

MANAGEMENT ACTIVITIES FOR OPEN SPACE AND MOUNTAIN PARKS
COMPLETED PROJECTS FOR 1977 - PLANNED ACTIVITIES FOR 1978

To

Leonard Ehrler

Ron Donahue

Don Walker

Ann Goodhart

From

City of Boulder

Ranger Staff

January 23, 1978

MOUNTAIN PARKS AND GREENBELT

The maintenance and upkeep of The City of Boulder Mountain Parks and Greenbelt is the responsibility of the City Rangers and the Mountain Parks and Greenbelt crews.

Our "product" is good park and recreation service at all times. An inviting park or a well cared for picnic area are an excellent means of advertising our product. Our job is to show the taxpayer how we are utilizing the money which is allotted for mountain parks and greenbelt recreation. This means not only performing specific maintenance and construction properly, but practicing good public relations at all times.

Real knowledge of the specific work comes through on the job training and experience.

1. Equipment

A. Basic Equipment

1. Front end loader, trucks, cars, other small vehicles
2. Basic hand tools
3. General shop equipment

B. Specialized Shop Equipment

1. Router
2. Planer
3. Circular and band saws
4. Other similar tools

2. Construction Skills

Individuals must have basic construction skills in wood, stone, cement, metal and other materials required to effectively perform their duties.

3. Responsibilities

- A. Upkeep and maintenance of the Mountain Parks and Greenbelt and all facilities contained therein.
- B. Implementation of orders given by the mountain parks crew chief.
- C. Construction, repair or removal of fences in the parks and greenbelt.
- D. Prevention and suppression of grass, brush, forest and structural fires in the parks and greenbelt.

- E. Assistance by crew members in the apprehension of those violating parks ordinances.
- F. Mountain Parks and Greenbelt crew members will perform all other reasonable duties asked of them by their supervisors to the best of their abilities.

4. Staffing and Lines of Command

Director of Parks
and Recreation,
Leonard Ehrler

Superintendent
of Parks,
Ron Donahue

Mtn. Parks and
Open Space
Supervisor,
Dick Lyman
Ranger III

Director of Open Space
Land Office
Don Walker

Open Space
Jack Kissell
Ranger II

Open Space Crew
Bruce Bosley
One other crew member

Mtn. Parks crew
Dave Husted
Joe Maslan
Ric Day

Jr. Rangers
headed by Bill LaPointe
Rec. Dept.

Ranger-Naturalist
Brian Peck
Ann Wichmann

5. Personnel Appearance and Conduct

A. Dress Code

Uniforms for the Mountain Parks and Greenbelt crews will be supplied by the City and will be worn at all times on the job and kept clean and in good repair.

B. Personal Grooming

All personnel in the Mountain Parks and Greenbelt positions serve as obvious examples of the City and Parks Department to the general public. Therefore, these people should present a neat and well groomed appearance at all times. They should be clean shaven at the beginning of each working day. This

is not meant to exclude beards or mustaches. These must, however be neatly trimmed.

C. Conduct on the Job

At all times on the job crew members should be courteous when dealing with the public and with fellow employees, no matter what the situation may be.

MAJOR HEADINGS OF ACTIVITIES FOR MOUNTAIN PARKS AND OPEN SPACE

I. FIRE

A. Fire Control

1. Crew training
2. Purchase or update equipment as needed
3. Maintenance of equipment
4. Actual fire fighting
5. Updating fire mobilization plan with Boulder Fire Dept.

B. Fire Management

1. Research controlled burns information
2. Check parks and open space for applicability
3. Conduct a controlled burn if possible

II. WILDLIFE MANAGEMENT

A. Habitat Improvement

1. Water fowl nest boxes, blinds, plantings
2. Check open space parcels to see what methods can be used and incorporate into leases
3. South Boulder Creek stream improvement
4. Water impoundments
5. Wildlife planting

B. Population Surveys

- *1. Pellet counts
- *2. Browse survey
3. Wildlife records
4. Deer utilization transects in forest management areas

III. PROTECTION AND LAW ENFORCEMENT

A. Routine Patrol

1. Vehicle
2. Foot
3. Horse

B. Special Patrol

1. Stake outs
- *2. Patrol during hunting seasons
3. Posting rules

C. Improvement of Enforcement Knowledge

1. Classes at B.P.D. (including range)
2. Patrol with B.P.D. officers
3. Individual study
4. Conference seminars on law enforcement
5. Law enforcement course with National Park Service

IV. AGRICULTURAL MANAGEMENT

*A. Range Analysis-Fall

B. Lease Input

C. Fence Installations and Maintenance

D. Check on Lease Compliance

*E. Irrigation and Ditch Work

F. Mowing

*G. Weed Control

*H. Fertilization and Seeding

I. Prairie Dog Control

J. Air Survey

K. Tree Planting

V. RECREATIONAL USE MANAGEMENT

- A. Master Plan
- B. Trail Planning
- C. Fragile Area Planning

VI. PUBLIC RELATIONS

- A. Media Communications
 - 1. Television and Radio
 - 2. Newspapers
- B. Day-to-Day Contacts
 - 1. Casual or informational contacts
 - 2. Contacts of violators
- C. Inter-Agency Cooperations
- D. Direct Nature Programs
 - 1. Nature hikes
 - 2. Nature talks
 - *3. Fireside presentations
 - 4. Development of brochures
- E. Intern Activities
 - 1. User survey
 - 2. Nature trail planning

VII. MAINTENANCE AND IMPROVEMENT OF FACILITIES (other than previously listed)

- A. Trash, restrooms, firepits
- B. Building and Structure Maintenance or Construction
 - 1. Picnic shelters
 - 2. Restrooms
 - 3. Bridges
 - 4. Irrigation structures
 - 5. Dams
- C. Sign Construction and Installation
- D. Maintenance of Tools and Related Equipment
- E. Control Structure Installation and Repair-Fences, Gates
- F. Boundary Survey
- G. Road or Trail Work

MOUNTAIN PARKS AND OPEN SPACE STAFF

TRAINING IN 1977

In 1977, the Ranger Staff took 35 hours of Emergency Care Training through the Littleton Paramedics. This course was especially tailored to meet the needs of park rangers and managers and included CPR training. In addition, the maintenance crews took part in an 8 hour basic first aid course sponsored by the City Recreation Department.

