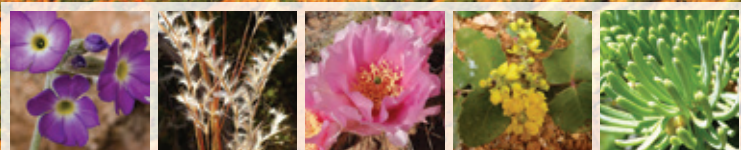


BEARS EARS NATIONAL MONUMENT

PLANTS Highlighted in the PROCLAMATION



PREPARED BY MARC COLES-RITCHIE



GRAND CANYON
TRUST



Tim Peterson

“The diversity of the soils and microenvironments in the Bears Ears area provide habitat for a wide variety of vegetation...Protection of the Bears Ears area will preserve its cultural, prehistoric, and historic legacy and maintain its diverse array of natural and scientific resources, ensuring that the prehistoric, historic, and scientific values of this area remain for the benefit of all Americans.

NOW, THEREFORE, I, BARACK OBAMA . . . hereby proclaim the objects identified above that are situated upon lands and interests in lands owned or controlled by the Federal Government to be the Bears Ears National Monument.”

*Excerpts from Bears Ears National Monument Proclamation,
December 28, 2016*








ACKNOWLEDGEMENTS

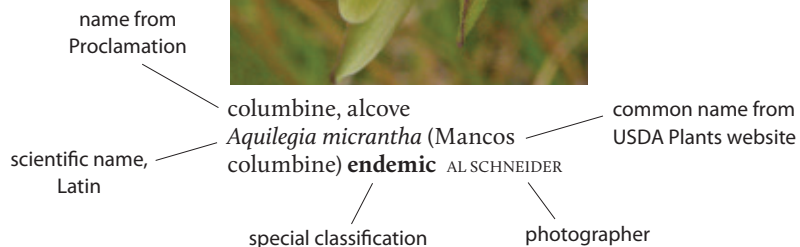
This effort was guided by Mary O'Brien who reviewed many drafts. Sue Smith prepared the initial list of Monument plants. Many photographers (listed below each photo) have generously given permission for their images to be used; many of which are available under the "creative commons" <https://creativecommons.org/licenses/by-nc-sa/3.0/>. Joan Carstensen did the beautiful design and layout. Tony Frates of Utah Native Plant Society provided updates on the names of particular species. We recognize President Barack Obama for designating the Monument that contains these beautiful plants.

THIS LIST OF 129 SPECIES is created from the plants noted in the Proclamation that established Bears Ears National Monument. The Proclamation listed names that were sometimes general, such as aster or bluegrass, and other times more specific such as Kachina daisy or four-wing saltbrush. When a general plant name was listed we included multiple species that are associated with that name, and which are known to occur within the Monument boundary.

The plants are grouped first by growth form:

-  Forbs/herbaceous (65 species; includes wildflowers and subshrubs)
Page 5
-  Grasslike (15 species; includes grasses and horsetails)
Page 16
-  Cacti (5 species)
Page 19
-  Shrubs (30 species)
Page 20
-  Trees (14 species)
Page 25

Secondly, within each growth form the plants are listed alphabetically by the common name that was in the Proclamation, and by common generic name if there is more than one plant that shares that name (as in beard-tongue, beeflower, columbine, daisy, sagebrush and willow). Plants noted as “endemic” are found only in the Colorado Plateau according to the USDA Plants database (plants.usda.gov). Plants listed as “imperiled” are endemic to that same region, but are also globally imperiled because they are so uncommon according to NatureServe (www.natureserve.org).



We recognize that there are many more plants in Bears Ears National Monument than those listed here. This document merely presents the plants that were highlighted in the Proclamation. We hope that in the near future a complete list of the plants of Bears Ears National Monument will be developed.



