Appendix H

Wilder 2D Time Series Habitat Duration

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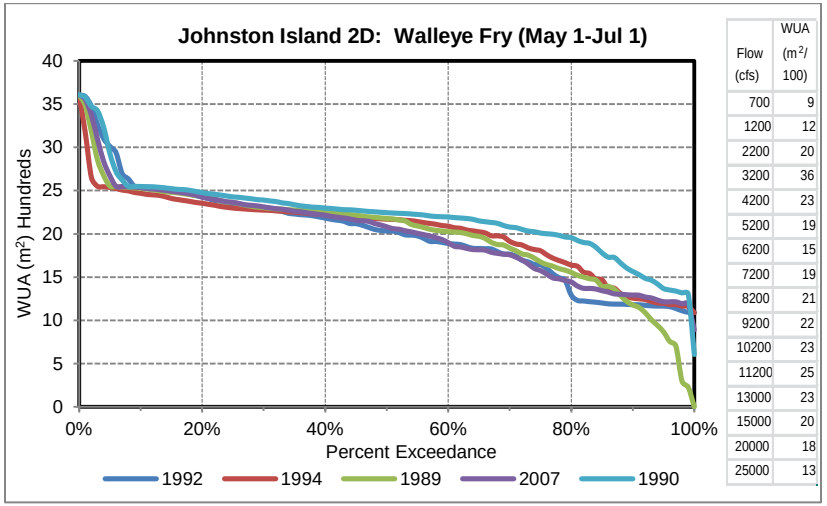
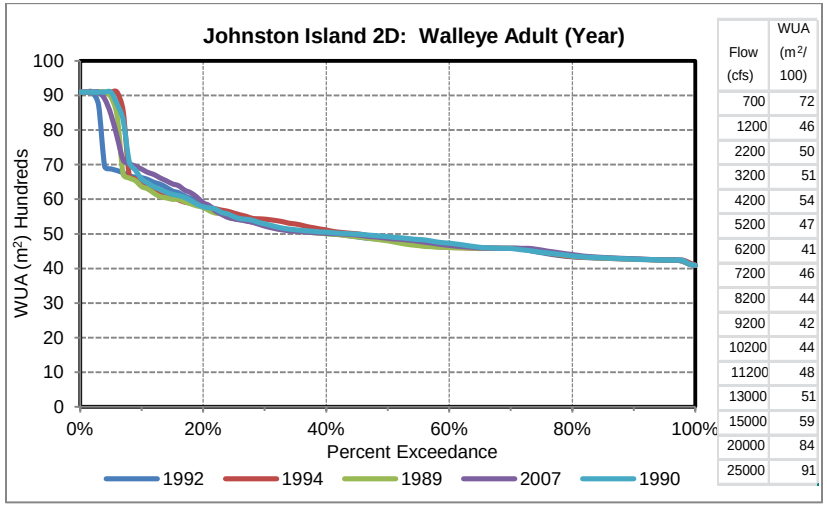
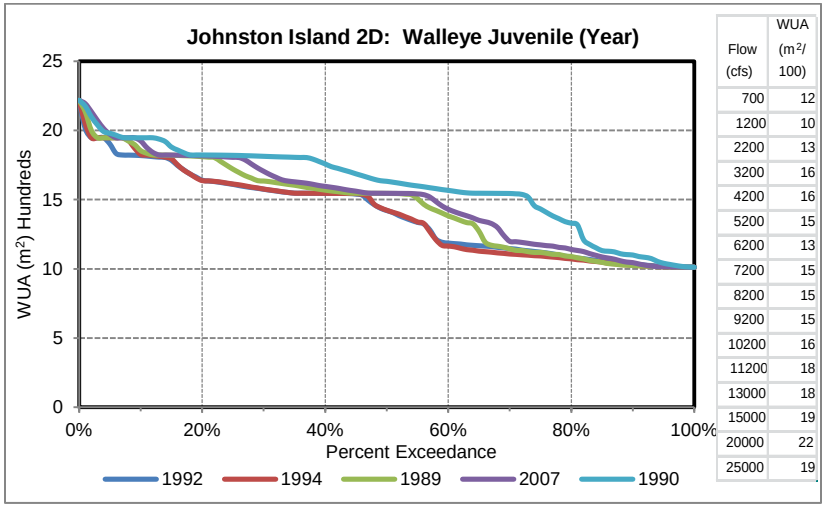


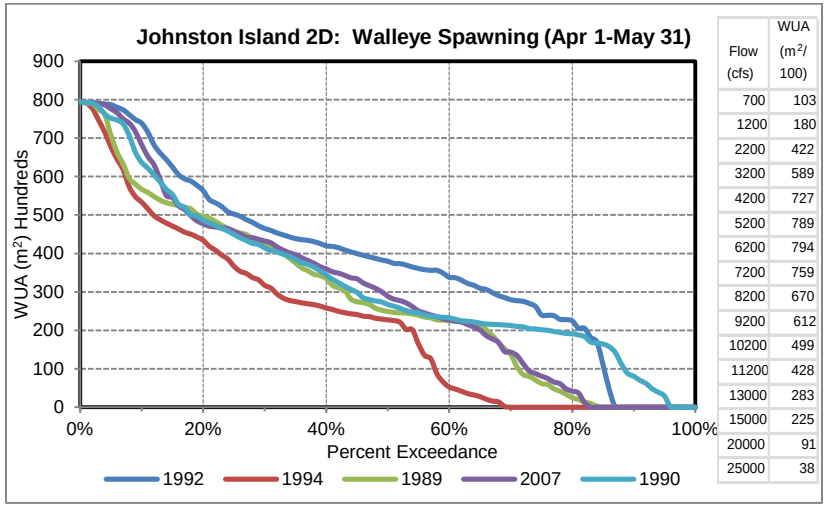
Flow (cfs)	WUA (m2/100)
700	9
1200	12
2200	20
3200	36
4200	23
5200	19
6200	15
7200	19
8200	21
9200	22
10200	23
11200	25
13000	23
15000	20
20000	18
25000	13



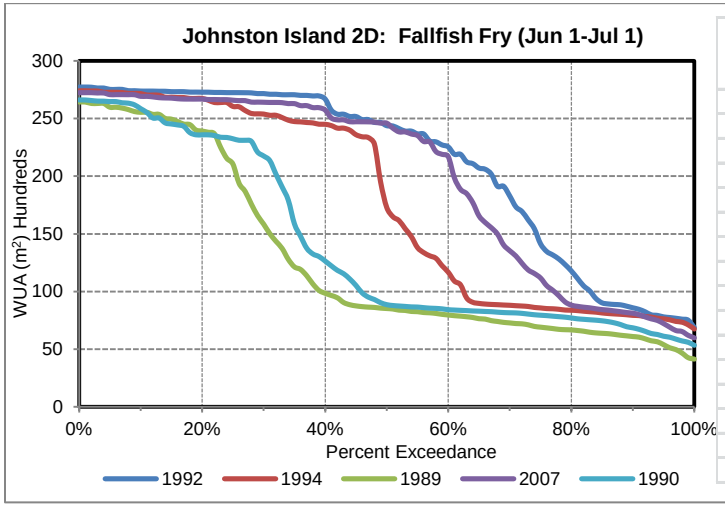
Flow (cfs)	WUA (m2/100)
700	72
1200	46
2200	50
3200	51
4200	54
5200	47
6200	41
7200	46
8200	44
9200	42
10200	44
11200	48
13000	51
15000	59
20000	84
25000	91



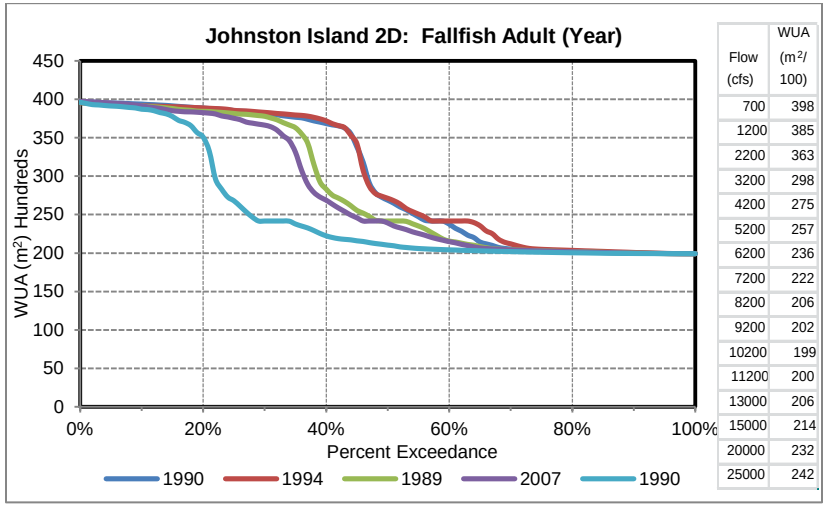
Flow (cfs)	WUA (m2/100)
700	12
1200	10
2200	13
3200	16
4200	16
5200	15
6200	13
7200	15
8200	15
9200	15
10200	16
11200	18
13000	18
15000	19
20000	22
25000	19



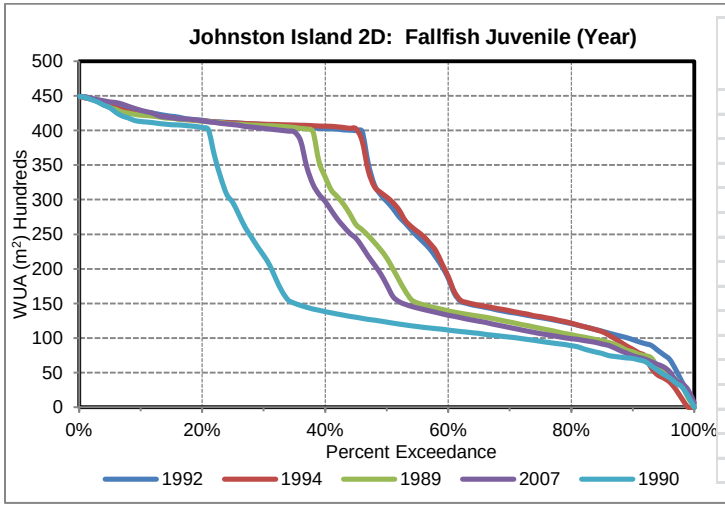
Flow (cfs)	WUA (m2/100)
700	103
1200	180
2200	422
3200	589
4200	727
5200	789
6200	794
7200	759
8200	670
9200	612
10200	499
11200	428
13000	283
15000	225
20000	91
25000	38



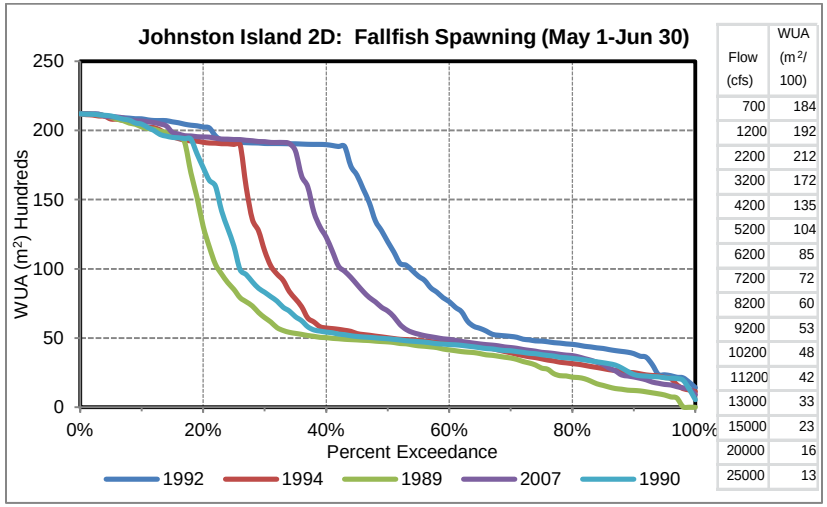
Flow (cfs)	WUA (m²/100)
700	280
1200	269
2200	239
3200	191
4200	165
5200	138
6200	119
7200	103
8200	91
9200	86
10200	79
11200	71
13000	58
15000	44
20000	31
25000	24



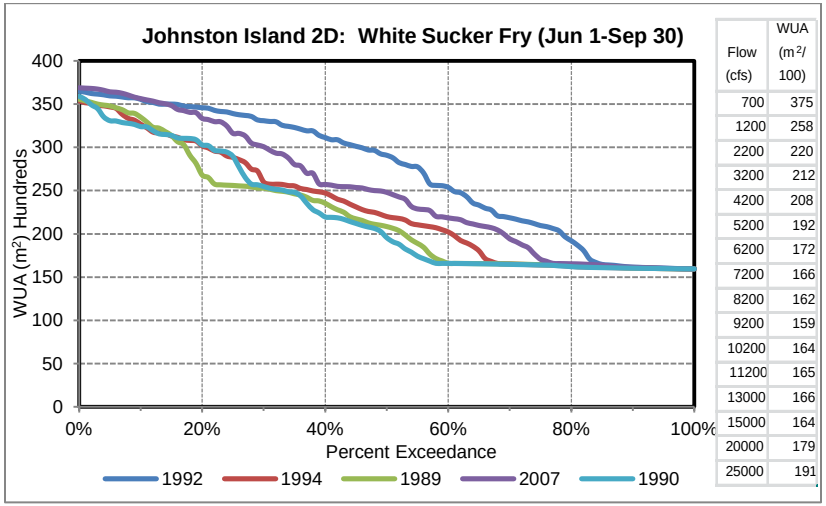
Flow (cfs)	WUA (m²/100)
700	398
1200	385
2200	363
3200	298
4200	275
5200	257
6200	236
7200	222
8200	206
9200	202
10200	199
11200	200
13000	206
15000	214
20000	232
25000	242



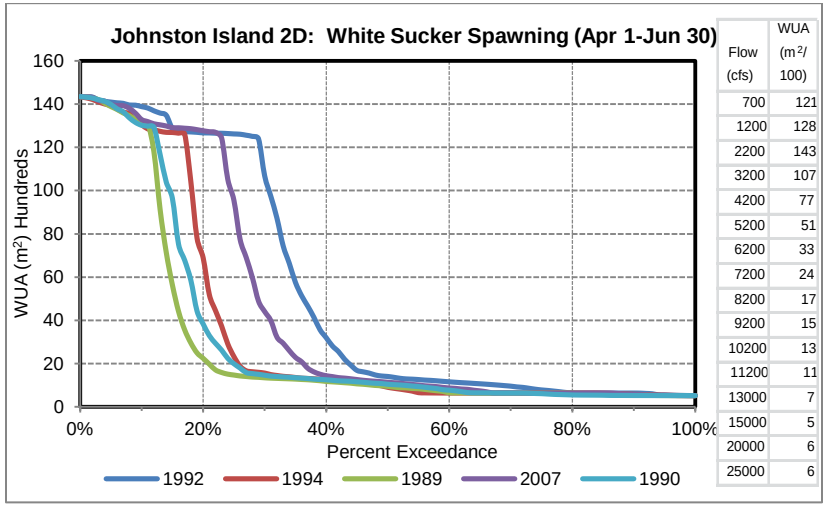
Flow (cfs)	WUA (m²/100)
700	392
1200	414
2200	449
3200	368
4200	313
5200	266
6200	226
7200	192
8200	156
9200	137
10200	120
11200	108
13000	91
15000	75
20000	59
25000	48



Flow (cfs)	WUA (m²/100)
700	184
1200	192
2200	212
3200	172
4200	135
5200	104
6200	85
7200	72
8200	60
9200	53
10200	48
11200	42
13000	33
15000	23
20000	16
25000	13



Flow (cfs)	WUA (m²/100)
700	375
1200	258
2200	220
3200	212
4200	208
5200	192
6200	172
7200	166
8200	162
9200	159
10200	164
11200	165
13000	166
15000	164
20000	179
25000	191



Flow (cfs)	WUA (m²/100)
700	121
1200	128
2200	143
3200	107
4200	77
5200	51
6200	33
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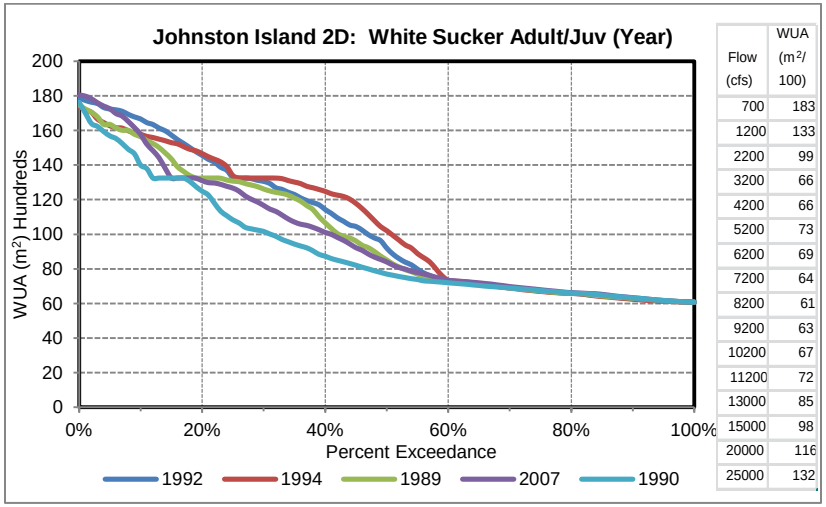
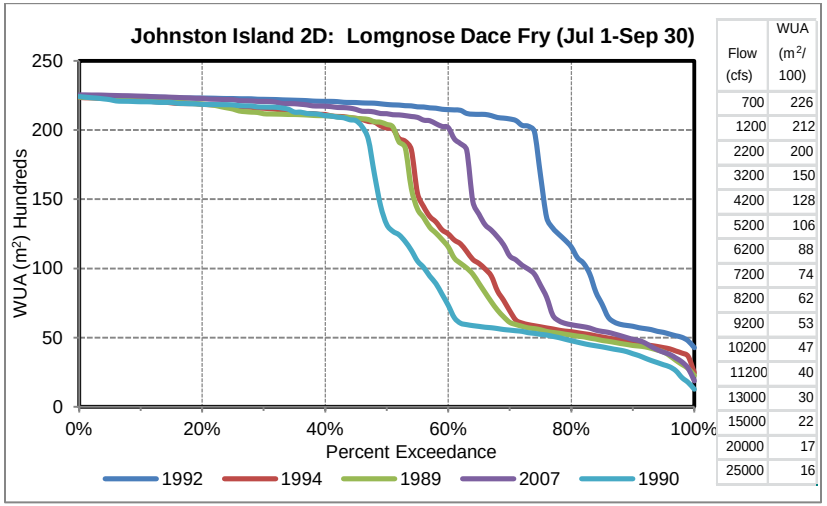
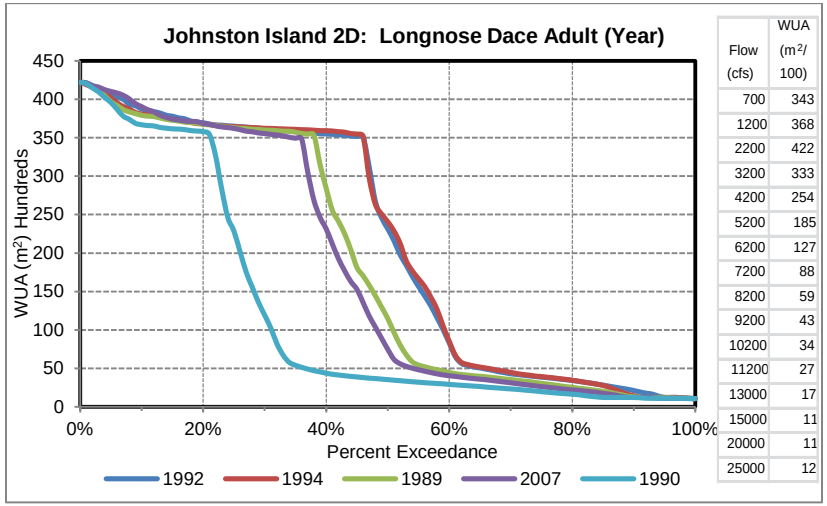
9200	15
10200	13
11200	11
13000	7
15000	5
20000	6
25000	6



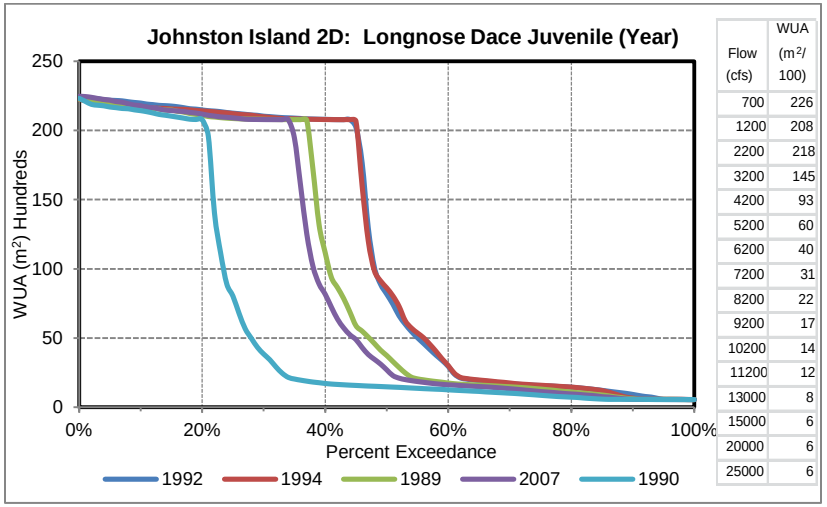
Flow (cfs)	WUA (m²/100)
700	183
1200	133
2200	99
3200	66
4200	66
5200	73
6200	69
7200	64
8200	61
9200	63
10200	67
11200	72
13000	85
15000	98
20000	116
25000	132



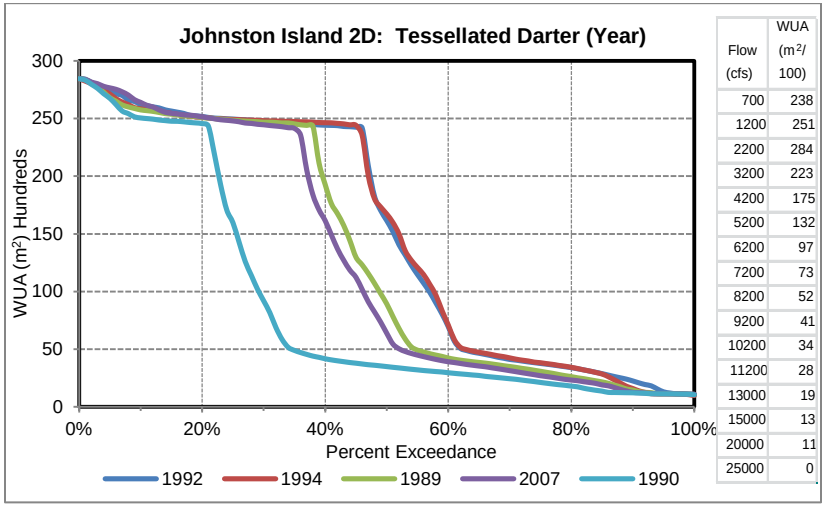
Flow (cfs)	WUA (m²/100)
700	226
1200	212
2200	200
3200	150
4200	128
5200	106
6200	88
7200	74
8200	62
9200	53
10200	47
11200	40
13000	30
15000	22
20000	17
25000	16



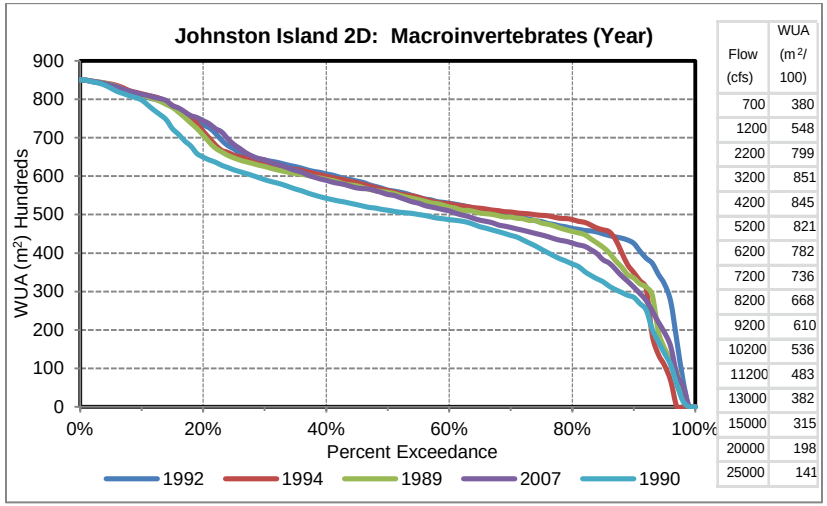
Flow (cfs)	WUA (m²/100)
700	343
1200	368
2200	422
3200	333
4200	254
5200	185
6200	127
7200	88
8200	59
9200	43
10200	34
11200	27
13000	17
15000	11
20000	11
25000	12



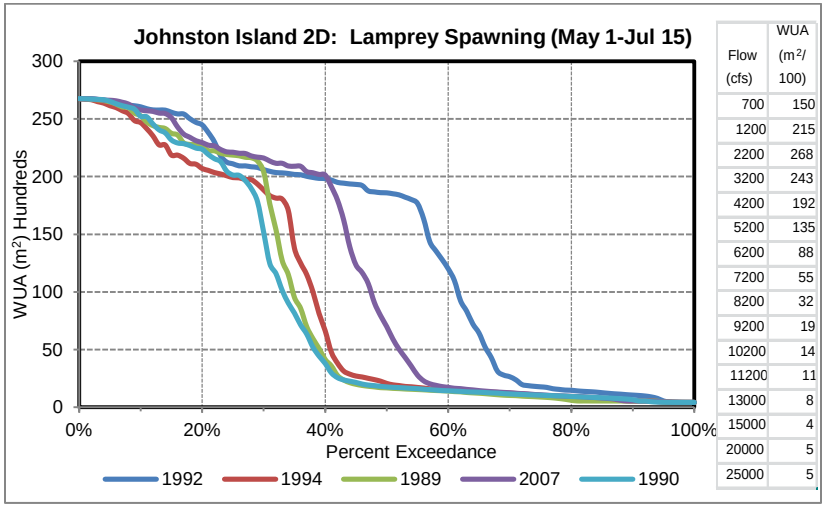
Flow (cfs)	WUA (m²/100)
700	226
1200	208
2200	218
3200	145
4200	93
5200	60
6200	40
7200	31
8200	22
9200	17
10200	14
11200	12
13000	8
15000	6
20000	6
25000	6



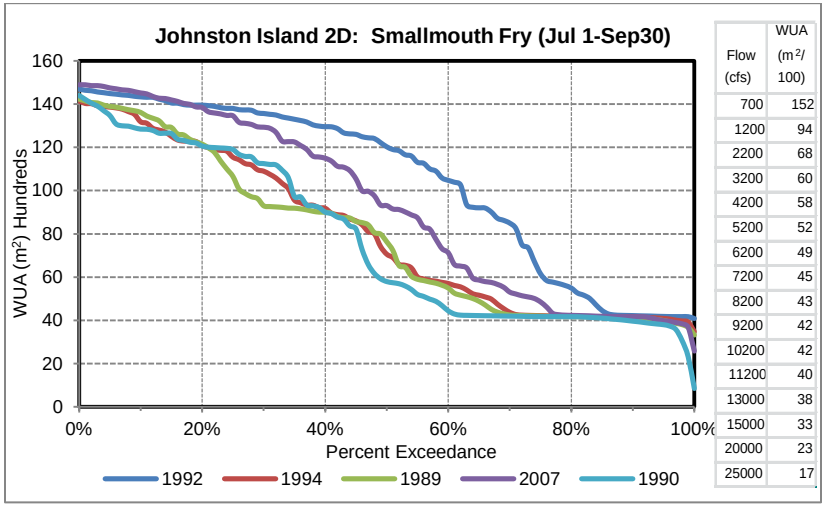
Flow (cfs)	WUA (m²/100)
700	238
1200	251
2200	284
3200	223
4200	175
5200	132
6200	97
7200	73
8200	52
9200	41
10200	34
11200	28
13000	19
15000	13
20000	11
25000	0