The Ranger Staff also attended a one-day interpretive training session at Rocky Mountain National Park in May. Designed to train seasonal naturalists at the park, the staff found the session to be extremely valuable in gaining new ideas and new professional acquaintances.

Two of the rangers attended and gave presentations at the National Recreation and Park Association Conference in Colorado Springs, and one ranger attended a conference on historical site preservation sponsored by the Colorado Parks and Recreation Society. All four rangers attended the Rocky Mountain High Plains Conference on interpretation.

LAW ENFORCEMENT ISSUES 1978

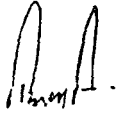
During the fall of 1977 the ranger staff worked with Mr. Terry Aragon and Judge Richard Hansen in evaluating city parks ordinances for the purpose of setting bond schedules. Park rangers recommended that several of the more common and less serious of the park offenses be bonded to facilitate both the issuance and the resolution of summons for these offenses. Judge Hansen accepted our recommendations and set minimum bond amounts for certain sections of Chapter 22. In addition, the City Attorney's office did approve of Mr. Aragon's questions regarding the issuance of a Parking Summons and Complaint and did approve the legal authority of Park Rangers to enforce Chapter 21 Section 10 (Trespass). The paperwork is presently being arranged, and these measures will be implemented during 1978.

In addition, the park ranger staff has been invited to attend a 50 hour law enforcement training review session offered by the National Park Service for their rangers at Rocky Mountain National Park. This is tentatively scheduled for January or February 1978.

MEMORANDUM

December 6, 1977

TO: Ann Wichmann, Parks Ranger ✓
Brian Peck, Parks Ranger

FROM: G. Terry Aragon, Court Administrator 

SUBJECT: Appearance Bonds for Specific Chapter 22 Sections.

I missed my deadline of Friday, December 2nd. Nevertheless I succeeded in reaching the end result. The Bond Schedule for Specific Chapter 22 Sections is enclosed. Judge Hansen accepted your recommendations.

The amounts under the heading Minimum Bond Amounts will normally be the amounts of fines that will be assessed. Increases or decreases will be dependent on any mitigating circumstances you cite in the narrative sections of the General Offense tickets.

Another meeting should be arranged to inform you of the processes and procedures that will need to be followed in informing and accepting bond amounts from defendants. So please call me at 441-3035 to arrange for another meeting.

I've also enclosed a memorandum that I've sent to Phil Palmer concerning the two legal questions raised at our meeting. Judge Hansen felt he couldn't answer these legal questions. Therefore, a legal opinion in writing is being sought from the City Attorney's office. As soon as I receive a reply I'll pass it along to you.

If you have any other questions feel free to contact me at your convenience.

MEMORANDUM

December 5, 1977

TO: Phil Palmer, Assistant City Attorney
FROM: G. Terry Aragon, Court Administrator *GT*
SUBJECT: Legal Opinions Needed as Related to Parks Offenses.

Parks Rangers, Ann Wichmann and Brian Peck have asked the Court two questions relating to their responsibilities and Judge Hansen has directed that I seek your opinion on the two questions. The questions are as follows:

1. Can the present Parking Summons and Complaint be used to cite motorists who park their vehicles in the mountain parks and who are violating Section 22-111 by these acts?

It would be an easier task for them to cite motorists with the use of the Parking Summons and Complaint as versus the requirement to cite motorists in person with the use of the General Summons and Complaint.

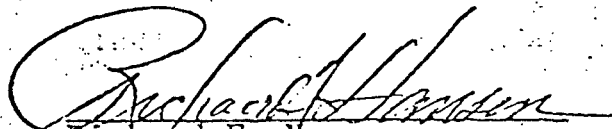
2. Do the Parks Rangers have legal authority to cite defendants with Chapter 21 offenses, or are they limited to only charging Chapter 22 offenses?

My we expect written response to these questions on or before December 28, 1977?

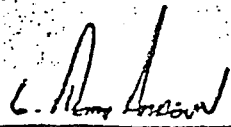
MUNICIPAL APPEARANCE BONDS ARE HEREBY
SET FOR THE FOLLOWING CHAPTER 22 SECTIONS

<u>Section</u>	<u>Title</u>	<u>Minimum Bond Amount</u>
22-103	Explosives, Fire, Inflammables and <u>Combustibles</u>	\$ 25.00
22-104	Fires in Parks & Recreational Areas, <u>Campfires</u> & Fire Pits	10.00
22-105	Damaging Property Usually involves <u>climbing on roofs</u> , otherwise charge State statute criminal mischief offense.	25.00
22-106	Trespass	10.00
22-107	Unlawful to place refuse in certain places - <u>littering</u>	25.00
22-111	Motor Vehicle Regulation <u>Illegally Parked Cars</u>	5.00
22-112	Other Prohibited Conduct <u>Camping</u>	10.00

So ORDERED this 5th day of December 1977.


