

REPORT BY
THE COLORADO
LAND USE
COMMISSION

Priority areas
of environmental
concern in
Colorado

WORKING PAPERS
SEPTEMBER, 1974





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STATE OF COLORADO
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Staff Director

M E M O R A N D U M

TO: Interested Persons

September 19, 1974

FROM: Colorado Land Use Commission

SUBJECT: House Bill 1041 Suggested Priority Areas

Pursuant to a July 1, 1974, Executive Order, from Gov. John D. Vanderhoof, the staff of the Land Use Commission, in cooperation with sixteen State agencies, has prepared the following items delineating suggested priority areas:

1. A narrative from each State agency listing up to ten of its most critical areas of concern with respect to implementation of H.B. 1041. The areas are intended to be as geographically site-specific as possible.
2. A map of Colorado on which the above data is plotted as accurately as possible to visually illustrate areas of concern and the rationale of priority area selection.

PHASE TWO

*Priority evaluation of matters of state
concern by selected state agencies.*

COLORADO LAND USE COMMISSION

August 23, 1974

I

METHODOLOGY

At the July 19, 1974, Land Use Commission meeting the staff presented the Commission with the priority matrix representing a cross-sectional evaluation of H.B. 1041 priority items as rated by the agencies themselves. The matrix was designed to show only a specific agency's rating of each county with respect to land-use related problems present in that county.

The Commission accepted the matrix as a working document and requested the staff to refine the process with specific information as to site and nature of priorities for each State agency. Each agency, either by a phone conversation or written request, was asked to submit a list of the ten most critical areas of concern relating to their agency responsibilities under H.B. 1041 as geographically specific as possible.

Phase II reflects the priorities refinement process in a narrative as well as mapped form. The visual effects demonstrated lend emphasis to regional (geographic) locations. In some cases, a narrative is enclosed which briefly describes the problem as specified by each agency.

EXPLANATION

Symbols



Geographically site-specific designation.



Non site - specific designation

In some instances, the nature of the data submitted was such that the staff had to make a determination of where to plot the data on the map.

Wherever possible, the data was placed on the map as accurately as the information permitted. In cases where the information was too generalized to be site specific, or was applicable to such a large area that site specificity was impossible, that symbol was placed along the eastern or western boundary of the appropriate county.

SITE—SPECIFIC GENERALIZED

- A Div. of Mines
- B Oil and Gas Conservation Commission
- C Soil Conservation Board
- D Water Conservation Board
- E Geological Survey
- F Div. of Water Resources
- G Div. of Wildlife
- H Div. of Parks and Outdoor Recreation
- I Div. of Water Quality Control
- J Div. of Engineering and Sanitation (solid waste)
- K Div. of Engineering and Sanitation (potable water)
- L State Historical Society (hist. and archit.)
- M State Historical Society (archaeol. survey)
- N State Forest Service
- O Public Utilities Commission
- P Colorado Land Use Commission
- Q Div. of Highways

COLORADO DIVISION OF MINES



Except for the four oil shale counties (Region 11), the submitted data necessitated a staff evaluation for locational purposes on the master priority designation locator map.

| <u>Code No.</u> | <u>Location</u> |
|-----------------|-----------------|
| 1 | Moffat |
| 2 | Rio Blanco |
| 3 | Garfield |
| 4 | Mesa |
| 5 | Routt |
| 6 | El Paso |
| 7 | Elbert |
| 8 | Arapahoe |
| 9 | Adams |
| 10. | Jefferson |

OIL AND GAS CONSERVATION COMMISSION

B

Critical Areas of Oil and Gas Development

1. 1. Weld County
South Half

Wattenberg Gas Spaced Area - Gas
Spindle Field - Oil
Singletree Field - Oil
Surrey Field - Oil

(See Attached orders of the Commission for area involved)

2. 2. Adams-Arapahoe Counties
East Half - Mainly Oil
Extension of the Wattenberg area into Adams County

3. 3. Rio Blanco County
West Half

4. 4. La Plata County
South Half

Ignacio Blanco Field - Gas

(See attached order of the Commission for area involved)

Although extent of area is known, additional "in fill" drilling may occur within the area due to increase in demand and price of gas.

5. 6. 7.
5. Logan-Morgan-Washington Counties

Various areas located throughout these counties still maintain a high level of activity and potential.

AUG 21 1974

JOHN D. VANDERHOOF

JOHN A. LOVE
Governor



Phone 892-3351
COLORADO LAND USE COMM.