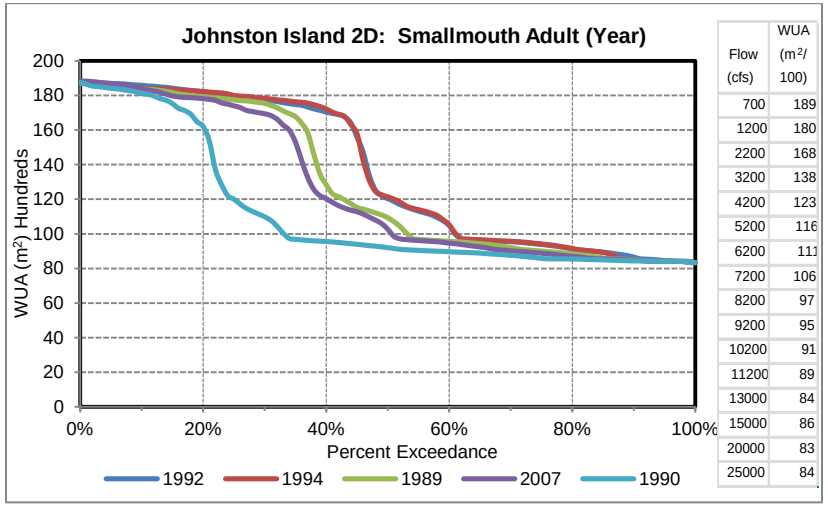
Flow (cfs)	WUA (m²/100)
700	380
1200	548
2200	799
3200	851
4200	845
5200	821
6200	782
7200	736
8200	668
9200	610
10200	536
11200	483
13000	382
15000	315
20000	198
25000	141



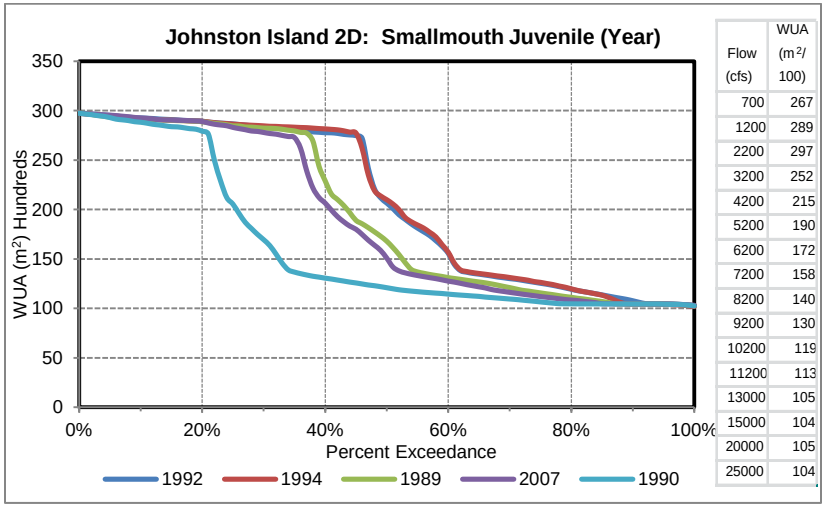
Flow (cfs)	WUA (m²/100)
700	150
1200	215
2200	268
3200	243
4200	192
5200	135
6200	88
7200	55
8200	32
9200	19
10200	14
11200	11
13000	8
15000	4
20000	5
25000	5



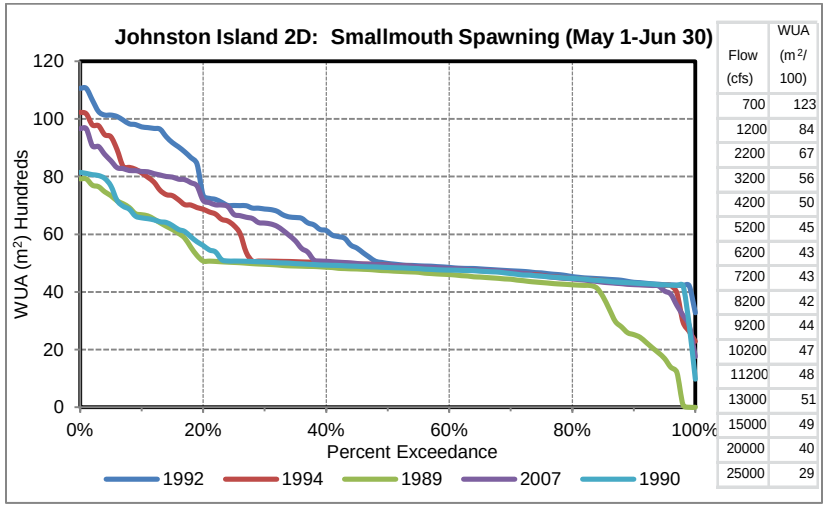
Flow (cfs)	WUA (m²/100)
700	152
1200	94
2200	68
3200	60
4200	58
5200	52
6200	49
7200	45
8200	43
9200	42
10200	42
11200	40
13000	38
15000	33
20000	23
25000	17



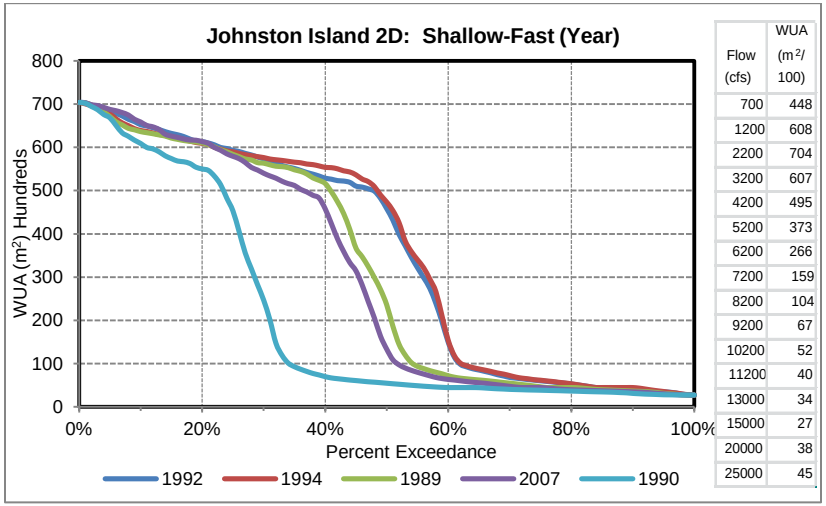
Flow (cfs)	WUA (m²/100)
700	189
1200	180
2200	168
3200	138
4200	123
5200	116
6200	111
7200	106
8200	97
9200	95
10200	91
11200	89
13000	84
15000	86
20000	83
25000	84



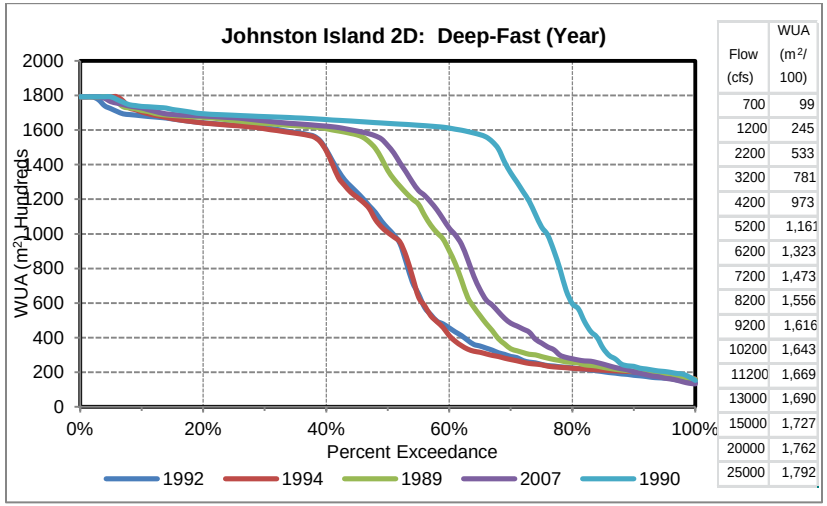
Flow (cfs)	WUA (m²/100)
700	267
1200	289
2200	297
3200	252
4200	215
5200	190
6200	172
7200	158
8200	140
9200	130
10200	119
11200	113
13000	105
15000	104
20000	105
25000	104



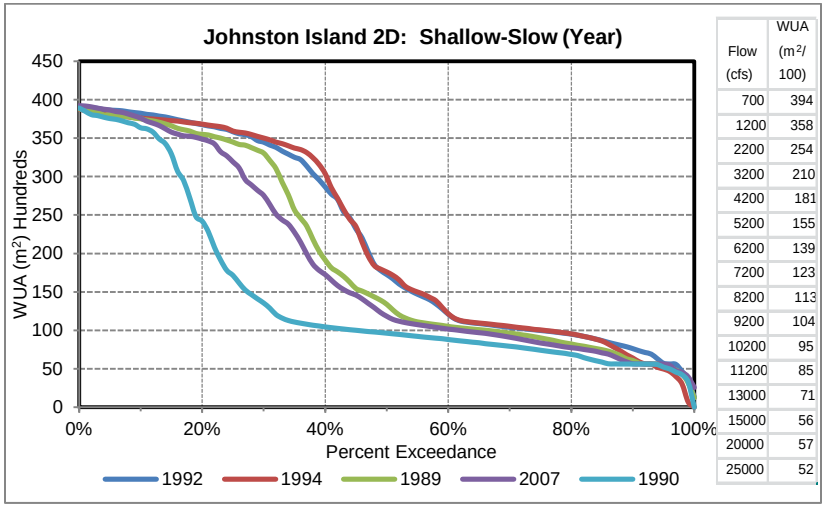
Flow (cfs)	WUA (m²/100)
700	123
1200	84
2200	67
3200	56
4200	50
5200	45
6200	43
7200	43
8200	42
9200	44
10200	47
11200	48
13000	51
15000	49
20000	40
25000	29



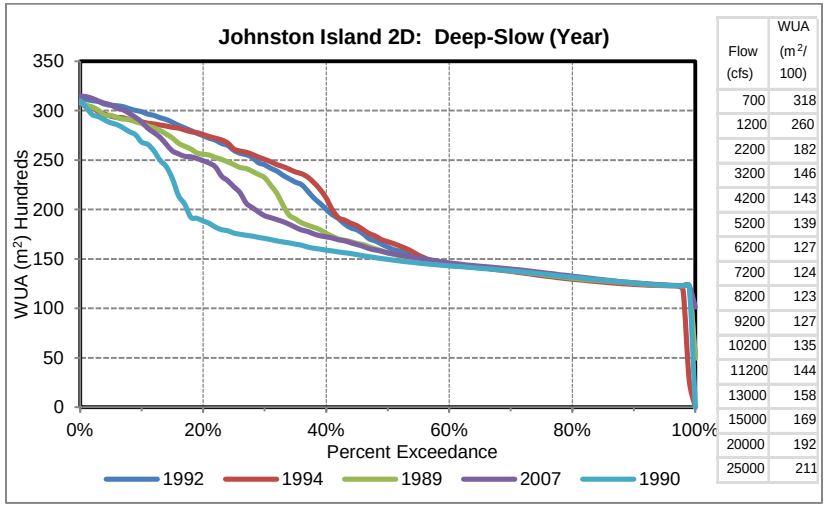
Flow (cfs)	WUA (m²/100)
700	448
1200	608
2200	704
3200	607
4200	495
5200	373
6200	266
7200	159
8200	104
9200	67
10200	52
11200	40
13000	34
15000	27
20000	38
25000	45



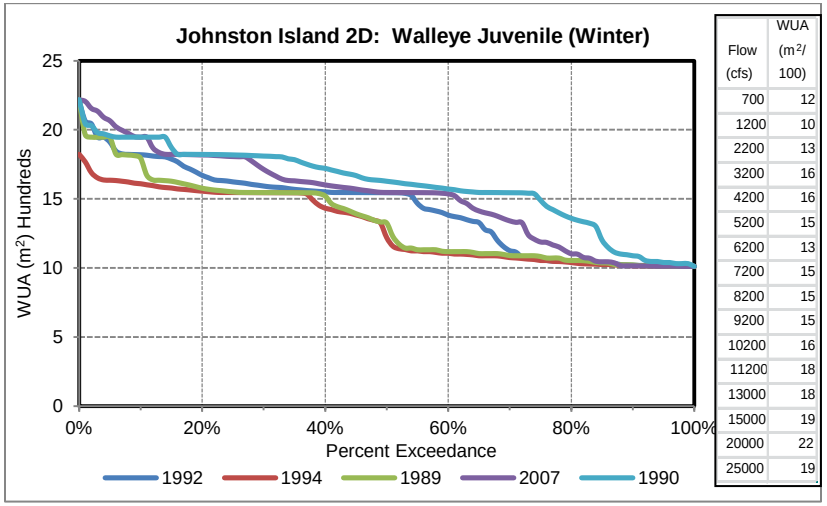
Flow (cfs)	WUA (m²/100)
700	99
1200	245
2200	533
3200	781
4200	973
5200	1,161
6200	1,323
7200	1,473
8200	1,556
9200	1,616
10200	1,643
11200	1,669
13000	1,690
15000	1,727
20000	1,762
25000	1,792



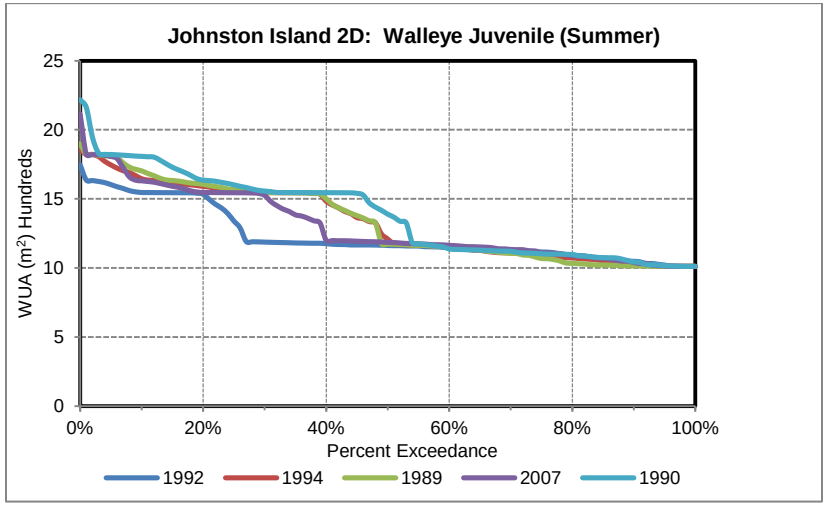
Flow (cfs)	WUA (m²/100)
700	394
1200	358
2200	254
3200	210
4200	181
5200	155
6200	139
7200	123
8200	113
9200	104
10200	95
11200	85
13000	71
15000	56
20000	57
25000	52

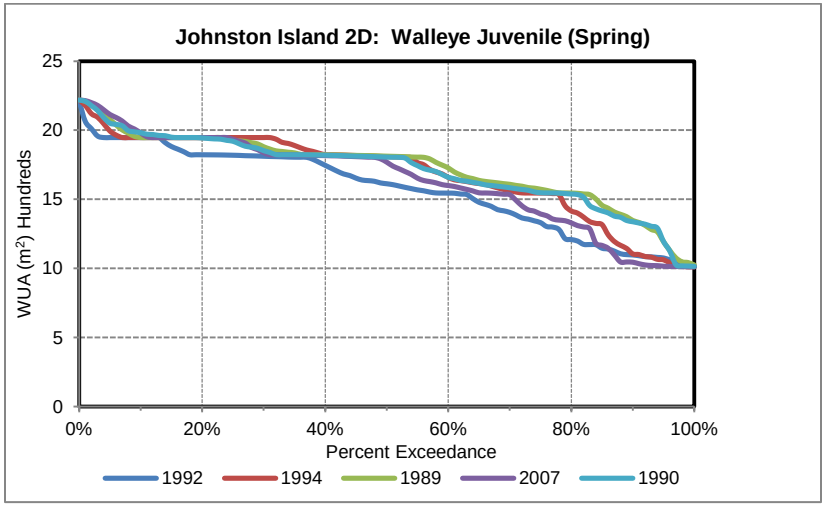


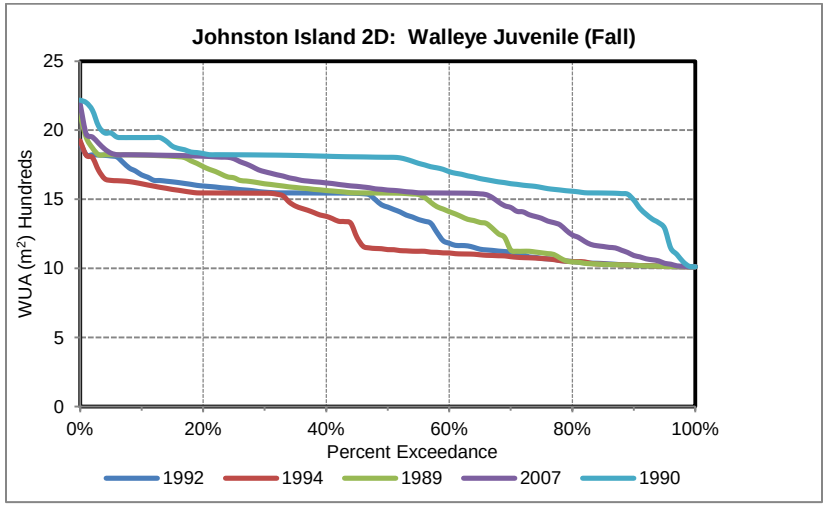
Flow (cfs)	WUA (m²/100)
700	318
1200	260
2200	182
3200	146
4200	143
5200	139
6200	127
7200	124
8200	123
9200	127
10200	135
11200	144
13000	158
15000	169
20000	192
25000	211

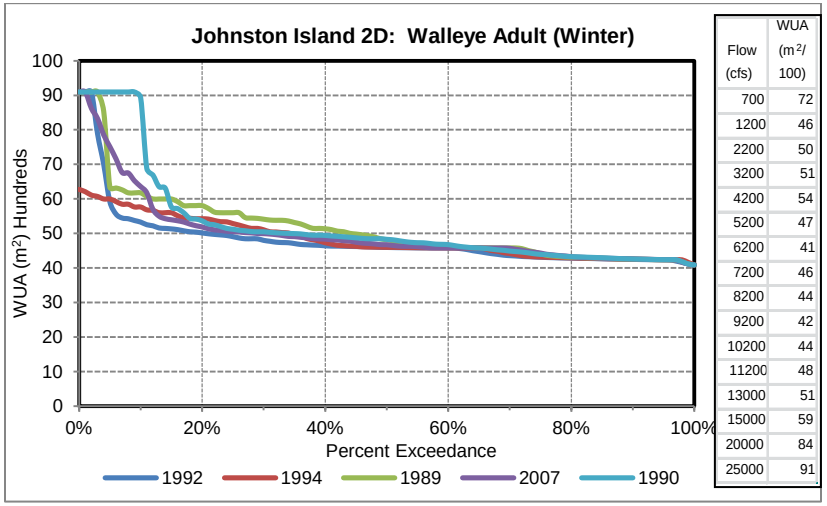


Flow (cfs)	WUA (m²/100)
700	12
1200	10
2200	13
3200	16
4200	16
5200	15
6200	13
7200	15
8200	15
9200	15
10200	16
11200	18
13000	18
15000	19
20000	22
25000	19

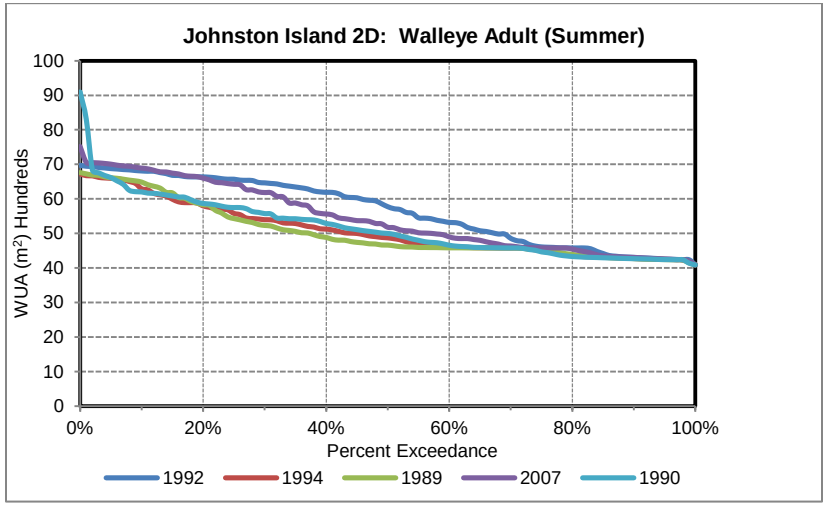


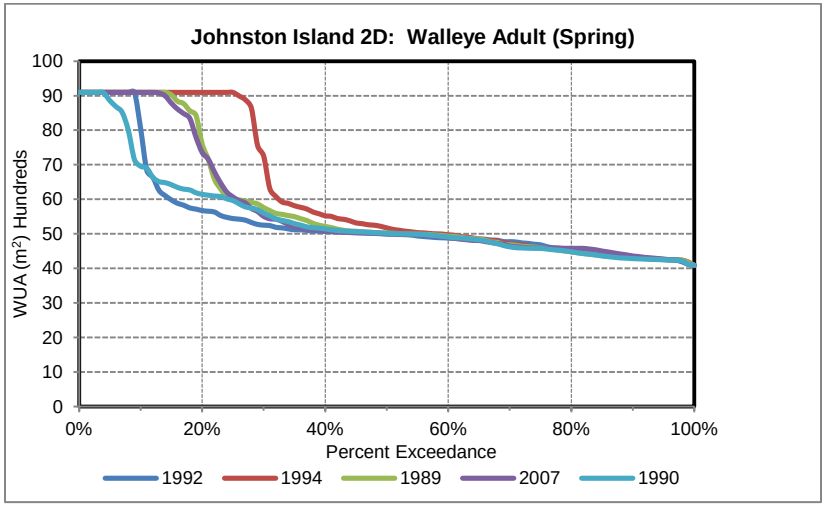


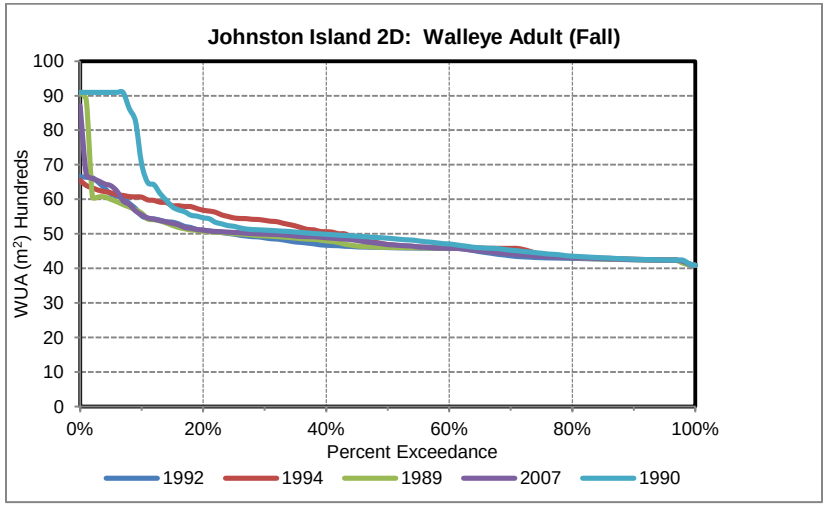


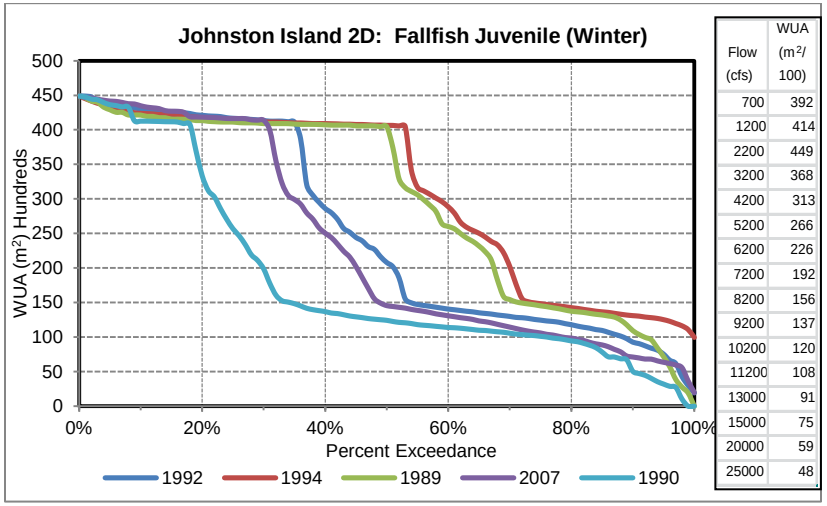


Flow (cfs)	WUA (m²/100)
700	72
1200	46
2200	50
3200	51
4200	54
5200	47
6200	41
7200	46
8200	44
9200	42
10200	44
11200	48
13000	51
15000	59
20000	84
25000	91

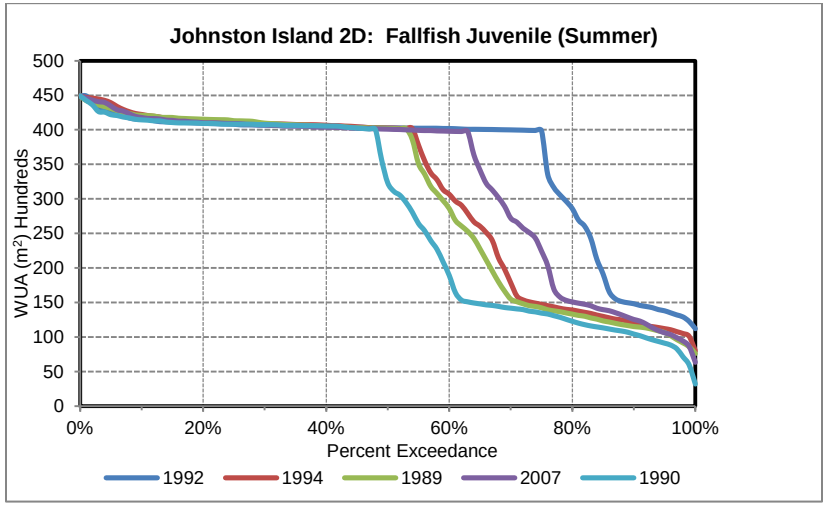


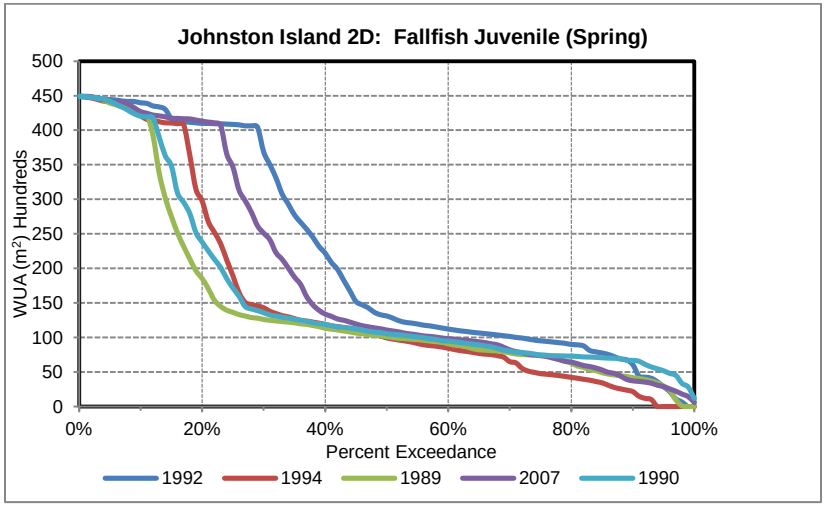


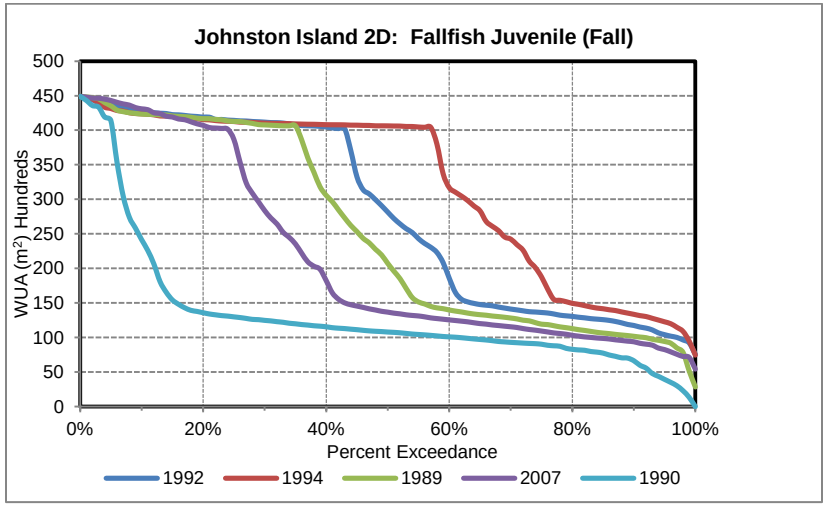


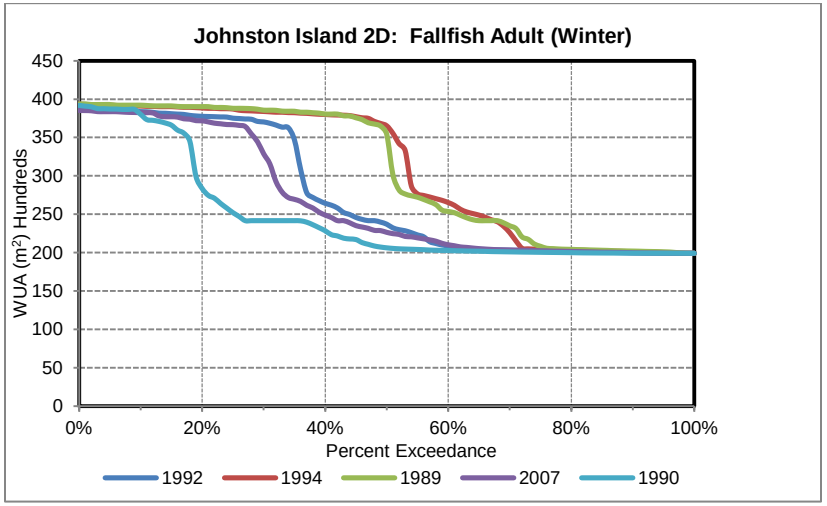


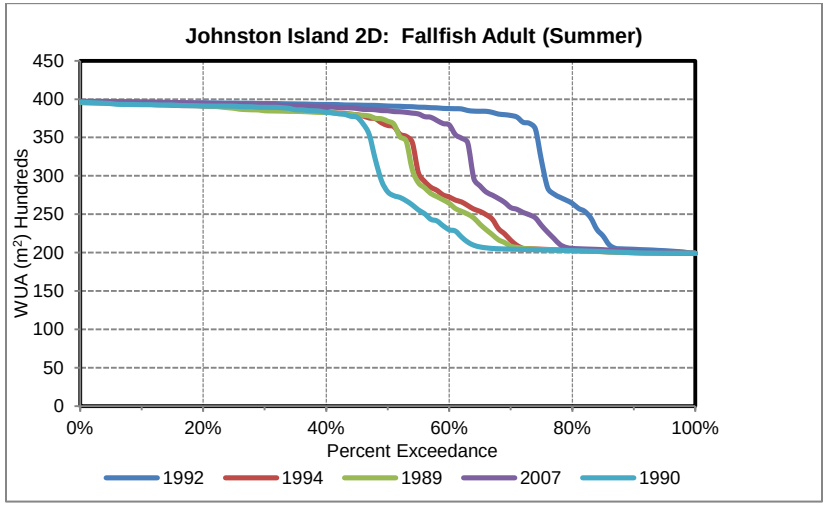
Flow (cfs)	WUA (m²/100)
700	392
1200	414
2200	449
3200	368
4200	313
5200	266
6200	226
7200	192
8200	156
9200	137
10200	120
11200	108
13000	91
15000	75
20000	59
25000	48

