

IMAGE LIST

January 2016 Library Programs

NATURAL LANDSCAPE FEATURES

Buttes

- 1 Pawnee Buttes — any view, any season, any time of day

Escarments

- 2 Book Cliffs — any view, any season, any time of day

Canyons

- 3 Big Thompson Canyon — local landmark
- 4 Black Canyon of the Gunnison — any view, any season, any time of day
- 5 Canyon of Lodore — famous scenery for river rafting
- 6 Cottonwood Canyon — beautiful drive
- 7 Dolores Canyon — first documented by Dominguez-Escalante expedition
- 8 Forest Canyon — headwaters of Big Thompson River in Rocky Mountain NP
- 9 Glenwood Canyon — any view, any season, any time of day
- 10 Poudre Canyon — local landmark and birthplace of western water law
- 11 Royal Gorge — famous tourist attraction
- 12 Taylor Canyon — beautiful drive
- 13 Unaweep Canyon — beautiful drive
- 14 Yellowjacket Canyon — high diversity of lizard and snake species

Mountain Peaks

- 15 Mt. Elbert — highest land point in Colorado
- 16 Sunshine Peak — lowest elevation fourteener in Colorado
- 17 Mt. Evans — one of three fourteeners visible from Great Plains
- 18 Longs Peak — one of three fourteeners visible from Great Plains
- 19 Pikes Peak — most famous mountain in Colorado and one of three fourteeners visible from Great Plains
- 20 Grays Peak — prominent landmark, popular hike, and one of “Botany Peaks” (six mountains named for Nineteenth Century botanists)
- 21 Torreys Peak — prominent landmark, popular hike, and one of “Botany Peaks” (six mountains named for Nineteenth Century botanists)

Mountain Ranges

- 22 Front Range — most familiar range but also one of Colorado’s two oldest in geologic time
- 23 Maroon Bells — made famous by backpacking craze of 1960s-70s
- 24 Park Range — isolated range with distinctive biological character unique in Colorado
- 25 Sangre de Cristo Range — high number of fourteeners
- 26 San Juan Mountains — separate mountain system not part of “Rocky Mountains”
- 27 Sawatch Range — Collegiate Peaks and high number of fourteeners
- 28 Uncompahgre Plateau — one of Colorado’s two oldest in geologic time

Parks

- 29 Horseshoe Park — famous area for Elk-watching in Rocky Mountain NP
- 30 Lost Park — last enclave of Bison in Colorado
- 31 Middle Park — in settlement era famous for hot springs
- 32 North Park — inspiration for novel *Shane*
- 33 San Luis Valley — largest park in Colorado; much early history; many quirks and gee-whizzes
- 34 South Park — famous in Mountain Man Era as “Bayou Salada”
- 35 Taylor Park — northeast of Gunnison, south of the Maroon Bells

Streams: creeks, rivers

- 36 Arkansas River — one of longest rivers in contiguous 48 states
- 37 Big Thompson River — local landmark and of historical interest
- 38 Cache la Poudre River — local landmark
- 39 Colorado River — internationally famous; headwaters somewhere in Rocky Mountain NP
- 40 Dolores River — famous for being drained dry for irrigation
- 41 Gunnison River — one of the steepest declines from headwaters to mouth
- 42 North Platte River — headwaters in North Park
- 43 Saint Vrain River — local landmark
- 44 South Platte River — local landmark
- 45 Rio Grande — internationally famous; headwaters in San Juan Mountains
- 46 White River — famous in Powell Expedition
- 47 Yampa River — local landmark and famous secondary tributary of Colorado River

Lakes: lakes, ponds, reservoirs

- 48 Grand Lake — long regarded as largest natural lake in Colorado
- 49 Lake San Cristobal — formed by landslide from earthquake and contender for largest natural lake in Colorado
- 50 Blue Mesa Reservoir — largest body of water in Colorado
- 51 Bear Lake — possibly most famous lake in all of Colorado because in Rocky Mountain NP
- 52 Bonny Reservoir — drained by federal edict resulting from interstate water accord
- 53 Cherry Creek Reservoir — built after flood submerged Denver in early 1900s
- 54 John Martin Reservoir — largest reservoir on Arkansas River in Colorado