COLORADO STATE SOIL CONSERVATION BOARD

251 COLUMBINE BUILDING
1845 SHERMAN STREET
DENVER, COLORADO 80203

August 20, 1974



Pursuant to the telephone request of Mr. Mark Lowry for county priority listing relative to House Bill No. 1041, we have prepared the following:

COUNTY PRIORITY LISTING INSOFAR AS CRITICAL AREAS ARE CONCERNED
(List was prepared from the Master Matrix and reflects the same degree of accuracy)

| Ranking | County | Problems |
|---------|------------|---|
| 1. | Eagle | Floodwater problems, erosion and sediment yield, soil suitability |
| 2. | Rio Blanco | Floodwater problems, erosion and sediment yield, soil suitability |
| 3. | Routt | Floodwater problems, soil suitability |
| 4. | Douglas | " " " " |
| 5. | Jefferson | " " " " |
| 6. | La Plata | " " " " |
| 7. | Larimer | " " " " |
| 8. | Mesa | Erosion and sediment yield, soil suitability |
| 9. | Garfield | " " " " |
| 10. | Arapahoe | Floodwater problems, soil suitability |

Alley Campbell

RECEIVED
AUG 21 1974
COLORADO LAND USE COMMISSION

COLORADO WATER CONSERVATION BOARD
102 Columbine Building
1845 Sherman Street
Denver, Colorado 80203



July 29, 1974

TO: Colorado Land Use Commission

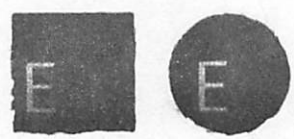
FROM: Larry F. Lang, Water Resource Engineer IV - Colorado Water Conservation Board

SUBJECT: Top Ten Floodplain Hazard Areas Within the State in Need of Detail Study

The following list does not include Hazard Areas that are presently in a study phase nor has a priority been determined for the list.

| <u>COUNTY</u> | <u>LOCATION</u> |
|---------------|--|
| Arapahoe | 1. { a. Piney Creek b. Cherry Creek - Upstream of Cherry Creek Reservoir limits to county line |
| Douglas | 2. — Cherry Creek - Upstream of Arapahoe-Douglas county line to Franktown, Colorado |
| Douglas | 3. { a. Plum Creek - Upstream of Chatfield Reservoir limits to Castle Rock. b. West Plum Creek. |
| Eagle | 4. { a. Eagle River b. Gore Creek |
| Gunnison | 5. { a. Crystal River b. Slate and Carbonate Creeks at Marble, Colorado. |
| Gunnison | 6. — Slate River and Coal Creek, Crested Butte, Colorado. |
| Jefferson | 7. — Clear Creek - Canyon to confluence with South Platte River. |
| La Plata | 8. — Vallecito Creek - Above Vallecito Reservoir |
| Larimer | 9. — Little Thompson River |
| Routt | 10. { a. Yampa River b. Big Dry Creek at Hayden, Colorado. |

For
LUC pickup



COLORADO GEOLOGICAL SURVEY
TOP TEN LIST OF HB 1041 PRIORITY AREAS

The following areas are listed in order of priority which reflect a composite of the various geologic and hazardous conditions known to us. This list does not include those high priority areas being handled under current Colorado Geological Survey investigative programs, i.e. Roaring Fork Project, Boulder-Weld Coal Mine Subsidence Studies, Windsor Area, Front Range Sand and Gravel (HB 1529) or the Jefferson County Geologic Controls of Water Availability and Pollution Study. Seven of the projects listed below relate to specific geographic areas; three of the projects: avalanches, limestone resources and rockfall hazards - could be related to various specific areas, but the problem transcends geographic considerations:

(1) EAGLE RIVER VALLEY

From approximately Big Horn-Vail to Wolcott, Eagle County.

Severe problems relate to slope stability, avalanches, debris fans, mud flows, major landslides and potential subsidence on evaporite soils. Severity of problems in these areas is compounded by precipitous and massive current and near-term potential development for both winter and summer massive recreational communities.

(2) EAST RIVER - SLATE RIVER VALLEYS

Near Crested Butte, Gothic and Almont, Gunnison County.

Severe geologic hazard which include landslides, mud flows, avalanche, and swelling soils should provide serious constraints to planning and development. These factors also will have a serious impact upon the construction of needed safe and economic water and sewage facilities for existing and new populations. Again, massive existing and imminent development increases the need for immediate geologic study.

(3) CHERRY CREEK AND PLUM CREEK VALLEYS (AND ADJACENT UPLANDS)

Douglas County

Rockfall, mud flow, swelling soil, flash flooding and other problems are intensified by the proximity to major population centers and the tremendous present and imminent development pressures. Numerous "new communities" and other large developments are experiencing and face serious geologic problems.

(4) OIL SHALE - COAL IMPACT AREA

Planning District 11 - Mesa, Garfield, Rio Blanco and Moffat Counties

Little detailed engineering geology or hazard information is currently available in an area of known geological problems and intensive current and near-term new community and small community expansion. Broad regional study of the area

is needed to delineate constraining factors to new community growth on a regional basis. Detailed evaluations are needed of obvious high growth areas such as Rifle, Grand Valley, Craig, Meeker, Rangely, White River City and Grand Junction. Known problems include landslide, rockfall, hydro-compacting soils, swelling soils and adverse septic tank conditions.