aster
Almutaster pauciflorus (alkali marsh aster) MARC COLES-RITCHIE



aster
Eurybia glauca (gray aster) TONY FRATES



aster
Symphyotrichum ascendens (western aster) MAX LICHER



aster
Symphyotrichum ericoides (white heath aster) MAX LICHER



aster
Symphyotrichum falcatum (white prairie aster) LIZ MAKINGS



aster
Symphyotrichum foliaceum (alpine leafybract aster) TONY FRATES



aster
Symphiotrichum frondosum
(short-rayed alkali aster) STEVE MATSON



aster
Symphiotrichum spatulatum
(western mountain aster)
MARC COLES-RITCHIE



beardtongue
Penstemon ambiguus (gilia
beardtongue) USDA-NRCS PLANTS DATABASE



aster
Symphiotrichum laeve (smooth blue
aster) RICHARD SPELLENBERG



balsamroot
Balsamorhiza sagittata (arrowleaf
balsamroot) MARC COLES-RITCHIE



beardtongue
Penstemon angustifolius (broadbeard
beardtongue) AL SCHNEIDER



beardtongue
Penstemon breviculus (shortstem
beardtongue) AL SCHNEIDER



beardtongue
Penstemon crandallii (Crandall's
beardtongue) AL SCHNEIDER



beardtongue
Penstemon lentus (handsome
beardtongue) AL SCHNEIDER



beardtongue
Penstemon comarrhenus (dusty
beardtongue) EUGENE STURLA



beardtongue
Penstemon cyanocaulis
(bluestem beardtongue)
NATIONAL PARK SERVICE/NEAL HERBERT



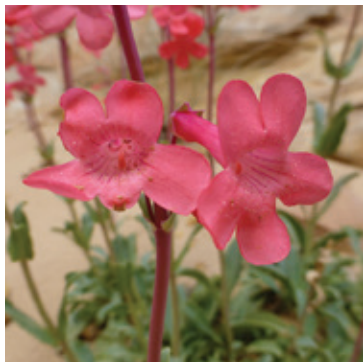
beardtongue
Penstemon leonardii (Leonard's
beardtongue) TONY FRATES



beardtongue
Penstemon moffatii (Moffatt's
beardtongue) **ANDI WOLFE**



beardtongue, Navajo penstemon
Penstemon navajoa (Navajo Mountain
beardtongue) **imperiled** DANIELA ROTH



beardtongue
Penstemon utahensis (Utah
penstemon) **MARC COLES-RITCHIE**



beeflower, purple
Cleome serrulata (Rocky Mountain
beeplant) **MARC COLES-RITCHIE**



beeflower, yellow
Cleome lutea (yellow spiderflower)
MARC COLES-RITCHIE



cave primrose
Primula speculicola (cavedwelling
primrose) **endemic** STEVE HEGJI



columbine
Aquilegia coerulea (Colorado blue
columbine) **MARC COLES-RITCHIE**



columbine, alcove
Aquilegia micrantha (Mancos
columbine) **endemic** AL SCHNEIDER



daisy, Kachina
Erigeron kachinensis (kachina
fleabane) **imperiled** LORAIN YEATTS



columbine
Aquilegia elegantula (western
red columbine) **PATRICK ALEXANDER**



daisy, Abajo
Erigeron abajoensis (Abajo fleabane)
imperiled BILL GRAY



Durango tumble mustard
Thelypodiopsis aurea (Durango
tumblemustard) **AL SCHNEIDER**



evening primrose
Oenothera albicaulis (whitest
evening primrose) MAX LICHER



evening primrose
Oenothera caespitosa (tufted
evening primrose) MAX LICHER



evening primrose
Oenothera pallida (pale evening
primrose) MARC COLES-RITCHIE



globe mallow
Sphaeralcea coccinea (scarlet
globemallow) MAX LICHER



evening primrose
Oenothera coronopifolia
(crownleaf evening primrose)
NATIONAL PARK SERVICE



evening primrose
Oenothera elata (Hooker's evening
primrose) MARC COLES-RITCHIE



globe mallow
Sphaeralcea grossulariifolia
(gooseberryleaf globemallow)
STAN SHEBS



globe mallow
Sphaeralcea leptophylla
(scaly globemallow) AL SCHNEIDER



evening primrose
Oenothera flava (yellow evening
primrose) PATRICK ALEXANDER



evening primrose
Oenothera longissima
(longstem evening primrose)
NEAL HERBERT, NATIONAL PARK SERVICE



globe mallow
Sphaeralcea parvifolia (smallflower
globemallow) MAX LICHER



Indian paintbrush
Castilleja linariifolia (Wyoming
Indian paintbrush) AL SCHNEIDER



Indian paintbrush
Castilleja miniata (giant red
Indian paintbrush) AL SCHNEIDER



Indian paintbrush
Castilleja scabrada
(rough Indian paintbrush)
NATIONAL PARK SERVICE/JACOB W. FRANK