ANTHROPOGENIC LANDSCAPE FEATURES

National Forests

- 55 Arapaho — once part of biggest national forest preserve in U.S.
- 56 Roosevelt — once part of biggest national forest preserve in U.S.
- 57 Browns Canyon NM — jointly administered by Forest Service and BLM
- 58 Manti-La Sal — smallest national forest in Colorado (headquartered in Utah)
- 59 Pawnee National Grassland — one of original national grasslands
- 60 White River — largest in land area inside Colorado

National Parks

- 61 Bent's Old Fort NHS [good images from J. Futterer]
- 62 Black Canyon of the Gunnison NP
- 63 Colorado NM
- 64 Curecanti NRA
- 65 Dinosaur NM
- 66 Florissant Fossil Beds NM
- 67 Great Sand Dunes NP [old and fuzzy!]
- 68 Hovenweep NM
- 69 Mesa Verde NP
- 70 Rocky Mountain NP — largest NPS unit in Colorado and one of most-visited in U.S.
- 71 Sand Creek Massacre NHS
- 72 Yucca House NM — smallest NPS unit in Colorado

National Wildlife Refuges

- 73 Alamosa — Alamosa County

- 74 Arapaho — Jackson County
- 75 Baca — [in an Luis Valley]
- 76 Browns Park — Moffat County
- 77 Monte Vista — Rio Grande County
- 78 Rocky Flats — Jefferson County
- 79 Rocky Mountain Arsenal — Adams County
- 80 Two Ponds — smallest unit in entire NWR system; W. 80th Ave. in Arvada

State Parks

- 81 Any state park — entrance sign or defining landmark

State Wildlife Areas

- 82 Any state wildlife area — entrance sign or defining landmark

County Parks

- 83 Any county park — entrance sign or defining landmark

County Natural Areas and Open Spaces

- 84 Any county natural area or open space — entrance sign or defining landmark

Municipal Parks, Natural Areas, Open Spaces

- 85 Riverbend Ponds in Ft. Collins — original site that began local open space movement when still known as “Flatirons Open Space”

ORGANIZATION FACILITIES

Arboretums

- 86 Denver City Park
- 87 Fort Collins City Park
- 88 Regis College Campus

Aquariums

- 89 Denver Aquarium [good image provided by public information office]

Botanic Gardens

- 90 Denver Botanic Garden
- 91 Grand Junction Botanic Garden

Museums

- 92 Denver Museum of Nature and Science
- 93 Fruita dinosaur museum
- 94 Woodland Park dinosaur museum

Zoos

- 95 Cheyenne Mountain Zoo
- 96 Denver Zoo
- 97 Pueblo Zoo

WILDLIFE GROUPS – PLANTS

Liverworts

- 98 Any Colorado species

Hornworts

- 99 Good luck!

Mosses

- 100 Granite Moss — only grows in roundish clumps on granite
- 101 Sphagnum Moss — in gardening: the classic “peat moss”
- 102 Moss garden — expansive moss growth around mountain spring

Lycopods

- 103 Club-moss — grows at edges of and among trees in spruce-fir forests
- 104 Quillwort — aquatic and challenging to find
- 105 Spike-moss — all over everywhere once you know what to look for

Horsetails

- 106 Horsetails with branches
- 107 Horsetails without branches

Ferns

- 108 Bracken Fern — classic stereotypical fern
- 109 Forked Spleenwort — only grows in granite but not all granite everywhere
- 110 Hairy Water-Clover — grows in ancient Bison wallows

Conifers

- 111 Blue Spruce — officially designated state tree
- 112 Bristlecone Pine — known for great age
- 113 Douglas-Fir — important lumber tree but not a “fir”
- 114 Engelmann Spruce — contender for most abundant tree in Colorado
- 115 Limber Pine — famous as food source for Clark’s Nutcracker and also for great age and growing sites
- 116 Lodgepole Pine — contender for most abundant tree in Colorado
- 117 Rocky Mountain Juniper — important for various birds and mammals

Gnetophytes

- 118 Cutler’s Ephedra (*Ephedra cutleri*) — aka Cutler’s jointfir
- 119 Gray Ephedra (*Ephedra torreyana*) — aka Torrey’s jointfir
- 120 Green Ephedra (*Ephedra viridis*) — aka Mormon tea

Fruitifers

- 121 Blue Columbine
- 122 Blue Grama — especially still green and in bloom

WILDLIFE GROUPS – FUNGI

- 123 Conks
- 124 Fairy rings
- 125 Mushrooms – coralline
- 126 Mushrooms – cupped
- 127 Mushrooms – gilled
- 128 Mushrooms – pored
- 129 Mushrooms – toothed
- 130 Mycelium
- 131 Spore prints — [all set-up indoor work]