(5) AVALANCHE HAZARD AREAS

Avalanches are widespread and a serious geologic hazard in many specific areas in Colorado including the Vail-Gore Valley, Telluride, Silverton, Ouray, Marble and Aspen. This geologic hazard can result in a potential high loss of human life and property. Specific delineation and identification of the potential avalanche hazards is needed in numerous critical high impact development areas. Considerable additional information needs to be compiled and developed in order to formulate reasonable criteria for intelligent utilization of potential avalanche hazard areas. We contemplate early commencement of this program by contract from the Colorado Geological Survey with full cooperation from the U.S. Forest Service. Expertise will be developed in-house to provide future technical assistance to local communities.

(6) LIMESTONE RESOURCE EVALUATION

Southern Larimer-Northern Boulder Counties and Colorado Springs-Manitou areas are currently suffering serious impact problems. Limestone resource are critical to the sugar beet refining industry, steel smelting, the cement industry and in some areas concrete aggregate. Limestone occurs in areas being impacted by subdivision development and creates strong controversy. Early delineation of this mineral resource is needed to enable local government and private industry to include this critical resource in their comprehensive planning.

(7) YAMPA VALLEY, OAK CREEK TO HAYDEN

Routt County

Landslides, mudflows, and unstable slopes combine with potential swelling soils and poor septic tank conditions to seriously impact or constrain development and construction. Ski and summer recreation areas are obvious severe development impacts. Less obvious to many, but still certain coal development in the area will increase impacts. Geothermal and metal mining potential may further increase conflicts.

(8) ANIMAS CANYON AROUND AND UPSTREAM FROM DURANCO

La Plata County

Severe geologic problems are landslides, mudflows, rock falls, swelling soils and debris fans. Geologic control of water availability and pollution also adversely affect much of the otherwise developable lands in the area. Moderate to strong development pressures derive from normal local growth, winter and summer recreational potential and mineral resource development which includes not only mineral fuels but limestone and metallic minerals.

DIVISION OF WATER RESOURCES

F

Region 3 (DENVER)

1. The development of additional water resources to meet the increasing demands of the growing urban area surrounding Denver will require the importation of additional water from the Western Slope or will require the conversion of agricultural water rights to municipal purposes.

Regions 1 and 2 (MORGAN)

2. Any additional development in these regions along the South Platte River or its tributaries will require importation of water from the Western Slope or the conversion of agricultural water rights to municipal purposes due to the over appropriated condition of the South Platte River.

Regions 2, 3, 4, and 5 (3. WELD, 4. EL PASO)

3. The continued growth in these regions and shortage of available surface water has resulted in utilization of the water bearing formations of the Denver Basin. These aquifers for all practical purposes do not receive significant recharge and mining of this ground water resource is occurring at an increasing rate. While this resource should be used, total dependence upon this limited resource for municipal water supplies will result in serious problems in the future.

Region 7 (LAS ANIMAS)

5. Additional development in this region including the potential of increased coal mining activity could have a significant effect upon the limited water resources of the Purgatoire River Basin.

Regions 6, 7, and 13 (6. CHAFFEE, 7. BENT)

6. Additional development along the Arkansas River and its tributaries will result in the importation of Western Slope waters or the removal of productive agricultural land from under irrigation when agricultural water rights are converted to municipal use.

Region 8 (RIO GRANDE)

8. Most of Region 8 is so situated that additional development requiring additional water resources will have an effect upon the Rio Grande River, which is over appropriated and is subject to the very important Rio Grande Compact.

Region 11 (RIO BLANCO)

9. The development of the energy related resources of this region will have a significant impact upon the water resources of the Piceance Creek Basin and Colorado River with respect to stream flows, water quality and compact commitments.

Regions 1, 5, and 6 (YUMA)

10. Those communities that utilize the ground water in the Northern High Plains Ground Water Management District may have a water shortage problem in the future due to the mining of the limited resource.

(9) BLUE RIVER VALLEY

Summit and Southern Grand County

Severe landslides and mudflow problems constrain development on much of the private land in the area. Swelling soils and poor geologic conditions for septic tanks create development problems. Severe impact by both Winter and Summer recreational complexes are being increased by the Eisenhower Tunnel and growing accessibility to major population centers.

(10) ROCK FALL HAZARD; CRITERIA AND GENERAL IDENTIFICATION PROGRAM

Rock fall hazards are similar to avalanches in being a hazard to life and property. Serious rock fall hazards exist in localized areas throughout much of Colorado. We, therefore, seriously need to develop specifications and criteria for the identification and evaluation of rock fall hazards. This information will then be applied by both the Colorado Geological Survey and consulting geologists in the identification and delineation, as well as the design of risk mitigation procedures included in HB 1041. Specific known areas of serious problems are the Jefferson County Hog Back, Vail-Minturn area, Telluride, Animas Canyon, Colorado River Valley, and Douglas County.

