

Modification #1  
to the  
Allotment Management Plan  
for  
East Fork C&H Allotment

Powell Ranger District  
Dixie National Forest  
Garfield and Kane Counties, Utah

This document modifies the Allotment Management Plan for the East Fork C&H Allotment approved on June 9, 1992 as follows:

II. ACTION ITEMS

- B. A deferred-rotation grazing system will be used with the following units and dates:

Year	Daves Hollow	East Creek	Long Hollow	Bridge Hollow	Upper East Fk.	Sieler	Crawford	Tropic
1	1	8	2	6	3	5	4	7
2	8	1	6	2	5	4	3	7
				(Repeat Cycle)				

Year 1

- 1 = Graze 6/16 to 7/02 - or until proper use of 50% is reached.
- 2 = Graze 7/03 to 7/26 - or until proper use of 50% is reached.
- 3 = Graze 7/27 to 8/19 - or until proper use of 50% is reached.
- 4 = Graze 8/20 to 9/04 - or until proper use of 40% is reached.
- 5 = Graze 9/05 to 9/12 - or until proper use of 40% is reached.
- 6 = Graze 9/13 to 9/23 - or until proper use of 30% is reached.
- 7 = Graze 9/24 to 9/28 - or until proper use of 30% is reached.
- 8 = Graze 9/29 to 10/5 - or until proper use of 30% is reached.

Year 2

- 1 = Graze 6/16 to 6/27 - or until proper use of 50% is reached.
- 2 = Graze 6/28 to 7/18 - or until proper use of 50% is reached.
- 3 = Graze 7/19 to 8/02 - or until proper use of 50% is reached.
- 4 = Graze 8/03 to 8/15 - or until proper use of 40% is reached.
- 5 = Graze 8/16 to 9/05 - or until proper use of 40% is reached.
- 6 = Graze 9/06 to 9/20 - or until proper use of 30% is reached.
- 7 = Graze 9/21 to 9/25 - or until proper use of 30% is reached.
- 8 = Graze 9/26 to 10/5 - or until proper use of 30% is reached.

The grazing dates are tentative and will be adjusted as conditions and use warrant. The Daves Hollow and the East Creek units followed by the Long Hollow and Bridge Hollow units would be used during the early season to allow the upper (higher elevation) units time to reach proper range readiness.

Prepared By: *Erin Boshell*  
Range Conservationist

Date: *6/8/95*

Reviewed By: *David R. Giddis*  
Forest Range Staff

Date: *JUNE 8, 1995*

Approved By: *Carlton P. Guillette*  
District Forest Ranger

Date: *6-8-95*

ALLOTMENT MANAGEMENT PLAN

for

EAST FORK C&H ALLOTMENT

Powell Ranger District  
Dixie National Forest  
Garfield and Kane Counties, Utah

Prepared By: Evan Z. Boshell Date: 6/1/92  
Range Conservationist

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Forest Range Staff

Approved By: Carlton P. Guillet Date: 6/9/92  
District Forest Ranger

This Allotment Management Plan is made part of the Term Grazing Permit in accordance with Section 8a of that permit and implements the Decision Notice signed by Hugh C. Thompson, Dixie National Forest Supervisor, on February 11, 1992.

## EAST FORK C&H ALLOTMENT MANAGEMENT PLAN

Powell Ranger District  
Dixie National Forest

### INTRODUCTION

The Federal Land Policy Management Act, as amended by the Public Rangelands Improvement Act allows for Allotment Management Plans (AMP's) to be included in grazing permits at the discretion of the Secretary of Agriculture. [43 U.S.C. (1752(d), as amended by 92 Stat. 1803 (1978)]. The Secretary has elected to exercise this discretion, and has delegated his authority to issue regulations in this area to the Chief of the Forest Service. [36 CFR (222.1 et. seq.)].

An Allotment Management Plan is defined in FLPMA as a document prepared in consultation with lessees or permittees applying to livestock operations on the public lands prescribing (1) the manner in and extent to which livestock operations will be conducted in order to meet multiple use, sustained-yield, economic and other needs and objectives, (2) describing range improvements to be installed and maintained, and (3) containing such other provisions relating to livestock grazing and other objectives found by the Secretary to be consistent with the provisions of the FLPMA. [43 USC (1702(k), and 36 CFR (222.1(b) (2)., and (FSM 1023)]. This East Fork C&H Allotment Management Plan was prepared in compliance of the approved Decision Notice and Finding of No Significant Impact for the East Fork/Crawford C&H Allotment Plan Environmental Assessment, February 11, 1992.