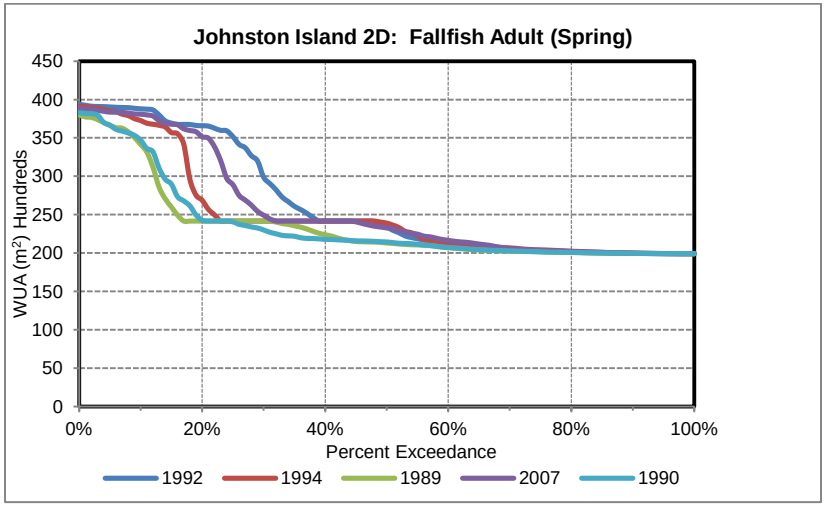


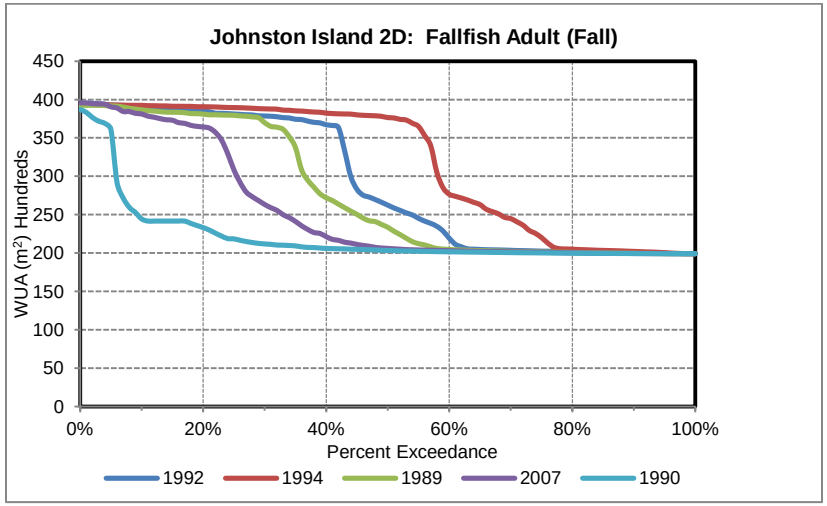


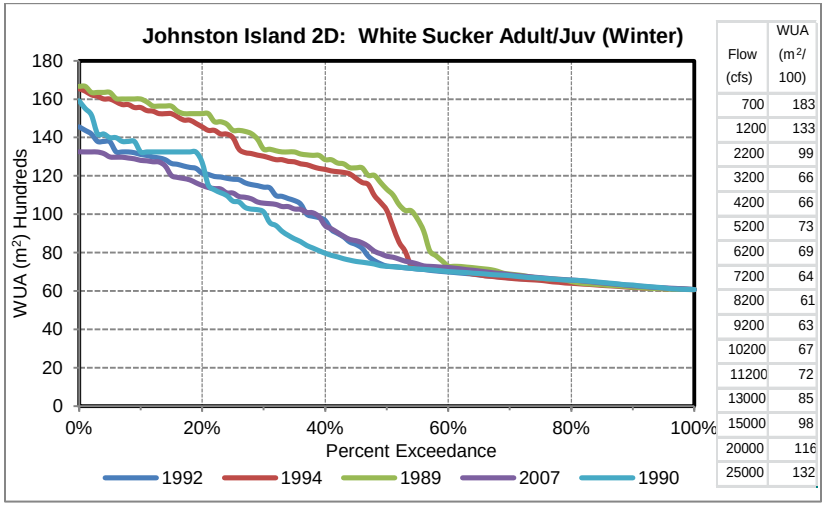



Johnston Island 2D: Fallfish Adult (Winter)
WUA (m2) Hundreds
450
400
350
300
250
200
150
100
50
0
0%
20%
40%
60%
80%
100%
Percent Exceedance
1992
1994
1989
2007
1990

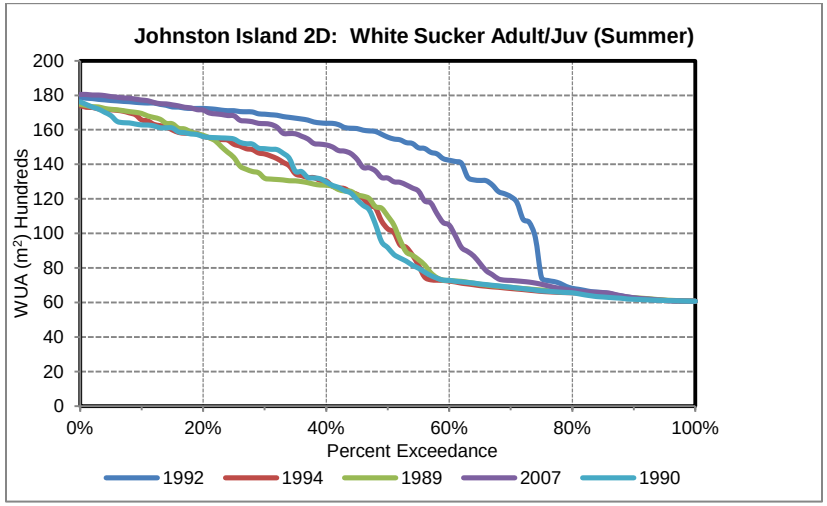

Johnston Island 2D: Fallfish Adult (Summer)
WUA (m2) Hundreds
450
400
350
300
250
200
150
100
50
0
0%
20%
40%
60%
80%
100%
Percent Exceedance
1992
1994
1989
2007
1990

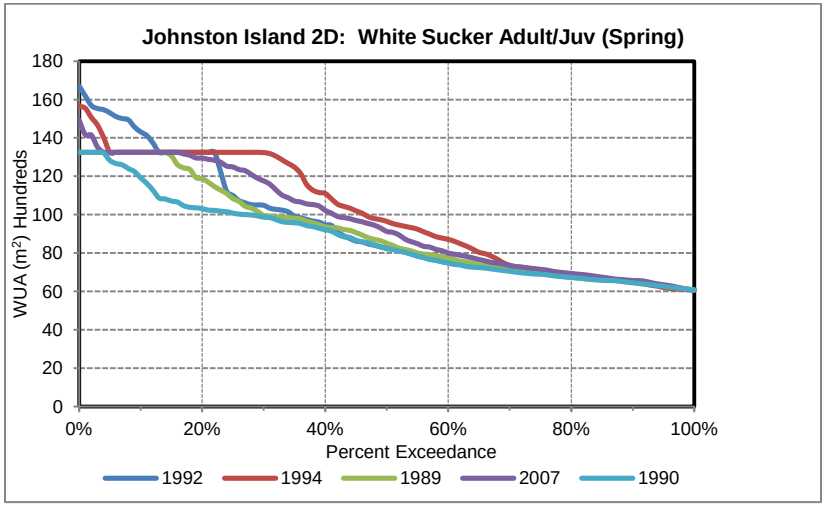

Johnston Island 2D: Fallfish Adult (Spring)
WUA (m2) Hundreds
450
400
350
300
250
200
150
100
50
0
0%
20%
40%
60%
80%
100%
Percent Exceedance
1992
1994
1989
2007
1990

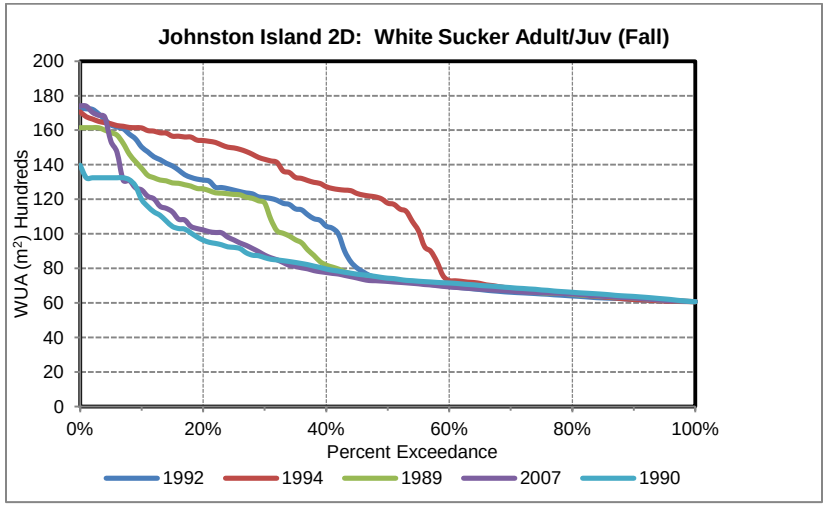

Johnston Island 2D: Fallfish Adult (Fall)
WUA (m2) Hundreds
450
400
350
300
250
200
150
100
50
0
0%
20%
40%
60%
80%
100%
Percent Exceedance
1992
1994
1989
2007
1990

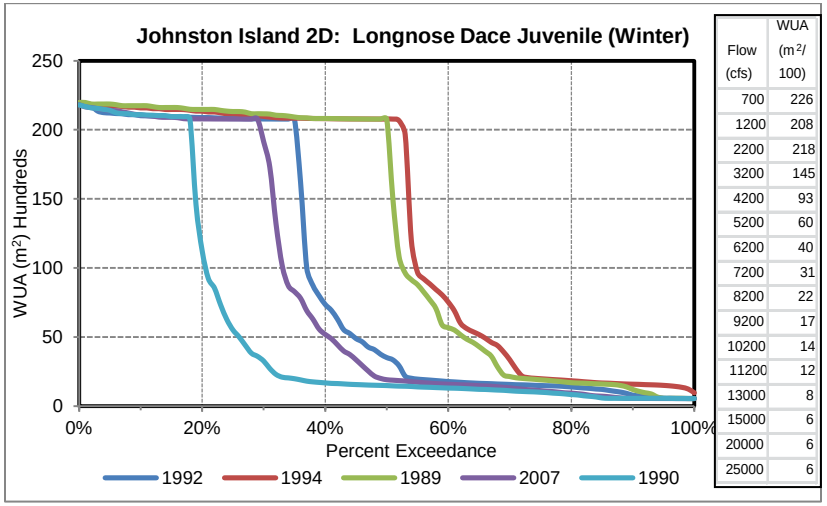


Flow (cfs)	WUA (m2/ 100)
700	183
1200	133
2200	99
3200	66
4200	66
5200	73
6200	69
7200	64
8200	61
9200	63
10200	67
11200	72
13000	85
15000	98
20000	116
25000	132

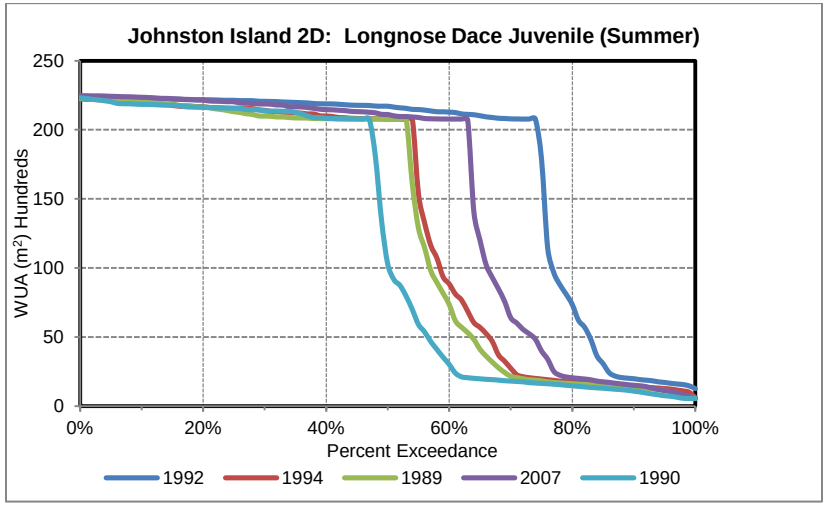


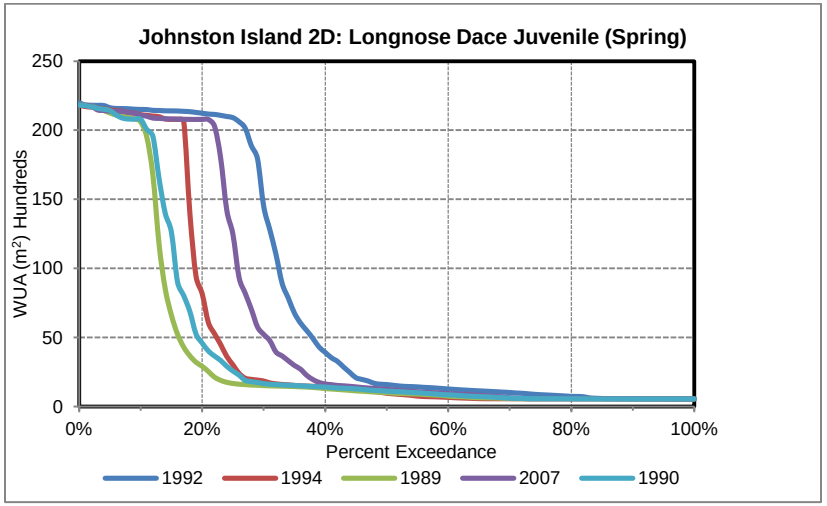


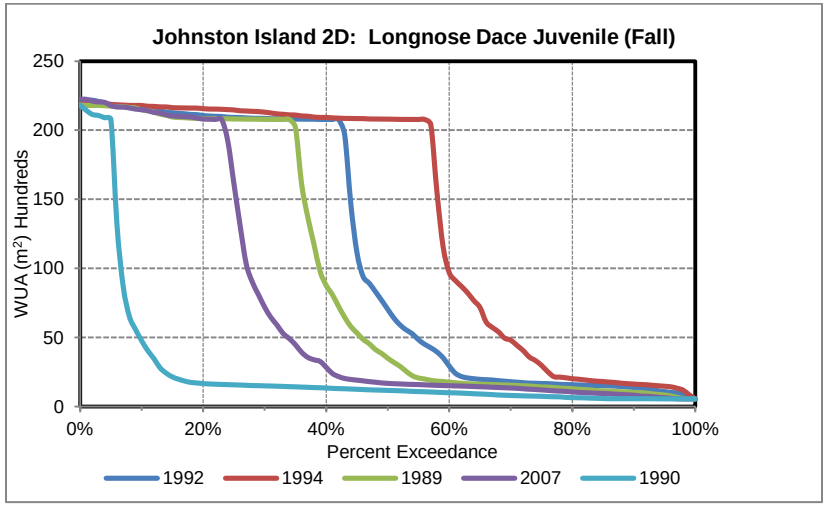


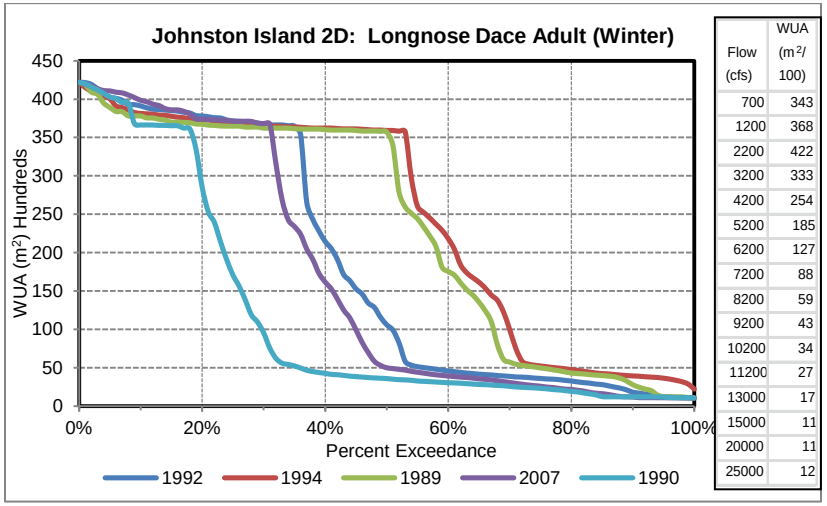


Flow (cfs)	WUA (m²/100)
700	226
1200	208
2200	218
3200	145
4200	93
5200	60
6200	40
7200	31
8200	22
9200	17
10200	14
11200	12
13000	8
15000	6
20000	6
25000	6

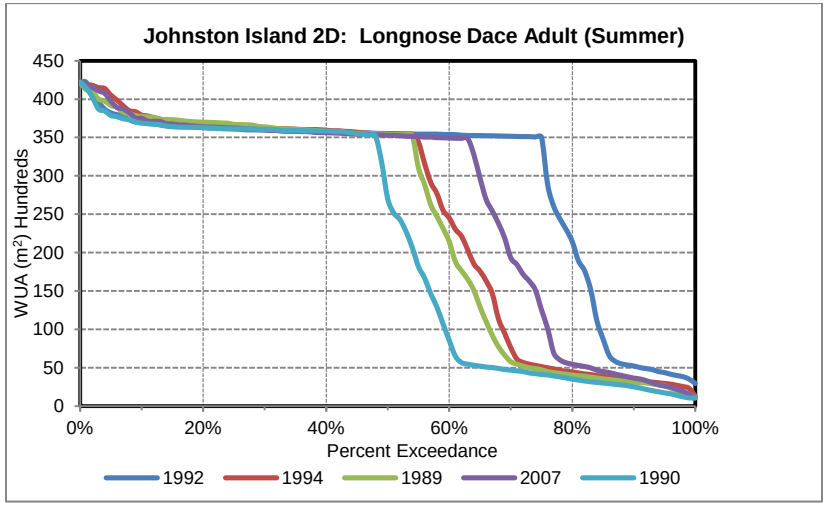


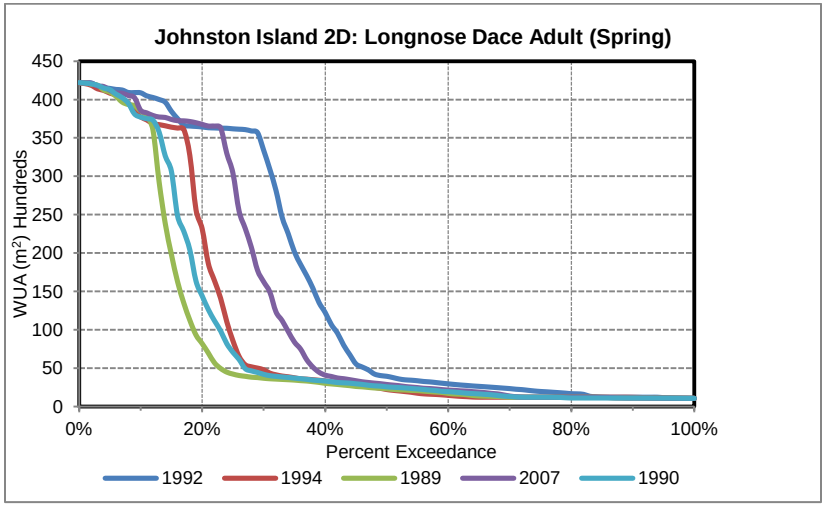


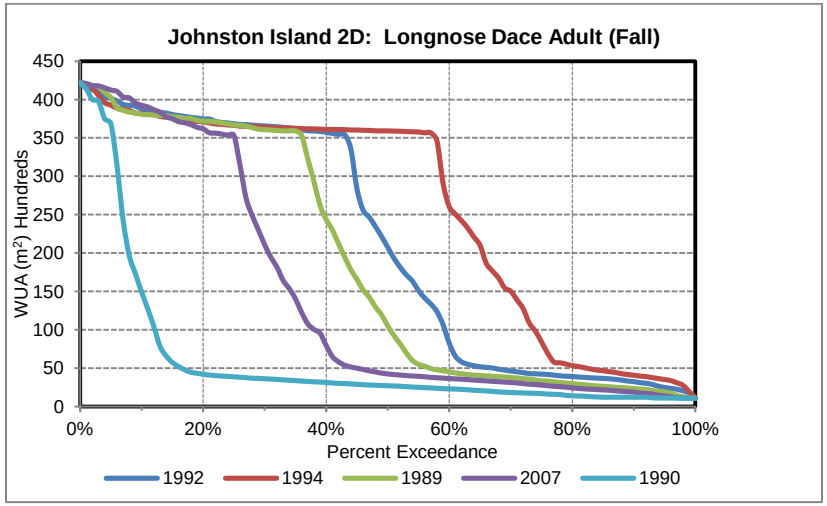


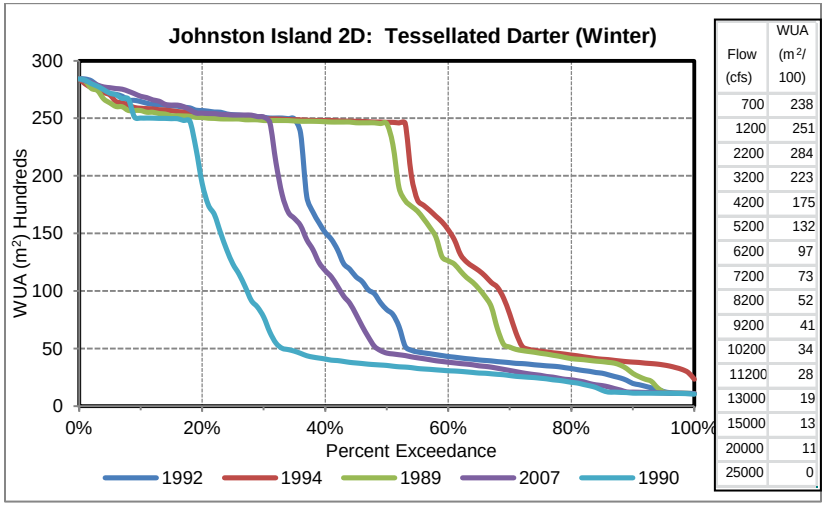


Flow (cfs)	WUA (m²/100)
700	343
1200	368
2200	422
3200	333
4200	254
5200	185
6200	127
7200	88
8200	59
9200	43
10200	34
11200	27
13000	17
15000	11
20000	11
25000	12