Richard F. Hansen
Presiding Municipal Judge

ATTESTED:



G. Terry Aragon
Court Administrator

MOUNTAIN PARKS AND OPEN SPACE
ACTIVITIES THAT ARE SET TO
A SPECIFIC TIME PERIOD

SPRING QUARTER

March:

Plow, fertilize and seed Burke I, Klein (March 15-30)
100 Foot buffer on East Hidden Valley and
Hidden Valley Ranch
Photoplots
Update fire mobilization plan
Setting up summer intern program
High Plains Conference, and Law Enforcement Training

April:

Kitch work - East Hidden Valley, Hidden Valley, Burke II and
Gebhardt
Organize Saturday hikes and Fireside Talks
Organize Green Mountain Lodge E. E. Program
Spray thistles
RE-2 6th Grader E.E. hikes

May:

Spray thistles
Annual Report on Sawhill Ponds and Mesa Reservoir
Plan for Junior Rangers
Planning on Master Plan for Mountain Parks
Fireside Talks and Nature Hikes

UNASSIGNED QUARTERLY PROJECTS

Preparation for increased public use
Standardized Slide Show preparation
Full-time and seasonal help
Fire training programs
Fireside Talks and Nature Hikes
Tree Planting

SUMMER QUARTER

June:

Spray thistles
Intern, and Junior Ranger Programs
Seasonal help
Fireside Talks and Nature Hikes

July:

Photoplots, both ground and by air
4th of July activities
Fireside Talks and Nature Hikes

August:

Prairie dog control
Range analysis - first week in August

UNASSIGNED QUARTERLY PROJECTS

Junior Ranger Projects
Green Mountain Lodge Environmental Education
South Boulder Creek tree improvement

FALL QUARTER

September:

School availability announcement (Sept. 15)

October:

Post-use range analysis (Oct. 11-18)
Post for hunting season
Hunter patrols
Collection of native grass seeds

November:

Hunter patrols (Nov. 15)
Winterize building and facilities

UNASSIGNED QUARTERLY PROJECTS

Lease evaluation
Start preparing Annual Report

WINTER QUARTER

December:

Start Annual Report

January:

Photoplots, ground and air
Photoplots and evaluation (Jan. 15)

February:

Order chemicals for thistle control
Order fence and other materials for next year
Order trees from Colorado State Forest Service

UNASSIGNED QUARTERLY PROJECTS

Research and training
Winter Nature Hikes
Evaluation of Farm Management
Program of 1978
Evaluation of new project and costs for 1979

MOUNTAIN PARKS PROJECTS COMPLETED DURING 1977

Major Projects

1. main entrance sign
2. McClintock Nature trail sign frames
3. secure entrance to Mesa Reservoir (ditch & fence work within as well)
4. set posts with "Picnic trash only" signs
5. Finish replacing rules signs with standardized form
6. Set new steel gates at: Cathedral Park, Management Area, Green Mountain W. Ridge
7. Begin researching boundary for setting boundary signs
8. Set rock along Flagstaff road and on summit and at Bluebell shelter and Chautauqua
9. posts and rails at Boulder Falls
10. Rework Amphitheater with Junior Rangers
11. Set restroom tanks

Other projects

Foothills Centennial

Burn at Gebhard

Fix GML gate

Fix up Bluebell gate

Spray thistle at Sawhill

Repair work at Mesa Reservoir

Repair and eventually rebuild GML gate

Repair posts and rails on summit

Shanahan Fire

Repair and paint restrooms after they were set on tanks

Drainage work at Bluebell

Clean up along summit road after logging operation

repair Foothills Centennial Class sign

preparation and day of 4th of July

set "Fire Road, Do Not Block" signs on gates at Chatmann Dr.,

Summit road, JC Shelter gate

Worked with Jr. Rangers on several projects

Pickup Christmas trees

Ongoing projects

Trash

Shelters & restrooms

Mountain fire equipment

cleaning fire pits

maintain Buckingham Camp

Trail maintenance

Mountain Parks Job Priority List for 1978

A Job is FIRST PRIORITY If:

1. Job has been sent down from the Superintendent or Director as first priority
2. Job involves installation or repair in a high use/high public impact area, especially if large scale adverse public reaction will be the result of delay
3. Job is necessary to ensure public or worker safety and health
4. Job has to be done immediately or the opportunity or advantage will be lost for an extended period
5. Job must be done very soon to prevent imminent or further destruction or deterioration of a situation or facility
6. Job is necessary to provide essential information to the public regarding use of parkland

A Job Will Have SECOND PRIORITY If:

1. Job comes down from Superintendent or Director with a rush notation or intent
2. Job is important but can be performed in the near future without causing deterioration of the situation, further destruction and/or large scale adverse public comment
3. If project is in a low impact area and failure to repair won't cause an immediate hazard
4. Job is necessary to bring information to the public but need is not immediate or emergency

A Job Will Be THIRD PRIORITY If:

1. It is minor and/or can be performed at almost any time without causing serious problems
2. It is in a low impact area and is not needed to perform any necessary public function or use in the near future
3. Conditions exist which will not permit you to do the job in the near future