The AMP integrates the actions needed to manage rangeland resources for livestock grazing. The AMP must integrate resource goals, objectives, standards, guidelines, and management requirements for the management of rangeland resources including soil, water, wildlife, fisheries, and vegetation for a wide array of resource uses with livestock grazing.

### I. GOALS AND OBJECTIVES

#### A. GOALS

Meet the following Goals and Desired Future Conditions contained in the Dixie National Forest Land and Resource Management Plan.

The majority of the upland range sites are at or near the desired future condition of those vegetation communities. There is an opportunity for increased use (distribution) by livestock while maintaining these desired plant communities for optimum forage production (Dixie National Forest L&RMP, Chapter IV-109).

There are riparian areas which contain vegetation communities which are at an earlier successional stage with lower resource values for

riparian dependent species, than vegetation communities which have the potential to occupy these sites. The management area direction would be to provide healthy, self-perpetuating riparian plant communities (Dixie National Forest L&RMP, Chapter IV-135).

The recreation opportunities are high within the area around Tropic Reservoir. These uses are primarily associated with visual resources. The management area direction is to manage the visual resources so that management activities maintain or improve the quality of recreation opportunities (Dixie National Forest L&RMP, Chapter IV-68).

The Crawford C&H Allotment's grazing capacity is not presently obligated under a Term Grazing Permit. The desired future condition is to permit livestock grazing and develop allotment management plans that will ensure proper management (Dixie National Forest L&RMP, Chapter IV-21).

Water quality and stream channel stability are not providing for adequate fisheries habitat on some stretches of the East Fork of the Sevier River. The desired future condition is to maintain and improve existing levels of water quality and stream channel stability is maintained or improved, in areas where it is severely degraded (Dixie National Forest L&RMP, Chapter IV-135).

Riparian dependent wildlife and fish species habitat is being affected by livestock grazing around Tropic Reservoir. The desired future condition would be to have habitat that would be available to support in excess of minimum viable populations of riparian dependent wildlife and fish species (Dixie National Forest L&RMP, Chapter IV-73).

#### B. OBJECTIVES

1. Maintain overall stream habitat conditions (MA-9A) at least 50 percent of optimum by the year 2000 (Dixie National Forest L&RMP, Chapter IV-138).
2. By the year 2000, reduce water temperature to below the maximum of 68<sup>o</sup>F in the East Fork of the Sevier River (MA-9A) and its tributaries.
3. By the year 2000, maintain at least 80 percent of the potential ground cover within 100 feet from the edges of all perennial streams (MA-9A), and Tropic Reservoir or to the outer margin of the riparian ecosystem, where wider than 100 feet (Dixie National Forest L&RMP, Chapter IV-141).

4. By the year 2000, maintain at least 70 percent of the linear distance of all riparian ecosystem in at least an upper mid-seral successional stage (Dixie National Forest L&RMP, Chapter IV-42).
5. By the year 2000, maintain 40 percent or more of overhanging grasses, forbs sedges and shrubs along banks of streams (Dixie National Forest L&RMP, Chapter IV-33).
6. By the year 2000, maintain 50 percent or more of total streambank length in stable condition (Dixie National Forest L&RMP, Chapter IV-33).
7. By the year 2000, no more than 25 percent of stream substrate should be covered by inorganic sediment less than 3.2 mm in size (Dixie National Forest L&RMP, Chapter IV-33).
8. By the year 2030, all suitable rangelands currently in "poor" condition will be improved to fair or better range condition (Dixie National Forest L&RMP, Chapter IV-37).

## II. ACTION ITEMS

- A. Livestock kind, class, numbers permitted, season of use and animal months permitted are as follows:

Permitted Number - 443 cattle  
 Class of Livestock - cow-calf  
 Season of Use - 6/16 - 9/30  
 Animal Months - 1550 AM's

<u>Permittees</u>	<u>Cattle</u>
Esplin, I Mack & Betty	15
Heaton Brothers	147
Hughes, Joseph & Violet Rae	12
Mangum, Paul O. & Keela	84
Ott, J. Robert & Mira Loy	91
Ott, Sherrell & Karen C.	15
Ott, Stanley K. & Louise H.	2
Ott, Wallace & Mary	16
Pollock, Lonnie & Vance	8
Shakespear, Four "H" LTD	53

Numbers and/or season of use may be adjusted if proper use, as described in Part III, is not achievable under the current system.

