

**WATER MASTERS**

**DAILY**

**RECORDS**

**FOR 2011 SEASON**

**Connie Brandau, Water Master**

**G. M. Penny, Assistant Water master**

**REYNOLDS CREEK 57R**

**OWYHEE COUNTY, IDAHO**

RECEIVED

FEB 08 2012

WATER RESOURCES  
WESTERN REGION

35 PA  
-134W

	A	B	C	D	E	F
1	57 R WATER MEASUREMENT BY:		<i>98</i>	DATE <i>5/13/11</i>	MILEAGE	<i>79</i>
2						Comments:
3	Ditch	Type of Weir	x Measurement =	CFS		
4						
5	A - Dobson	No weir	$\emptyset$	$\emptyset$		
6						
7	B - High Ditch	2' Parshall	$\emptyset$	$\emptyset$		
8						
9	C - Jaca West	9" Parshall	<i>9 1/2"</i>	<i>2.14</i>		
10	E - Jaca East	9" Parshall	<i>?</i>	$\emptyset$		
11						
12	F - Community Ditch	2' Parshall	<i>17"</i>	<i>13.70</i>		
13	<i>PIPE (OLD CAT)</i>		<i>11"</i>	<i>4.20</i>	<i>EST</i>	
14	D - Bench Ditch	1' Parshall	<i>?</i>			
15	G - Timothy Field	9" Parshall	<i>15"</i>	<i>4.32</i>		
16						
17	H - Ram Field	1' Parshall	<i>?</i>	$\emptyset$	<i>EST</i>	
18	<i>PIKE (EX OLD HOUSE)</i>		$\emptyset$	$\emptyset$		
19	I - 7H Murphy Rd Pipe	9" Parshall	<i>17"</i>			
20	J - 7H Old Barn	9" Parshall	<i>8"</i>	<i>5.20</i>	<i>TO NEXT FULL COUNT</i>	
21	K - 7H Bridge	9" Parshall	$\emptyset$	$\emptyset$		
22						
23	L - ZX East of House	None	<i>?</i>	$\emptyset$		
24	M - ZX Below Barn	9" Parshall	$\emptyset$	$\emptyset$		
25						
26	N - Junayo East	2' Parshall	<i>16 1/2"</i>	<i>13.00</i>		
27						
28	O - ZX Packrat	9" Parshall	$\emptyset$	$\emptyset$		
29						
30	P - Junayo West	2' Parshall	<i>15"</i>	<i>11.30</i>		
31				<i>11.50</i>		
32	Q - Cottle Creek	14" Rec Cont	<i>Est 50' - 75'</i>			
33						
34	R - Salmon Creek	<i>Bill</i>	<i>est 30-40' / main 80' / inlet 30-40'</i>			
35						
36	Storage-into Macks Crk	7' board/RC	<i>2"</i>	<i>.70</i>		
37	Storage-into Cottle Crk	3' board/RC	<i>2"</i>	<i>.70</i>		
38	Storage-out of Macks Crk	3' board/RC	<i>2"</i>	<i>.70</i>		
39						
40	S - W7 East	3' Cipoletti	$\emptyset$	$\emptyset$		
41	T - W7 West	3' Cipoletti	<i>5"</i>	<i>3.11</i>		
42						
43	U - "RID Lateral	7' Cipoletti	<i>11"</i>	<i>20.62</i>		
44						
45	V - GP Horse Pasture	3' Cipoletti	$\emptyset$	$\emptyset$		
46						
47	W - West Reynolds La	3" Pipe	<i>14"</i>	<i>7.00</i>	<i>EST</i>	
48						
49	X - Henry's Ditch	3' Pipe	<i>11" inside</i>	<i>17' out</i>		
50				<i>5.80</i>		
51	Y - Boise Trust Ditch	3' Cipoletti	<i>6 1/2"</i>	<i>6.80</i>		
52						
53	Z - "Last Ditch	4' Cipoletti	<i>6"</i>	<i>4.69</i>		
54						
55	Total CFS					