January 20, 1978

MOUNTAIN PARKS
Work List for 1978

<u>Enchanted Mesa Area</u>	<u>Priority</u>
1. Road work	2
2. Redo Park rules signs	2
3. Redo gate, glass covered sign at McClintock N.T.	2
<u>Bluebell Area</u>	
1. Build steps up to Bluebell Baird trail	2
2. Rock work along road	1
3. Re-work entrance sign to area	2
4. Put new pump back in well	3
5. Erosion control along Bluebell road	2
6. Rock work around meadow and access gate	2
7. Build new access gate to Chautauqua meadow	2
8. Ditch work and road work	2
9. Trail work on Mesa, Bluebell Baird, Chautauqua, Royal Arch trails	1
10. Parking signs	1
<u>Gregory Canyon Area</u>	
1. Rebuild restroom	1
2. Trail head sign	2
3. Rebuild picnic table	3
4. Add one glass covered sign	2
5. Fix well and add new pump	3
<u>Flagstaff Road</u>	
1. Rework and replace road signs	1
<u>Green Mountain Lodge</u>	
1. Sandblast inside walls and refinish	1
2. Spring work	1
3. Rebuild old walk bridge	2
4. Glass covered sign	2
<u>Panorama Point</u>	
1. Complete overhaul of overlook, parking areas, tables, firepits	1
<u>Halfway House</u>	
1. Widen gate	3
2. Add new picnic tables	3
3. Add new glass covered sign	2
4. Parking lot barriers	2
5. Pump restrooms	1

Crown Rock

1. Add new glass covered sign 2
2. Rebuild picnic tables and firepit 2

Baseline Picnic Area

1. Rebuild table and firepits 2

Realization Point

1. Reconstruct picnic area, new tables, firepits 2
2. Glass covered sign

Flagstaff Road from Realization Point to Summit

1. Chip and seal road and parking lots 1
2. Re-work picnic area to summit 3
3. Add road signs 2
4. Road signs, speed bump 2

Flagstaff Summit

1. Work on Master Plan for reconstruction 1
2. J.C. Shelter 2
 - a. work on tables, benches & firepits 3
 - b. New roofing on shelter 1
3. Rebuild steps, firepit, walls around amphitheater 3
4. Check well, add new pump 2
5. Push for building new Ranger Station 1
6. Finish placement of rocks 1
7. Re-oil road 1

Stony Point

1. New picnic tables, firepits 2
2. New gate on switchback below Stony Point 2

Cathedral Park

1. Pump restroom 1
2. Reconstruct picnic area, tables, grill, firepits 2

Green Mountain West Ridge

1. Relocate Green Mountain Trail-glass covered sign 1

Settlers Park

1. Mow grass a couple times during summer 1
2. Heavy patrol of area for campers 1
3. Master plan for rebuilding picnic area, tables, grills and firepits 2

Sunshine Canyon

1. Put pressure on Kiwanis Club to finish building picnic area, tables, tree planting, walk, grills and firepits 1
2. Install, build new fence along Sunshine

Mesa Reservoir

- 1. Develop Master Plan for area as soon as possible 1
- 2. Get as much water as possible into lake 1
- 3. Clean ditch and work on dam of Reservoir 1
- 4. Rework restroom 2
- 5. Paint and rework two shelters 2

Boulder Falls

- 1. New signs 1

Buckingham Campground

- 1. Master Plan for area:
 - a. Set up and build camping sites 1
 - b. Pump restrooms 1
 - c. Placement of rock around area 1
 - d. Paint restroom and signs 1
 - e. Replace upper gate 1

Buckingham Park

- 1. Restoration of area picnic grounds with Ken Ramsey's construction crew
 - a. new signs 1
 - b. rock placement around parking area 1
 - c. new tables 1
 - d. new grills 1
 - e. new firepits 1
 - f. new gates, three 1

Sawhill Ponds

- 1. Remove gravel 2
- 2. Spread top soil and seed 2
- 3. Make and install new nest boxes 2
- 4. Work with county on Master Planning 1
- 5. Thistle control 1
- 6. Trash pickup 1
- 7. Repair gate 1
- 8. Repaint signs 1

Red Rocks

- 1. Fence north side along Sunshine Road 2

Work Project Completed On Open Space Areas 1977

Rudd East

1. finished south fence line, 600 feet
2. removed fence wire and some fence posts from inner fences
3. posted property with boundary signs 63 new signs
4. build and installed new steel gate south end

Rudd West

1. Built approximately 3000 feet new fence southeast corner Rudd West is now completely fenced
2. Cleaned up underpass and built horse gate between the two Rudd parcels
3. Posted new boundary signs, 56 new signs

Newhauser property

1. Mowed and sprayed thistles
2. Cleaned up trash in area
3. Built fence along creek, 950 feet
4. Built 300 feet division fence from creek to north boundary
5. Constructed and installed horse gate in new division fence
6. Repaired roof on barn, storm damage

Hedgecock

1. Cleaned up trash pile

Stengel

1. Constructed and installed 2 new horse gates
2. Removed beetle trees
3. Replaced 3 boundary signs

Dunn Property

1. Thistle control
2. Cut beetle trees upper end
3. Worked on drainage ditches on fire road
4. Reinstalled culvert in parking lot

Shanahan Area

1. Beetle control by Open Space staff forestry crew and private contractor
2. Thistle control
3. Removed cattle guard, make and install vehicle gate and horse gate at entrance
4. Installed 14 new boundary signs area completed except for Bear Canyon

Richardson

1. Repaired wire gate

Burke I

1. Thistle control, weed mowing
2. Built and installed double 8' gate east side
3. Rebuilt fence from Boulder Creek east
4. Repaired fence, 6 auto wrecks

Burke II

1. Thistle control
2. Cleaned up area around tree, southwest corner
3. Installed horse gate, north end
4. Built and installed a double 8' gate south end
Removed gate south west corner
5. Repaired fence, 2 auto wrecks