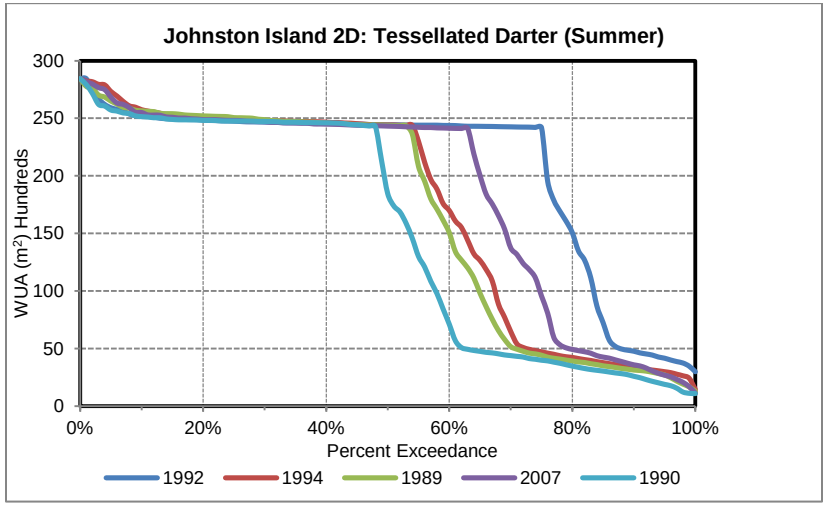


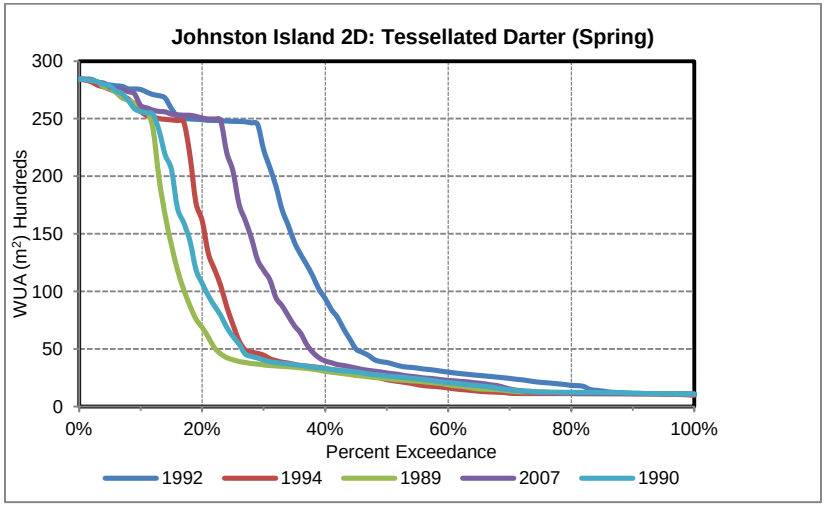


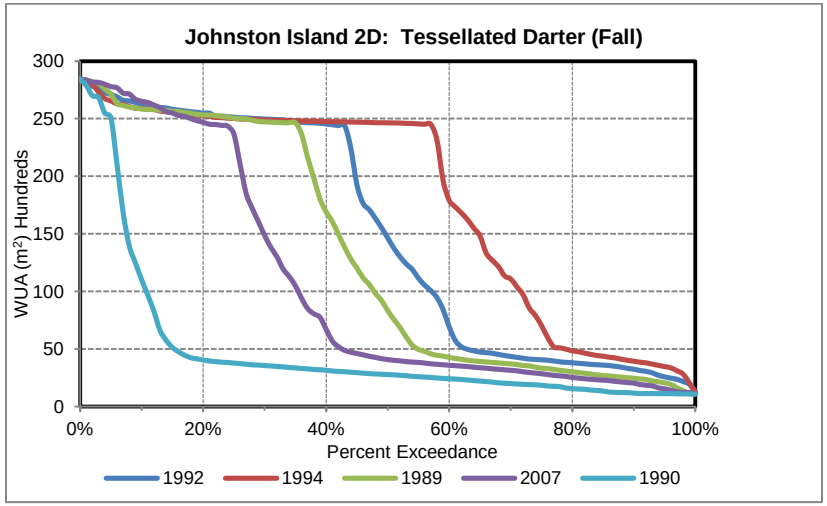


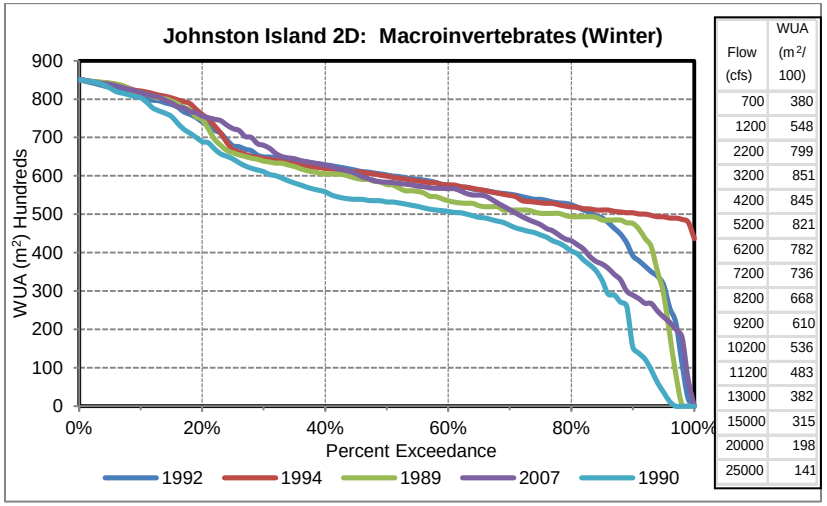


Flow (cfs)	WUA (m²/100)
700	238
1200	251
2200	284
3200	223
4200	175
5200	132
6200	97
7200	73
8200	52
9200	41
10200	34
11200	28
13000	19
15000	13
20000	11
25000	0

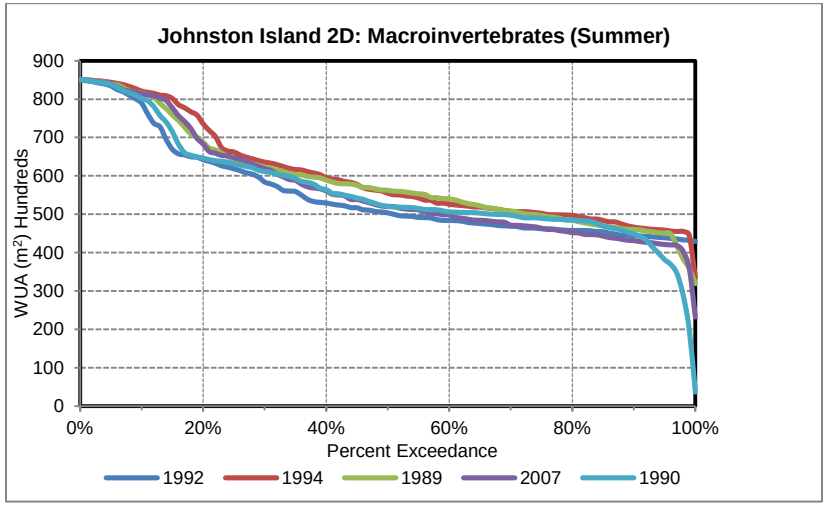


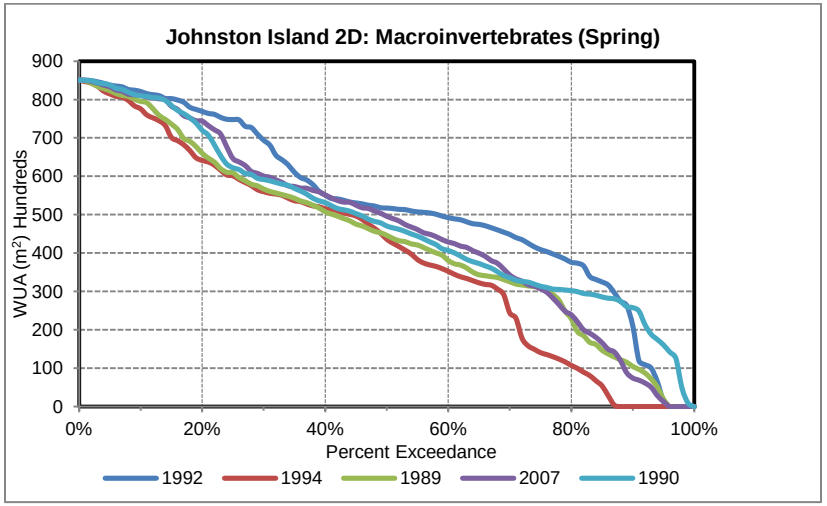


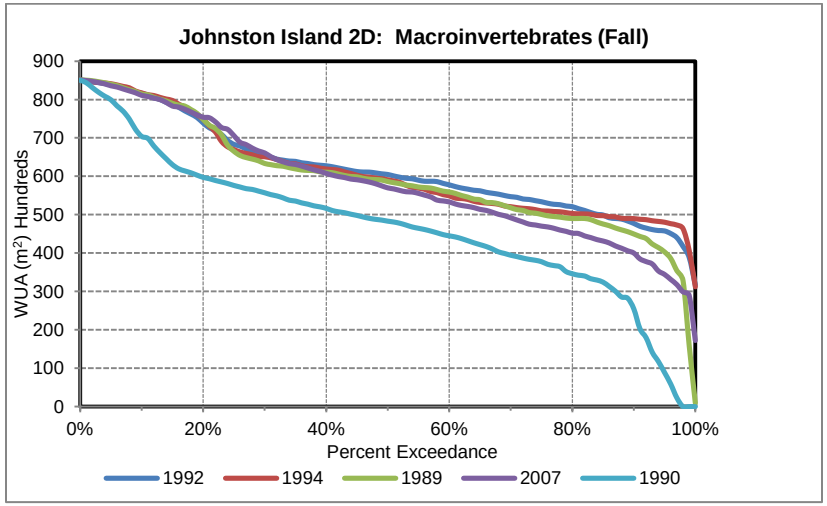


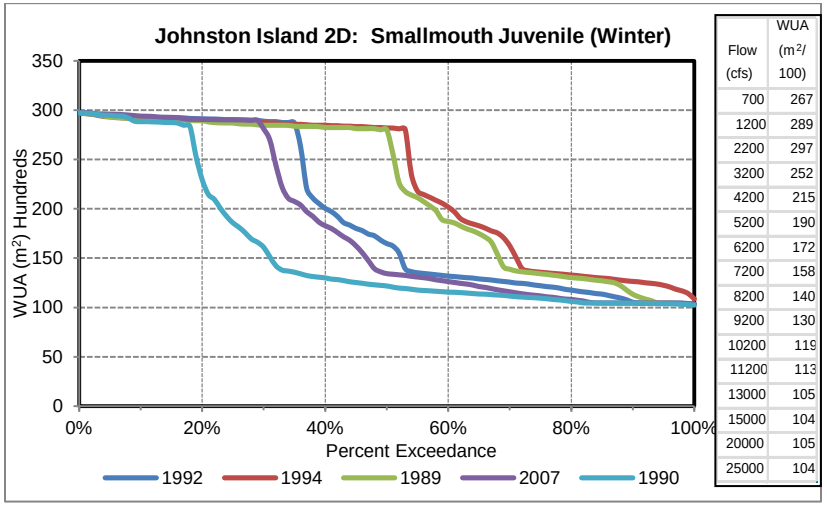


Flow (cfs)	WUA (m²/100)
700	380
1200	548
2200	799
3200	851
4200	845
5200	821
6200	782
7200	736
8200	668
9200	610
10200	536
11200	483
13000	382
15000	315
20000	198
25000	141

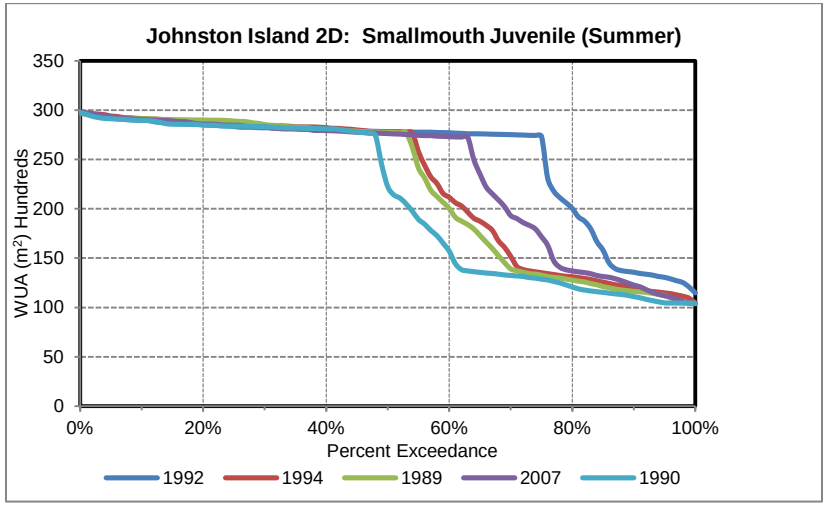


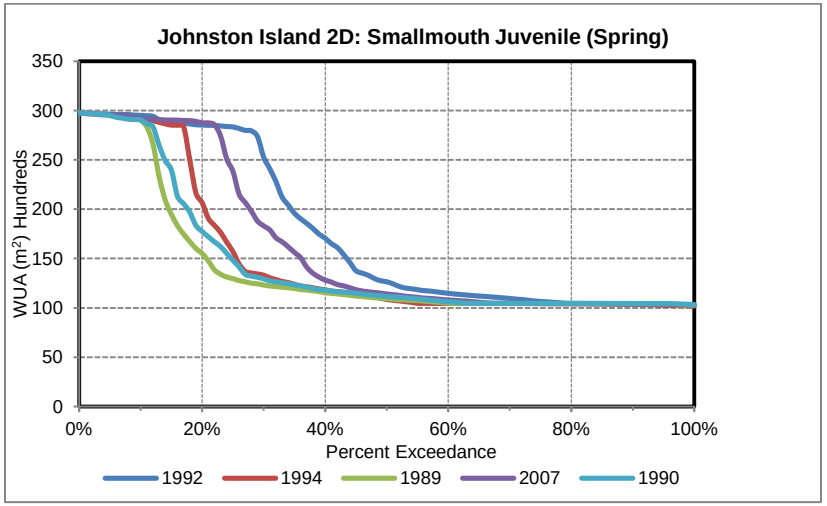


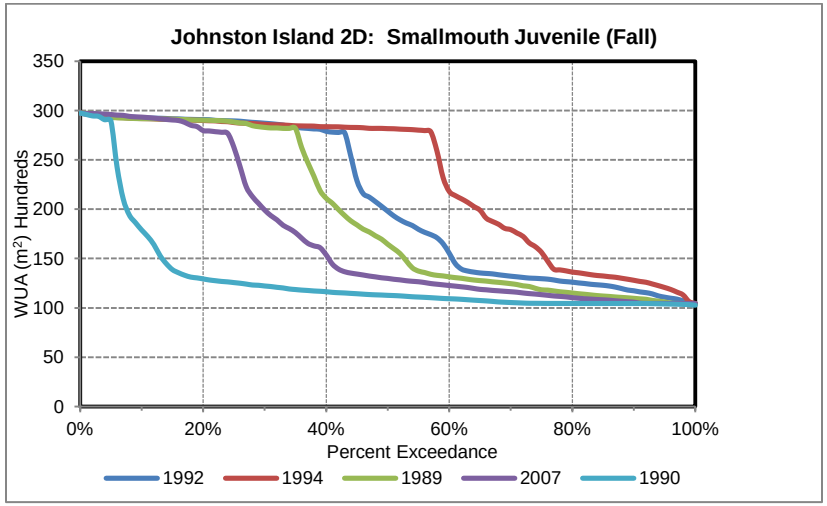


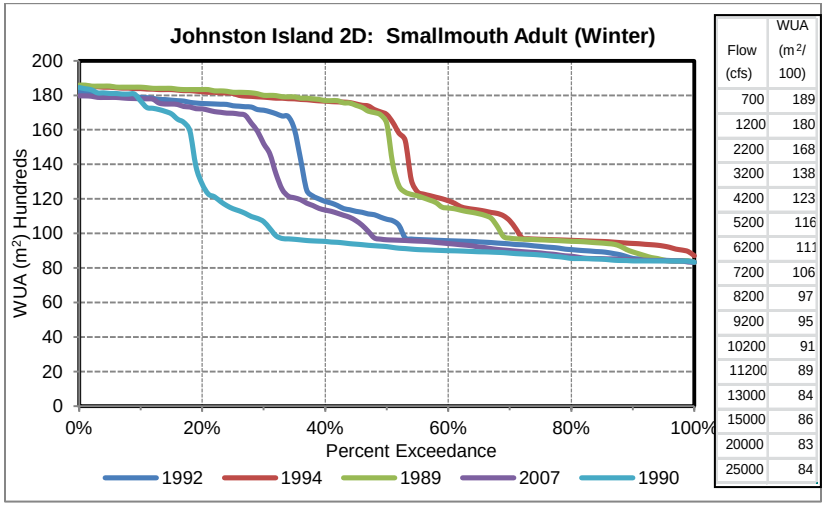


Flow (cfs)	WUA (m²/100)
700	267
1200	289
2200	297
3200	252
4200	215
5200	190
6200	172
7200	158
8200	140
9200	130
10200	119
11200	113
13000	105
15000	104
20000	105
25000	104

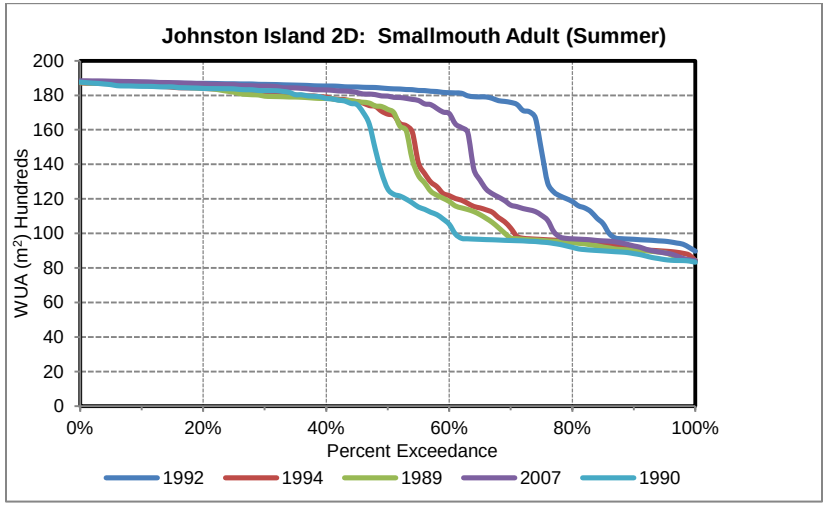


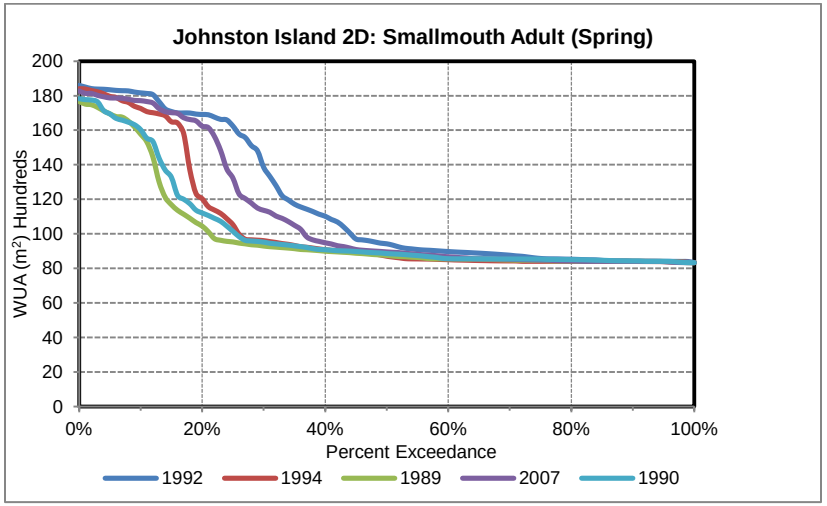


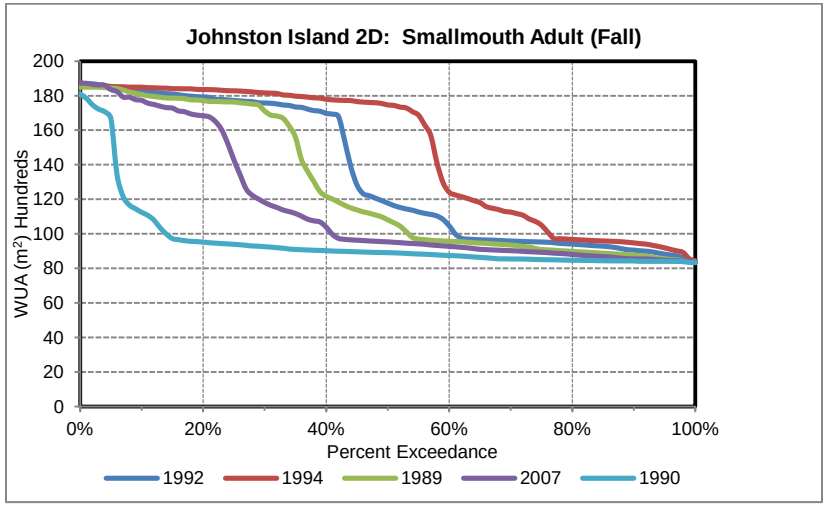


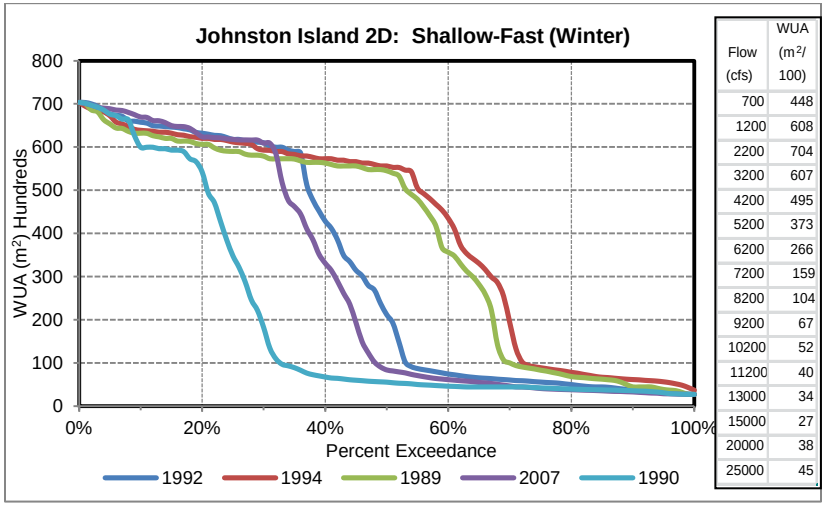


Flow (cfs)	WUA (m²/100)
700	189
1200	180
2200	168
3200	138
4200	123
5200	116
6200	111
7200	106
8200	97
9200	95
10200	91
11200	89
13000	84
15000	86
20000	83
25000	84

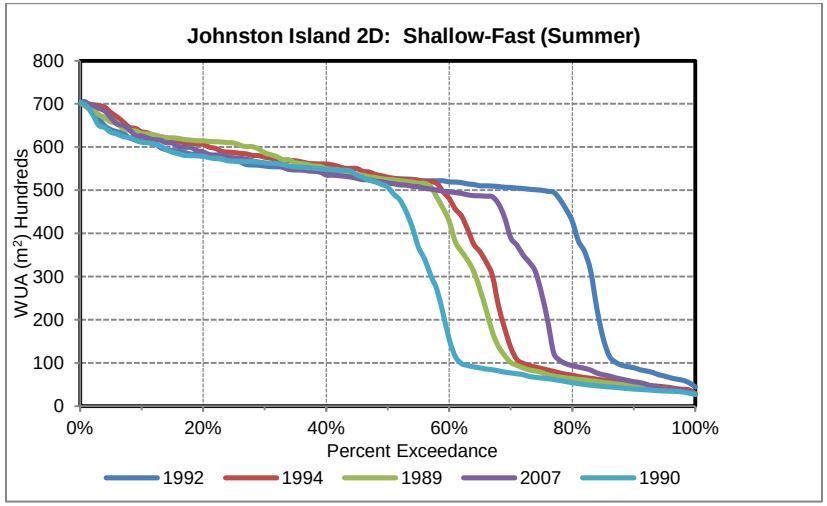


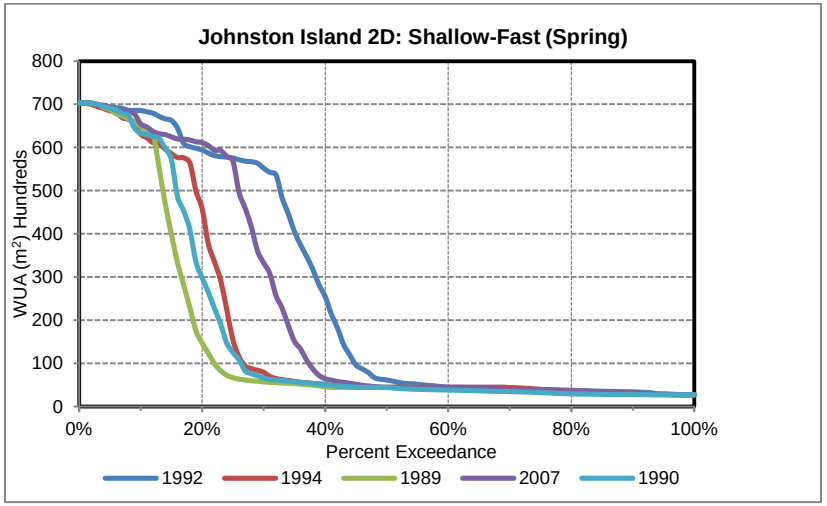


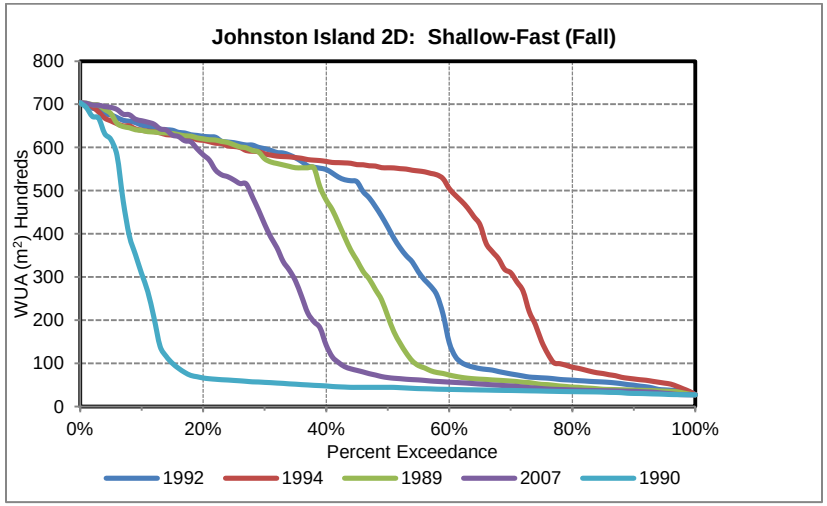


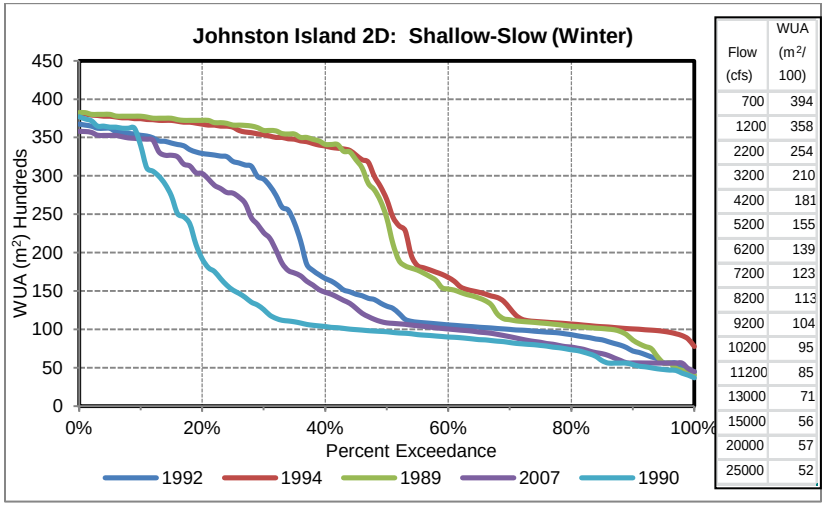


Flow (cfs)	WUA (m²/100)
700	448
1200	608
2200	704
3200	607
4200	495
5200	373
6200	266
7200	159
8200	104
9200	67
10200	52
11200	40
13000	34
15000	27
20000	38
25000	45