106.60

THRU PRIORITY  
- 1970s

6/8/2011  
 G.M. Rump

GR

miles: 35 Page 1/4  
 43-4/1000

	A	B	C	D	E	F
1	57 R WATER MEASUREMENT BY:			DATE: 6/8	MILEAGE 78	
2						Comments:
3	Ditch	Type of Weir	x Measurement =	CFS		
4						
5	A - Dobson	No weir	?			
6						
7	B - High Ditch	2' Parshall	10 1/2 *	6.44		
8						
9	C - Jaca West	9" Parshall	9 1/2"	2.14		
10	E - Jaca East	9" Parshall	?	2.14	Cat.	
11						
12	F - Community Ditch	2' Parshall	30"	16.00	Cat / to high in chart	
13	OLD CAT PIPE					
14	D - Bench Ditch	1' Parshall	6 1/2"	2.00	Cat	
15	G - Timothy Field	9" Parshall	14"	3.85		
16						
17	H - Ram Field	1' Parshall				
18	PIPE REX		21" ?	8.00	Cat	
19	I - 7H Murphy Rd Pipe	9" Parshall	?	?		
20	J - 7H Old Barn	9" Parshall	7 1/2"	1.50		
21	K - 7H Bridge	9" Parshall	9 1/2"	2.14		
22						
23	L - ZX East of House	None	?	?		
24	M - ZX Below Barn	9" Parshall	?	?		
25						
26	N - Junayo East	2' Parshall	19"	16.00	Cat - to high for chart	
27						
28	O - ZX Packrat	9" Parshall	8 1/2"	1.82	Cat	
29						
30	P - Junayo West	2' Parshall	15"	11.30	Cat 30" in	
31						
32	Q - Cottle Creek	14" Rec Cont	est per Tom 30"	1.60	est per dates	
33						
34	R - Salmon Creek		est per Bill 30" W.S. side			
35						
36	Storage-into Macks Crk	7' board/RC		1.20	- EST	
37	Storage-into Cottle Crk	3' board/RC	1 1/2"	1.00	- EST	
38	Storage-out of Macks Crk	3' board/RC	No weir		per wood chart start	
39					est per survey on	
40	S - W7 East	3' Cipoletti	?	?		
41	T - W7 West	3' Cipoletti	?	?		
42						
43	U - "RID Lateral	7' Cipoletti	7"	10.27		
44						
45	V - GP Horse Pasture	3' Cipoletti	?	?		
46						
47	W - West Reynolds Lat	3" Pipe	14 1/2"	4.05		
48						
49	X - Henry's Ditch	3' Pipe	16"	3.07		
50						
51	Y - Boise Trust Ditch	4' Cipoletti	4 1/2"	3.75		
52						
53	Z - "Last Ditch	4' Cipoletti	7 1/2"	6.47		
54						
55	Total CFS			106.34		

BRIDGE OUT →  
 CAREFUL TO  
 #CROSS TO  
 CROSS  
 IN BEST  
 PLACES →

No WEIR  
 just 60"  
 5" imp...  
 18"  
 6/9

G

30 PU  
17 WER

	A	B	C	D	E	F
1	57 R WATER MEASUREMENT BY:			DATE	MILEAGE	
2				6/24	73	Comments:
3	Ditch	Type of Weir	x Measurement =	CFS		
5	A - Dobson	No weir	Ø	Ø		
7	B - High Ditch	2' Parshall	12"	8.00		
9	C - Jaca West	9" Parshall	Ø 3 1/2"	.38		
10	E - Jaca East	9" Parshall	Ø	Ø		
12	F - Community Ditch	2' Parshall	17 1/2"	14.40		
13	2" PIPE OLD CAT			10"	4.00	EST
14	D - Bench Ditch	1' Parshall				
15	G - Timothy Field	9" Parshall	10"	231		
17	H - Ram Field	1' Parshall	?			
18	PIPE UNDER RP			7 1/2" 19"	6.48	EST
19	I - 7H Murphy Road Pipe	9" Parshall	7 1/2"	1.50		
20	J - 7H Old Barn	9" Parshall	6 1/2"	1.20		
21	K - 7H Bridge	9" Parshall	6 1/2"	1.20		
23	L - ZX East of House	None	?	Ø		
24	M - ZX Below Barn	9" Parshall	Ø	Ø		
26	N - Junayo East	2' Parshall	16 1/2"	13.00		Biggest pipe above weir 4"
28	O - ZX Packrat	9" Parshall	3"			no weir measure small amount in small pipe
30	P - Junayo West	2' Parshall	13 1/2"	9.27		Test 30" - 30" down cr
32	Q - Cottle Creek	14" Rec Cont	Ø dry	Ø		no water in ditch above Cottle cr inlet
34	R - Salmon Creek		50" NO, est 30"	Ø		
36	Storage-into Macks Crk	7' board/RC	Ø	1.20	EST	
37	Storage-into Cottle Crk	3' board/RC	1/2"	.20	E	
38	Storage-out of Macks Crk	3' board/RC	1/2"	Ø		
40	S - W7 East	3' Cipoletti	Ø	Ø		
41	T - W7 West	3' Cipoletti	Ø 4 1/5"	2.07		
43	U - "RID Lateral	7' Cipoletti	7 1/2"	10.80		
45	V - GP Horse Pasture	3' Cipoletti	est 80"	1.60	E	
47	W - West Reynolds La	3" Pipe	12"	2.58		
49	X - Henry's Ditch	3' Pipe	11 1/2"	2.35		
51	Y - Boise Trust Ditch	3" Cipoletti	3 1/2"	5.20		
53	Z - "Last Ditch	4' Cipoletti	8 1/2"	5.99		
55	Total CFS					

