

Capitol Reef National Park
North District Water Monitoring Project

Objectives:

1. thru monthly observations of 9 water sources during the grazing season, establish a pattern of water availability
2. thru monthly observations of water sites, establish a pattern of use by livestock and or wildlife
3. after 5 years of monthly comparisons, establish a pattern of availability of water at any of the given sites

Requirements:

1. observations will be made between the 15th and 30th of each month during the normal grazing season of Nov. thru May

Time Frame for Completion: 5 years

Sites to be Observed:

1. Ackland Spring
2. Bull Spring
3. South Desert Spring
4. Lake Creek at Cathedral Cabin
5. Lake Creek near park boundary on Caineville Wash Road
6. Polk Creek at Deep Creek junction
7. Polk Creek near Blackburn Farm (Upper South Desert)
8. Polk Creek opposite Blue Notch Reservoir
9. South Desert Reservoir
- *10. Blue Notch Reservoir (added in Nov. 1987 having been rehabilitated)

Only data forms for springs included in this copy

North District Water Site Monitoring Program

Site Name Ackland Spring Date 11/15/86

Name of Observer K. Kehler

Spring ☒ Seep ☒ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair May 1986 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☒ Eleven to 100 ft. ☐ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

There are 2 water sources at Ackland - a developed spring and
developed seep + seepage in wash -

The spring development runs into a large tank and overflows
out the other end at approx. 1/2 gal. per minute

North District Water Site Monitoring Program

Site Name Ackland Spring Date 12/17/86

Name of Observer K. Kahner, Jr.

Spring ☒ Seep ☒ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair May 1986 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☒
in wash bottom

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

Eleven head of cows in "fence" around Ackland - The
spring was running into the tank but the level was not high
enough to run out the overflow. I don't know if it was because
the cattle just watered as the tank has a leak.

The seepage in the wash was running with some frozen
areas.

North District Water Site Monitoring Program

Site Name Ackland Spring Date 1/20/87

Name of Observer K. Kelson

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair May 1986 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ Frozen ☒ ^{on surface} No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☒ Eleven to 100 ft. ☐ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☐ or light ☒

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

Water was flowing steadily into tank but tank was mostly covered
with 3 in. layer of ice. Ice covered the ground around the overflow
and though I could ^{hear} it coming out the overflow I could not
see it as overflow spout to ground was engaged in ice.

The wash was frozen from bank to bank.

North District Water Site Monitoring Program

Site Name Ackland Spring Date 2/17/87

Name of Observer K. Kehler, J.

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 5/86 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

Still some ice in tank but much less than previous month
The wash was melting also with much less ice cover than the
past month.

North District Water Site Monitoring Program

Site Name Arkland Spring Date 3/12/87

Name of Observer K. Kehue

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 5/86 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

About 20 head of stock seen within 2 miles of Spring

North District Water Site Monitoring Program

Site Name Ackland Spring Date April 25, 1987

Name of Observer K. Kebner

Spring ☒ Seep ☒ Reservoir ☐ Creek ☐

Developed ☐ Undeveloped ☐

If developed, last renovation or repair 5/86 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties deer

Area shows no obvious signs of useage ☐

Observations and Comments

livestock, using this spring with regularity - 16 head observed

North District Water Site Monitoring Program

Site Name Oakland Spring Date May 29

Name of Observer K. Kehrer

Spring ☒ Seep ☒ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 5/86 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

North District Water Site Monitoring Program

Site Name Ackland Spring Date 11/15/87

Name of Observer _____

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 5/86 by Pace Ranches

Character of Water

Standing ☐ Flowing ☒ ^{brky} Frozen ☐ No water in evidence ☐

If flowing, for how far? ^{not filling trough} Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☒

Observations and Comments

diversion dam used to protect collection box has broken
and water/silt have filled in over collection box and
around tanks - The box is probably plugged

Pace notified

North District Water Site Monitoring Program

Site Name Ackland Spring Date 1-20

Name of Observer KK

Spring ☒ Seep ☒ Reservoir ☐ Creek ☐

Developed ☐ Undeveloped ☐

If developed, last renovation or repair 11/87 by Pace Ranches

Character of Water

Standing ☐ Flowing ☐ Frozen ☐ No water in evidence ☒

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☐

Water is clear ☐ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties

Area shows no obvious signs of useage ☐

Observations and Comments

There is water in the wash but its frozen over - no water
running from the spring development

North District Water Site Monitoring Program

Site Name Bull Spring Date 11/19/86

Name of Observer K. Kehrer

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair Oct. 1986 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

Water runs from buried collection box into tank, then overflows
and runs into wash bottom 30 ft. away

Water is filling tank at about 1 gal. per minute.

North District Water Site Monitoring Program

Site Name Bull Spring Date 12/23/84

Name of Observer K. Heiser

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 10/86 by Bum

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

area seeing heavy use by livestock - despite flow creek water
the livestock prefer the spring water

North District Water Site Monitoring Program

Site Name Bull Spring Date Jan

Name of Observer R. K. Leber

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair Oct. 1986 by BLM

Character of Water

Standing ☐ Flowing ☐ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☐

Water is clear ☐ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

Heavy snow prevented vehicle w/ horse trailer access to the
area. Water should be flowing and I will refer back on after
Feb. observation)

North District Water Site Monitoring Program

Site Name Bull Spring Date 2/25/87

Name of Observer K.K.