- 132 Witches'-brooms

WILDLIFE GROUPS – ANIMALS

- 133 Annelids: earthworms, leeches, sludgeworms
134 Cnidarians: hydras, jellyfishes
135 Flatworms: flukes, planaria
136 Roundworms: horsehair-worms, nematodes
 Mollusks: clams, snails
137 Bivalve: clams and freshwater-mussels
138 Gastropods: snails and slugs
139 Sponges

Tardigrades

- 140 Tardigrade: any Colorado species (microscope image)

Arthropods – Arachnids

- 141 Harvestman (aka “daddy longlegs”)
 Mite
142 Mites: any Colorado species
143 Ticks: any Colorado species
144 Pseudoscorpion
145 Scorpion
 Spider
146 Spider: any Colorado species
147 Tarantula: any Colorado species

Arthropods – Crustaceans

- 148 Crayfish: any Colorado species
149 Planktonic: cladocerans, daphnias, etc.
150 Slater (aka “pill bug” or “pillbug,” “roly-poly,” or “wood louse”)

Arthropods – Insects

- 151 Beetle
 Bug
152 Aphid
153 Cicada
154 Leafhopper
155 Stinkbug
156 Water-Strider
 Butterfly
157 Butterfly
158 Moth
159 Skipper
160 Caddisfly
161 Cockroach
 Dragonfly
162 Damselfly: any Colorado species
163 Dragonfly: any Colorado species
164 Earwig
165 Flea: any Colorado species
166 Fly: any Colorado species
 Grasshopper

- 167 Camel-Cricket: any Colorado species
- 168 Cricket: any Colorado species
- 169 Grasshopper: any Colorado species
- 170 Jerusalem-Cricket: any Colorado species
- 171 Longhorn-Grasshopper (aka “katydid” and “Mormon Cricket”): any Colorado species
- 172 Tree-Cricket: any Colorado species
- Lacewing
- 173 Ant-Lion: any Colorado species
- 174 Lacewing: any Colorado species
- 175 Louse: any Colorado species
- 176 Mantid (aka “praying mantis”): any Colorado species
- 177 Mayfly: any Colorado species
- 178 Silverfish: any Colorado species
- 179 Springtail: any Colorado species
- 180 Stonefly: any Colorado species
- 181 Termite: any Colorado species
- 182 Walkingstick: any Colorado species
- Wasp
- 183 Ant: any Colorado species
- 184 Bee: any Colorado species
- 185 Wasp: any Colorado species

Fishes

- 186 **CATFISH:** any Colorado bullhead, catfish, madtom
- 187 **EEL:** American Eel
- 188 **KILLIFISH:** Plains Killifish, Striped Topminnow
- 189 **MINNOW:** any Colorado chub, minnow, pike-minnow, shiner; Common Carp
- 190 **MOSQUITOFISH:** Western Mosquitofish
- 191 **PERCH:** any Colorado darter; Sauger, “Saugeye”; Walleye; Yellow Perch
- 192 **PIKE:** Northern Pike, Tiger Muskie
- 193 **SALMON:** any Colorado grayling, salmon, trout, whitefish
- 194 **SCULPIN:** Mottled Sculpin, Paiute Sculpin
- 195 **SMELT:** Rainbow Smelt
- 196 **STICKLEBACK:** Brook Stickleback
- 197 **SUCKER:** any Colorado species
- 198 **SUNFISH:** any Colorado bass, crappie, or sunfish (Bluegill, Pumpkinseed, Warmouth, and others)

Amphibians

- 199 **MOLE-SALAMANDER** (Ambystomatidae): Tiger Salamander
- 200 **FROG** (Ranidae): any Colorado species
- 201 **NARROWMOUTH-TOAD** (Microhylidae): Great Plains Narrowmouth-Toad
- 202 **SPADEFoot-TOAD** (Pelobatidae): any Colorado species
- 203 **TOAD** (Bufonidae): any Colorado species
- 204 **TREEFROG** (Hylidae): Canyon Treefrog, Northern Cricket-Frog, Striped Chorus-Frog

Turtles

- 205 Common Snapping-Turtle
- 206 Eastern Painted-Turtle
- 207 Ornate Box-Turtle
- 208 Spiny Softshell-Turtle
- 209 Yellow Mud-Turtle

Squamates (lizards and snakes)