93.63

the primary = 59

PU 30  
4 WHC 44

7/12/11

	A	B	C	D	E	F
1	57 R WATER MEASUREMENT BY:			DATE: 6/12	MILEAGE: 74	
2						Comments:
3	Ditch	Type of Weir	x Measurement =	CFS		
4						
5	A - Dobson	No weir	?			
6						
7	B - High Ditch	2' Parshall	8"	4.20		
8						
9	C - Jaca West	9" Parshall	2"	.20		
10	E - Jaca East	9" Parshall	Ø			
11						
12	F - Community Ditch	2' Parshall	7"	3.44		
13						
14	D - Bench Ditch	1' Parshall	8 1/2"	2.38		
15	G - Timothy Field	9" Parshall	Ø			
16						
17	H - Ram Field	1' Parshall	4"	.74		
18	PIPE ?		9"			
19	I - 7H Murphy Road Pip	9" Parshall	Ø			
20	J - 7H Old Barn	9" Parshall	6"	1.06		
21	K - 7H Bridge	9" Parshall	3"			
22				.37		
23	L - ZX East of House	None	Ø			
24	M - ZX Below Barn	9" Parshall	Ø			
25						
26	N - Junayo East	2' Parshall	Ø			
27						
28	O - ZX Packrat	9" Parshall	Ø			
29						
30	P - Junayo West	2' Parshall	Ø			
31						
32	Q - Cottle Creek	14" Rec Cont	Ø			
33			No 25 - 30" est			
34	R - Salmon Creek		50			
35						
36	Storage-into Macks Crk	7" board/RC	1" 1/2"	No WEIR		
37	Storage-into Cottle Crk	3" board/RC	1"	.20	E	
38	Storage-out of Macks	3" board/RC	1"	.20	E	
39						
40	S - W7 East	3' Cipoletti	Ø			
41	T - W7 West	3' Cipoletti	3 1/2"	1.56		
42						
43	U - "RID Lateral	7' Cipoletti	1 1/2"	1.10		
44						
45	V - GP Horse Pasture	3' Cipoletti	80" est	1.60		Est
46						
47	W - West Reynolds La	3" Pipe	Ø			
48						
49	X - Henry's Ditch	3' Pipe	13"	3.12		
50						
51	Y - Boise Trust Ditch	4" Cipoletti	3"	2.09		
52						
53	Z - "Last Ditch	4' Cipoletti	2"	.86		
54						
55	Total CFS					

24.12

the priority  
= 12

8-2-11 Connie Brandau

11<sup>th</sup> - 1<sup>st</sup> lower reach 2PM.

