody	0	10/3	123	Polem	<i>Phlox austromontana</i>	southern mountain phlox	0.64	10/5
76	Cacta	<i>Echinocereus triglochidiatus</i>	claret cup	0.54	/	124	Polem	<i>Phlox longifolia</i>	longleaf phlox	3.51	30/9
77	Cacta	<i>Opuntia basilaris var. longiareolata</i>	Grand Canyon beavertail	3.62	iN/1	125	Polyg	<i>Eriogonum inflatum</i>	desert trumpet	3.72	10/1
78	Cacta	<i>Opuntia engelmannii var. engelmannii</i>	Engelmann prickly-pear	2.69	iN/4	126	Polyg	<i>Eriogonum microthecum var. simpsonii</i>	Simpson's buckwheat	0.33	50/9
79	Cacta	<i>Opuntia phaeacantha</i>	desert prickly-pear	0.44	5/5	127	Polyg sp	<i>Eriogonum sp.</i>	Buckwheat with terminal infl	3.74	x/
80	Cacta	<i>Opuntia polyacantha var. erinacea</i>	Mojave prickly-pear	1.6	3/3	128	Polyg	<i>Polygonum arenastrum</i>	*knotweed	0	5/2
81	Canna	<i>Celtis reticulata</i>	netleaf hackberry	3.07	1/1	129	Polyg ~	<i>Rumex crispus</i>	curly dock	0.72	1/1
82	Capri ~	<i>Sambucus cerulea</i>	blue elderberry	0.6	1/1	130	Ranun	<i>Ceratocephala testiculata</i>	*curvseed butterwort	0	99/9
83	Capri	<i>Symphoricarpos rotundifolius</i>	snowberry	0	99/9	131	Ranun	<i>Clematis ligusticifolia</i>	virgin's bower	0.98	5/2
84	Cross	<i>Glossopetalon spinescens var. aridum</i>	spiny greasebush	0.8	20/9	132	Ranun	<i>Delphinium scaposum</i>	barestem larkspur	1.33	10/5
85	Eupho	<i>Bernardia incana</i>	western bernardia	-	4/3	133	Ranun	<i>Thalictrum fendleri</i>	Fendler's meadow-rue	0.16	55/9
86	Fabac	<i>Astragalus calycosus</i>	Torrey's milkvetch	2.9	10/1	134	Rhamn	<i>Frangula obovata</i>	birchleaf buckthorn	0.98	2/2
87	Fabac	<i>Astragalus lentiginosus var. diphyus</i>	freckled milk-vetch	0.39	1/1	135	Rosac	<i>Amelanchier utahensis</i>	Utah service-berry	0	99/9
88	Fabac	<i>Cercis orbiculata</i>	western redbud	1.58	3/3	136	Rosac	<i>Chamaebatiaria millefolium</i>	fern bush	0.03	20/9
89	Fabac	<i>Lathyrus brachycalyx ssp. zionis</i>	bush peavine	2.91	2/1	137	Rosac	<i>Coleogyne ramosissima</i>	black brush	2.43	50/3
90	Fabac	<i>Medicago sativa</i>	alfalfa	0.22	1/1	138	Rosac	<i>Fallugia paradoxa</i>	Apache plume	3.72	5/2
91	Fabac	<i>Senegalia greggii</i>	catclaw	4.02	50/3	139	Rosac	<i>Holodiscus dumosus</i>	shrubby cream bush	0.54	10/3
92	Fagac	<i>Quercus gambelii</i>	Gambel oak	0	50/9	140	Rosac	<i>Ivesia arizonica arizonica</i>	rock whitefeather	0.25	40/2
93	Fagac	<i>Quercus turbinella</i>	shrub live oak	2.64	10/2	141	Rosac	<i>Petrophytum caespitosum</i>	rock spiraea	3.19	50/2