

Fish Passage Evaluation Field Log

Stream: Nfk of Deer Cr rock check dams

Road # n/a Passage ID: _____

Coordinates: Includes 7 rock check dams. Coordinates for lowest and highest given but all are listed at the end of this data sheet.

Lowest: Lat 44° 11.342 Long 119° 19.428

Highest: Lat 44° 11.413 Long 119° 19.216

Date: July 22, 2016 Crew: Neal

General

Type: Culvert | Irrigation | **Other Dam** | Natural

Rating: **RED** | GREY | GREEN

Fish bearing: No | below only | **above** | potentially **Impassable** | adults only | juveniles | meets criteria

Water Velocity:

Above: 13.5 ft / 27.3 seconds = 0.5 fps

Below: 18.3 ft / 14.2 seconds = 1.3 fps

Stream Substrate size: 0.5 mm (very fine ash with little to no gravel seen.)

Stream Slope

Above: rise 0.29 ft / run 24.2 ft = 1.2 %

Below: rise 0.68 ft / run 27.0 ft = 2.5 %

Bankfull Width/Active Channel Width

Bankfull Width : varies from 0.7 ft to 55.0 ft

Bankfull cannot be measured because stream is ponded behind each check dam and much wider than it should be. Stream bankfull width should be about 2.3 ft through this reach.

Road Width: n/a ft

No roads cross any of these check dams

Check dam Width: Each check dam appears to be about 30 ft wide and keyed into each bank about 8 ft

Wildlife

Beaver Presence: Yes | **No** No beaver have used the ponds or built dams across the rock dams

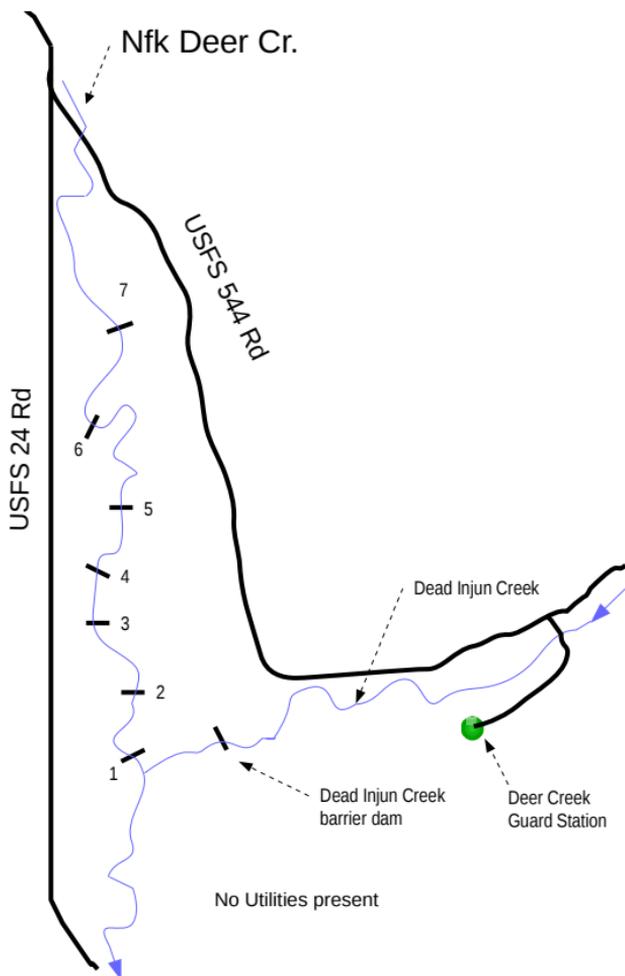
Each dam is listed below starting with # 1 at the downstream most to # 7 at the upstream end. There is also a metal flow measuring device at the top of the uppermost dam.

Dam Number	Coordinates		Passage status
1	N 44° 11.342	W 119° 19.348	passable
2	N 44° 11.360	W 119° 19.393	passable
3	N 44° 11.379	W 119° 19.363	passable
4	N 44° 11.383	W 119° 19.328	passable
5	N 44° 11.380	W 119° 19.289	impassable
6	N 44° 11.410	W 119° 19.249	impassable
7	N 44° 11.413	W 119° 19.216	impassable
Metal flow measuring device	Located at top of dam 7		passable

Notes: These check dams were installed in the 1970's to arrest channel incision and restore a severely degraded meadow. It was assumed the ponds behind them would fill with sediment within a few years and fish passage would be restored. Unfortunately the

dams are porous to water, stopped all sediment flow and remain barriers to fish movement during all but the highest flows. Corrections need to be made in the form of sealing the face and the spillway of each impassable dam. Or the alternative of digging a new stream channel around them and using the excavated material to cover the dams. They are located in, and block access to, some of the best summer rearing habitat in Deer Creek and Dead Injun Creek.

Sketch





Nfk of Deer Cr check dam #6



Nfk of Deer Cr check dam #7 with flow weir