- B. A deferred-rotation grazing system will be used with the following units and dates:

Year	Daves Hollow	East Creek	Long Hollow	Bridge Hollow	Upper East Fk.	Sieler	Crawford
1992	1	7	2	6	3	5	4
-----	-----	-----	-----	-----	-----	-----	-----
1993	7	1	6	2	5	4	3
-----	-----	-----	-----	-----	-----	-----	-----
			(Repeat Cycle)				

Year 1

- 1 - Graze 6/16 to 7/02 - or until proper use of 50% is reached.
- 2 - Graze 7/03 to 7/26 - or until proper use of 50% is reached.
- 3 - Graze 7/27 to 8/21 - or until proper use of 50% is reached.
- 4 - Graze 8/22 to 9/04 - or until proper use of 40% is reached.
- 5 - Graze 9/05 to 9/12 - or until proper use of 40% is reached.
- 6 - Graze 9/13 to 9/23 - or until proper use of 30% is reached.
- 7 - Graze 9/24 to 9/30 - or until proper use of 30% is reached.

Year 2

- 1 - Graze 6/16 to 6/27 - or until proper use of 50% is reached.
- 2 - Graze 6/28 to 7/18 - or until proper use of 50% is reached.
- 3 - Graze 7/19 to 8/06 - or until proper use of 50% is reached.
- 4 - Graze 8/07 to 8/15 - or until proper use of 40% is reached.
- 5 - Graze 8/16 to 9/05 - or until proper use of 40% is reached.
- 6 - Graze 9/06 to 9/20 - or until proper use of 30% is reached.
- 7 - Graze 9/21 to 9/30 - or until proper use of 30% is reached.

The grazing dates are tentative and will be adjusted as conditions and use warrant. The Daves Hollow and the East Creek units followed by the Long Hollow and Bridge Hollow units would be used during the early season to allow the upper (higher elevation) units time to reach proper range readiness.

C. Proper Use

Proper use will vary between 30-50% depending on the timing of use of the units. Forage in units to be grazed in the early season could be used up to 50%, the units to be grazed mid season would be used up to 40% on riparian vegetation. The units grazed late season will only be used up to 30% on both riparian vegetation and other rangelands. There would be regrowth in units grazed early and mid season and proper use in the late season units would be reduced to retain streamside vegetation for protection of soils from high streamflows and ice action on the streambanks. Willows will also receive less

use and their growth will be encouraged to armor the streambanks against soil erosion. Proper use of rangelands during the late season will be reduced in the Daves Hollow and East Creek units to allow for elk, deer and antelope browse needs. Also, this reduced use will help provide for early season forage needs the following year.

#### D. Management Requirements

It is the goal of the Forest Service to improve watershed, water quality, recreation and wildlife habitat in the Tropic Reservoir Unit. To meet these resource needs and accelerate the recovery of degraded riparian conditions along the East Fork of the Sevier River and around Tropic Reservoir, the Tropic Reservoir Unit will be grazed after September 20 each year at a reduced level of forage utilization. Livestock will not graze more than 5 days or over 30% utilization of forage within the unit. This use will be monitored south of Tropic Reservoir. Livestock will be encouraged to graze in Badger Creek, Kings Creek and in the Whiteman Bench area. This action will be on a trial basis for two years. If livestock use is compatible with other resource uses, Term Grazing Permits will be amended to reflect the 5 day and/or 30% utilization standards. However, if conflicts between livestock use and other resource uses and activities continue and management objectives are not being met, then livestock grazing will not be allowed along the East Fork of the Sevier River and around Tropic Reservoir. To achieve this objective, the entire Tropic Reservoir Unit will not be grazed or additional fences will be constructed to protect riparian wildlife habitat and recreation areas. Stream stretches above Tropic Reservoir could be fenced as the need is identified to reach desired future condition goals as specified in the Dixie National Forest L&RMP.