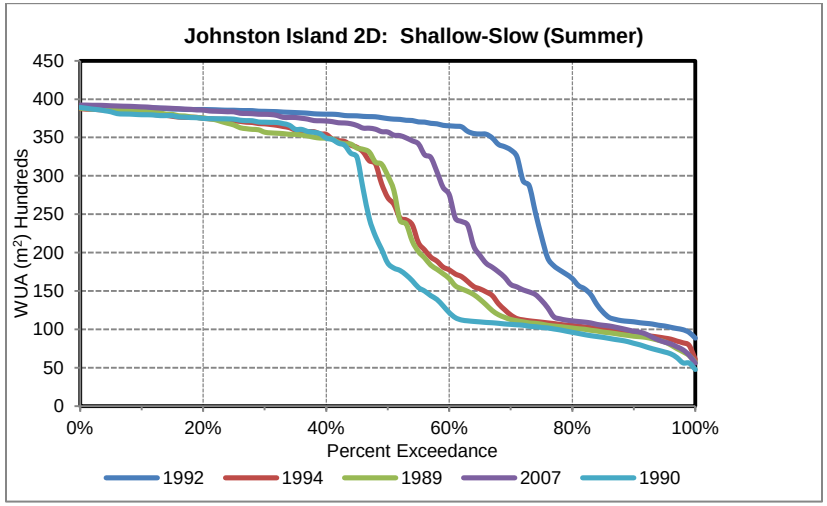


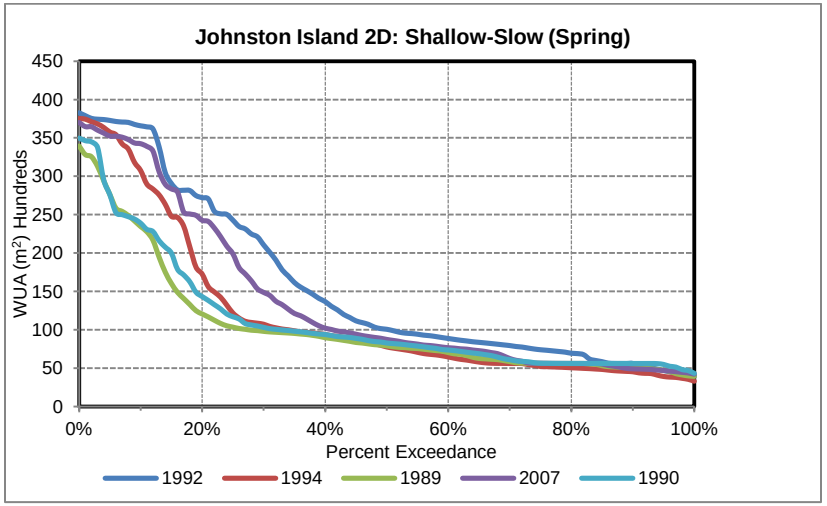


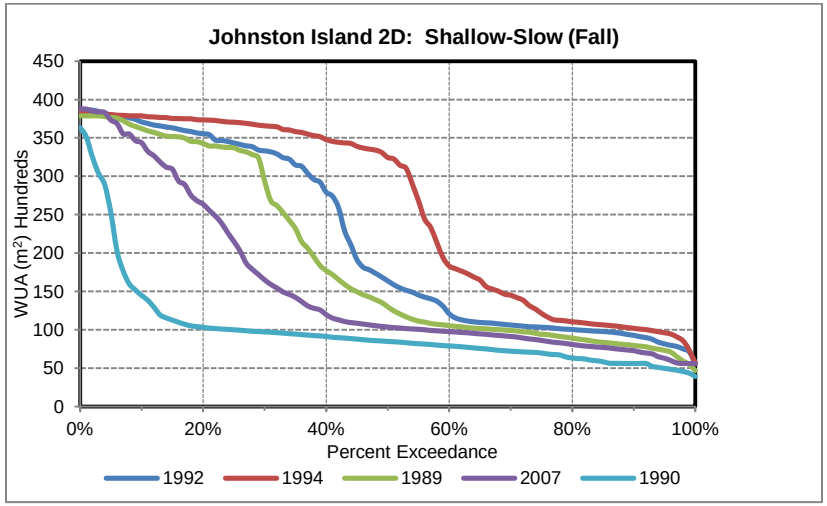


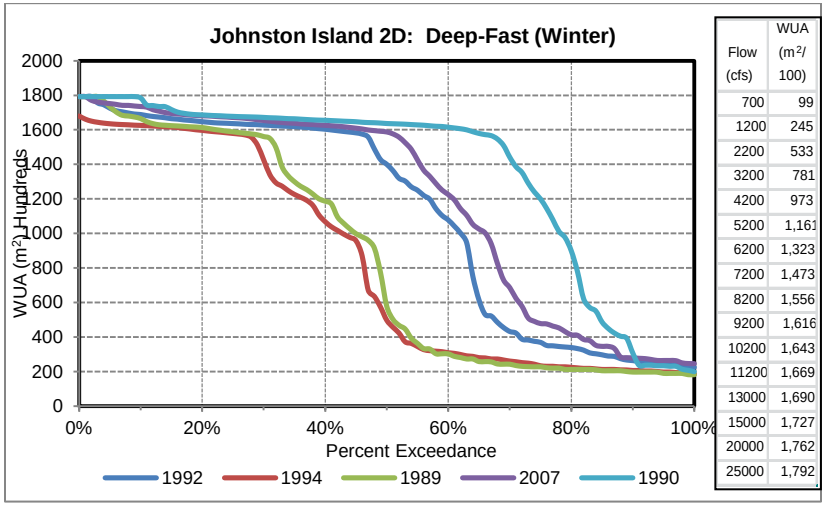


Flow (cfs)	WUA (m²/100)
700	394
1200	358
2200	254
3200	210
4200	181
5200	155
6200	139
7200	123
8200	113
9200	104
10200	95
11200	85
13000	71
15000	56
20000	57
25000	52

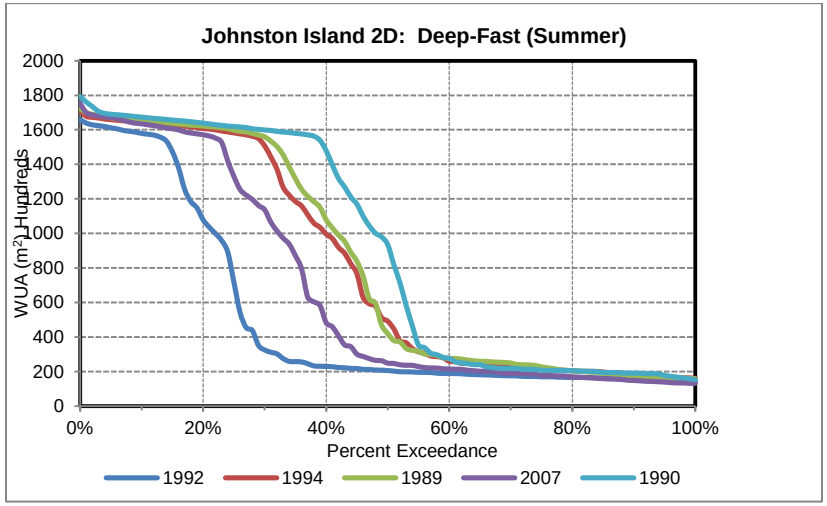


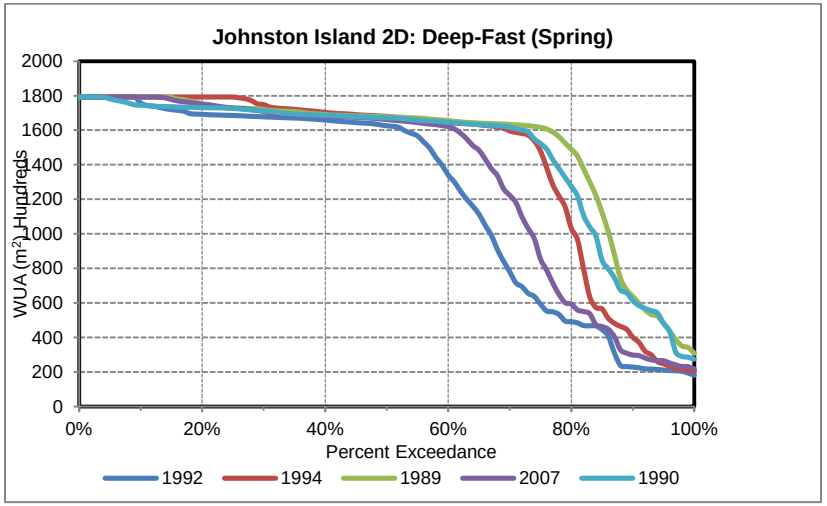


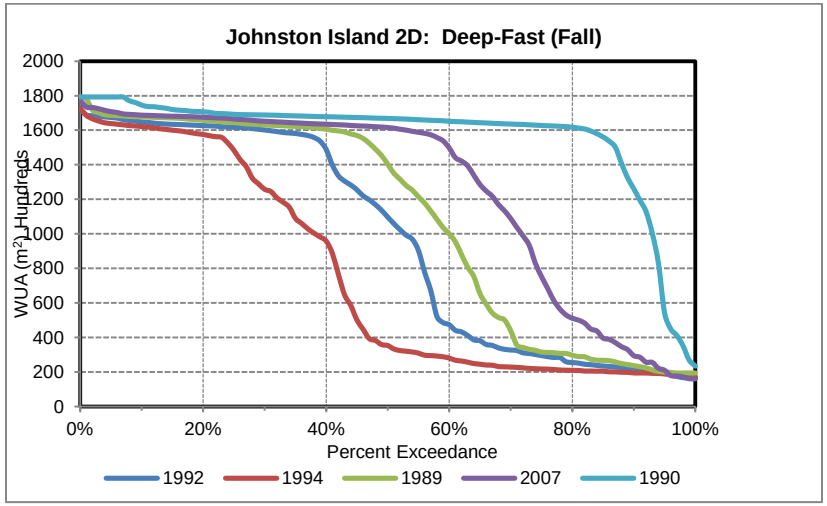


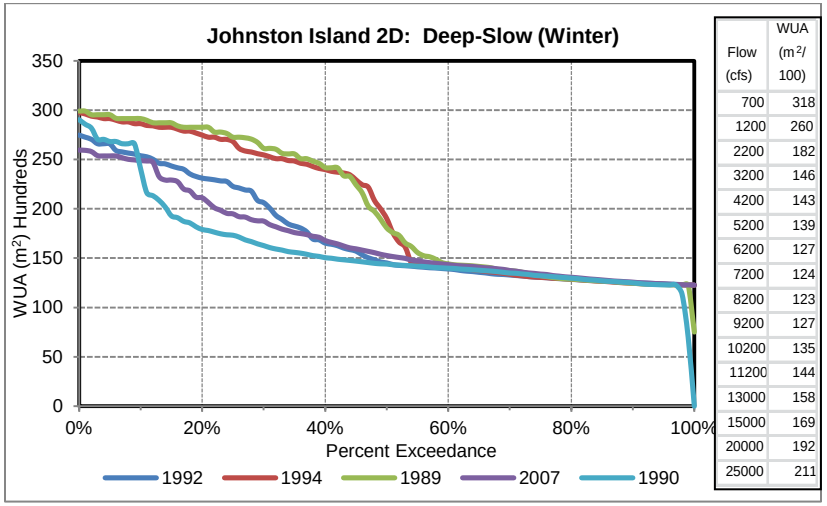


Flow (cfs)	WUA (m2/100)
700	99
1200	245
2200	533
3200	781
4200	973
5200	1,161
6200	1,323
7200	1,473
8200	1,556
9200	1,616
10200	1,643
11200	1,669
13000	1,690
15000	1,727
20000	1,762
25000	1,792

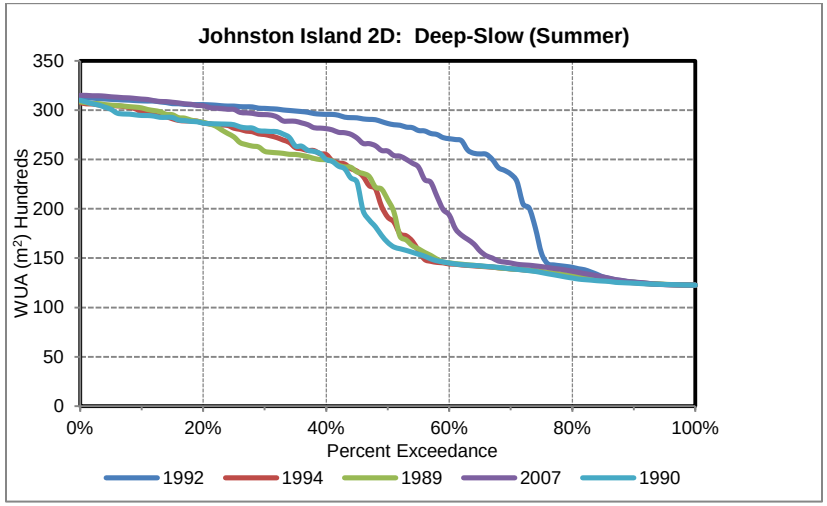


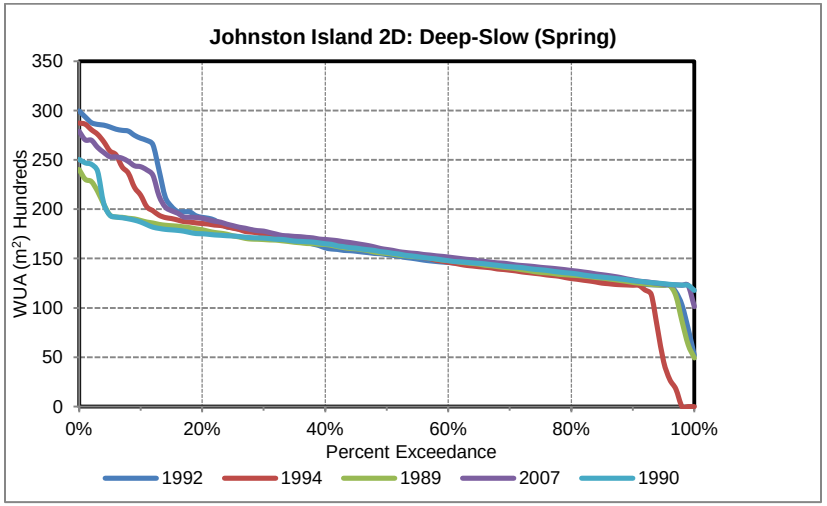


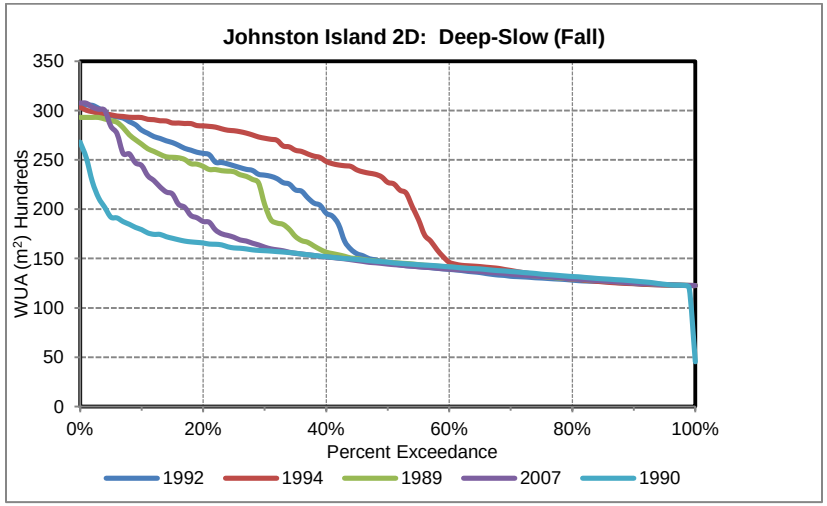


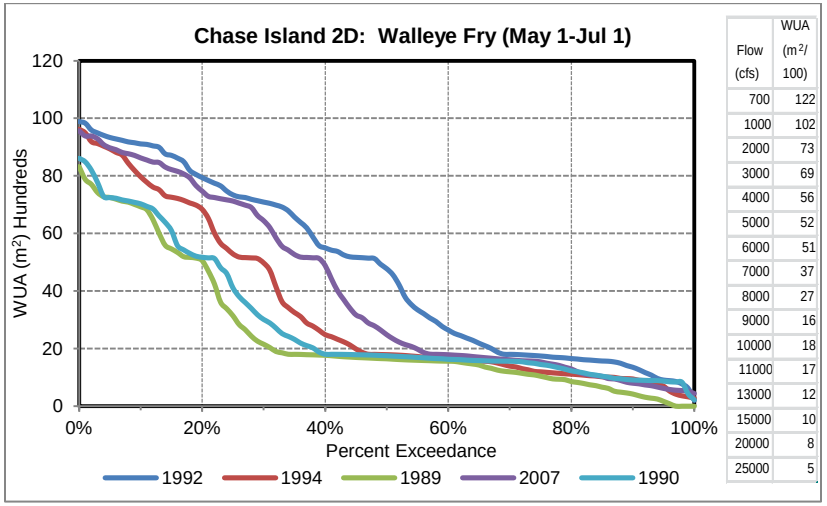


Flow (cfs)	WUA (m²/100)
700	318
1200	260
2200	182
3200	146
4200	143
5200	139
6200	127
7200	124
8200	123
9200	127
10200	135
11200	144
13000	158
15000	169
20000	192
25000	211

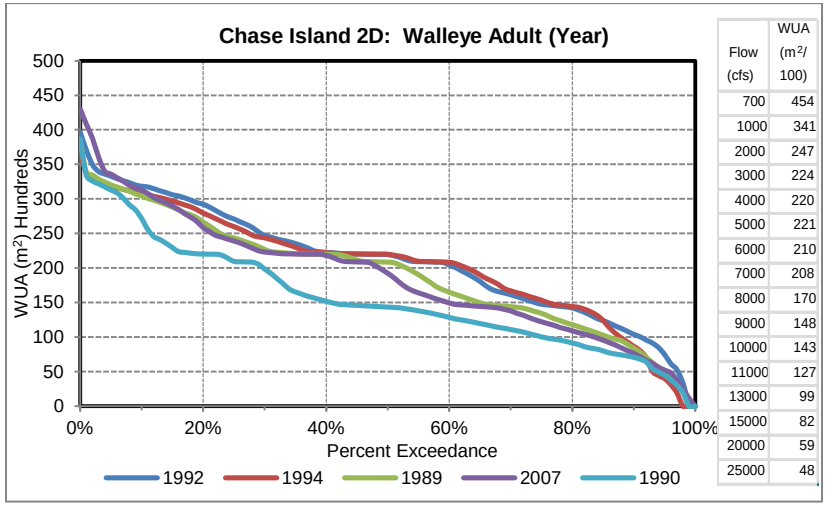




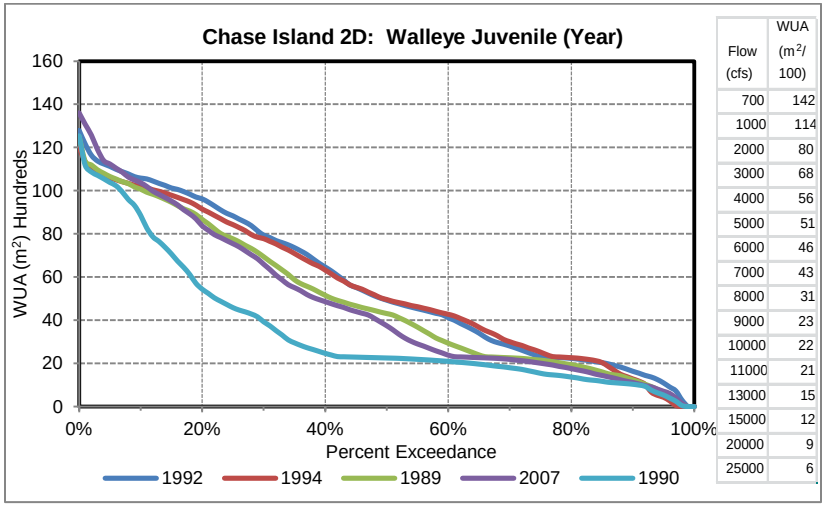




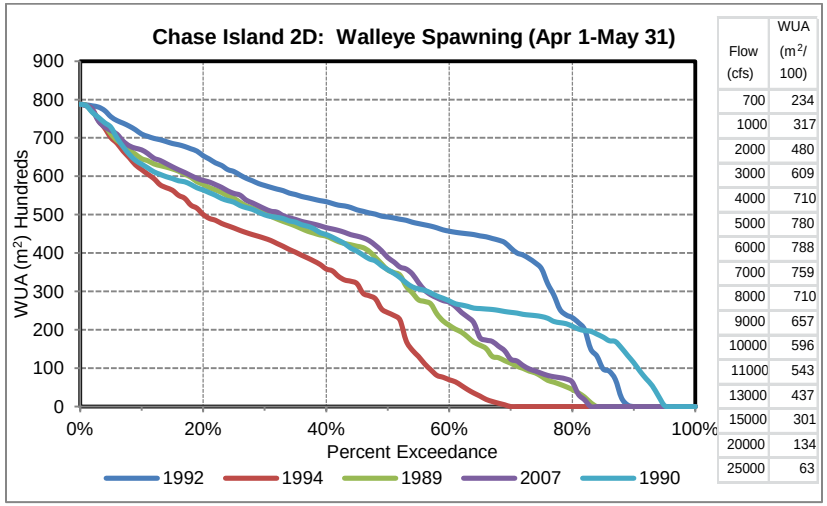
Flow (cfs)	WUA (m2/ 100)
700	122
1000	102
2000	73
3000	69
4000	56
5000	52
6000	51
7000	37
8000	27
9000	16
10000	18
11000	17
13000	12
15000	10
20000	8
25000	5



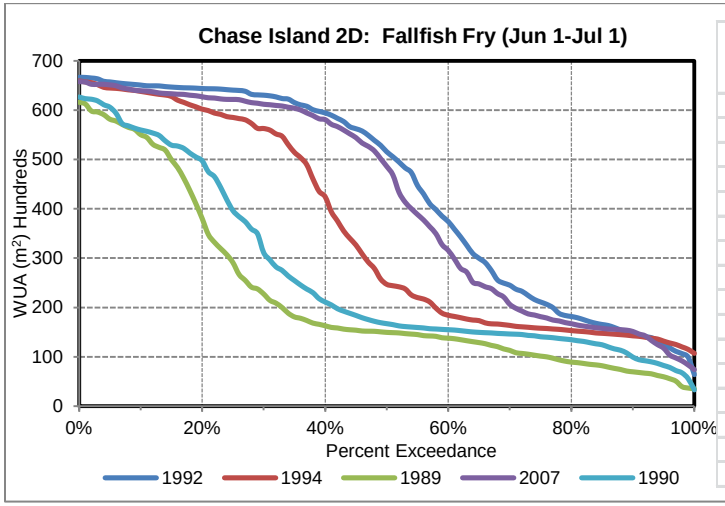
Flow (cfs)	WUA (m2/ 100)
700	454
1000	341
2000	247
3000	224
4000	220
5000	221
6000	210
7000	208
8000	170
9000	148
10000	143
11000	127
13000	99
15000	82
20000	59
25000	48



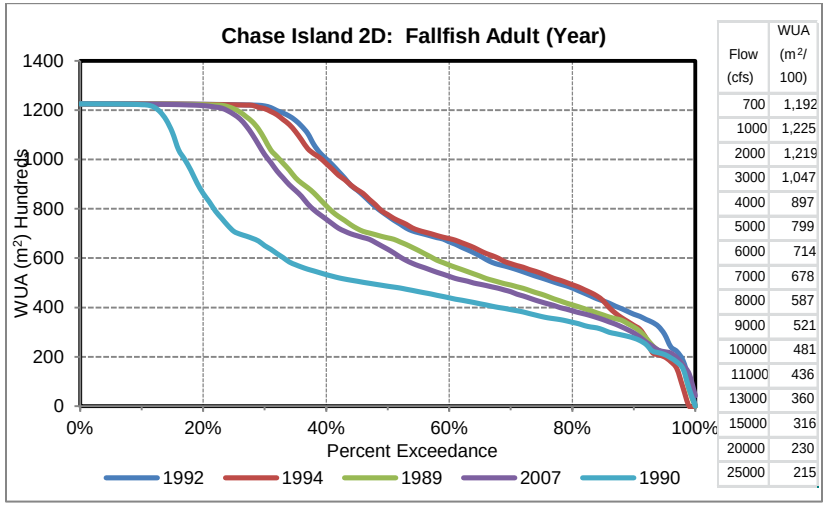
Flow (cfs)	WUA (m2/ 100)
700	142
1000	114
2000	80
3000	68
4000	56
5000	51
6000	46
7000	43
8000	31
9000	23
10000	22
11000	21
13000	15
15000	12
20000	9
25000	6



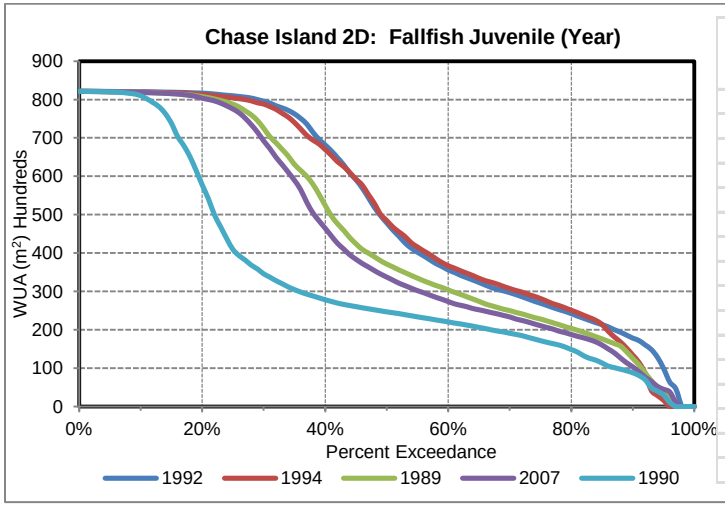
Flow (cfs)	WUA (m2/ 100)
700	234
1000	317
2000	480
3000	609
4000	710
5000	780
6000	788
7000	759
8000	710
9000	657
10000	596
11000	543
13000	437
15000	301
20000	134
25000	63



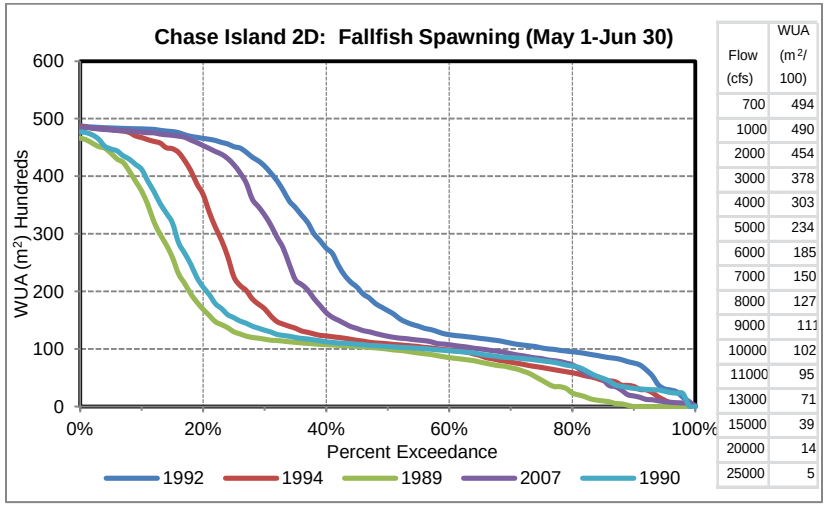
Flow (cfs)	WUA (m2/ 100)
700	706
1000	675
2000	573
3000	443
4000	333
5000	266
6000	226
7000	187
8000	164
9000	148
10000	132
11000	110
13000	69
15000	42
20000	20
25000	14



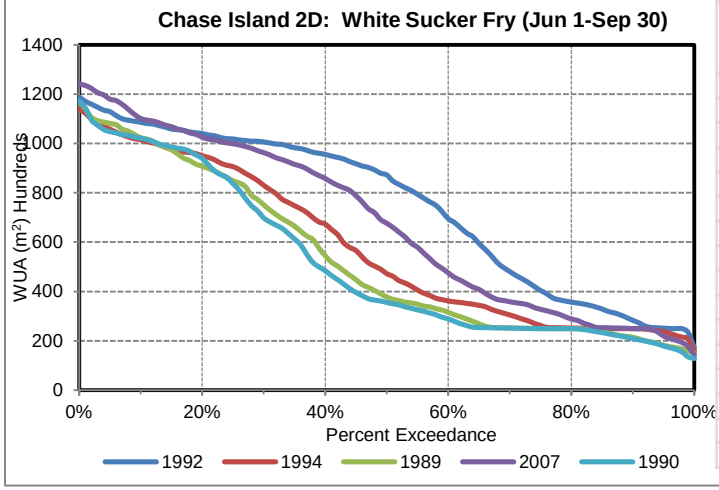
Flow (cfs)	WUA (m2/ 100)
700	1,192
1000	1,225
2000	1,219
3000	1,047
4000	897
5000	799
6000	714
7000	678
8000	587
9000	521
10000	481
11000	436
13000	360
15000	316
20000	230
25000	215



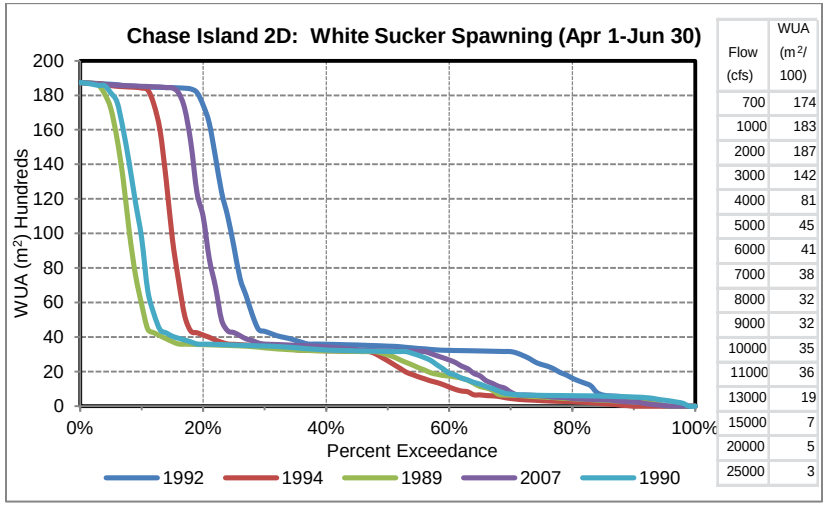
Flow (cfs)	WUA (m2/ 100)
700	809
1000	821
2000	796
3000	708
4000	610
5000	508
6000	417
7000	365
8000	313
9000	270
10000	244
11000	219
13000	169
15000	119
20000	57
25000	37