COLORADO DIVISION OF WILDLIFE
DIVISION OF PARKS AND OUTDOOR RECREATION
1945 SHERMAN, DENVER, COLO. 80203



PARKS AND OUTDOOR RECREATION BOARD:
L. Lyman W. Thomas, Chairman
Herbert J. Jones, Vice Chairman
Martin E. Erickson, Secretary
Theodore R. Schultze, Member
Mr. Rowena Rogers, Member



FISH AND WILDLIFE AREAS CONSIDERED
EXTREMELY CRITICAL BECAUSE OF
PRESSURE FROM DEVELOPMENT ^{1/}

1. Rio Blanco and Garfield Counties - All lands.
2. Archuleta and La Plata Counties - All lands except for those within the Southern Ute Indian Reservation and San Juan National Forest.
3. Routt County - All lands.
4. Park County - All lands north of U. S. Highway 24 except for those lands within Pike National Forest.
5. Colorado River drainage above Kremmling, including the Blue River - All lands.
6. Eagle River drainage above Gypsum - All lands.
7. Roaring Fork River drainage - All lands.
8. Gunnison River drainage above Delta - All lands except those west of Colorado Highway 789 and those lands within Gunnison and Uncompahgre National Forests.
9. Those portions of Front Range counties west U. S. Highways 85 and 287.
10. Coal areas of Moffat County.

This list includes the 10 most critical areas at this time in the judgment of the Division of Wildlife, August 1974. The order of listing doesn't indicate priorities.



DIVISION OF PARKS AND OUTDOOR RECREATION

1845 SHERMAN, DENVER, COLO. 80203

STATE OF COLORADO
John D. Vanderhoof, Governor
DEPARTMENT OF NATURAL RESOURCES
T. W. Ten Eyck, Executive Director

GEORGE T. O'MALLEY, JR., Director

PARKS AND OUTDOOR RECREATION BOARD:

Lyman W. Thomas, Chairman
Herbert I. Jones, Vice Chairman
Marvin Elkins, Secretary
Theodore R. Schubert, Member
Mrs. Rowena Rogers, Member



August 22, 1974

Mr. Mark Lowery
Land Use Commission
1550 Lincoln
Denver, Colorado 80203

Dear Mr. Lowery:

Pursuant to your request I have listed the State Park and Recreation Areas by region and county that we are currently evaluating, negotiating for lease or purchase and those that are obligated by letters of intent signed by former governors of Colorado with the U. S. Army, Corps of Engineers or the Bureau of Reclamation.

REGION 3

Adams County

Barr Lake

1. We have consummated purchase of 400 acres and are negotiating and agreement to consummate purchase of recreational rights to the surface and contiguous lands owned by the Farmers Reservoir and Irrigation Company. This area will preserve an outstanding non-game species and water fowl area located 15 miles Northeast of Denver.

Arapahoe County

State Recreation Motorized Area

2. Approximately a section of land has been deeded to the State by the Federal Government for use as a Motorized Recreation Area.

Jefferson County

Bear Creek Reservoir

3. A corps of Engineers project that we are obligated to administer per letters of intent signed by former governors and which we will lease from the Federal Government to provide a multiple use recreation area for the metropolitan area.

Arapahoe, Jefferson & Douglas Counties

Chatfield State Recreation Area

4. Another Corps of Engineer project on which we have negotiated a 25 year lease affective July 1, 1974. A multiple use recreation area of approximately 7,000 acres with the conservation lake of 1,200 acres.

Boulder County

Eldorado Spring Canyon

5. This is a river canyon and mountain climbing area which has been identified by the local people in Boulder County as unique and of Statewide interest that should be preserved for its scenic and recreational values. Probably the most pertinent area relative to House Bill 1041. We are presently evaluating the area for consideration by the Board of Parks and Outdoor Recreation to determine the merits of the area.

Douglas County

Castlewood Black Forest Recreation Area

6. Acquisition money has been appropriated for this area and has been approved with the legislative authority to purchase 640 acres of Castlewood Canyon representative of the Black Forest environment.

REGION 4

Pueblo Reservoir Recreation Area

7. A Bureau of Reclamation project part of the Frying Pan Arkansas Irrigation project presently contains the conservation pool one mile wide and three miles long. During highwater the reservoir will become a large recreation reservoir up to 18 miles long. We are presently negotiating with the Bureau of Reclamation for a 25 year lease to administer the recreational resources of this area.

Pueblo Motorized Recreation Vehicle Area

8. Located 15 miles east of Pueblo approximately a section of land deeded to the State by the Federal Government for use as a motorized recreational vehicle area.