The riparian areas along the East Fork of the Sevier River in the East Creek Unit will be fenced to accelerate recovery of this riparian area. This area could be used in conjunction with the East Creek Unit or as a small separate unit. Any grazing use will be determined on an annual basis. This will be dependent on the recovery of the riparian areas meeting desired future conditions. Research indicates that many streams take 1-15 years or more to restore desired riparian habitat conditions. Water gaps for livestock watering will be provided as needed on the East Fork of the Sevier River.

The following activities described here are necessary to achieve the objectives stated in Section I:

Portions of the allotment boundary will be fenced as National Forest, National Park Service, grazing permittees and/or other private funds become available.

No livestock will be allowed on National Forest System lands until proper range readiness is reached, annually.

Herding and salting practices will be provided by the permittees to achieve proper distribution of livestock.

Monitoring of forage utilization levels will determine when to move livestock to the next scheduled unit. When all the scheduled units have been grazed to proper use, livestock will be removed from the allotment.

Numbers of livestock and season of use will be adjusted annually as determined to be needed by the District Ranger.

All range improvements will be maintained to the standard which they were constructed. Reconstruction of improvements will be completed as determined necessary by the District Ranger and as funds are available. (See the attached Range Improvement Maintenance Program.)

When livestock are moved to the next unit, all livestock will be moved in a timely manner. Strays will not be allowed to stay in the previously grazed unit.

Grazing these units in a deferred rotation grazing system may require that livestock be trailed across units not scheduled for grazing at that time. It will be necessary that livestock be moved through the units promptly and not left in the unscheduled units.

Hauling of water for livestock may be necessary to achieve proper distribution of livestock. When necessary and without hauling of water in the Daves Hollow and East Creek units the grazing use could be adjusted downward (40% Daves Hollow, 20% East Creek) for a total of 215 AM's or 15 days.

Use of water in the Tropic Canal and on private lands (Daves Hollow Unit) in Sec. 18, T36S, R3W, must be negotiated by and between the permittees and the private landowners.

Livestock water could possibly be developed from culinary water sources located on the allotment. This would depend upon the availability of excess water and obtaining water rights. The needs of the administration site (Daves Hollow) and the campground (Kings Creek) would be the first priority.

The small unit along Utah State Highway 63 between Ruby's Inn and the Bryce Canyon National Park boundary will be closed to grazing by livestock except for trailing to and from the allotment.

Trailing livestock thru the Kings Creek Campground area will not be allowed.

Control of shrubby cinquefoil (Potentilla fruticosa), may become necessary. Any controls will be done when approved by the District Ranger in accordance with the instructions on the herbicide label or by hand methods.

Facility construction and maintenance will be required prior to livestock grazing of scheduled units. Examples are as follows:

1. A fence will be constructed in Dairy Hollow by the permittees to facilitate livestock grazing. Permittees are responsible for materials, construction and maintenance.
2. A cattleguard will be moved from the Crawford Creek Road to the main East Fork Road. The Forest Service will construct and maintain this cattleguard.
3. All facilities must be maintained annually and 5 days prior to entering National Forest System lands and/or entering the next scheduled unit as specified in the Annual Plan of Use.

### III. RANGE IMPROVEMENTS

The following are the new range improvements needed to implement improved management. The maintenance responsibilities will be adjusted as any of the optional fences are constructed.

#### New Improvements

<u>Name</u>	<u>Improv. No.</u>	<u>Size</u>	<u>Location</u>	<u>Maintenance By</u>
*East Creek Riparian Fence	003224	1.6 miles	Sec. 28, 32, 33, T36S, R4W, Sec.4, T37S, R4W	Wallace Ott (.6) Paul O. Mangum (1)
**Tropic Reservoir Fence (optional)	003225	3.2 miles	Sec. 5, 8, 17, 18, & 19, T37S, R4W	
***Kings Creek Fence (optional)	003226	.5 mile	Sec. 6 & 7, T37S, R4W	
*Badger Creek Fence (optional)	003227	.6 mile	Sec. 7 & 18, T37S, R4W	
***Dairy Hollow Fence	003228	.6 mile .4 existing	Sec 26 & 27 T38S, R4-1/2W	Heaton Bros. (1 mile)
***Blue Fly Fence (Realignment) (optional)	003229	1.2 miles	Sec. 32, T36S, R4W Sec. 5, T37S, R4W	Blue Fly Permitees

\* Forest Service will construct fence and permittees will maintain.