- 210 **COLLARED-LIZARD** (Crotaphytidae): Long-nosed Leopard-Lizard or Yellow-headed Collared-Lizard

- 211 ☒ **COMMON LIZARD** (Phrynosomatidae): any Colorado species
- 212 ☐ **SKINK** (Scincidae): any Colorado species
- 213 ☐ **WHIPTAIL** (Teiidae): any Colorado species
- 214 ☒ **COLUBRID** (Colubridae): any Colorado species of gartersnake; Bullsnake; Coachwhip; Racer
- 215 ☐ **SLENDER-BLINDSNAKE** (Leptotylopidae): Texas Slender-Blindsnake (aka Texas Blind Snake)
- 216 ☐ **VIPER**: Common Rattlesnake (aka “Prairie Rattlesnake” or “Western Rattlesnake”) or Massasauga

Birds

- 217 ☐ Anhinga, cormorant, or Magnificent Frigatebird
- 218 ☒ Avocet, dowitcher, gull, phalarope, plover, sandpiper, tern, Wilson’s Snipe, or American Woodcock
- 219 ☐ Belted Kingfisher
- 220 ☒ Bittern, egret, heron, ibis, night-heron, or pelican
- 221 ☐ Caracara or falcon
- 222 ☒ Coot, crane, gallinule, rail (four Colorado species), or Sora
- 223 ☐ Condor: Black Vulture, California Condor, Turkey Vulture
- 224 ☐ Cuckoo, Greater Roadrunner, or Groove-billed Ani
- 225 ☐ Common Ground-Dove, or any Colorado dove or pigeon
- 226 ☒ Duck, goose, or swan: any Colorado species
- 227 ☒ Eagle, hawk, Mississippi or Swallow-tailed Kite, Northern Harrier, or Osprey
- 228 ☒ Grebe: any Colorado species
- 229 ☐ Chukar, grouse, pheasant, ptarmigan, quail, or turkey: any Colorado species
- 230 ☐ Hummingbird or swift
- 231 ☐ Loon: any species
- 232 ☐ Monk Parakeet: a pet bird okay but out of cage
- 233 ☐ Nighthawk, poorwill, or whip-poor-will: any Colorado species
- 234 ☐ Owl: any species
- ☐ Songbird — by family listed below
- 235 ☒ **BLACKBIRD**: any Colorado blackbird, grackle, meadowlark, or oriole
- 236 ☐ **BUSHTIT**: Common Bushtit
- 237 ☐ **CARDINAL**: Blue Grosbeak, Indigo or Lazuli Bunting, Northern Cardinal, any Colorado tanager
- 238 ☒ **CHICKADEE**: Black-capped or Mountain Chickadee or Juniper Titmouse
- 239 ☐ **CREEPER**: Brown Creeper
- 240 ☐ **CROW**: American Crow, Chihuahuan or Common Raven, Black-billed Magpie, Clark’s Nutcracker, or any Colorado jay
- 241 ☒ **DIPPER**: American Dipper
- 242 ☐ **FINCH**: Red or White-winged Crossbill; Pine Grosbeak; any Colorado finch, goldfinch, or rosy-finch; Evening Grosbeak
- 243 ☐ **FLYCATCHER**: any Colorado flycatcher, kingbird, pewee, phoebe
- 244 ☐ **GNATCATCHER**: Blue-gray Gnatcatcher
- 245 ☐ **KINGLET**: Golden-crowned or Ruby-crowned Kinglet
- 246 ☒ **LARK**: Horned Lark
- 247 ☐ **NUTHATCH**: Brown-headed, Red-breasted, or White-breasted Nuthatch
- 248 ☐ **PIPIT**: American Pipit
- 249 ☐ **SHRIKE**: Loggerhead or Northern Shrike
- 250 ☐ **SILKY-FLYCATCHER**: Phainopepla
- 251 ☐ **SPARROW**: any Dark-eyed Junco, Lark Bunting, any Colorado sparrow, any Colorado towhee
- 252 ☐ **SPATSY** (Old World Sparrow): Common Spatsy (aka “English Sparrow” or “House Sparrow”)
- 253 ☐ **STARLING**: European Starling
- 254 ☐ **SWALLOW**: any Colorado swallow
- 255 ☐ **THRASHER**: Gray Catbird, Northern Mockingbird, or any Colorado thrasher
- 256 ☐ **THRUSH**: American Robin, any Colorado bluebird, any Colorado thrush, Townsend’s Solitaire
- 257 ☐ **VIREO**: any Colorado vireo