	A	B	C	D	E	F
1	Ditch or Lateral	Used by:	Size & type weir	Depth	CFS	Should be
2						
3	Z - Last ditch	Smith, Young, Goering, DBSI, Johnsto	4 ft cipoletti	3"	<del>1.07</del>	<del>1.00</del>
4	Y - Boise Trust @ V	Young, Snake River Ranch	5 ft cipoletti	3"	1.71	1.00
5	X - Brandau V	Brandau	3 ft pipe	18"	6.62	2.00
6	W - West Reynolds	Muller, Benson, Jaca, DBSI	3 ft pipe	0	0	1.80
7	V - GP horse pasture	Brandau & Penny	3 ft cipoletti	4 1/2"	2.25	1.57
8	U - Reynolds Irr Dist	approx 20 lateral users <i>All to W7</i>	7 ft cipoletti	1 1/2"	1.10	
9	T - W7 west ditch	Brandau	3 ft cipoletti	4"	1.98	2.00
10	S - W7 east ditch	Brandau	3 ft cipoletti	0	0	
11	R - Salmon creek	Boston/Watterson	None	0	0	
12	Q - Cottle creek	Bensons &	12" rectangular cont	0	0	
13	P - Macks creek	Junayo	7 ft 2x6	0	0	
14	P - Macks creek	Junayo storage - out	3 ft rectangular cont	0	0	
15	P - Junayo west side	Junayo	1.5 ft parshall	3 1/2" / .3'	.94	1.96
16	P - Cottle creek	Junayo storage - in	3 ft 2x4	0	0	
17	O - ZX packrat	ZX	9" parshall	0	0	
18	N - Junayo east side	Junayo	2 ft parshall	0	0	4.08 2Y-24
19	M - Below ZX barn	ZX	9" parshall	TO LOW TO MEASURE	EST 10" = 0.20 CFS	
20	L - ZX east side	ZX	none	0	0	
21	K - Wooden Bridge	7hi	9" parshall	0	0	} 1633
22	J - Livery Barn	7hi	9" parshall	4 1/2"	0.70	
23	I - Murphy Road Pipe	7hi	9" parshall	0	0	
24	H - Ram Field	7hi, ZX, Junayo <i>Shed water</i>	1 ft parshall	est. 20 CFS	TO LOW TO MEAS	0.20
25	G - Timothy Field	Hook	1 ft parshall	0	0	
26	F - Community Ditch	CRM-US, 7hi, Hook, Junayo	2 ft parshall	48" = 2 1/2"	2.57	
27	E - Jaca East side	Jaca	9 ft parshall	58" = 2"	1.33	1.14
28	D - Bench Ditch	Hook <i>Damp / just shut off</i>	1 ft parshall	0	0	
29	C - Jaca West side	Jaca	9 ft parshall	0	0	
30	B - High Ditch	7hi & McCabe <i>TURN OFF THIS AM</i>	2 ft parshall	0	0	
31	A - Dobson	7hi	None 9" parshall	4 3/8" = .38'	0.70	.85 7-11 .09 net
32						
33	Totals this date				21.97	21.97

should go thru priority #11

21.97  
21.97  
21.97

146 us  
1.54 us  
1.59 F  
128 dp

Aug 3, 2011

Conrad ~~sewer~~  
Lower Reach of

8/3/11

bank 3/4

	A	B	C	D	E	F
1	Ditch or Lateral	Used by:	Size & type weir	Depth	CFS	Should be
2						
3	Z - Last ditch	Smith, Young, Goering, DBSI, Johnsto	4 ft cipoletti	2.25 in	1.11	
4	Y - Boise Trust @ V	Young, Snake River Ranch	5 ft cipoletti	2.0 in	<del>1.076</del> 1.08	
5	X - Brandau V	Brandau	3 ft pipe	15.0 in	4.37	
6	W - West Reynolds	Muller, Benson, Jaca, DBSI	3 ft pipe			
7	V - GP horse pasture	Brandau & Penny	3 ft cipoletti	2.5 in	0.966	
8	U - Reynolds Irr Dist	approx 20 lateral users	7 ft cipoletti	1.25 in	0.75	
9	T - W7 west ditch	Brandau	3 ft cipoletti	2.5 in	0.966	
10	S - W7 east ditch	Brandau	3 ft cipoletti			
11	R - Salmon creek	Boston/Watterson	None			
12	Q - Cottle creek	Bensons &	12" rectangular cont			
13	P - Macks creek	Junayo	7 ft 2x6			
14	P - Macks creek	Junayo storage - out	3 ft rectangular cont			
15	P - Junayo west side	Junayo	1.5 ft parshall			
16	P - Cottle creek	Junayo storage - in	3 ft 2x4			
17	O - ZX packrat	ZX	9" parshall			
18	N - Junayo east side	Junayo	2 ft parshall			
19	M - Below ZX barn	ZX	9" parshall			
20	L - ZX east side	ZX	none			
21	K - Wooden Bridge	7hi	9" parshall			
22	J - Livery Barn	7hi	9" parshall			
23	I - Murphy Road Pipe	7hi	9" parshall			
24	H - Ram Field	7hi, ZX, Junayo	1 ft parshall			
25	G - Timothy Field	Hook	1 ft parshall			
26	F - Community Ditch	CRM, US, 7hi, Hook, Junayo	2 ft parshall			
27	E - Jaca East side	Jaca	1 ft parshall			
28	D - Bench Ditch	Hook	1 ft parshall			
29	C - Jaca West side	Jaca	1 ft parshall			
30	B - High Ditch	7hi & McCabe	2 ft parshall			
31	A - Dobson	7hi	None			
32						
33	Totals this date					