\*\* Forest Service will construct 1 mile, permittees will construct 2.2 miles. Forest Service will provide materials and permittees will maintain.

\*\*\* Permittees will construct and provide materials or use existing materials from fences to be removed. Permittees will maintain these facilities.

#### Existing Improvements

<u>Name</u>	<u>Improv. No.</u>	<u>Size</u>	<u>Location</u>	<u>Maintenance By</u>
Robinson Canyon - East Fk. Bndry Fence	003230	1.7 miles	Sec. 10 & 15, T39S, R4-1/2W	Heaton Bros. (.9) Robinson Canyon Permitees (.8)
East Fork - Crawford Cr. Boundary Fence	003231	2.3 miles (.5)	Sec. 26, 27 & 34, T38S, R4-1/2W	*Heaton Brothers

East Fork - Blue Fly Bdry. Fence	003231	1.5 miles	Sec. 32, T36S, R4W; Sec. 5, T37S, R4W	**Wallace Ott
East Fork - Kanab Cr. Bdry. Fence	003232	1.0 mile	Sec. 2, T38S, R4-1/2W	J. Robert Ott (.5) Kanab Permittees (.5)
East Fork - Lower Blubber Bdry. Fence	003233	1.9 miles	Sec. 25 & 35, 36, T37S, R4-1/2W	Heaton Brothers (.1) Lower Blubber Permittees (.9)
East Fork - Blue Fly Bdry. Fence	003234	.8 mile	Sec. 28, T36S, R4W	Mack & Betty Esplin
Sieler Unit Fence	003235	1.5 miles	Sec. 27 & 34, T38S, R4-1/2W	Heaton Brothers
Crawford Unit Fence	003236	.5 mile	Sec. 7, T39S, R4W	Heaton Brothers
Upper East Fork Unit Fence	003237	.8 mile	Sec. 13 & 14, T38S, R4-1/2W	J. Robert Ott
Bridge Hollow Unit Fence	003238	.6 mile	Sec. 36, T37S, R4-1/2W	Heaton Brothers
Long Hollow Unit Fence	003239	1.4 miles	Sec. 19 & 20, T37S, R4W	Sherrell Ott (.5) Paul O. Mangum (.9)
Tropic Reservoir Unit Fence	003240	2.9 miles	Sec. 3, 4 & 5, T37S, R4W; Sec. 33, T36S, R4W	Obie Shakespear (2.3) Alston Shakespear (.6)
East Creek Unit Fence	003241	2.8 miles	Sec. 21, 22, 26 & 27, T36S, R4W	J. Robert Ott (2.3) Joe Hughes (.5)
Highway 63 Fence	003242	.8 mile	Sec. 19, T36S, R3W	Paul O. Mangum
Water developments Whiteman Bench	003243	1	Sec. 3 & 10, T37S, R4W	Paul O. Mangum
East Fork Assoc. Corrals	003244		Sec. 33, T36S, R4W	Mack & Betty Esplin
Stock Ponds			East Fork C&H Allotment	East Fork Permittees
Bryce Canyon Nat'l Park Bdry. Fence		21.4 miles	West Boundary	Bryce Canyon National Park

\* Fence to be removed (1.8 miles). Remaining fence will be part of Sieler Unit fence (003235) and the Dairy Hollow fence (003228).

\*\* Fence to be realigned and maintenance assigned to Blue Fly C&H Allotment permittees.

#### IV. EVALUATION SECTION

Studies and inspections will continue to be made on the allotment to further evaluate (1) range condition and trend, (2) effectiveness of the grazing system, (3) accomplishment of the management objectives and (4) adequacy of the stocking rate.

##### A. Nested Frequencies

There are three nested frequency clusters on the allotment. These studies will be re-read approximately every 10 years.

##### B. Riparian Transects

There are two riparian transects on the allotment. These studies will be re-read approximately every 5 years.

##### C. Unit Examinations

Unit examinations will be conducted annually within each unit of the allotment. These exams will evaluate compliance with the Annual Operating Plans directions. They will also firm up carrying capacities.

##### D. Utilization Surveys

Elk use will be monitored by using utilization cages. These plots will be established in key riparian areas and will evaluate elk use prior to livestock grazing.

##### E. Willow Plots

Some willows will be caged to determine potential growth without livestock or wildlife use.