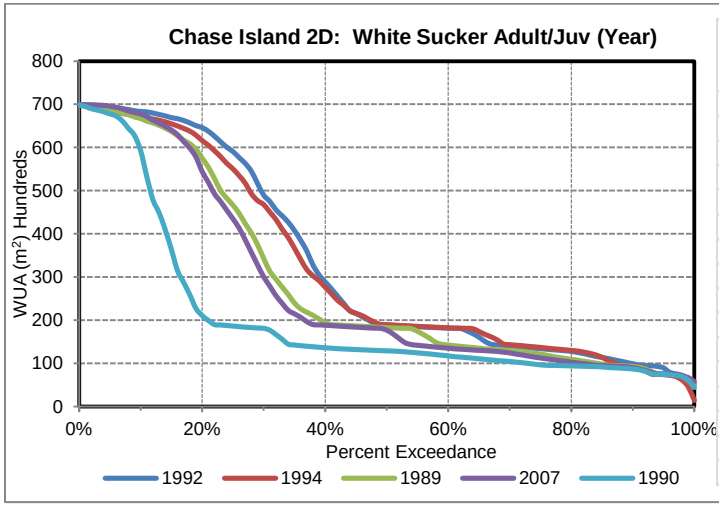
Flow (cfs)	WUA (m2/ 100)
700	494
1000	490
2000	454
3000	378
4000	303
5000	234
6000	185
7000	150
8000	127
9000	111
10000	102
11000	95
13000	71
15000	39
20000	14
25000	5



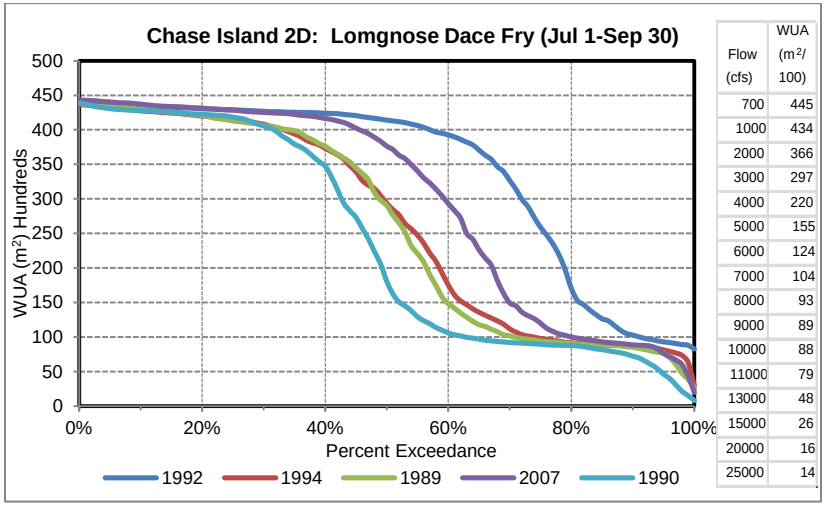
Flow (cfs)	WUA (m²/100)
700	1,279
1000	1,100
2000	699
3000	520
4000	422
5000	371
6000	348
7000	316
8000	255
9000	250
10000	249
11000	222
13000	176
15000	155
20000	136
25000	133



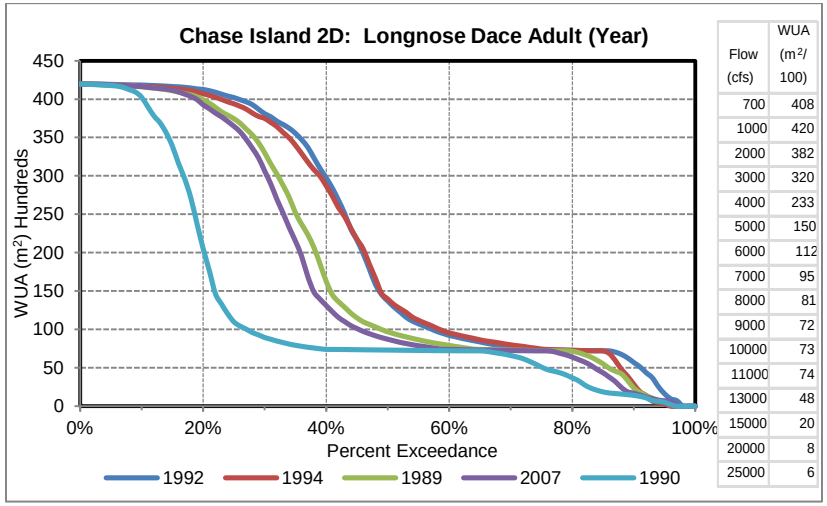
Flow (cfs)	WUA (m²/100)
700	174
1000	183
2000	187
3000	142
4000	81
5000	45
6000	41
7000	38
8000	32
9000	32
10000	35
11000	36
13000	19
15000	7
20000	5
25000	3



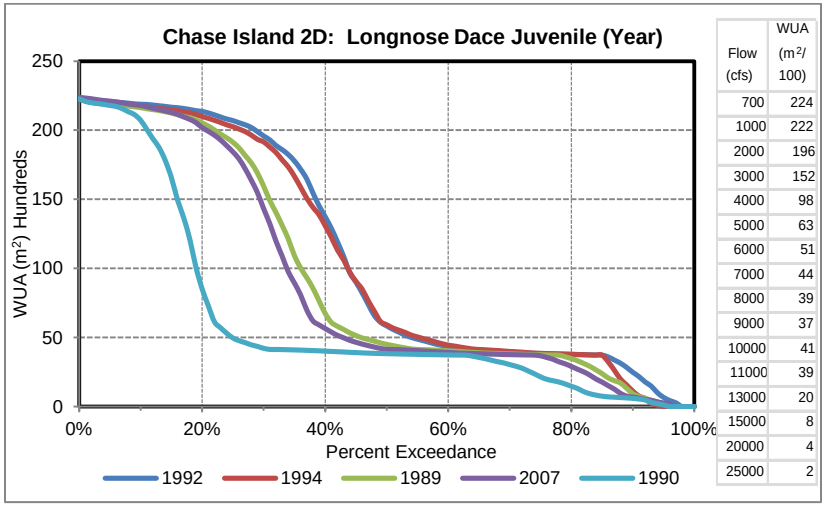
Flow (cfs)	WUA (m²/100)
700	700
1000	698
2000	493
3000	320
4000	223
5000	190
6000	181
7000	190
8000	145
9000	134
10000	128
11000	116
13000	96
15000	93
20000	76
25000	75



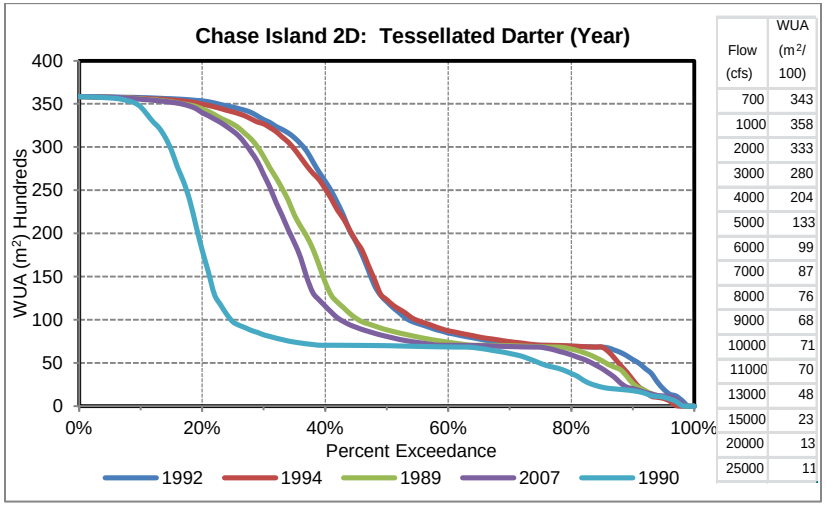
Flow (cfs)	WUA (m2/ 100)
700	445
1000	434
2000	366
3000	297
4000	220
5000	155
6000	124
7000	104
8000	93
9000	89
10000	88
11000	79
13000	48
15000	26
20000	16
25000	14



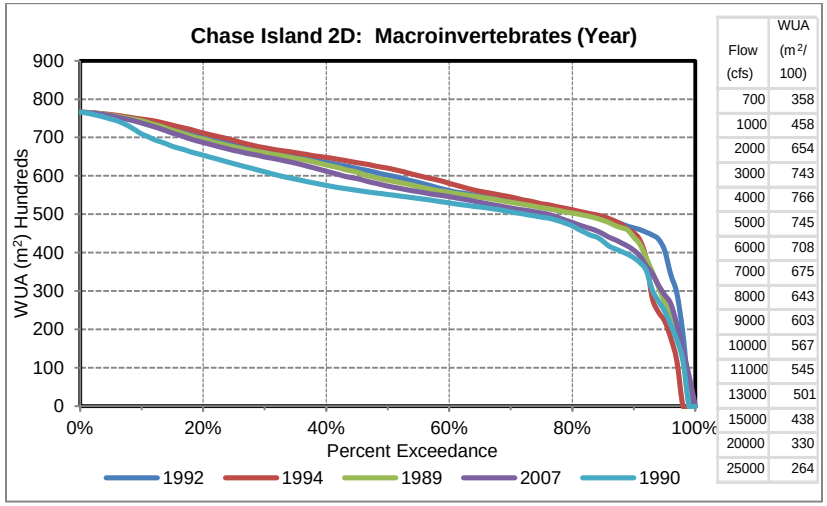
Flow (cfs)	WUA (m2/ 100)
700	408
1000	420
2000	382
3000	320
4000	233
5000	150
6000	112
7000	95
8000	81
9000	72
10000	73
11000	74
13000	48
15000	20
20000	8
25000	6



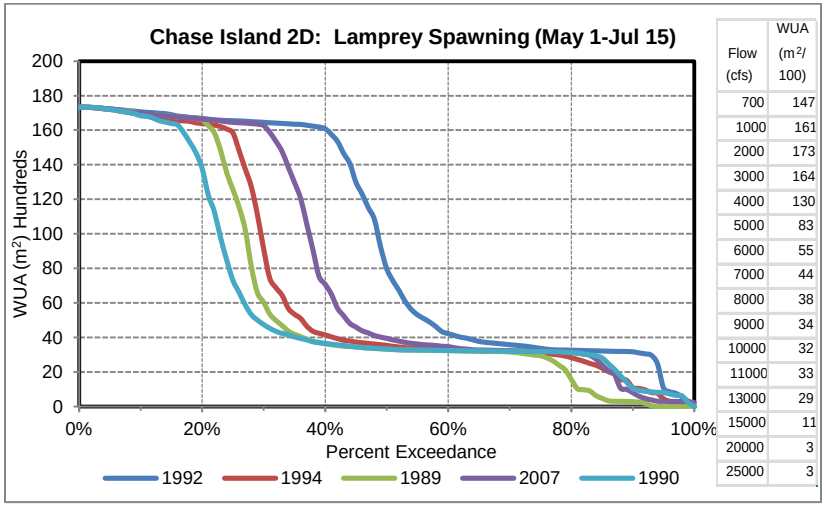
Flow (cfs)	WUA (m2/ 100)
700	224
1000	222
2000	196
3000	152
4000	98
5000	63
6000	51
7000	44
8000	39
9000	37
10000	41
11000	39
13000	20
15000	8
20000	4
25000	2



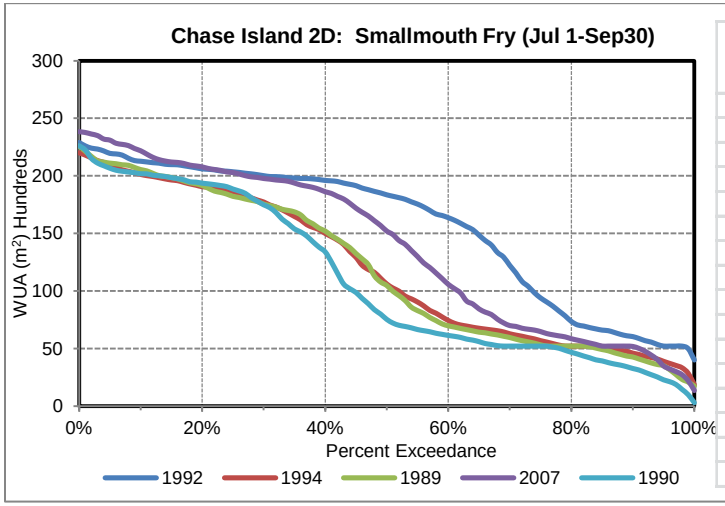
Flow (cfs)	WUA (m²/100)
700	343
1000	358
2000	333
3000	280
4000	204
5000	133
6000	99
7000	87
8000	76
9000	68
10000	71
11000	70
13000	48
15000	23
20000	13
25000	11



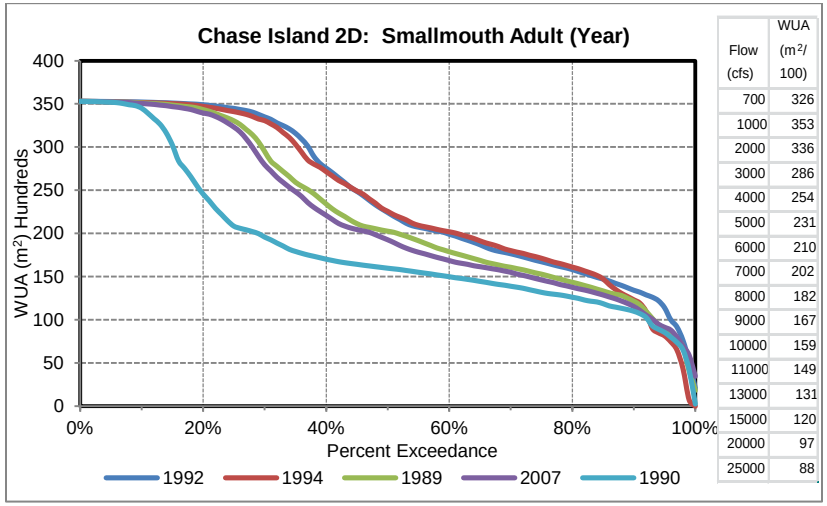
Flow (cfs)	WUA (m²/100)
700	358
1000	458
2000	654
3000	743
4000	766
5000	745
6000	708
7000	675
8000	643
9000	603
10000	567
11000	545
13000	501
15000	438
20000	330
25000	264



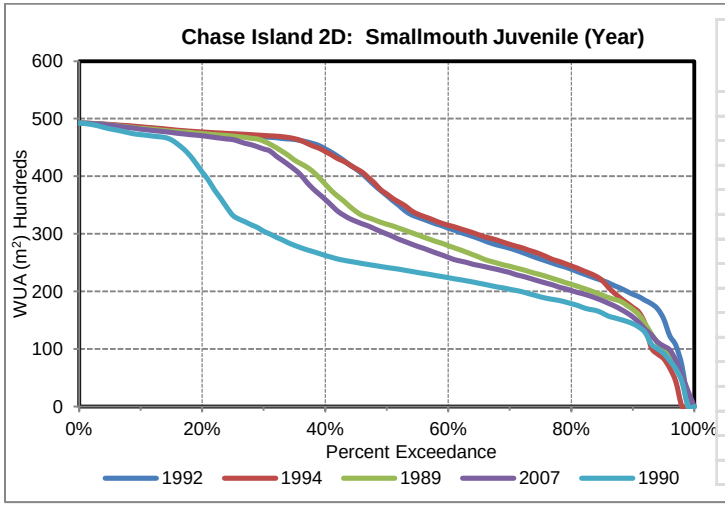
Flow (cfs)	WUA (m²/100)
700	147
1000	161
2000	173
3000	164
4000	130
5000	83
6000	55
7000	44
8000	38
9000	34
10000	32
11000	33
13000	29
15000	11
20000	3
25000	3



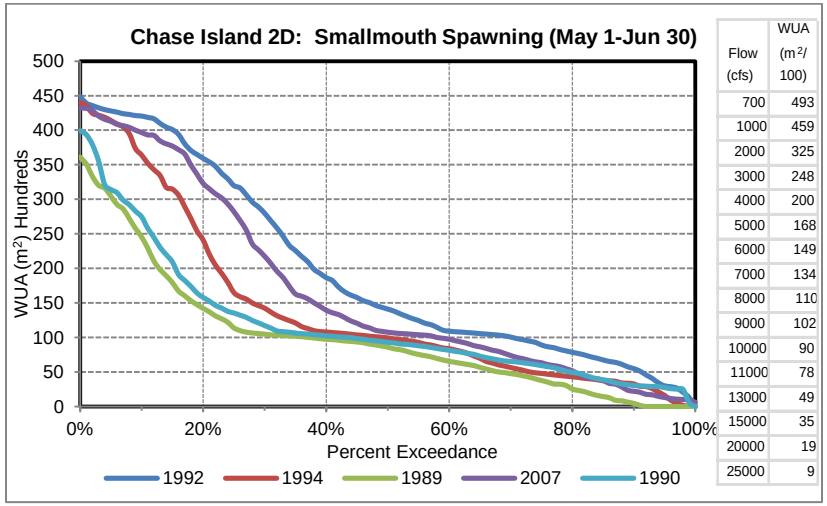
Flow (cfs)	WUA (m2/100)
700	245
1000	213
2000	146
3000	107
4000	83
5000	71
6000	66
7000	61
8000	52
9000	52
10000	46
11000	37
13000	23
15000	18
20000	11
25000	8



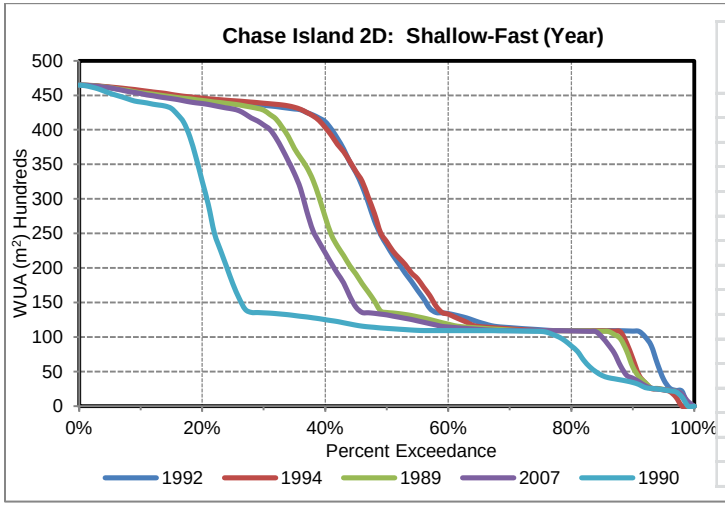
Flow (cfs)	WUA (m2/100)
700	326
1000	353
2000	336
3000	286
4000	254
5000	231
6000	210
7000	202
8000	182
9000	167
10000	159
11000	149
13000	131
15000	120
20000	97
25000	88



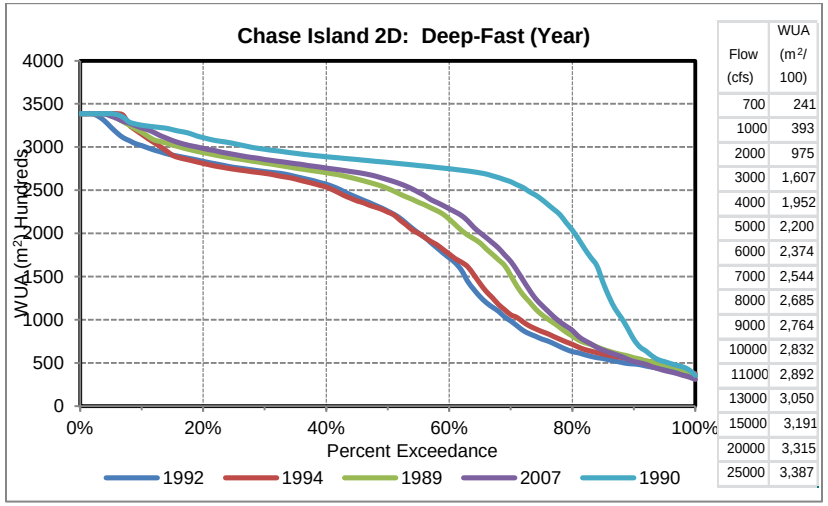
Flow (cfs)	WUA (m2/100)
700	428
1000	464
2000	492
3000	458
4000	420
5000	380
6000	335
7000	314
8000	285
9000	257
10000	240
11000	223
13000	189
15000	166
20000	117
25000	98



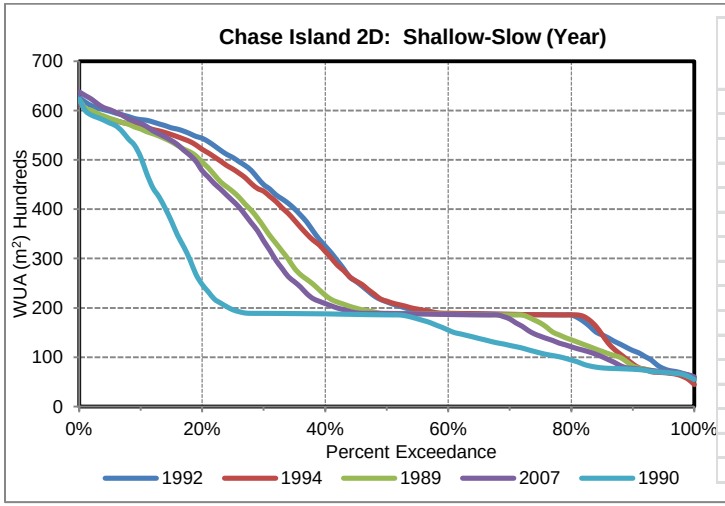
Flow (cfs)	WUA (m2/100)
700	493
1000	459
2000	325
3000	248
4000	200
5000	168
6000	149
7000	134
8000	110
9000	102
10000	90
11000	78
13000	49
15000	35
20000	19
25000	9



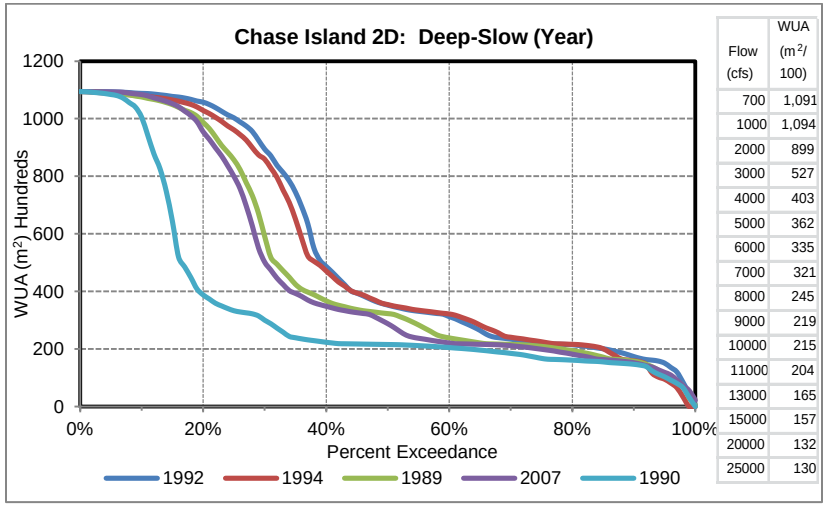
Flow (cfs)	WUA (m2/100)
700	374
1000	429
2000	465
3000	429
4000	355
5000	257
6000	186
7000	116
8000	109
9000	109
10000	108
11000	136
13000	109
15000	46
20000	22
25000	26



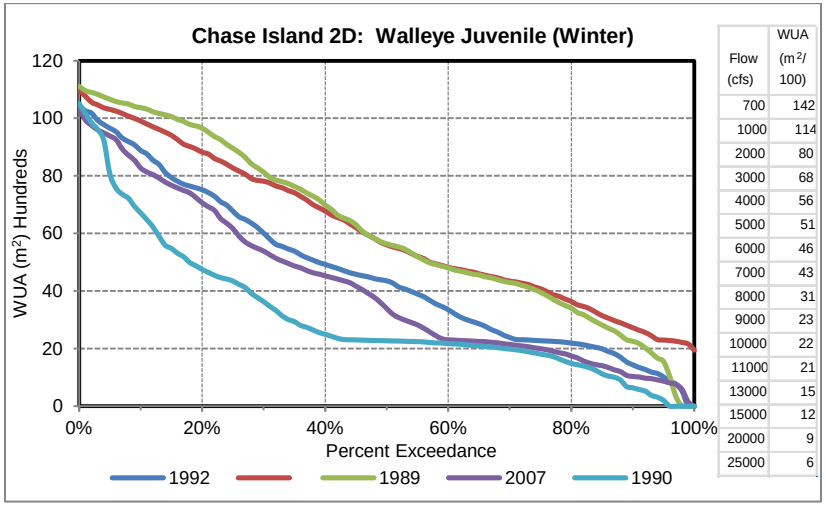
Flow (cfs)	WUA (m2/100)
700	241
1000	393
2000	975
3000	1,607
4000	1,952
5000	2,200
6000	2,374
7000	2,544
8000	2,685
9000	2,764
10000	2,832
11000	2,892
13000	3,050
15000	3,191
20000	3,315
25000	3,387



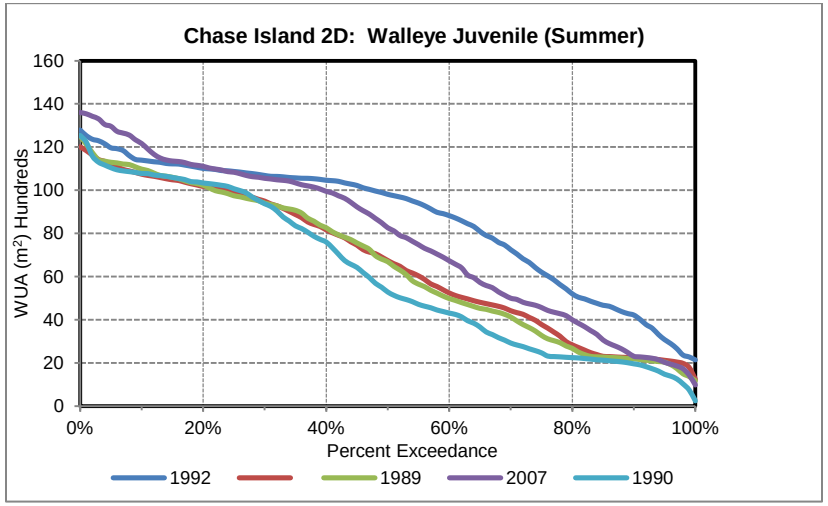
Flow (cfs)	WUA (m2/100)
700	646
1000	607
2000	452
3000	352
4000	263
5000	220
6000	198
7000	186
8000	186
9000	189
10000	188
11000	151
13000	107
15000	79
20000	72
25000	70