Gebhard

1. Burned north east section
2. Rebuilt bridge to hayfield
3. Extended culvert at hayfield
4. Repaired irrigation flume
5. Installed new vehicle gate on south end, eliminate gate at southeast corner
6. Removed downed tree at bridge
7. Repaired fences from 1 auto wreck, 1 auto horse collision

Klein

1. Thistle control
2. Prairie dog control
3. Repaired fences from 2 auto wrecks

Kaufman

1. Cleaned up area north of corral
2. Thistle control
3. Cleaned mud from lower end of wash out twice so field could be reseeded and old field hayed by contractor
4. Installed new culvert across washout

McKenzie

1. Thistle control
2. Weed control in tree plots
3. Clean up in white rock ditch by junior rangers
4. Prairie dog control

Hidden Valley East

1. Thistle control and weed mowing
2. Surveyed and cut new irrigation ditches
3. Irrigated field for grazing
4. Prairie dog control

Longhorn Ranch

1. Removed old fence wire
2. Built and installed horse gate west end

Mann

1. Cleaned out highway underpass
2. Built and installed horse gate at underpass
3. Prairie dog control

Parson property

1. Built fence on right of way, installed 1 horse gate and 3 vehicle gates
2. Posted right of way fence with private property signs to Parson property as agreed upon
3. Removed old wire south side of road

Mt. Sanitas

1. Beetle control by open space crew and forestry crew
2. Thistle control
3. Repair roof on picnic shelter

Hidden Valley Ranch

1. Prairie Dog Control
2. Road maintenance

Miscellaneous Jobs

1. 1 fire on open space, south of Mt. Sanitas summit
2. fire suppression in Mountain parks
3. vandalism repair in all areas
4. fence repair from auto wrecks, animal damages and wind damage and vandalism
5. make signs & gates
6. equipment maintenance
7. patrolled
8. range surveys on leased land and proposed lease land

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MATERIALS USED IN OPEN SPACE 1977

<u>LOCATION</u>	<u>QUANTITY</u>	<u>ITEM</u>	<u>PRICE</u>	<u>TOTAL</u>	<u>DATE</u>
Burke I	2 gal	2-4-D	\$6.50	\$13.00	7/9/77
Klein	1 gal	Tordon 212	\$33.70	\$33.70	7/12/77
McKenzie	1 gal	Tordon 212	\$33.70	\$33.70	7/12/77
Neuhauser	40	fence posts	\$1.48	\$59.20	10/11/77
Neuhauser	2 rolls	Barbless wire	\$18.40	\$36.80	10/11/77
Rudd East	33	fence posts	\$1.48	\$48.84	12/8/77
Rudd East	2 rolls	Barbless wire	\$18.40	\$36.80	-12/8/77
Rudd West	7 rolls	Barbless wire	\$18.40	\$128.80	6/4/78
Rudd West	2 rolls	Barbed wire	\$20.90	\$41.80	6/9/77
Rudd West	157	Fence posts	\$1.48	\$232.36	6/9/77
Mt. Sanitas	8 gal	2-4-D	\$6.50 gal	\$52.00	6/13/77
Wonderland Lake	1 gal	2-4-D	\$6.50	\$6.50	6/13/77
Burke I	6 gal	2-4-D	\$6.50	\$39.00	6/27/77
Gebhard	1 gal	2-4-D	\$6.50	\$6.50	6/24/77
Neuhauser	6 gal	2-4-D	\$6.50	\$39.00	5/11/77
Neuhauser	3 pints	Wetting agent	7.95	\$5.97	5/11/77
Dunn	2.5 gal	Tordon 212	\$33.70	\$84.25	5/26/77
Dunn	3 quarts	2-4-D	\$6.50	\$4.89	5/26/77
Dunn	3 pints	Wetting agent	\$7.95	\$5.97	5/26/77
Shannahan	2 gal	Tordon 212	\$33.70	\$67.40	5/26/77
Shannahan	2 pints	wetting agent	\$7.95	\$3.98	5/26/77
East Hidden V.	4 gal.	2-4-D	\$6.50	\$26.00	4/23/77
" "	5.5 gal	Tordon 212	\$33.70	\$185.35	5/23/77
" "	5 pints	wetting agent	\$7.95	\$5.95	5/23/77
McKenzie	10 gal.	Tordon 212	\$33.70	\$337.00	6/1/77
McKenzie	4.5 gal	2-4-D	\$6.50	\$29.25	6/1/77
McKenzie	9 pints	Wetting agent	\$7.95	\$17.91	6/1/77

<u>PROPERTY</u>	<u>QUANTITY</u>	<u>ITEM</u>	<u>PRICE</u>	<u>TOTAL</u>	<u>DATE</u>
Klein	10.5 gal	2-4-D	\$6.50	\$68.25	6/2/77
Klein	1.5 gal	Tordon 212	\$33.70	\$50.55	6/2/77
Klein	1 pint	Wetting agent	\$7.95	\$1.99	6/2/77
Rudd East	37	fence posts	\$1.48	\$55.46	1/25/77
Rudd East	2 rolls	Barbless wire	\$18.40	\$36.80	1/25/77
Rudd East	1 roll	Barbed wire	\$20.90	\$20.90	1/25/77
Gebhard	2 sacks	Portland cement	\$2.86	\$5.72	2/22/77
Gebhard	15 lbs.	6" Nails	.55	\$8.25	2/22/77
Parson prop.	110	fence posts	\$1.48	\$162.80	4/21/77
Parson	6	roll barbed wire	\$20.90	\$125.40	4/21/77
Parson	12	No trespass signs	.79	\$9.48	5/5/77
Kaufman	1	45 ft. 12" culvert	\$110.10	\$110.10	4/28/77
Kaufman	2	Portland cement	\$2.86	\$5.72	4/28/77
Neuhauser	10 gal	2-4-D Weed Spray	\$6.85	\$68.50	5/11/77
Neuhauser	3 qt	Amway spray adjavant	\$1.99	\$5.97	5/11/77

