

Salina Creek -

Channel Erosion

Main Creek.

Tributaries - cuyt.

Taylor Flats - 5,812,116.24 cu.ft.

421,341.76

Water Hollow

302,592.00 cu.ft.

5,065,728.00

← stores wash.

Gooseberry Cr.

8,571,504.76 cu.ft. ✓

0

Soldier Forks

15,894,984.56 cu.ft. ✓

5,555,444.44

~~365 AF~~

(160)

1946 $\frac{160}{50} = 3$

~~12 AF~~

Salina Cr. (upper)

13,297,599.28 cu.ft. ✓

0

~~305 AF~~

$\frac{420}{50} = 8$

Meadow Cr.

56,275,792.16 cu.ft. ✓

2,017,373.68

~~1290 AF~~

Salina (lower)

78,344,448.00 cu.ft. ✓

0

~~1800 AF~~

Total -

178,499,037 - cu.ft.

13,059,888 -

191,558,925 -

43560) 4,097.77 ac-ft. 299.81 ac-ft. 4,397.59 ⁸ ac-ft.

Drainage Areas over 8 sq.mi. = (4000 ^{OK} ac-ft)

Unsurveyed Channels -

Drainage Area	Length - mi.	Aver. X-Section sq. ft.	Volume cu. ft.
over 100 sq.mi.	19-44.8 = 4.2	1515	33,509,006
8 to 100	43-18 = 25	1200	158,500,000
4 to 8	35-7 = 28	810	90,000,000
2 to 4	48-9.2 = 38.8	200	40,800,000
			322,800,000 = 7400 ac-ft.

916 measured 1946

(4400 ac-ft)

Annual = $\frac{4916}{50} = 100$ ac-ft

	June. ↓	Reading	sq. ft.	in.	sq. ft. x in.
Salina Cr. -	1	1.74	1392	1.0	1392.0
Spring Aug. (up.)	2	1.53	1308	4.6	6016.8
(1 to 20,000) June →	3	.89	712	8	569.6
Tot. main cr.				13.6	7978.4
Meadow Cr.	5	.53	424	3.5	1484.0
	2	.40	320	(0.1)	32.0
(1 to 20,000)	3	-		1.2	24.0
	4	-		0.4	22.8
	5	.81	648	2.9	1867.6
T 6	.29	232	(0.5)	116.0	
	7	.80	640	2.5	1500.0
T 8	.08	64	(1.1)	70.4	
	9	.70	560	3.9	3322.8
	10	-		1.60	
T 11	.34	272	(1)	272.0	
	12	1.43	1144	1.4	4272.8
	13	6.20	4960	1.6	6214.4
T 14	.45	360	(2.0)	720.0	
	15	3.51	2808	1.4	3410.4
	16	2.58	2064	8.7	11692.8
Tot. main cr				32.2	35764.8
Tot. Tribs -				32.2	1210.4

	Reading	sq. ft.	in.	sq. ft. x in.
Salina.	1	3.46	2768	
(Low)	2	-		
(5.5" = mi)	3	2.28	1824	7.4
960' = 1"	4	1.72	1376	.7
	5	-		
	6	1.23	984	11.5
	7	-		
	8	.78	624	81.7
Tot. main cr.				81.7
	5	1.576		
Aver =	1515			
Total Distances:				
	in	mi		
Taylor -	9.8	3.09	✓	
Water -	8.8	1.60		
Gooby -	15.4	4.88	✓	
Soldier -	33.5	10.58	✓	
Salina (up.)	13.6	4.29	✓	
Meadow	32.2	10.17	✓	
Salina (low)	81.7	14.85	✓	
Total	49.44			

800 sq. ft. per sq. in.