9.23

.86  
-216  
1.076

0.429  
-108  
-108  
-108

	A	B	C	D	E	F
1	Ditch or Lateral	Used by:	Size & type weir	Depth	CFS	Should be
2						
3	Z - Last ditch	Smith, Young, Goering, DBSI, Johnsto	4 ft cipoletti			
4	Y - Boise Trust @ V	Young, Snake River Ranch	5 ft cipoletti			
5	X - Brandau V	Brandau	3 ft pipe			
6	W - West Reynolds	Muller, Benson, Jaca, DBSI	3 ft pipe			
7	V - GP horse pasture	Brandau & Penny	3 ft cipoletti			
8	U - Reynolds Irr Dist	approx 20 lateral users	7 ft cipoletti			
9	T - W7 west ditch	Brandau	3 ft cipoletti			
10	S - W7 east ditch	Brandau	3 ft cipoletti			
11	R - Salmon creek	Boston/Watterson	None			
12	Q - Cottle creek	Bensons &	12" rectangular cont			
13	P - Macks creek	Junayo	7 ft 2x6			
14	P - Macks creek	Junayo storage - out	3 ft rectangular cont			
15	P - Junayo west side	Junayo	1.5 ft parshall			
16	P - Cottle creek	Junayo storage - in	3 ft 2x4			
17	O - ZX packrat	ZX	9" parshall			
18	N - Junayo east side	Junayo	2 ft parshall			
19	M - Below ZX barn	ZX	9" parshall			
20	L - ZX east side	ZX	none			
21	K - Wooden Bridge	7hi	9" parshall			
22	J - Livery Barn	7hi	9" parshall			
23	I - Murphy Road Pipe	7hi	9" parshall			
24	H - Ram Field	7hi, ZX, Junayo	1 ft parshall			
25	G - Timothy Field	Hook	1 ft parshall			
26	F - Community Ditch	CRM, US, 7hi, Hook, Junayo	2 ft parshall			
27	E - Jaca East side	Jaca	1 ft parshall			
28	D - Bench Ditch	Hook	1 ft parshall			
29	C - Jaca West side	Jaca	1 ft parshall			
30	B - High Ditch	7hi & McCabe	2 ft parshall			
31	A - Dobson	7hi	None			
32						
33	Totals this date					



Reynolds Creek Dist. 57R  
2011 Irrigation Season

Ditch Name	Ditch total 2011-05-13	Ditch total 2011-06-08	Ditch total 2011-06-24	Ditch total 2011-07-11	Ditch total 2011-08-02	Ditch total 2011-08-03
Thru priority #	106.60	106.34	93.63	24.12	21.97	9.23
Dobson High Ditch		6.44	8.00	4.20	0.70	
Jaca west	2.14	2.14	0.28	0.20		
Jaca east		2.14			1.33	
Community	13.70	16.00	14.40	3.44	2.57	
Bench est. Timothy Ram Field	4.40 4.32	2.00 3.85	4.00 2.31	2.38		
		8.00	6.48	0.74	0.20	
Murphy Rd Pipe Old Barn Bridge 7-Hi ZX east ZX barn			1.50 1.20			
	5.20	1.50	1.20	1.06	0.70	
		2.14	1.20	0.37		
					0.20	
Junayo east ZX packrat	13.00	16.00	13.00			
		1.82				
Junayo west	11.30	11.30	9.27		0.94	
Cottle Creek Salmon Crk	1.50 0.80	0.60 0.60		0.60		
Macks Crk to storage Cottle Crk to storage	1.50 0.70	1.20 1.00	1.20 0.20	0.40 0.20		
Out of Storage from Macks Res				0.20		