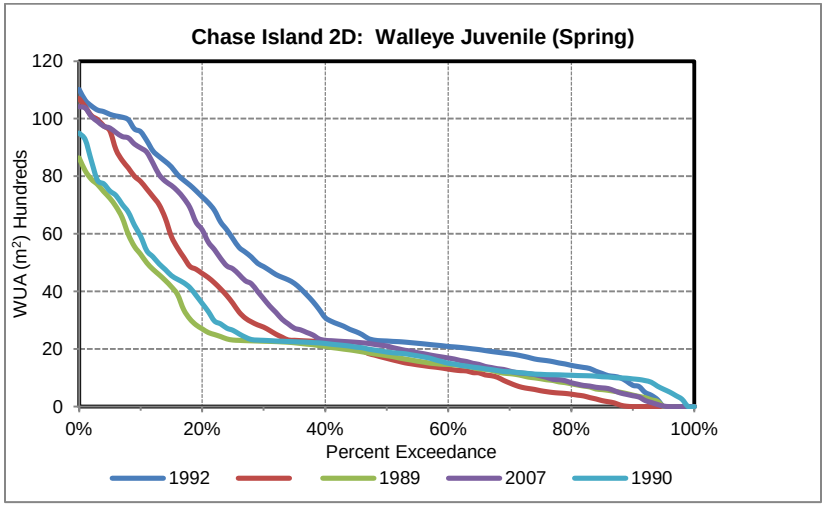


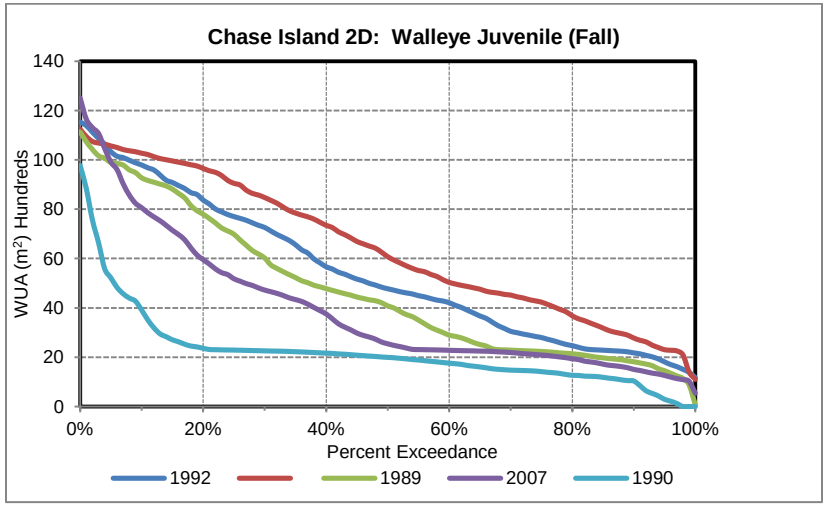
Flow (cfs)	WUA (m2/100)
700	1,091
1000	1,094
2000	899
3000	527
4000	403
5000	362
6000	335
7000	321
8000	245
9000	219
10000	215
11000	204
13000	165
15000	157
20000	132
25000	130

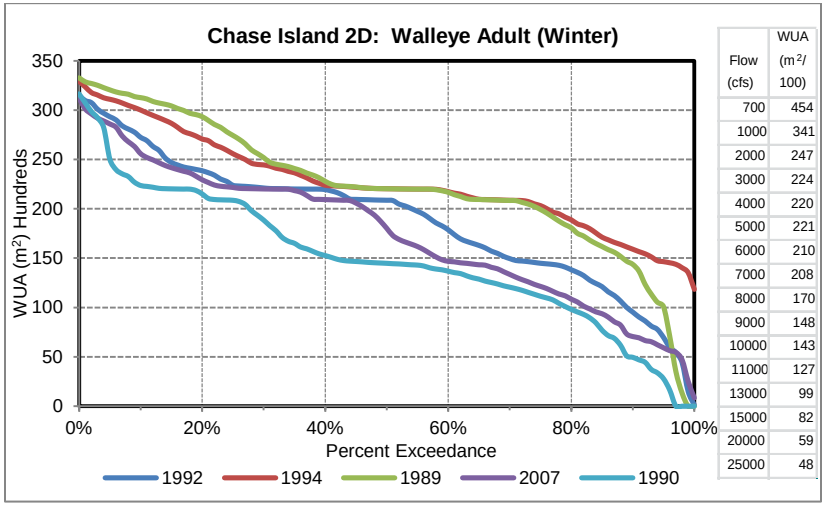


Flow (cfs)	WUA (m²/100)
700	142
1000	114
2000	80
3000	68
4000	56
5000	51
6000	46
7000	43
8000	31
9000	23
10000	22
11000	21
13000	15
15000	12
20000	9
25000	6

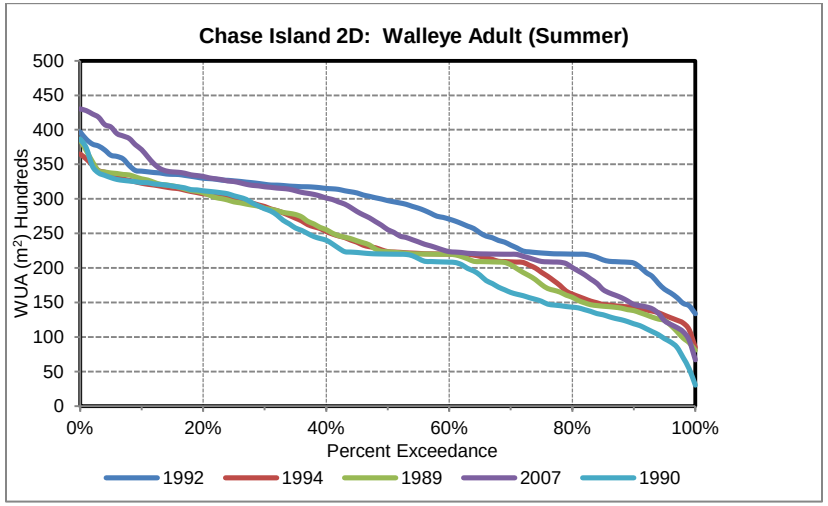


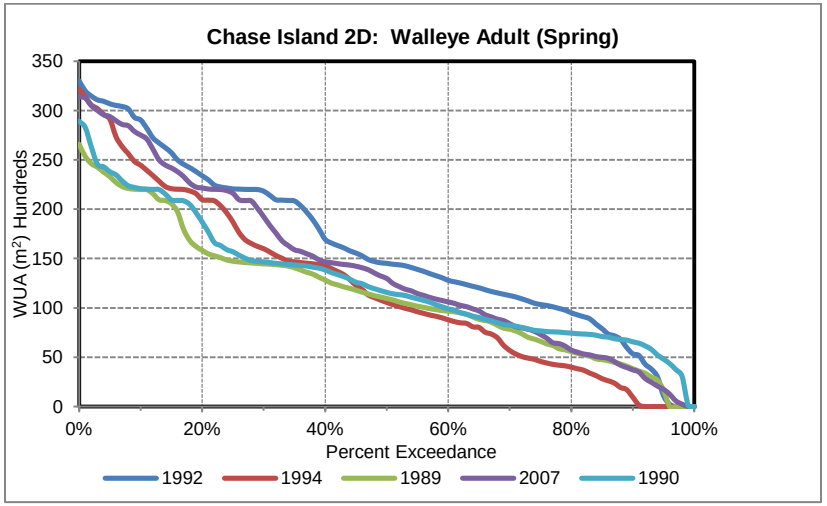


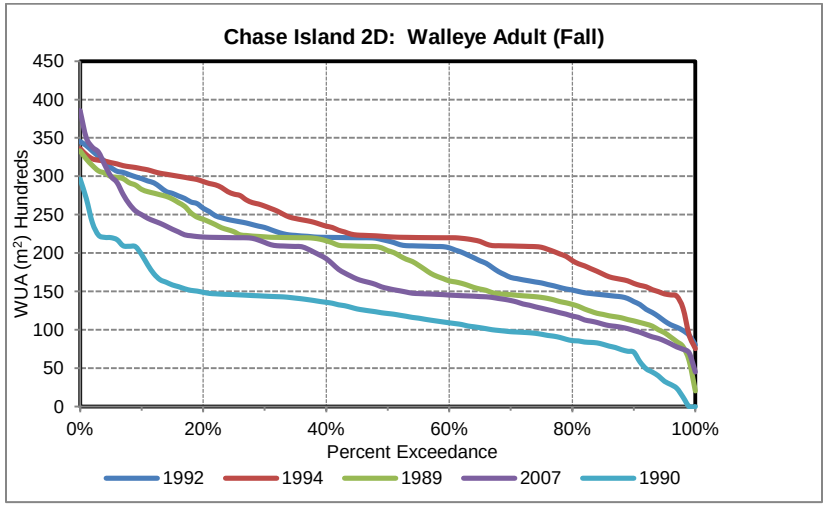


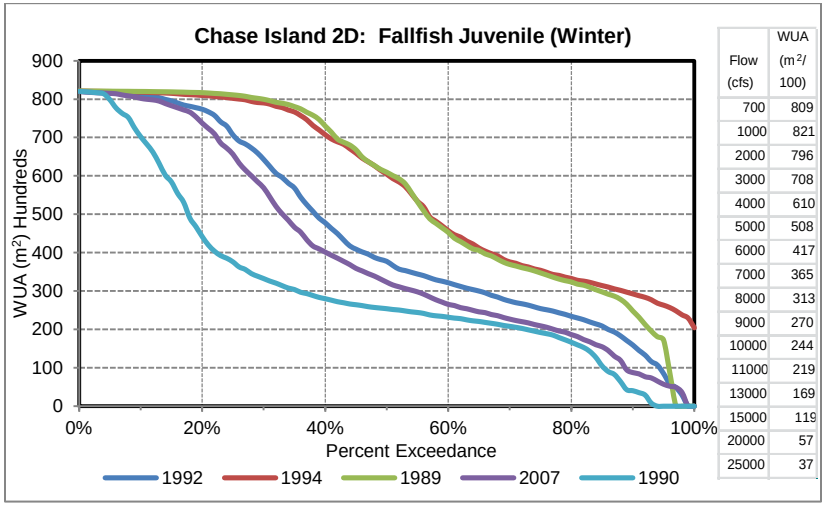


Flow (cfs)	WUA (m²/100)
700	454
1000	341
2000	247
3000	224
4000	220
5000	221
6000	210
7000	208
8000	170
9000	148
10000	143
11000	127
13000	99
15000	82
20000	59
25000	48

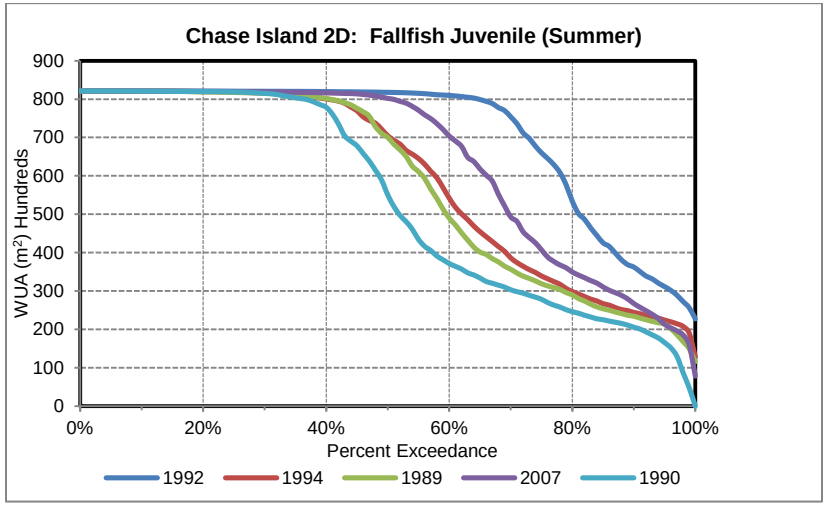


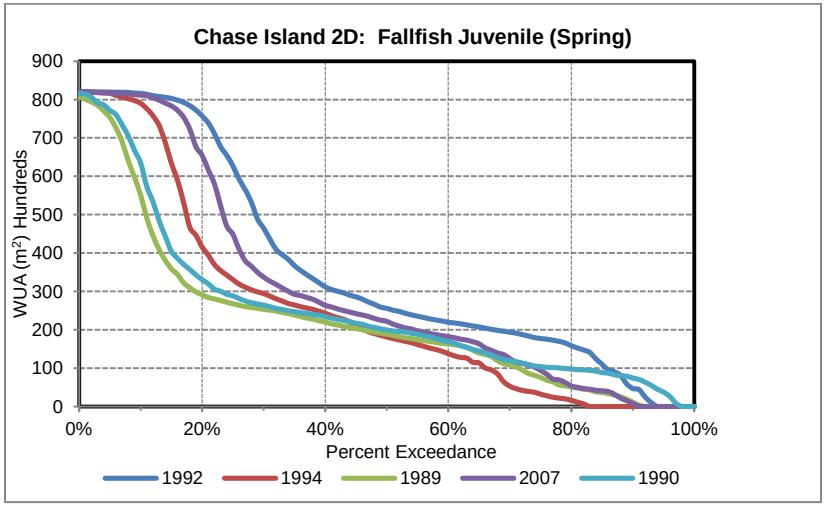


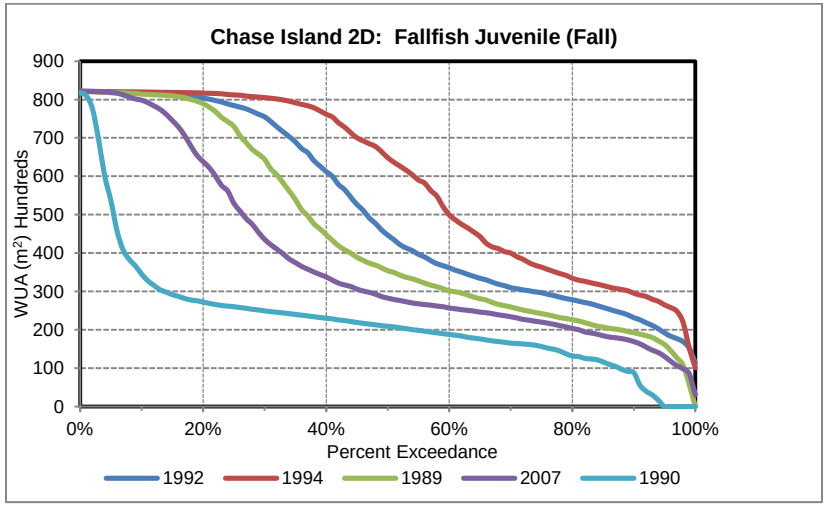


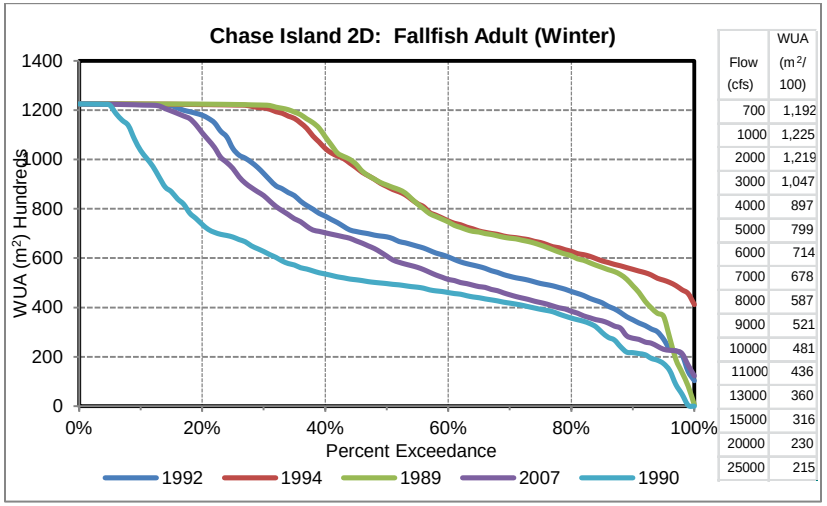


Flow (cfs)	WUA (m²/100)
700	809
1000	821
2000	796
3000	708
4000	610
5000	508
6000	417
7000	365
8000	313
9000	270
10000	244
11000	219
13000	169
15000	119
20000	57
25000	37

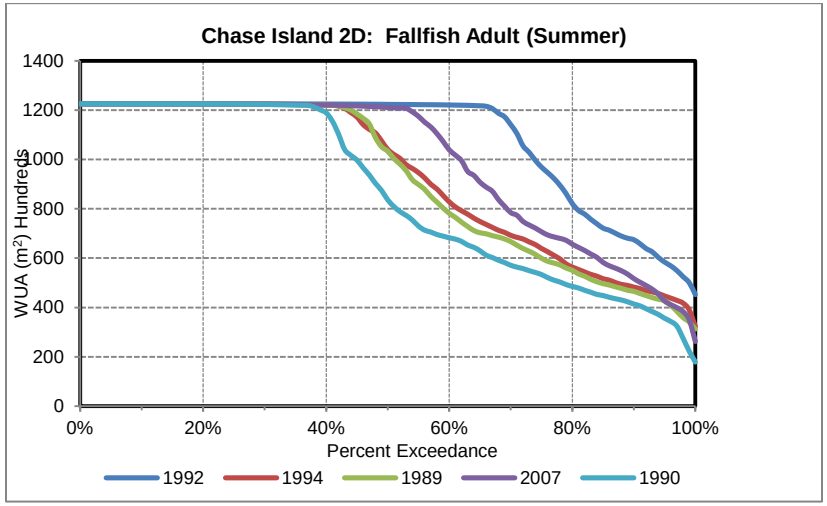


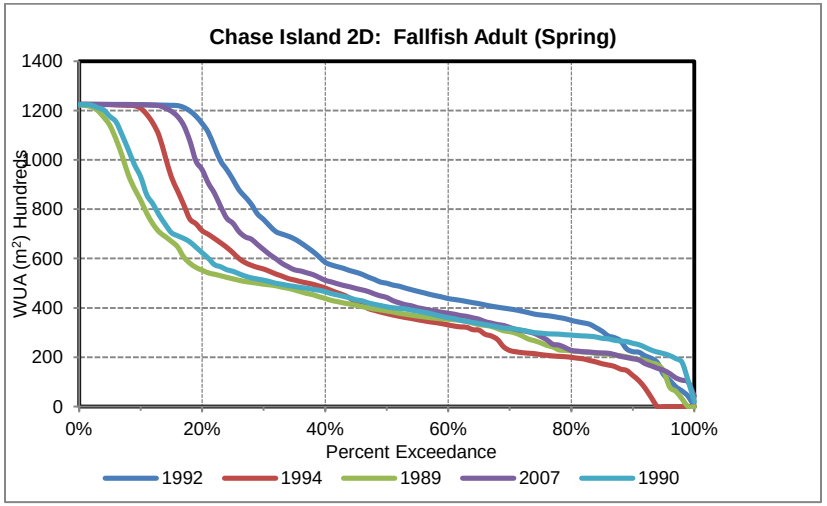


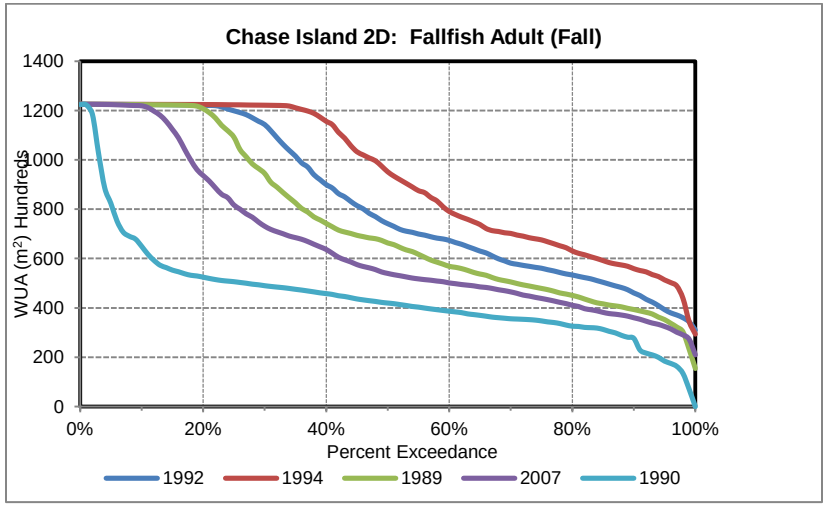


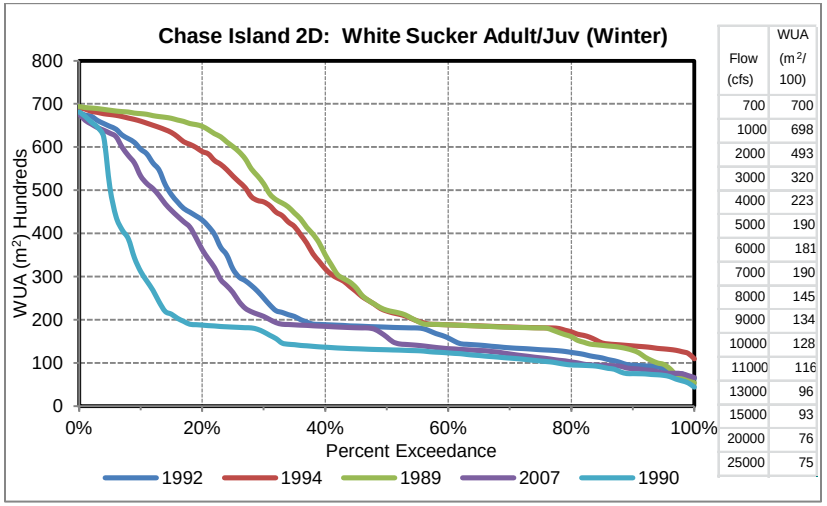


Flow (cfs)	WUA (m²/100)
700	1,192
1000	1,225
2000	1,219
3000	1,047
4000	897
5000	799
6000	714
7000	678
8000	587
9000	521
10000	481
11000	436
13000	360
15000	316
20000	230
25000	215

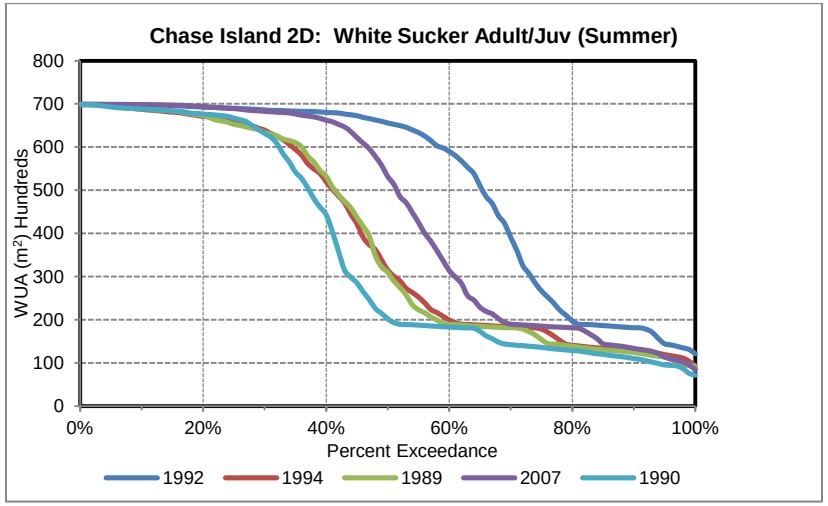


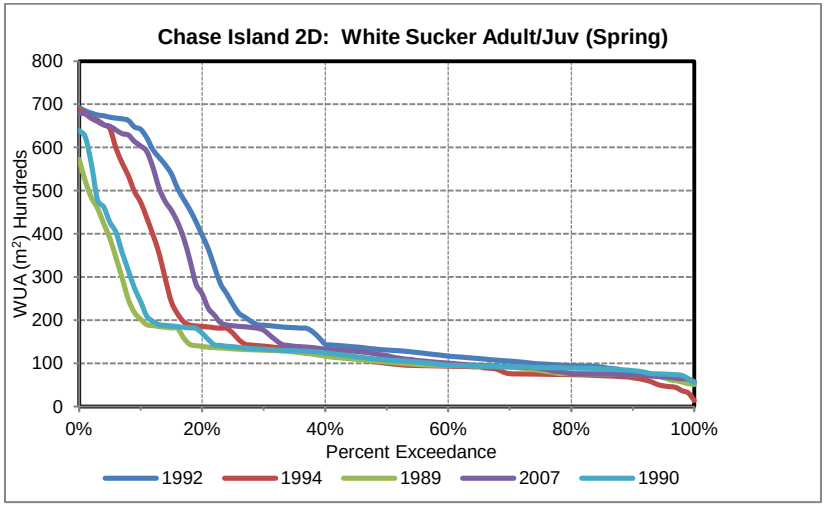


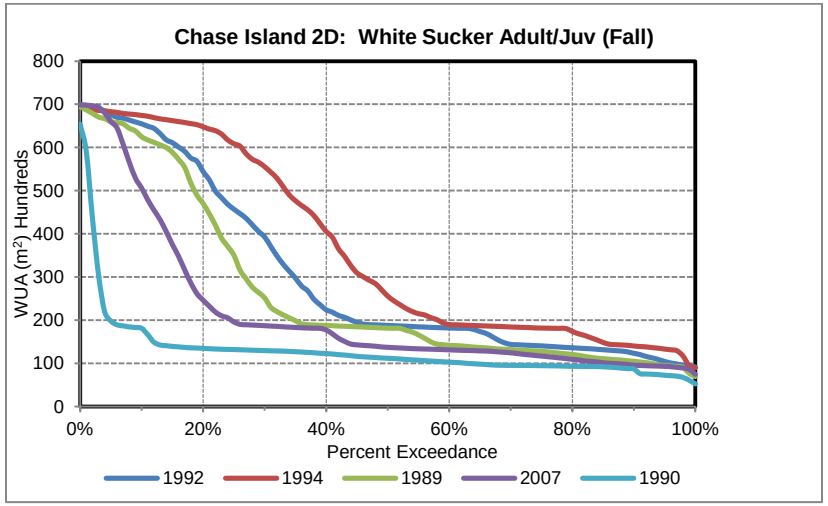


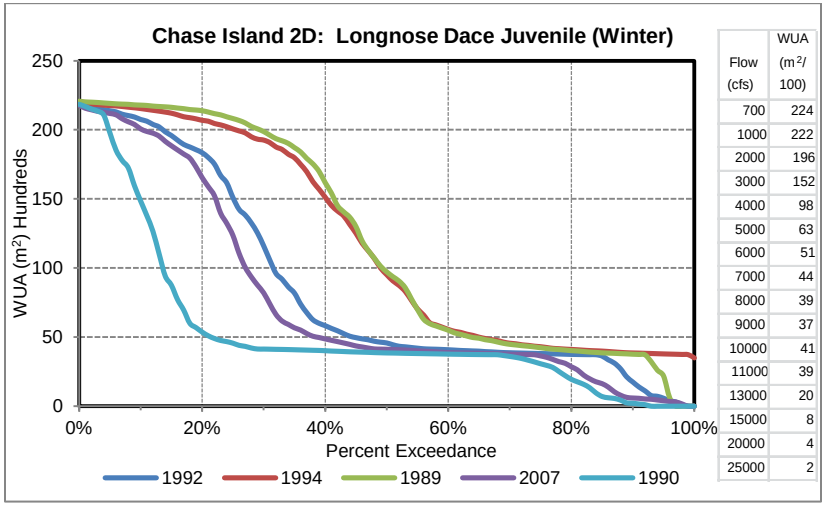


Flow (cfs)	WUA (m²/100)
700	700
1000	698
2000	493
3000	320
4000	223
5000	190
6000	181
7000	190
8000	145
9000	134
10000	128
11000	116
13000	96
15000	93
20000	76
25000	75