REGION 5

Kit Carson County

Flagler

9. Local citizens in Flagler have suggested to the Division of Parks that the Flagler Reservoir and Recreation Area is of regional importance from a recreation point of view and they believe that it should be administered by the Division of Parks. It is presently owned by the Division of Wildlife and operated by the City of Flagler. They contend that they do not have the resources to continue operation. The area serves the recreation needs of Eastern Colorado. This may be construed as pertinent to the terms of House Bill 1041.

REGION 7

Huerfano County

Mestas Mountain State Park potential

10. The legislature by joint resolution directed the Division of Parks to make a feasibility study to determine the potential of the Mestas Mountain area as State Parks. \$5,000 also appropriated for the feasibility study which should be completed by September of 1974. Much of the land within the potential State Park recreation is owned by the Bureau of Land Management and the State Land Board. A unique mountain scenic area with a unique vegetative cover of many species of native Colorado flora. Located about 10 miles West of Walsenburg just off Route 160.

Mr. Mark Lowery
August 22, 1974
Page 3

Mr. Mark Lowery

Las Animas

Trinidad Recreation Area

A corps of Engineer project which we are obligated to negotiate a recreational lease and administer for the next 25 years and for which we are requesting funds to purchase water for the conservation pool.

Las Animas

Purgatory-Chacuaco Canyon

Another area pertinent to the terms of House Bill 1041 a spectacular Red Rock Canyon area approximately 1,000 feet deep. It has been identified by local interests and called to the attention of the State as having unique scenic attributes of statewide significance and recommended for exploration as a potential state park area.

REGION 10

Dallas Ridgeway Project

Being built by Bureau of Reclamation on which we anticipate negotiation of a 25 year lease for administration of recreation presently being cooperatively planned by the National Park Service and the Division of State Parks and Bureau of Reclamation.

REGION 11

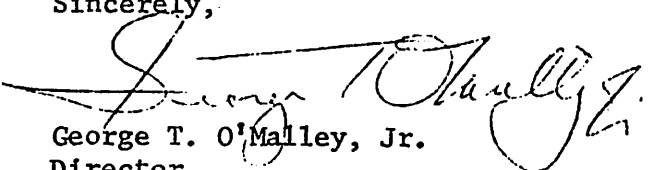
Elkhead Reservoir

Being built by the Division of Wildlife to be administered by the Division of Parks presently under construction for completion in 1976.

We presently have a consultant working on identification of the various unique scenic areas worthy of preservation which should be completed in September of '74. This should more completely answer your questions.

We will be happy to make this available when it is delivered to us. All this information is off the top of my head because of the early due date you established. I hope this will be useful for your purposes.

Sincerely,


George T. O'Malley, Jr.
Director

GTO:jb



COLORADO DEPARTMENT OF HEALTH

4210 EAST 11TH AVENUE • DENVER, COLORADO 80220 • PHONE 388-6111

Edward G. Dreyfus, M.D., M.P.H. Executive Director

July 24, 1974

RECEIVED ED

JUL 29 1974 104

Mr. Dave Buckman
Colorado Land Use Commission
1550 Lincoln Street
Room 103
Denver, Colorado 80203

COLORADO LAND USE COMMISSION

Dear Dave:

As per your telephone request I am listing priority areas of the State which are of concern to this Division, and are affected by land use decisions.

| | <u>AREA</u> | <u>ACTIVITIES</u> |
|-----------|--|--|
| <u>1.</u> | 1. Eagle River - Gore Creek Vail downstream to Edwards | Subdivision approval and subsequent development |
| <u>2.</u> | 2. Yampa River Steamboat Springs Area | " " " |
| <u>3.</u> | 3. Roaring Fork River Aspen to Carbondale | " " " |
| | 4. Colorado River - White River Mesa County & Rio Blanco Counties | Salinity effects from oil shale development |
| <u>6.</u> | 5. South Platte River Denver Metro Area to Brighton | Adequate Sewage treatment facilities |
| <u>7.</u> | 6. Three Lakes Area Grand Lake, Shadow Mt. Lake and Granby Lake | Subdivision approval and development. Adequate collection and treatment facilities |
| <u>8.</u> | 7. Cache La Poudre River Ft. Collins Area | Treatment facilities & stream quality |

Colorado State Department of Health
Letter TO; Mr. Dave Buckman
July 24, 1974
Page 2

9.

AREA
8. Monument Creek
Colorado Springs Metro Area

ACTIVITIES
Stream quality and
treatment levels

Thank you for your inquiry.

Very truly yours,

FOR DIRECTOR, WATER QUALITY CONTROL DIVISION


Kenneth W. Webb, P.E.
Planning Consultant

KWW:gc



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AUG 2 1974

COLORADO DEPARTMENT OF HEALTH

SOLID WASTE DISPOSAL

4210 EAST 11TH AVENUE • DENVER, COLORADO

August 1, 1974



Dave Bucknam
Chief Land Use Planner
Colorado Land Use Commission
1550 Lincoln Street
Denver, Colorado 80203

POTABLE WATER SUPPLIES



Dear Mr. Bucknam:

This letter is in response to your request of July 24, 1974 for the ten most critical concerns as to solid waste and water supply problems in Colorado. The following is a list of the areas that we consider the most critical from the standpoint of solid waste disposal.