Equipment purchased from 1973 to 1977

1.	Gas Welder	\$129.00
2.	Bench Vise	29.99
3.	3 Chain saws Homelite XL12	551.00
4.	Black & Decker 7¼" circular saw	22.00
5.	Black & Decker Sabre Saw	14.00
6.	Black & Decker Pad Sander	18.00
7.	Black & Decker 3/8" electric drill	14.00
8.	hand winch hoist 2 ton	25.00
9.	socket set	24.95
10.	misc. tool for crew	50.00
11.	spray pump for disease and fire control	
	150 PSI roller pump	239.95
12.	post driver & puller-Range type	199.95
13.	Barbed wire roller level wind	74.95
14.	fence tool	40.00
15.	Warn electric winch	488.00
16.	truck tool box	108.00
17.	8 fire back packs & pumps	272.02
18.	electric heater for work shop	128.00
19.	Ford 3/4 ton 4 x 4 1973	3585.00
20.	Dodge 3/4 ton 4 x 4 1975 1/2 purchase	2377.00
21.	3500 Ford tractor loader	
22.	1973 two horse horse trailer	
23.	1 horse & Tach	

Equipment purchased in 1977 from request list

1.	Arck Welder 1/2 purchase	Total Price	\$124.00
2.	3 point hitch tractor blade 6'		285.29

OPEN SPACE
WORK PROJECTS FOR 1978

<u>Rudd East</u>	<u>Priority</u>
fence northwest boundary approx. 4500 ft. & post signs	1
clean up area around corral	2
block hazardous mine shafts	1
beetle control	1
thistle control	1
check all fences	1
<u>Rudd West</u>	
construct parking area and install gates in s.e. corner by Matterhorn	2
check all fences	1
dig out pond along ditch	3
<u>Newhauser</u>	
construct garage	
finish fencing along south Boulder Creek	2
thistle control	1
work on trail	1
make outhouse	1
<u>Hedgecock</u>	
work on horsetrail and fire access	2
repair fence between Hedgecock and Newhauser	2
thistle control	1
<u>Stengel</u>	
thistle control	1
repair storm damaged fences	1
work on horse trail and emergency access	2
repair springs	2
<u>Dunn property</u>	
thistle control	1
repair upper and lower building	2
build fire pit lower building	
clean up trash along creek and at the old school teachers cabin	3
stone work around entrance sign	3
fire road maintenance	1
road maintenance and ditching around parking lot	1

Priority

Shanahan Area

clean out 1 holding pond 2
road maintenance 1

Richardson

remove wooden portion of house 2
fill wells 1
clean up trash around house 3
seed area around house approx. 1/2 acre 3
install two gates south end by old house 3
and east end next to Hogans property 3

Gebhard

repair calving shed 1
repair or replace irrigation flume over S. Boulder Creek 2
replace entire south fenceline 1
build bridge over drycreek south end of Gebhard 3
build and install vehicle and horse gate at new bridge 3
thistle control 1
prairie dog control 1
repair culvert over enterprise ditch 1

Burke I

thistle control 1
replace north and east fencelines 1
remove pole shed 2
remove red storage building 2
reseed area between horse trail and South BoulderCreek 2
finish entrance of horse trail 2

Burke II

thistle control 1
replace entire south fence along Baseline 1

Klein

prairie dog control 1
reseed buffer strips along south fence line 2
repair building on newly aquired inholding 1
remove fence on newly aquired inholding 3
construct bouldary fence along creek 2
thistle control 1
build a crossing of ditch 1

Echer property

clean up trash in old culvert 2

priority

Kaufman

thistle control	1
build 2 irrigation gates	1
remove dead trees	3
stain barn	1
sign - danger signs - construction of pipeline	
remove dead hay	2

McKenzie

reseed approximately 3 acres	2
maintenance on tree plantings	1
weed and thistle control	1
install 2 culverts by new irrigation gate	2
remove rocks from south field	3
prairie dog control	1
install 2 new gates between fields 4 & 5	

Hidden Valley East

install 1 culvert	2
prairie dog control	1
thistle control	1
fill in old irrigation ditches	2
new ditch	2
reseed south end 20 acres	1

Longhorn Ranch

prairie dog control	1
remove remaining barbed wire and steel pine on property	2
close off south fence line	1
look into closing horse gates and trails	1
look into putting some kind of control structure in on south side of longhorn road top of hill	

Mann property

remove trash and concrete piles	2
prairie dog control	1
build parking area	1
remove old fence line	2
build new fence south end	1

Parson

some fencing on west end and signing in west boundary

Mt. Sanitas

thistle control	1
installation of security lights in shelter	2
fire road maintenance	1
major trail work	1
rule sign	1
new fencing along Sunshine	2
trash removal Jr. Rangers	2

Whitmeyer

fence work north boundary
fence south side from Sunshine Canyon south

Bear Canyon

clean out fire pond	1
glass covered sign	2

Hidden Valley Ranch

prairie dog control	1
road maintenance (min. three times a year)	1
all other maintenance to be performed by leasee	
fence repair south boundary	2
culvert repaired on farmers ditch	1
irrigation ditches relocated through area	2
removal of prairie dog mounds	2
reseed field #1 50 to 50 to 60 acres	1