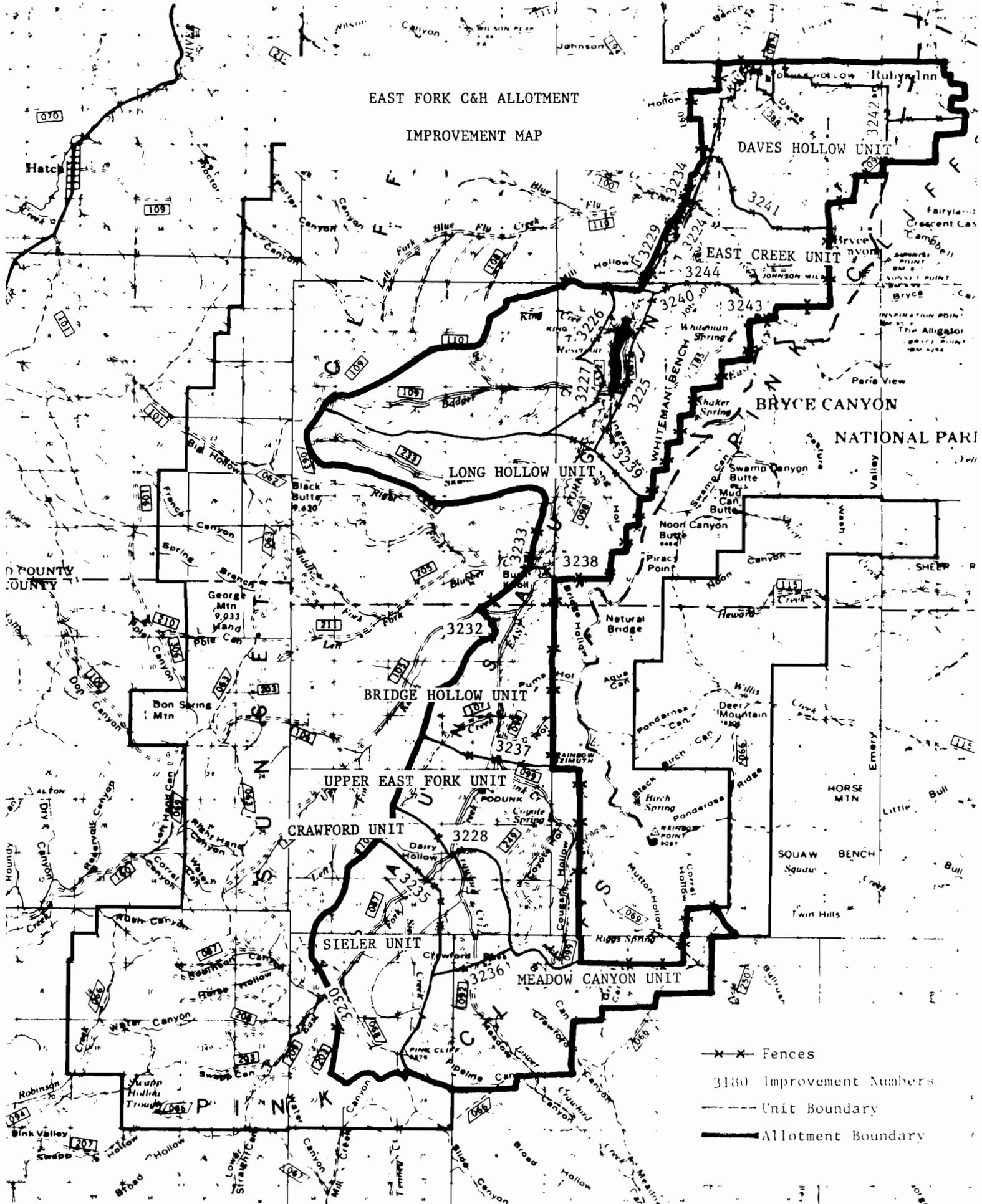
##### F. Sedimentation Surveys

Sedimentation levels will be monitored to evaluate water quality and fisheries spawning trends.

##### G. Streambank Stability

Streambank stability will be monitored in representative reaches of the stream.

EAST FORK C&H ALLOTMENT  
IMPROVEMENT MAP



- x — Fences
- 3180 Improvement Numbers
- Unit Boundary
- Allotment Boundary