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair Oct. 86 by Bum

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

development filling tank at about 1 gal. per minute

* cows moved off S. Desert around Feb 10

North District Water Site Monitoring Program

Site Name Bull Spring Date March 21, 1987

Name of Observer K. Kahan

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 10/86 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

* Area shows visible signs of livestock use ☒ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties Bird

Area shows no obvious signs of useage ☐

Observations and Comments

* cows have been off S. Desert for about 5 weeks

North District Water Site Monitoring Program

Site Name Bull Spring Date April 84

Name of Observer K. Kehren

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 10/86 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Usage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties bird life

Small mammals

Area shows no obvious signs of useage ☐

Observations and Comments

*livestock use is from several months previous)

[illegible]

North District Water Site Monitoring Program

Site Name Bull Spring Date May 21, 1987

Name of Observer K. Kehrer

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 10/86 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☐

Observations and Comments

* livestock use several months old

North District Water Site Monitoring Program

Site Name Bull Spring Date 11/20

Name of Observer RK

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 10/84 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☒ or light ☐ *but several months old*

Area shows visible signs of wildlife use ☒ If so, what varieties coyote - 2 sets of tracks

Area shows no obvious signs of useage ☐

Observations and Comments

BLM burned all the post and rails at site
+ post hole digger & shovel

North District Water Site Monitoring Program

Site Name Bull Springs Date 12/31/84

Name of Observer KK

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair _____ by _____

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties _____

lots of coyote + small mammal tracks

Area shows no obvious signs of useage ☐

Observations and Comments

The creek only 25 feet from the tank is
frozen several inches thick - however the tank
has no ice at all and is flowing as usual

North District Water Site Monitoring Program

Site Name Bull Spring Date 1/26/88

Name of Observer KK

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair _____ by _____

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☒ Over 100 ft. ☐

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

coyote - bird

Area shows no obvious signs of useage ☐

Observations and Comments

much ice in and around tanks but still flowing - entire
area covered with snow

North District Water Site Monitoring Program

Site Name South Desert Spring Date 11/15/86

Name of Observer _____

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties small bird
life, deer

Area shows no obvious signs of useage ☐

Observations and Comments

Water is both running through the rusted out tank and down
the draw - It is flowing almost down to the floor of the S. Desert

North District Water Site Monitoring Program

Site Name South Desert Spring Date 12/17/86

Name of Observer K. Kahan

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by BCM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☐ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties

rabbit

Area shows no obvious signs of useage ☐

Observations and Comments

some ice has formed around the source but water continues
to run under it and down the drainage, almost down to the
floor of the desert

North District Water Site Monitoring Program

Site Name South Desert Spring Date 10/20/87

Name of Observer K. Heber

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☒ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ ^{underneath ice.} Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties _____

Area shows no obvious signs of useage ☒

Observations and Comments

Water was only visible well below the source as it was
frozen on the surface from the source to where it drops
steeply over the edge

North District Water Site Monitoring Program

Site Name South Desert Spring Date 2/17/87

Name of Observer R. K. Kuhn

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☒ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties rabbit
bird (unknown variety)

Area shows no obvious signs of useage ☐

Observations and Comments

some snow still in protected areas around spring - much mud
rabbit droppings evident - bird tracks seen in mud

North District Water Site Monitoring Program

Site Name South Desert Spring Date April 1984

Name of Observer K. Kehew

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties rabbit
(cotton tail seen)

Area shows no obvious signs of useage ☐

Observations and Comments

North District Water Site Monitoring Program

Site Name South Desert Spring Date May 1987

Name of Observer Kehue

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☒ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☒ If so, what varieties small

mammals, deer

Area shows no obvious signs of useage ☐

Observations and Comments

*no sign of livestock use in recent years - difficult access
for livestock

North District Water Site Monitoring Program

Site Name South Desert Spring Date 11/87

Name of Observer KR

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by BLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☐ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties

Area shows no obvious signs of useage ☐

Observations and Comments

running clear to desert floor

North District Water Site Monitoring Program

Site Name South Deant Spring Date 2-20/88

Name of Observer KK

Spring ☒ Seep ☐ Reservoir ☐ Creek ☐

Developed ☒ Undeveloped ☐

If developed, last renovation or repair 1965 by SLM

Character of Water

Standing ☐ Flowing ☒ Frozen ☒ No water in evidence ☐

If flowing, for how far? Up to 10 ft. ☐ Eleven to 100 ft. ☐ Over 100 ft. ☒

Water is clear ☒ Cloudy ☐ Manure evident in water ☐

Useage

Area shows visible signs of livestock use ☐ If so, heavy ☐ or light ☐

Area shows visible signs of wildlife use ☐ If so, what varieties

Area shows no obvious signs of useage ☐

Observations and Comments

area is snow covered and there is an ice layer over
the spring area however, water can be heard running
under the snow & ice