Miscellaneous projects

post boundaries all areas	1
build steel gates vehicle & horse gates	1
patrol areas	1
repair damaged boundary fences	1
maintenance of fire roads	1
maintenance of signs structures	2
fire suppression	1

Open Space Materials for 1978
All prices based on Spring 1977 price

Must be done during 1978

Mann property, 2600 ft. fence material, South fence line, 182 post \$1.48 pc.	\$269.36
7 rolls barbless wire 18.40	128.08
2 rolls barbed wire 20.90	
Rudd East N.W. Boundary	
4468 ft. fence 310 posts	\$458.80
10 rolls barbless wire \$18.40	184.00
3 rolls barbed wire 20.90	62.70
55 gal. 24D amine \$6.70	\$357.50
Gebhard 175 ft. 14" Culvert replace old flume	
McKenzie \$200.00 concrete irrigation dam	
Kaufman \$90.00 3 irrigation gates	

OPEN SPACE
Materials Needed for 1978 projects

Fence materials

Rudd East 3800 ft. 253 posts 9 rolls barbless wire 3 rolls barbed wire
Mann prop. 1925 ft. 114 posts 4 rolls barbless wire 2 rolls barbed wire
Burke II 1125 ft. 75 posts 4 roll barbed wire
Gebhard 2210 ft. 132 posts 6 rolls barbed wire

TOTAL 574 posts 13 rolls barbless wire 15 rolls barbed wire

Chemical needed for thistle control

55 gal. 24D Amine 20 gal adjavent 20 gal. Tordon 212

Gebhard 175 ft. 14" culvert to replace irrigation flume, if funds are not available to replace entire flume we can replace sections each year as funds are available. This flume is a constant maintenance problem and should be replaced as it is a major irrigation flume

pipe needed for gates

Burke II 2-16' gates
Gebhard 1-4'6" horse gate
Neuhauser 1-4'6" horse gate
Stengel 1-12' gate
E. Hidden Valley 1-12' gate
Kaufman 1-16' gate
Rudd 2-12' gates 1-4'6" horse gate

TOTAL 335 ft. 1" pipe needed to construct gates
approximate cost \$100.00

ANNUAL REPORT OF PRAIRIE DOG CONTROL OPERATION FOR 1977

The 1977 control operation began in February and March when all known prairie dog towns occurring in the City Mountain Parks and Open Space were mapped and tentative population counts obtained. Utilizing the management recommendations prepared in 1976, the Ranger Staff analyzed the data and planned the control operation to be carried out in the fall. (Memo: Prairie Dog Control, 1977 of August 8, 1977).

All properties recommended for control in 1977 were treated with the exception of field B of the Boulder Land, Irrigation and Power Co., and the buffer zone between HVR field #7 and EHVR. The control operation is extremely dependent on warm, windless weather with zero precipitation. Without these conditions the prairie dogs do not feed actively and therefore do not consume the bait. Our control operation, although begun in September, was interrupted by vacation time and delayed by frequent periods of cold, wet weather.

In general the control operation went smoothly and, from visual monitoring, populations appear to be reduced from 70-95%. Our spring population counts in 1978 will furnish a more exact percentage of prairie dog towns successfully controlled.

1978 HAYING RECOMMENDATIONS

NOTE: All leases should be written for one cutting, with subsequent cuts subject to approval.

GEBHARD Field #5 can be hayed subject to a condition check in June, portions of fields #1,2, & 3 may be included for one cutting.

BURKE I Should be leased to same person as Gebhard. Suitable areas can be hayed once. Can be joined with Gebhard for winter grazing season.

BURKE II Approximately 50 acres available for haying. If first cutting is taken in late June, early July, this property may give a second cutting. Presently recommended for winter grazing.

KAUFMANN Fields 1,2,5,6,7 & 8 definitely available for haying. Field 4 should be checked in June before it is included.

MCKENZIE Fields 3,4,5 available for haying. Should definitely be checked before any second cutting.

EAST HIDDEN VALLEY One cutting maximum, no grazing, south end reseeded, try for one more water share since present isn't sufficient. If HVR leases, this water will be available from their 7 share allotment.

BIDDLE Entire property can be hayed. With early July first cutting can produce a good second crop.

ECCHER If a leasee can be found (Smith?) should be hayed once. Otherwise, 2 horses year round.

DUNN Lower field, South of the creek can be hayed once.

KLEIN Unless water can somehow be gotten into McGinn lateral, no haying is advisable. With water, this could be a good producer.

1978 GRAZING RECOMMENDATIONS

RICHARDSON 66 total useable acres. SCS recommends a total of 23 AUM's/yr. Due to water availability in the ditches we suggest adjusting this to a May-July lease with 8 cows, 6 horses of 11 yearling steers per month.

BURKE I & GEBHARD Approximately 165 grazeable acres. SCS recommends 201 total AUM's/yr. Experience over the last 3 years indicates that these properties, especially Gebhard can support substantially more than this. We suggest grazing Gebhard (except #5 hayfield) with 24 cows, 35 steers or 16 horses and haying suitable portions of Burke I from May 15 - October 15. From October 15 - March 15 Burke I and Gebhard could be jointly grazed by 30 cows, 42 steers or 20 horses. Total 270 AUM's/yr.

BURKE II 68 grazeable acres. SCS recommendation of 136 AUM's/yr is based on pre-haying growth. Since most of this is removed by haying we suggest a lower rate of 50 AUM's from October 15-March 15. This would be 10 cows, 7 horses or 14 steers.

KLINE Approximately 30 acres total. SCS recommendation is based on 70 acres, however 40 of these are completely unavailable. Based on their figures, the remaining 30 acres are sufficient to support only 2 cows for 4 months. In addition, fencing on this parcel is unadequate. We suggest not grazing this parcel until fencing is complete and range condition improves.