- 258 **WARBLER:** any Colorado warbler
- 259 **WAXWING:** Bohemian Waxwing or Cedar Waxwing
- 260 **WREN:** any Colorado species
- 261 Woodpecker — any Colorado flicker, sapsucker, or woodpecker
- 262 Wood Stork — not from Colorado okay

Mammals

- Bat
 - 263 **EVENING-BAT** (Vespertilionidae): any Colorado species
 - 264 **FREETAIL-BAT** (Molossidae): Big Freetail-Bat or Mexican Freetail-Bat (aka as “free-tailed bats”)
- Carnivore
 - 265 **BEAR:** Black or Grizzly Bear
 - 266 **CAT:** Bobcat, Lynx, or Puma
 - 267 **DOG:** Coyote; any Colorado fox species; Wolf
 - 268 **RACCOON:** Raccoon or Ringtail
 - 269 **SKUNK:** any Colorado species (three common, one rare)
 - 270 **WEASEL:** Badger; Black-footed Ferret; Marten; Mink; River Otter; Long-tailed or Short-tailed Weasel; Wolverine
- Cattle
 - 271 **CATTLE:** Bighorn Sheep, Bison, Mountain-Goat
 - 272 **DEER:** any Colorado deer, Elk, or Moose
 - 273 **PIG:** “Wild Boar”
 - 274 **PRONGHORN**
- Horse
- Insectivore
 - 276 **EASTERN MOLE**
 - 277 **SHREW:** any Colorado species
- Lagomorph
 - 278 **PIKA**
 - 279 **RABBIT:** any Colorado species
- Nine-banded Armadillo — outside Colorado okay
- Rodent
 - 281 **BEAVER**
 - 282 **COYPU:** aka “Nutria”
 - 283 **JUMPING-MICE:** Meadow or Western Jumping-Mouse
 - 284 **MOUSE FAMILY 1:** House Mouse, Norway Rat, Common Muskrat; any Colorado vole
 - 285 **MOUSE FAMILY 2:** any Colorado harvest-mouse, mouse, or woodrat; Hispid Cotton-Rat; Northern Grasshopper-Mouse
 - 286 **POCKET-MICE:** any Colorado jumping-mouse; Ord’s Kangaroo-Rat
 - 287 **POCKET-GOPHER:** any Colorado species
 - 288 **PORCUPINE**
 - 289 **SQUIRREL:** any Colorado chipmunk, ground-squirrel, steppe-squirrel, or squirrel; Common Chickaree (aka “Pine Squirrel” or “Red Squirrel”); White-tailed Antelope-Squirrel; Yellow-bellied Marmot
- 290 Virginia Opossum

Addendum: Moods and Aesthetics

- 291 Beautiful sunrise or sunset
- 292 Sun muted by clouds
- 293 Coruscation (sunlight sparkling on water): on dew clinging to plants, on flowing or standing water
- 294 Massive anvil-topped thunderhead cloud
- 295 Lightning

- 296 □ Rain at a distance
- 297 □ Virga
- 298 □ Rainbow
- 299 □ Moon: various phases; in, between, or among clouds; with halo
- 300 □ Fog

NOTES

- 1 Boxes with an X inside — ☒ — indicate I have a usable image, but it might not necessarily be of high quality. The idea is to get the unmarked images first to whatever degree is possible. If you already have a really good image of something marked with an X, send it anyway.
- 2 I cannot possibly squeeze all 300 specifically identified images into a single one-hour program. I tabulated this list so that I might conceivably receive 50-100 contributions. Images not used in the January program will probably be used in a later topic-specific program.
- 3 If anyone has any questions or uncertainties, he or she should call me at (970) 218-1915. I answer my telephone from noon to 9 o'clock at night. (I do my writing in the mornings so do not answer the phone.)
- 4 I am setting up a special email account just for this project, and specifically to receive images in the next few weeks. I will give this address to Harry and Rich, and either of them can give it to you.
- 5 Each contributor should send me an email to show how I should attribute each image. I assume some images may be copyrighted and others not. Also, I need to know how you want me to present your name.
- 6 The last date I can receive images for the January 2016 program is Sunday, January 3. Anything I can receive sooner than that will be greatly appreciated. (I might buy you a mocha some day!)
- 7 This list is just for the January 2016 program. More specific lists for the other months are currently in development.
- 8 Further details may be forthcoming after we do this the first time!