Indian paintbrush
Castilleja sulphurea (sulphur
Indian paintbrush) AL SCHNEIDER



low larkspur
Delphinium nuttallianum (two-lobed
larkspur) PATRICK ALEXANDER



monkey flower
Mimulus eastwoodiae (Eastwood's
monkeyflower) MAX LICHER



monkey flower
Mimulus floribundus (manyflowered
monkeyflower) STEVE MATSON



monkey flower
Mimulus guttatus (seep
monkeyflower) MARC COLES-RITCHIE



monkey flower
Mimulus rubellus (little redstem
monkeyflower) MAX LICHER



monkey flower
Mimulus tilingii (Tiling's
monkeyflower) KEIR MORSE



peppergrass
Lepidium crenatum (alkali
pepperweed) USDA-NRCS PLANTS DATABASE



peppergrass
Lepidium lasiocarpum (shaggyfruit
pepperweed) MAX LICHER



peppergrass
Lepidium montanum (mountain
pepperweed) PATRICK ALEXANDER



peppergrass
Lepidium virginicum (Virginia
pepperweed) MAX LICHER



pinnate spring parsley
Cymopterus beckii (featherleaf
springparsley) **imperiled**
TERESA PRENDUSI



prince's plume
Stanleya pinnata (desert
princesplume) MARC COLES-RITCHIE



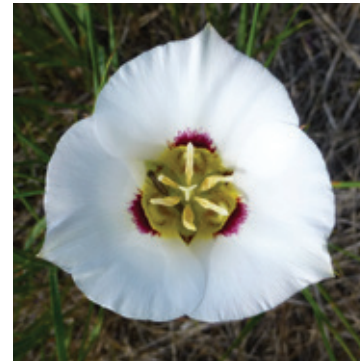
sacred datura
Datura wrightii (sacred thorn-apple)
ALAN SCHMIERER



sand verbena
Abronia elliptica (fragrant white
sand verbena) MARC COLES-RITCHIE



scarlet gilia
Ipomopsis aggregata (scarlet gilia)
MARC COLES-RITCHIE



sego lily
Calochortus nuttallii (sego lily)
MARC COLES-RITCHIE



straight bladderpod
Physaria rectipes (straight
bladderpod) AL SCHNEIDER



sunflower
Helianthus anomalus (western
sunflower) MAX LICHER



sunflower
Helianthus petiolaris (prairie
sunflower) MAX LICHER



yarrow
Achillea millefolium (common
yarrow) MARC COLES-RITCHIE



bluegrass
Poa bigelovii (Bigelow's bluegrass)
MAX LICHER



bluegrass
Poa cusickii (Cusick's bluegrass)
CAROL WITHAM



bluegrass
Poa glauca (glaucous bluegrass)
STEVE MATSON



bluegrass
Poa palustris (fowl bluegrass)
MAX LICHER



bluegrass
Poa secunda (Sandberg bluegrass)
TONY FRATES



bluestem
Andropogon gerardii (big bluestem)
MATT LAVIN



bluestem
Bothriochloa barbinodis (cane
bluestem) MAX LICHER



bluestem
Schizachyrium scoparium (little
bluestem) MAX LICHER



giant ryegrass
Leymus cinereus (basin wildrye)
PATRICK ALEXANDER



horsetail
Equisetum arvense (field horsetail)
MARC COLES-RITCHIE



horsetail
Equisetum hyemale (scouringrush
horsetail) MARC COLES-RITCHIE



horsetail
Equisetum laevigatum (smooth
horsetail) MATT LAVIN



needle and thread
Hesperostipa comata (needle and thread) SHERI HAGWOOD, HOSTED BY USDA-NRCS PLANTS DATABASE



ricegrass
Achnatherum hymenoides (Indian ricegrass) MARC COLES-RITCHIE



claret cup
Echinocereus mojavensis (Mojave kingcup cactus) MARC COLES-RITCHIE



prickly pear
Opuntia fragilis (brittle pricklypear) MAX LICHER



prickly pear
Opuntia phaeacantha (tulip pricklypear) MAX LICHER



prickly pear
Opuntia polyacantha var. *nicholii* (Navajo Bridge pricklypear) MAX LICHER



Whipple's fishhook
(interpreted to be) *Sclerocactus parviflorus* (smallflower fishhook cactus) AL SCHNEIDER



barberry
Berberis fendleri (Colorado barberry)
AL SCHNEIDER



barberry
Mahonia fremontii (Fremont's mahonia)
MARC COLES-RITCHIE



dogwood
Cornus sericea (redosier dogwood)
MARC COLES-RITCHIE



four-wing saltbush
Atriplex canescens (fourwing saltbush)
MAX LICHER



barberry
Mahonia repens (creeping barberry)
MARC COLES-RITCHIE



bitterbrush
Purshia tridentata (antelope bitterbrush)
MARC COLES-RITCHIE



greasewood
Sarcobatus vermiculatus (greasewood)
MATT LAVIN



juniper
Juniperus communis (common juniper)
MARC COLES-RITCHIE



blackbrush
Coleogyne ramosissima (blackbrush)
MARC COLES-RITCHIE



cliffrose
Purshia stansburiana (Stansbury cliffrose)
MARC COLES-RITCHIE



mountain mahogany
Cercocarpus intricatus (littleleaf mountain mahogany)
MARC COLES-RITCHIE