Reynolds Creek Dist. 57R  
2011 Irrigation Season

Water User	Total measured for this Dist 57R patron	CFS used 13-May-11 #60	CFS used 8-Jun-11 #60	CFS used 24-Jun-11 #59	CFS used 12-Jul-11 #12	CFS used 2-Aug-11 #11	CFS used 3-Aug-11
	361.89	106.60	106.34	93.63	24.12	21.97	9.23
Totals	361.89	106.60	106.34	93.63	24.12	21.97	9.23
Seven High-Dobson	0.70					0.70	
Seven High-high ditch	18.25		6.31	7.87	4.07		
McCabe-high ditch	0.39		0.13	0.13	0.13		
Jaca-west	4.76	2.14	2.14	0.28	0.20		
Jaca-east	3.47		2.14			1.33	
Hook-community	16.16	4.37	5.41	3.81		2.57	
Junayo-community	6.64	1.64	1.64	1.64	1.72		
CMR-community	12.10	2.62	3.88	3.88	1.72		
Seven Hi-community	15.21	5.07	5.07	5.07			
Hook-bench	12.78	4.40	2.00	4.00	2.38		
Hook-timothy	10.48	4.32	3.85	2.31			
Junayo-ram ditch	5.77		2.67	2.16	0.74	0.20	
ZX Romero-ram ditch	4.83		2.67	2.16			
Seven High-ram ditch	4.82		2.66	2.16			
Seven High-murphy rd	1.50			1.50			
Seven High-old barn	9.66	5.20	1.50	1.20	1.06	0.70	
Seven High-bridge	3.71		2.14	1.20	0.37		
ZX Romero-east	-						
ZX Romero-barn	0.20					0.20	
Junayo-east	42.00	13.00	16.00	13.00			
ZX Romero-packrat	1.82		1.82				
Junayo-west	32.81	11.30	11.30	9.27		0.94	
Benson, Tom-cattle	2.10	1.50	0.60				
Boston-Salmon	2.00	0.80	0.60		0.60		
Junayo-Macks to storage	4.30	1.50	1.20	1.20	0.40		
Junayo-Cottle to storage	2.10	0.70	1.00	0.20	0.20		
Junayo-out of Macks stora	0.20				0.20		

Reynolds Creek Dist. 57R  
2011 Irrigation Season

Brandau W7-east	-							
Brandau W7-west	9.68	3.11		2.07	1.56	1.98	0.96	
Brandau W7-RID	4.40	2.40	2.00					
Brandau GP-RID	7.66	1.57	1.57	1.57	1.10	1.10	0.75	
Young-Givens-RID	6.86	3.54	1.66	1.66				
Young- Keith-RID	2.40	0.80	0.80	0.80				
McMahan-RID	4.50	1.50	1.50	1.50				
F&M Cattle-RID	8.99	4.38	1.04	3.57				
Chester-RID	4.80	1.60	1.60	1.60				
Young-Tincher-RID	0.30	0.10	0.10	0.10				
Agenbroad Lat-RID	0.78	0.78						
Earll-RID	0.12	0.12						
Snake River FarmS-RID	0.32	0.32						
Frisbie-RID	1.01	1.01						
Heart/Smith-RID	0.98	0.98						
Sanchez-RID	0.72	0.72						
Seven High-RID	0.60	0.60						
Brandau V-RID	0.20	0.20						
Brandau GP	6.41			1.60	1.60	2.25	0.96	
Muller, J.-WR	5.26	1.66	1.80	1.80				
Benson, Jerry-WR	5.63	2.60	2.25	0.78				
SR Valley/A Benson-WR	2.74	2.74						
Jaca-WR	-							
Brandau V	27.35	5.82	5.07	2.35	3.12	6.62	4.37	
Young-Cereda-BT	17.03	4.20	3.75	4.20	2.09	1.71	1.08	
Snake River Farm-BT	3.60	2.60		1.00				
Smith, K-Muller-LD	3.60	0.60	0.60	0.60	0.60	0.60	0.60	
Young-Hoagland-LD	6.04	1.40	1.40	1.40	0.26	1.07	0.51	
Goering-LD	2.40	0.80	0.80	0.80				
SR Valley/Hook-LD	2.70	0.90	0.90	0.90				
Johnston-LD	6.05	0.99	2.77	2.29				