{ 1" = 1666.7' = 0.3157 mi.
5 1/2" = 1 mi

	Reading	sq. ft.		X mi
Taylor Flats - 6 → 1	0.39	432 272	0.1 5.0	27.2 2160.0
(1 to 20000) T Int → 2	.23	184	(0.2)	36.8
T Int → 3	.41	328	(0.3)	98.4
T Int → 4	.21	168	(0.5)	84.0
T Int → 5	.14	112	(0.3)	33.6
↗ 6	.74	460 592	1.4	644.0
↗ 7	.41	328	2.0	656.0
June. Tot. main Cr.			Tot.	3487.2
" Trib -			9.8	252.8
Watertallow - 1	.10	80	1.6	128.0
(5 1/2" = 1 mi)		468		
2	1.07	856	0.4	187.2
Steve's Wash S: 4.5%	.97	776	6.8	5276.8
Tot. main Cr.			Tot.	315.2
" Tribs -			8.8	5276.8
Gooseberry Cr. 1	.21	168	3.5	588.0
(1 to 20000)			3.4	571.2
2	.33	216	2.6	561.6
3	1.12	580 896	5.9	3422.0
Tot main Cr.			Tot.	5142.8
" Trib -			15.4	0
Soldier Fork - 30 → 7	2.82	1876 2256	0.1 2.6	187.6
(1 to 20000) June → 29	1.87	1496	3.1	4637.6
25 →		100 184	1.0	100.0
20 → 28	.21	168	0.9	165.6
27	.03	24		
T June → 26	.04	32	(.05)	1.6
27 → 25	.04	28 32	2.5	70.0
T 0 →			(0.5)	16.0
T 24	.04	32 40	(1.0)	40.0

	Reading			
Soldier Fork T 23	.06	124 48	(0.1)	12.4
30 → 22	.14	684 112	4.6	3146.4
11 → 21	.25	128 200	1.2	153.6
↗ 20	.25	240 200	1.0	240.0
21 → 19	.35	240 280	1.9	456.0
0 →		148	(.5)	74.0
together T { 18	.12	96	(.5)	48.0
21 → 17	.25	200 200	1.9	380.0
↗ 16	.11	76 88	.10	7.6
↗ 15	.08	64	.05	3.2
Trib. ↗ 14	.07	60 56	.05	3.0
↗ 13	.08	60 64	1.05	63.0
14 → 12	.43	200 344	.60	120.0
22 → 11	.07	84 56	1.50	126.0
↗ 10	.03	24		
↗ 9	.09	48 72	1.4	67.2
↗ 8	.02	44 16	1.5	66.0
0 →		320	1.4	96.0
↗ 7	.50	400	0.3	560.0
Trib. 8 → 6	.30	128 240	0.4	51.2
3 → 5	.44	516 352	2.0	1032.0
↗ 4	.64	432 512	1.1	475.2
↗ 3	.85	556 680	0.3	166.8
↗ 2	.54	488 432	0.4	195.2
June → 1	.68	544	2.02	1088.8
Tot. main Cr.				19536.8
" Tribs -				3333.2

26 X 26 X 20

9 X 9 X 27

17 X 15 X 10

23 X 28 X 11

24 X 15 X 12

25 X 15 X 10

13 X 11 X 23 = 343#

16 X 15 X 4" = 76#

20 X 20 X 10 = 416#

50 X 26 X 9

21 X 32 X 12

18 X 14 X 3

29 X 13 X 10

25 X 18 X 10

28 X 17 X 11

26 X 26 X 12

23 X 10 X 8

19 X 20 X 10

lbs
~~134~~
~~76~~

134

157

129

273

81

117

100

125

127

201

180

107

280

117

167

Key Creek

Reels. 274.7 cu ft 49,448 lbs @ 180#/cu ft.
827.7 " 70,355 lbs soil @ 85#

70' X 3' X 5'
width 4-8' deep.

1102.4 cu. ft Trench.

10, 13, 12, 11050 cm of snow

85% " 10' 322' 1P2 200' 822' #
 100% 510' 510' 1P2 6120 #

10' 150' 10

53' 110' 8

51' 150' 15

58' 112' 11

52' 112' 10

56' 113' 10

18' 114' 8

51' 135' 15

20' 150' 10

50' 150' 10 = 410 #

10' 112' 10 = 28 #

13' 111' 53 = 343 #

52' 112' 10

51' 112' 15

53' 112' 11

15' 112' 10

15' 112' 10

50' 150' 10

101
 111
 580
 101
 120
 501
 151
 152
 100
 111
 150
 121
 124

Fig - Snow Storage in Forest and Open, Utah, 1999-50

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