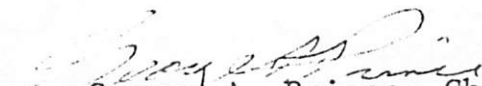
1. Denver Metropolitan Area
2. Larimer - Weld County Area
3. Garfield - Mesa County Area
4. Delta - Montrose County Area
5. Lake - Chaffee County Area
6. Eagle - Summit County Area
7. El Paso County Area
8. Pueblo County Area
9. Morgan - Logan County Area
10. Las Animas - Huerfano County Area

The ten areas that we consider the most critical from the standpoint of potable water supplies are as follows.

1. Adams County
2. Pueblo County
3. Lower Arkansas Valley
4. Montezuma - Dolores County
5. Routt County
6. Western Garfield and Rio Blanco County
7. La Plata County
8. San Miguel County
9. Douglas - Arapahoe Counties
10. Western Weld County

Yours very truly,

DIVISION OF ENGINEERING
AND SANITATION


George A. Prince, Chief
Engineering Section

STATE HISTORICAL SOCIETY

History and Architecture



A total of 21 designations were submitted. Consolidation to 10 specific areas was necessary.

Archaeological Survey



Archaeological Survey submitted a map showing their priority regions (enclosed)

This information was transferred to the master map as accurately as possible.

THE STATE HISTORICAL SOCIETY OF COLORADO

Colorado State Museum, 200 Fourteenth Avenue, Denver 80203

July 30, 1974

21 PRIORITY PROBLEM AREAS History and Architecture

A. Front Range Urban

1. { 1. Denver County
2. { 2. Jefferson County
3. { 3. Adams County
4. { 4. Douglas County
5. { 5. El Paso County
6. { 6. Huerfano County
7. { 7. Pueblo County

B. Region 9

8. { 8. La Plata County
9. { 9. Montezuma County

C. Region 11

- * 5. { 10. Rio Blanco County
6. { 11. Garfield County
12. { 12. Moffatt County
13. { 13. Mesa County

D. Region 4

7. — 14. Park County

E. Region 13

2. { 15. Lake County
16. { 16. Chaffee County

F. West Slope Urban Areas

- * 5. — 17. Routt County
18. Pitkin County
8. — 19. Summit County
9. — 20. Gunnison County
21. San Miguel County
- 10.

NOTE: Discrepancy between matrix of priority and this listing is based on:

- 1) Matrix priorities based on effort needed to inventory the areas - some had information already available and therefore rated low.
- 2) This listing based on probability of impact on historical and ~~archaeological~~ architectural sites due to heavy development.