MANN/PARSONS A total of approximately 432 acres SCS suggests a total of 131 AUM's/yr. or 10 cows, 6 horses or 14 yearling steers. We feel this is somewhat low and would suggest 16 cows, 10 horses or 22 yearling steers with no grazing on Mann before mid-June. This would be 192 AUM's/yr.

STENGEL Approximately 400 grazeable acres. No SCS survey. We suggest 240 AUM's/yr or 23 cows, 33 steers or 15 horses year round.

HEDGECOCK Approximately 60 acres in field closest to Hedgecock residence. SCS recommendation based on 74 acres is 19 AUM's/yr or 1.5 cows, 1 horse or 2 steers, May 15-March 15. We suggest this is not economical and recommend no grazing until parcel has recovered further.

NEUHAUSER Total of 69 useable acres. SCS shows a total of 42 AUM's/yr or 3.5 cows, 2.3 horses, etc. Check of SCS charts shows that many native tallgrasses were missed, resulting in the lowered stocking level. We suggest total of 4 horses year round with early grazing in barn pasture and then rotation to outer pasture.

EAST RUDD Approximately 650 grazeable acres. 250 AUM's/yr or 25 cows, 37 yearling steers or 15 horses, May 15-March 15.

WEST RUDD Approximately 500 grazeable acres. 200 AUM's/yr or 20 cows, 30 yearling steers or 12 horses.

FERTILIZATION RECOMMENDATIONS 1978

The Ranger Staff recommends that all irrigable open space properties being leased for the purpose of hay fields be fertilized in the spring of 1978. Fertilizer should be applied at a rate of approximately 200# per acre (or 50# actual N/acre). The type of fertilizer applied varies according to the resident plant community and also should reflect the leasee's experience and preferences (since the leasee will be required to pay 50% of the cost of the fertilizer). For these reasons, type of fertilizer should be decided at a joint meeting between the Open Space office, ranger staff, and leasee. Ordering and applying the selected fertilizer should in all cases be the responsibility of the ranger staff, unless prior arrangements are made with the leasee.

<u>Property</u>	<u>Approximate Acreage</u>	<u>Approximate Quantity</u>
Burke II	55 acres	5.5 tons
Eccher	8 acres	.8 ton
EHVR (North end)	40 acres	4.0 tons
Gebhard	20 acres	2.0 tons
Kaufmann	37 acres	3.7 tons
McKenzie	45 acres	4.5 tons
TOTALS	205 acres	20.5 tons

Prices will vary according to the content of the fertilizer selected, but will generally cost between \$135.00 and \$200.00/ton.

1978 SEEDING RECOMMENDATIONS

The Ranger Staff recommends seeding portions of four properties during the spring of 1978. These areas are almost totally denuded of vegetation, either through overgrazing by livestock or prairie dogs or through eradication of weeds which had formed the primary cover. Most of these areas evidenced slight to severe wind erosion during the windy December of 1977.

Soil preparation and drill seeding will be necessary, and generally, seeding mixtures should approximate the grass species which do exist on remaining healthy portions of the properties as an absolute minimum standard. Thought should also be given to upgrading properties through seeding with a high percentage of native grasses (see appended memo).

BURKE I The northeast corner of Burke I (approximately 5 acres) has needed reseeding for several years. The funneling of the horse traffic which uses this property has been effectively accomplished through delineation of a trail through the 5 acre portion; this fact and appropriate signing should facilitate seeding this heavily used area.

KLEIN Portions of the Klein property appear to have been treated with a soil sterilant and are totally bare. The total acreage is approximately two acres and in spite of possible damage by resident prairie dogs, this area has experienced moderate to severe wind erosion and should definitely be reseeded this year.

EAST HIDDEN VALLEY The entire southern portion of the East Hidden Valley meadow has been infested with Russian Knapweed since we have managed the area. Through mowing and weed spray, this problem is being brought under control, but almost no grass exists in this area. This 20 acre portion has already experienced severe wind erosion and been additionally damaged by grazing livestock traveling through the area.

HIDDEN VALLEY RANCH Most of the portions of Hidden Valley Ranch which underwent prairie dog control in 1977 are in need of at least partial reseeding. This must be accomplished in fairly small segments as newly seeded properties should not be grazed for one growing season. Any attempt at reseeding Hidden Valley Ranch should be contingent upon a joint meeting between the City and the leasee wherein selection of portion to be reseeded and cost and labor sharing as well as post-seeding management should be decided.

WHY NATIVES?

1. One of the ~~most~~ primary goals of Open Space has always been the preservation of natural communities from further destruction. Native grasslands have been virtually wiped out across the United States.
2. Native species have adapted along with our semi-arid climate over thousands of years and are better suited to abrupt climatic changes than many introduced species.
3. Natives have built up what topsoil we have in the Boulder Valley so we know their capabilities. Introduced plants may or may not be as efficient soil builders. No one really knows.
4. There are presently over 7800 acres of Open Space. Virtually none of these acres still contain even 50% native grasses. In light of this, 40 acres of native prairie doesn't seem too much to ask.
5. If the natives take hold and grow well we will have a seed source for future planting at virtually no cost. The city might even consider using native stands as a source of seed to sell, since native grass seed is becoming more popular but is often difficult to get in quantity. For example, Big and Little Bluestem sell for \$5.40/pound, Blue Grama \$4.10/pound, Side Oats grama \$4.90/pound and Indian Rice Grass \$10.50pound. The chance to perpetuate native grassland for profit is obviously something to consider.