mountain mahogany
Cercocarpus montanus (alderleaf mountain mahogany)
MARC COLES-RITCHIE



rabbitbrush
Chrysothamnus depressus
(longflower rabbitbrush) AL SCHNEIDER



rabbitbrush
Chrysothamnus linifolius (spearleaf
rabbitbrush) MAX LICHER



rabbitbrush
Chrysothamnus viscidiflorus (yellow
rabbitbrush) MARC COLES-RITCHIE



rabbitbrush
Chrysothamnus greenei (Greene's
rabbitbrush) KIRSTIN OLMON



rabbitbrush
Chrysothamnus vaseyi (Vasey's
rabbitbrush) UNIVERSITY OF MISSISSIPPI



rabbitbrush
Ericameria nauseosa (rubber
rabbitbrush) MARC COLES-RITCHIE



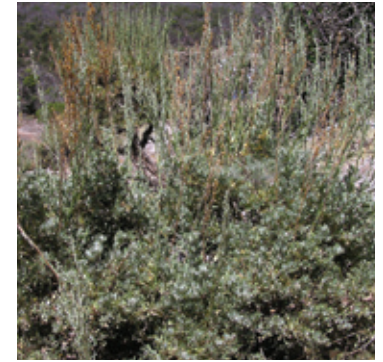
sagebrush, big
Artemisia tridentata (big sagebrush)
MARC COLES-RITCHIE



shadscale
Atriplex confertifolia (shadscale
saltbush) MARC COLES-RITCHIE



western chokecherry
Prunus virginiana (chokecherry)
MAX LICHER



sagebrush, low
Artemisia nova (black sagebrush)
AL SCHNEIDER



Utah serviceberry
Amelanchier utahensis (Utah
serviceberry) MARC COLES-RITCHIE



willow, western sandbar
Salix exigua (narrowleaf willow)
AL SCHNEIDER



willow, yellow
Salix lutea (yellow willow)
MARC COLES-RITCHIE



winterfat
Krascheninnikovia lanata (winterfat)
FRANKIE COBURN



yucca
Yucca angustissima (narrowleaf yucca)
WENDY HODGSON



yucca
Yucca baccata (banana yucca)
LIZ MAKINGS



yucca
Yucca baileyi (Navajo yucca)
endemic AL SCHNEIDER



yucca
Yucca harrimaniae (Spanish bayonet)
MAX LICHER



alder
Alnus incana (gray alder)
MARC COLES-RITCHIE



aspen
Populus tremuloides (quaking aspen)
MARC COLES-RITCHIE



birch
Betula occidentalis (water birch)
MARC COLES-RITCHIE



box elder
Acer negundo (boxelder)
MARC COLES-RITCHIE



Douglas fir
Pseudotsuga menziesii (Douglas-fir)
MARC COLES-RITCHIE



Engelmann spruce
Picea engelmannii (Engelmann spruce)
MAX LICHER



Fremont cottonwood
Populus fremontii (Fremont
cottonwood) MARC COLES-RITCHIE



hackberry
Celtis laevigata var. *reticulata*
(netleaf hackberry) MARC COLES-RITCHIE



juniper
Juniperus scopulorum (Rocky
Mountain juniper) MAX LICHER



Gambel's oak
Quercus gambelii (Gambel oak)
MARC COLES-RITCHIE



juniper
Juniperus osteosperma (Utah
juniper) MARC COLES-RITCHIE



pinyon
Pinus edulis (twoneedle pinyon)
MARC COLES-RITCHIE



ponderosa pine
Pinus ponderosa (ponderosa pine)
ANDREY ZHARKIKH



subalpine fir
Abies lasiocarpa (subalpine fir)
MARC COLES-RITCHIE



TO READ THE PROCLAMATION, GO TO:

obamawhitehouse.archives.gov/the-press-office/2016/12/28/proclamation-establishment-bears-ears-national-monument

This booklet is available on the Grand Canyon Trust website.
grandcanyontrust.org/bears-ears-plants

BEARS EARS NATIONAL MONUMENT

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GRAND CANYON
TRUST