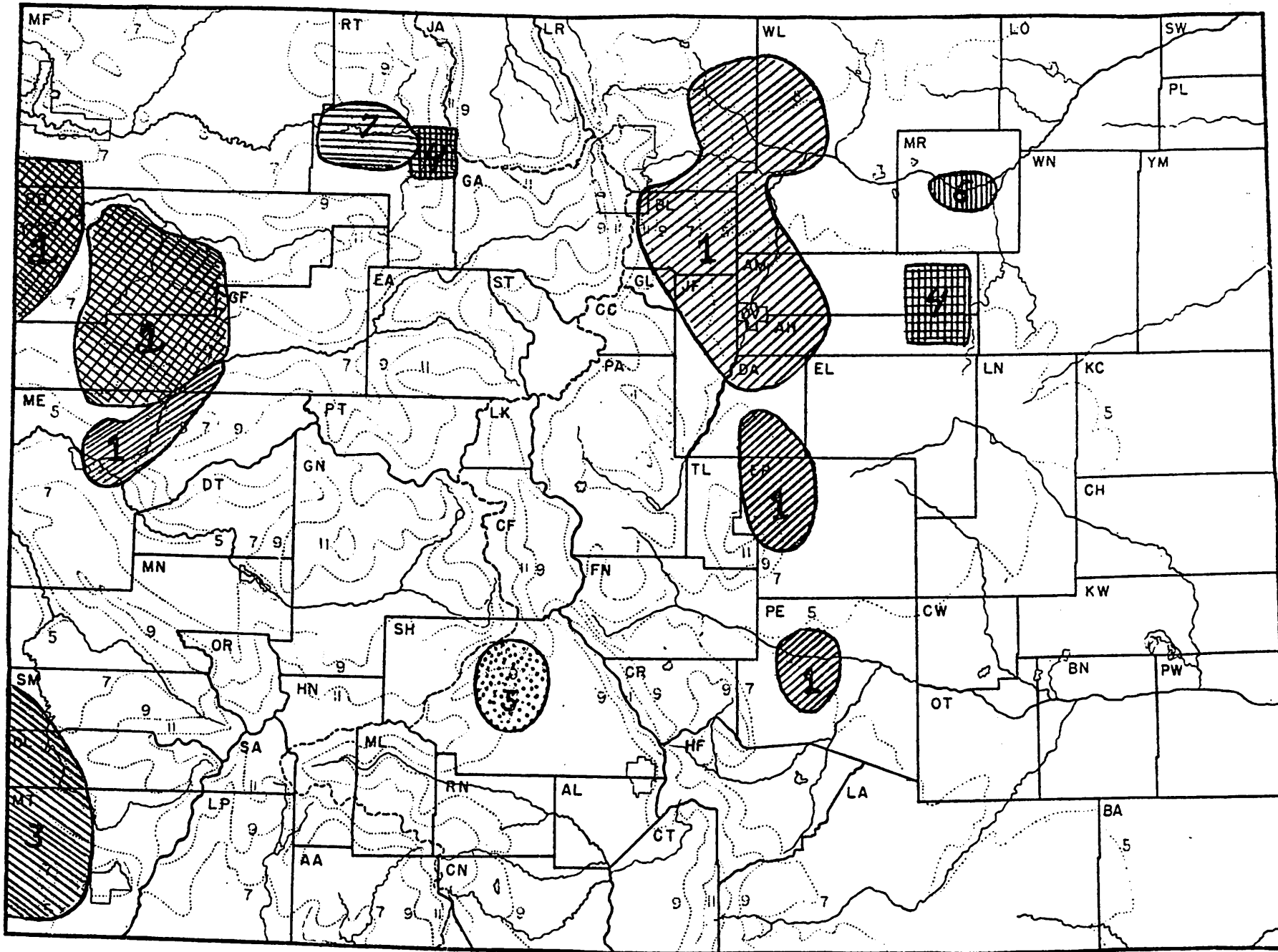
Problem Archaeological Areas - Preliminary Map

1. Expanding Urban-suburban Development
2. Oil Shale Development
3. Bean Field Leveling
4. Coal Resources Development
5. Geo-thermal Steam Potential Areas
6. Water Diversion Projects (Narrows Project)
7. Agricultural Development

These tentative problem areas are defined on the basis of areas undergoing or likely to undergo substantial land alteration. The categories which need to be considered are Oil Shale development, new agricultural development, coal extraction, urban-suburban growth, water diversion projects, highway and recreational land expansion, and other resource developments (mineral, timber, geothermal steam, etc.). Not all of the locales of these developments are as yet noted on the map.

AREAS OF IMMINENT IMPACT ON ARCHEOLOGICAL RESOURCES

- | | |
|-------------|----|
| ADAMS | AM |
| ALAMOSA | AL |
| ARAPAHOE | AH |
| ARCHULETA | AA |
| BACA | BA |
| BENT | BN |
| BOULDER | BL |
| CHAFFEE | CF |
| CHEYENNE | CH |
| CLEAR CREEK | CC |
| CONEJOS | CN |
| COSTILLA | CT |
| CROWLEY | CW |
| CUSTER | CR |
| DELTA | DT |
| DENVER | DV |
| DOLORES | DL |
| DOUGLAS | DA |
| EAGLE | EA |
| ELBERT | EL |
| EL PASO | EP |
| FREMONT | FN |
| GARFIELD | GF |
| GILPIN | GL |
| GRAND | GA |
| GUNNISON | GN |
| HINSDALE | HN |
| HUERFANO | HF |
| JACKSON | JA |
| JEFFERSON | JF |
| KIOWA | KW |
| KIT CARSON | KC |
| LAKE | LK |
| LA PLATA | LP |
| LARIMER | LR |
| LAS ANIMAS | LA |
| LINCOLN | LN |
| LOGAN | LO |
| MESA | ME |
| MINERAL | ML |
| MOFFAT | MF |
| MONTEZUMA | MT |
| MONTROSE | MN |
| MORGAN | MR |
| OTERO | OT |
| OURAY | OR |
| PARK | PA |
| PHILLIPS | PL |
| PITKIN | PT |
| PROWERS | PW |
| PUEBLO | PE |
| RIO BLANCO | RB |
| RIO GRANDE | RN |
| ROUTT | RT |
| SAGUACHE | SA |
| SAN JUAN | SJ |
| SAN MIGUEL | SM |
| SEDGWICK | SW |
| SUMMIT | ST |
| TELLER | TL |
| WASHINGTON | WN |
| WELD | WL |
| YUMA | YM |



Code for Counties
after
Smithsonian Institution
River Basin Surveys

Scale 0 5 10 20 30 40 50mi.

7/31

COLORADO OUTLINE MAP
University of Colorado Museum

&
Contour interval 2000 feet from 5000 to 11000 feet.
13000 foot contours not shown.

COLORADO STATE FOREST SERVICE



PRIORITY AREAS

- 8., 9., 10. FRONT RANGE: growing pressures are hardest; developments are continuing in high value forested areas; large populations are now or about to be inter-mingled in fire hazard areas.
1. STEAMBOAT: land development pressures are beginning; developments are very large in size; much of the area is oakbrush--a species that is a high fire problem.
2. EAST GRAND: heavy development pressures in high fire hazard areas; high scenic values.
3. SUMMIT: heavy development pressures in high fire hazard, good timber producing areas; heavy individual investments with little knowledge of the potential problems; high water quality values.
4. VAIL: heavy development pressures with extra high values; some are in moderate to high hazard areas. Urban fire protection problems in wildland areas.
5. ASPEN-CAMEO: heavy developments in Aspen area due to recreation; some are in oakbrush fuels. Oil shale/energy developments expected to have heavy impact along Colorado River Valley.
6. DURANGO: second home and recreational developments proceeding in high hazard areas; very high scenic values.
7. PAGOSA SPRINGS: second home and recreational developments proceeding in high hazard areas; size of projects are large; one of the most highly productive timber growing and producing areas in the state which deserves protection from developmental sprawl.

RECEIVED

COLORADO PUBLIC UTILITIES COMMISSION

FOR LAND USE COMMISSION

Region II

1. - Weld Electric Utilities. Ault Terminal of Hayden/Alt Transmission System and associated facilities. Next four years. Participants: Tri-State, Colorado-Ute, Platte River P.A.

2. - Larimer Hayden/Alt Transmission

Region III

3. - Boulder Electric, Telephone and Gas Utilities.

4. { Denver " " " " "

4. { Jefferson " " " " "

4. { Arapahoe " " " " "

Follows population growth. Gas utility activity includes Latigo Storage of CIG in Arapahoe County. Participants: PSCO, IREA, MST&T, CIG.

Region IV

5. - El Paso Electric, Telephone and Gas. Similar to Region III. Participants: C.S., MVREA, NN, MST&T.

Region XI

6. { Moffatt Craig, 760 megawatt electric generating station, associated transmission; substation and mining operation, telephone and gas utilities. Next six years. Participants: Tri-State, Colorado-Ute, Platte River P.A., MST&T, Yampa Valley REA, Greeley Gas.

7. { Rio Blanco To the extent of oil shale development and natural gas exploration.
7. { Garfield
7. { Mesa

Region XII

8. - Routt Hayden 2, 250 megawatt electric and associated transmission now under construction. Hayden/Ault, transmission next four years. Participants: Same as Region II and X.

9. - Jackson To the extent Routt enumerated activities spill over.

Region 7

10. - Pueblo Comanche 2, 350 MW generating plant - PSCO
Ratings are as previously submitted.

COLORADO LAND USE COMMISSION
Staff Priority Designation



| <u>Code No.</u> | <u>Area</u> | <u>Problem</u> |
|-----------------|----------------------------|--|
| 1 | Moffat-Rio Blanco Counties | Oil Shale Development |
| 2 | Garfield-Mesa Counties | Oil Shale Development |
| 3 | La Plata County | Recreation and second-home land subdivisions. |
| 4 | Gunnison County | Recreation and second-home land subdivisions. |
| 5 | Pitkin County | Recreation and second-home land subdivisions. |
| 6 | Eagle County | Recreation and second-home land subdivisions. |
| 7 | Denver-Metro Area | Front Range urban growth, and possible future coal strip mining. |
| 8 | Park County | Extensive land subdivision |

DIVISION OF HIGHWAYS



| <u>Code No.</u> | <u>Location</u> | <u>Problem</u> |
|-----------------|---|---|
| 1 | Summit-Clear Creek Counties | Completion of I-70 (2nd bore Eisenhower Tunnel & completion of I-70 over Vail Pass) |
| 2 | Mesa-Garfield Cos. | Completion of I-70, Silt to Plateau Creek. |
| 3 | Eagle-Garfield Cos. | Completion of I-70, Eagle to Glenwood Springs |
| 4 | Arapahoe-Jefferson Cos. | Construction of I-470 |
| 5 | Arapahoe-Denver Cos. | Completion of I-225 |
| 6 | Adams County | Completion of I-76 (I-80S) from I-25 to I-70. |
| 7 | El Paso County | Construction, U.S. 24 Bypass thru City of Colorado Springs |
| 8 | Denver, Adams, Arapahoe, Jefferson & Boulder Cos. | Various urban highway projects throughout the Denver-Boulder metropolitan area. |
| 9 | El Paso County | Urbanized highway projects in Colorado Springs area. |
| 10 | Pueblo County | Urbanized highway projects in Pueblo area. |