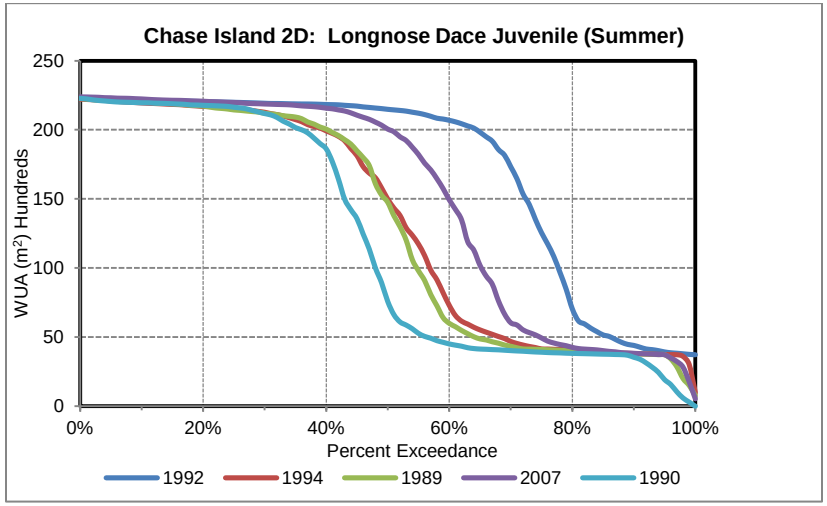


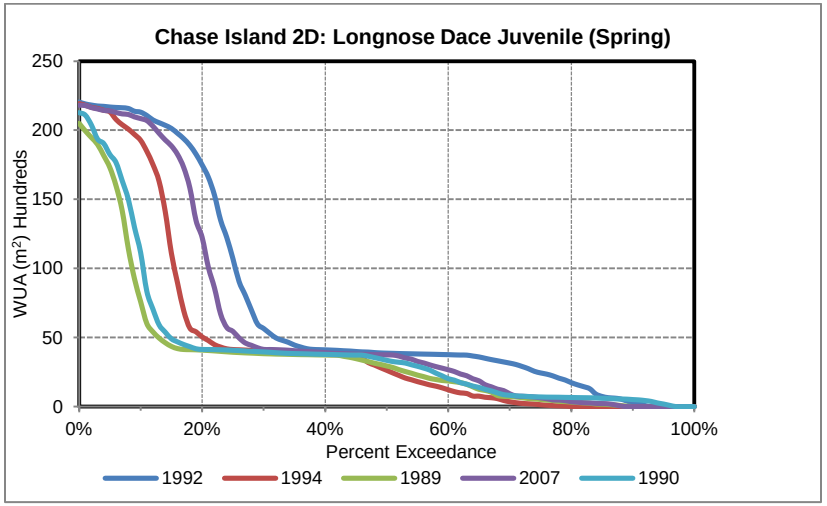


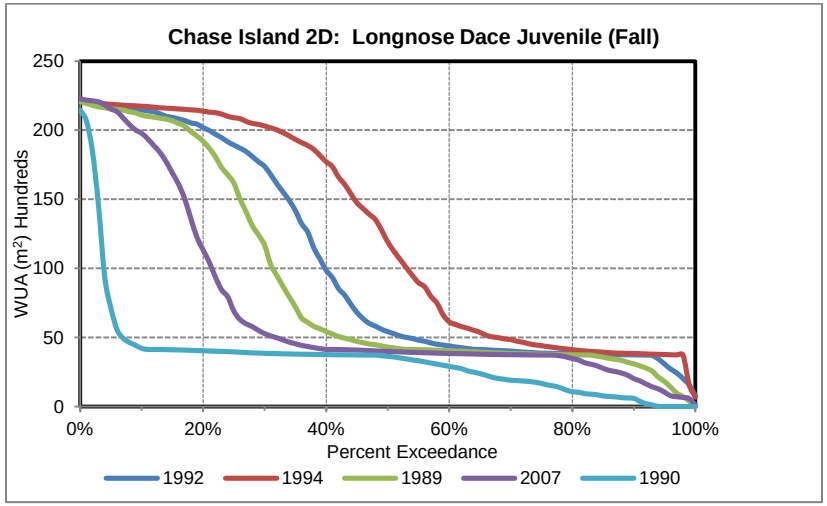


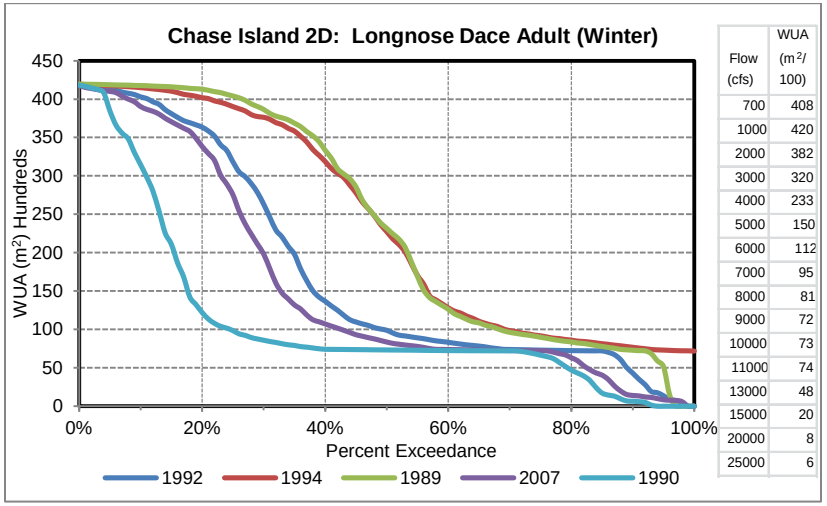


Flow (cfs)	WUA (m²/100)
700	224
1000	222
2000	196
3000	152
4000	98
5000	63
6000	51
7000	44
8000	39
9000	37
10000	41
11000	39
13000	20
15000	8
20000	4
25000	2

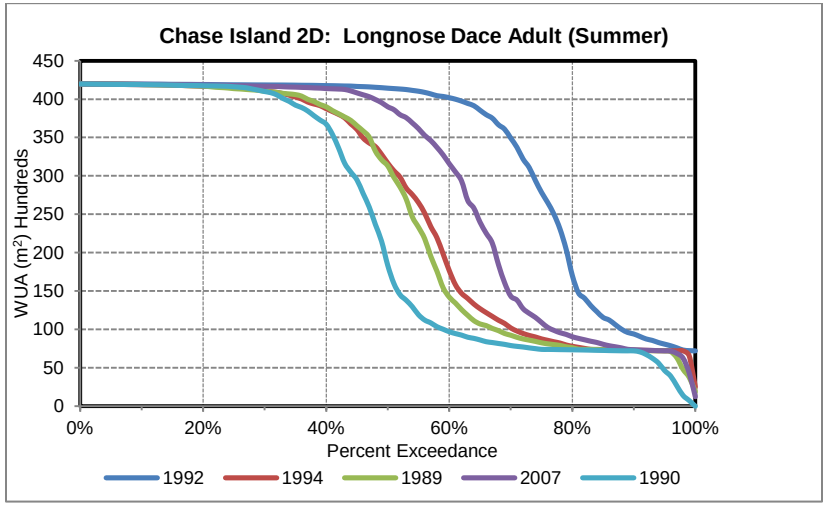


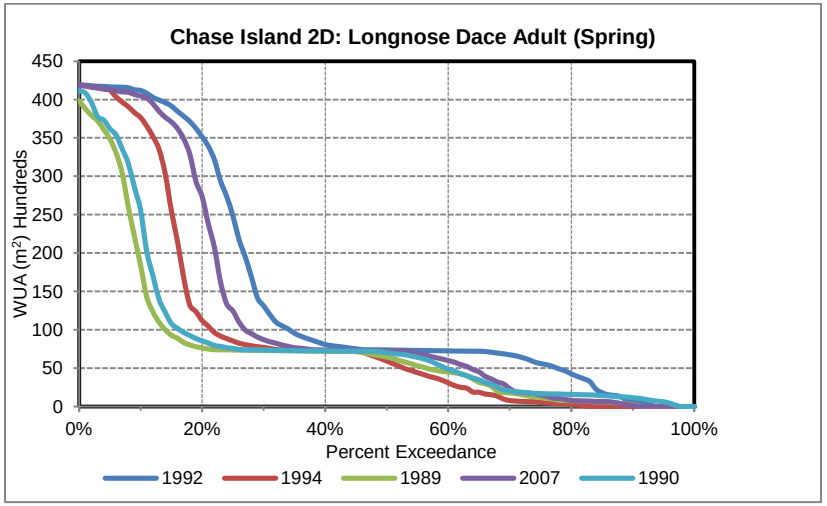


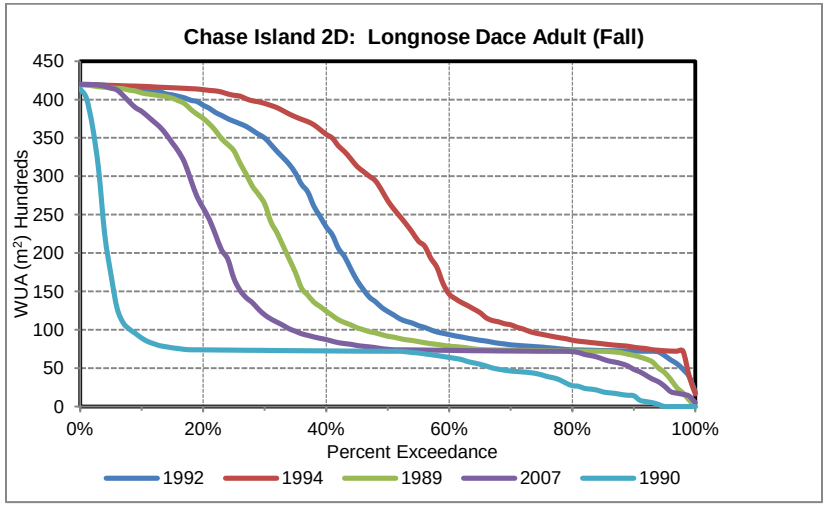


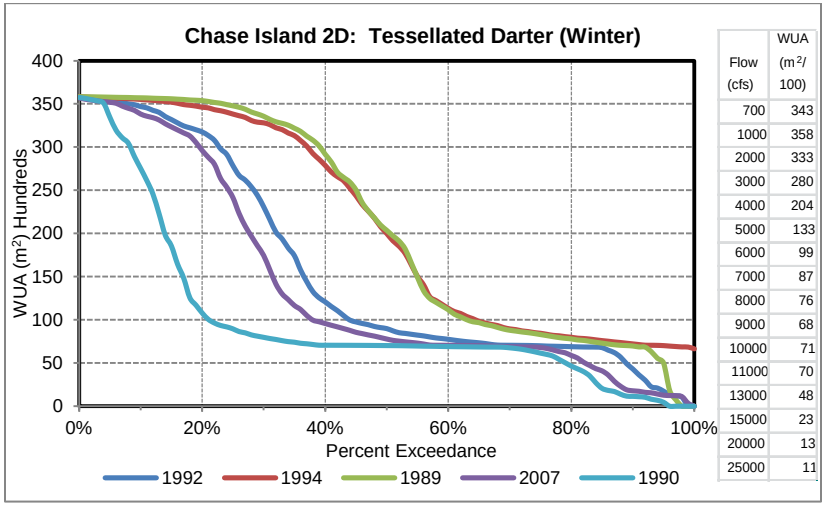


Flow (cfs)	WUA (m²/100)
700	408
1000	420
2000	382
3000	320
4000	233
5000	150
6000	112
7000	95
8000	81
9000	72
10000	73
11000	74
13000	48
15000	20
20000	8
25000	6

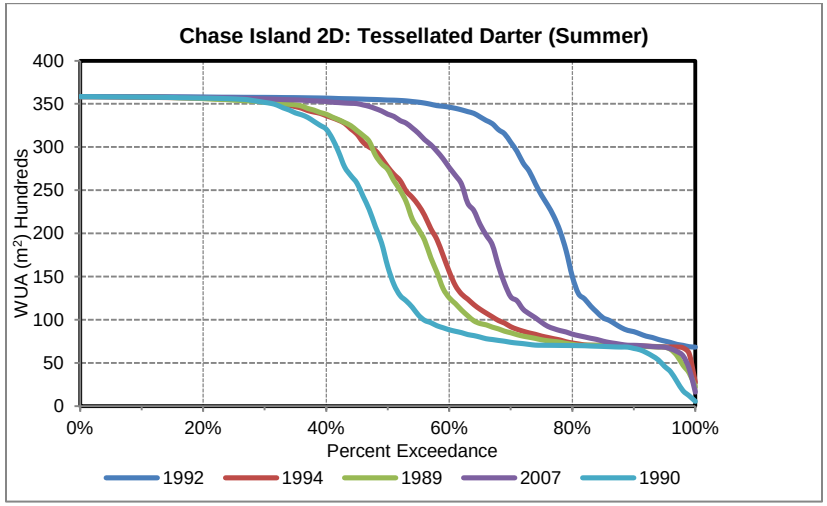


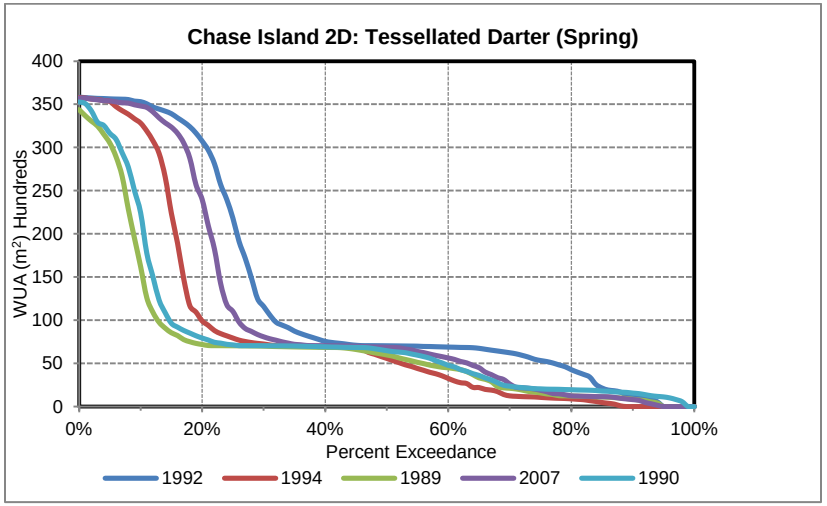


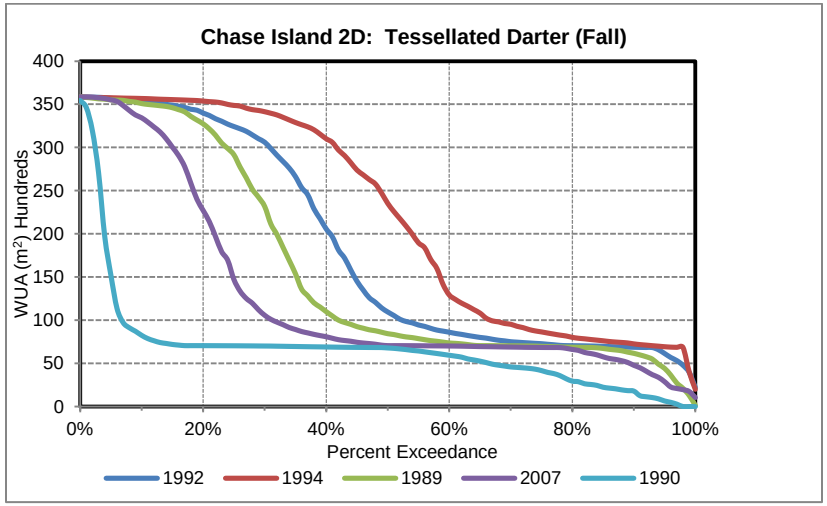


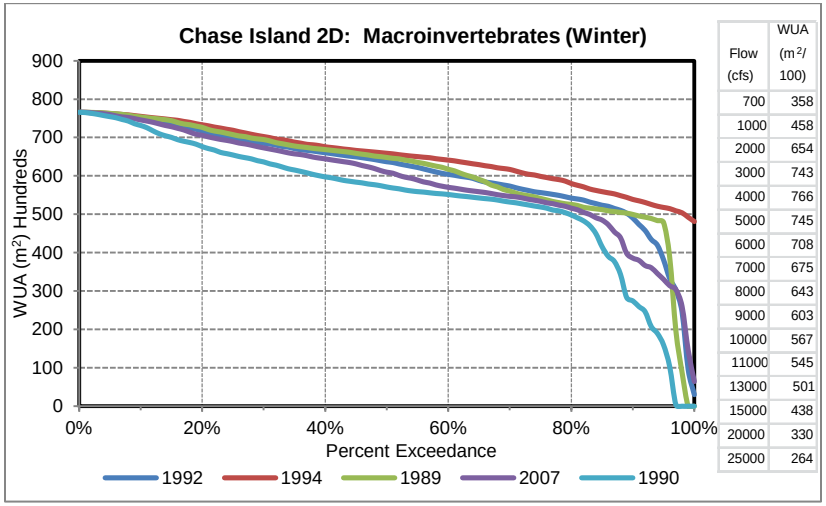


Flow (cfs)	WUA (m²/100)
700	343
1000	358
2000	333
3000	280
4000	204
5000	133
6000	99
7000	87
8000	76
9000	68
10000	71
11000	70
13000	48
15000	23
20000	13
25000	11

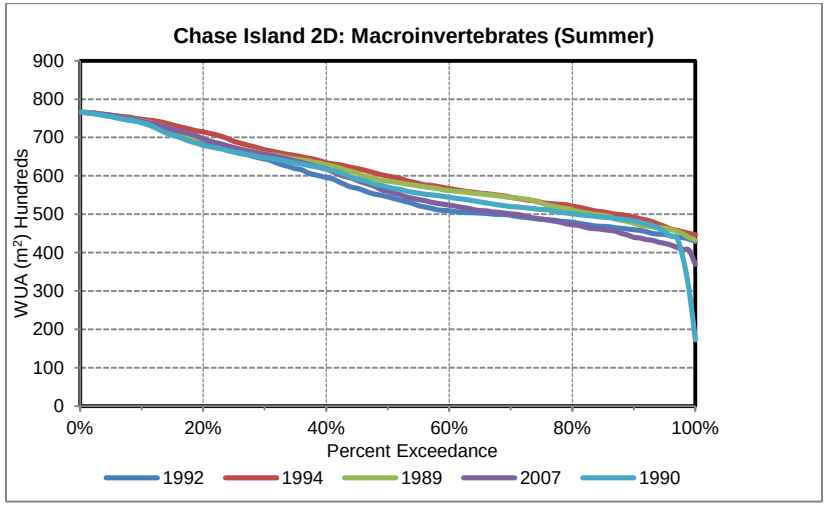


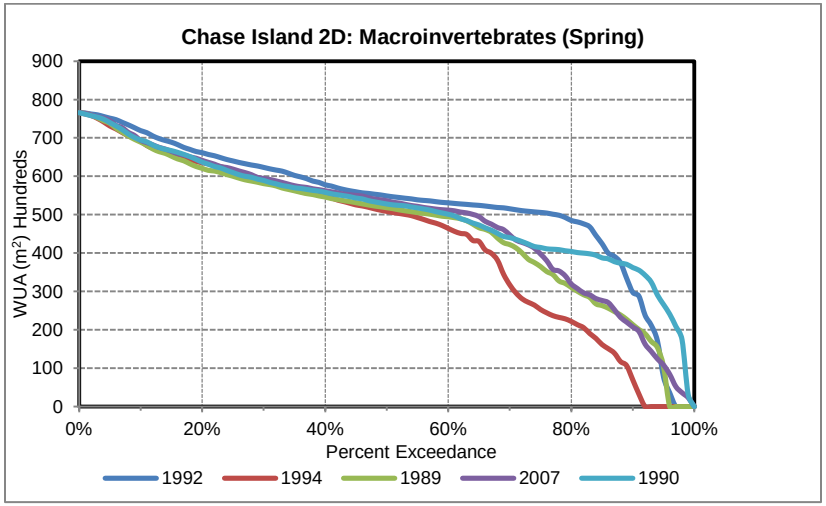


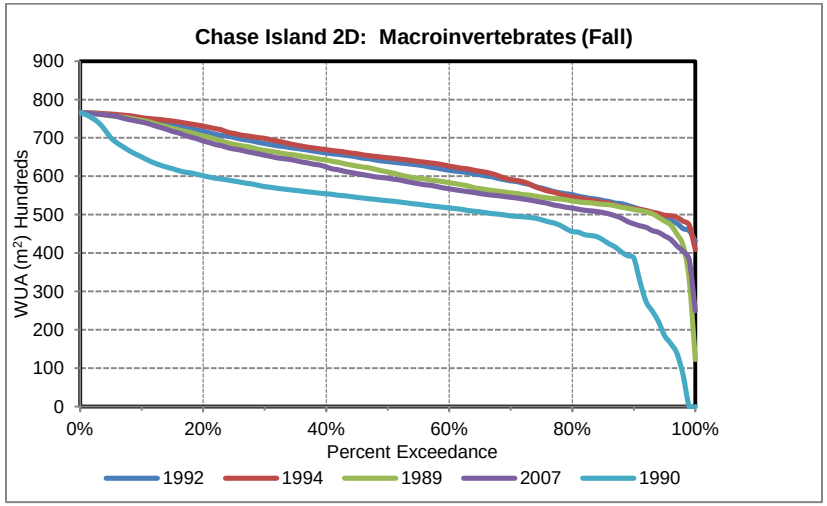


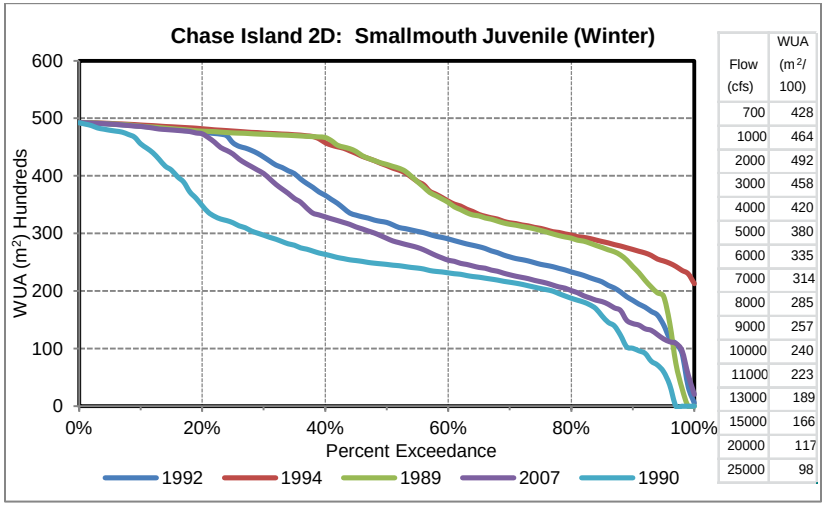


Flow (cfs)	WUA (m²/100)
700	358
1000	458
2000	654
3000	743
4000	766
5000	745
6000	708
7000	675
8000	643
9000	603
10000	567
11000	545
13000	501
15000	438
20000	330
25000	264

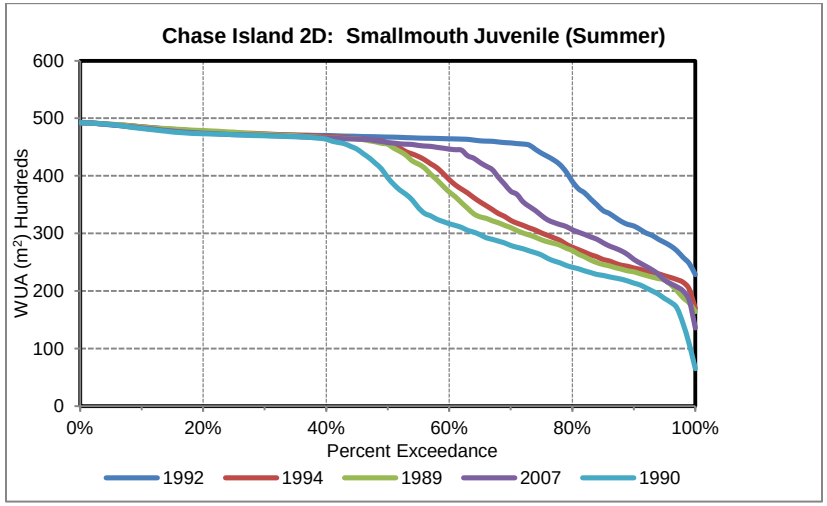


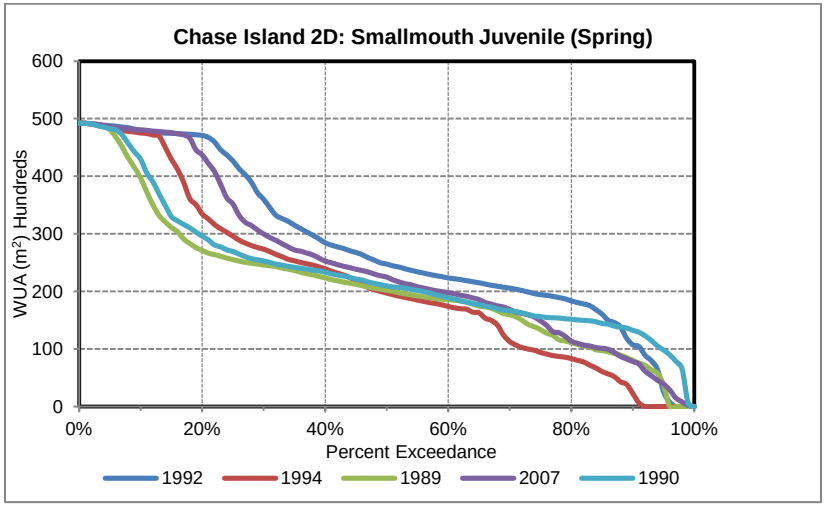


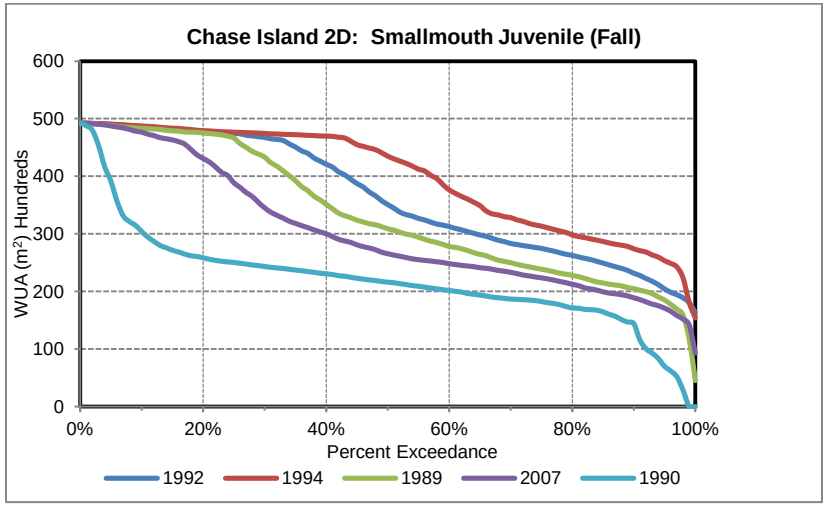


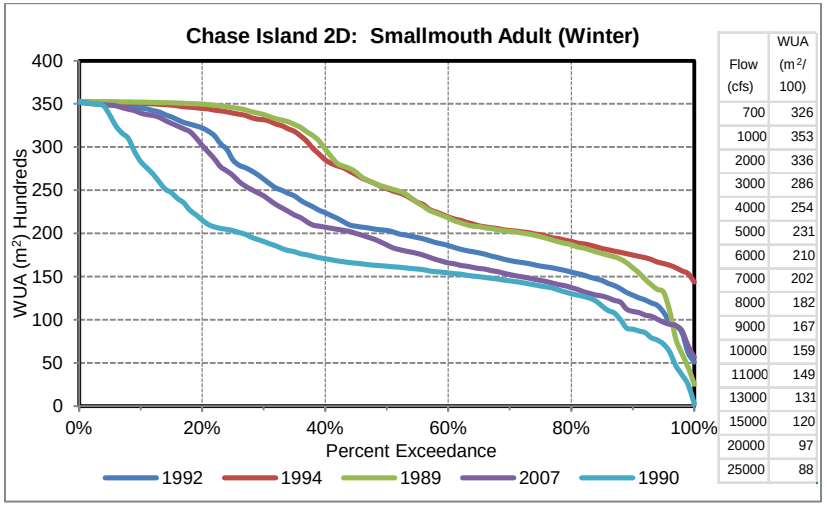


Flow (cfs)	WUA (m²/100)
700	428
1000	464
2000	492
3000	458
4000	420
5000	380
6000	335
7000	314
8000	285
9000	257
10000	240
11000	223
13000	189
15000	166
20000	117
25000	98

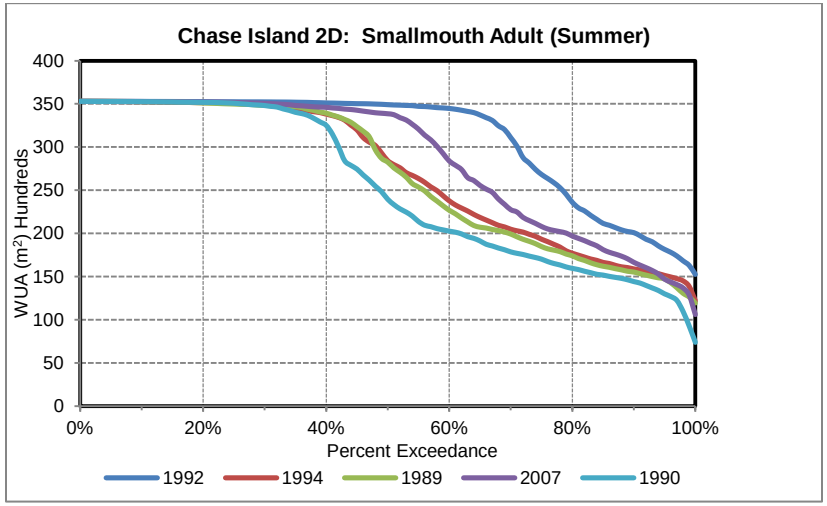


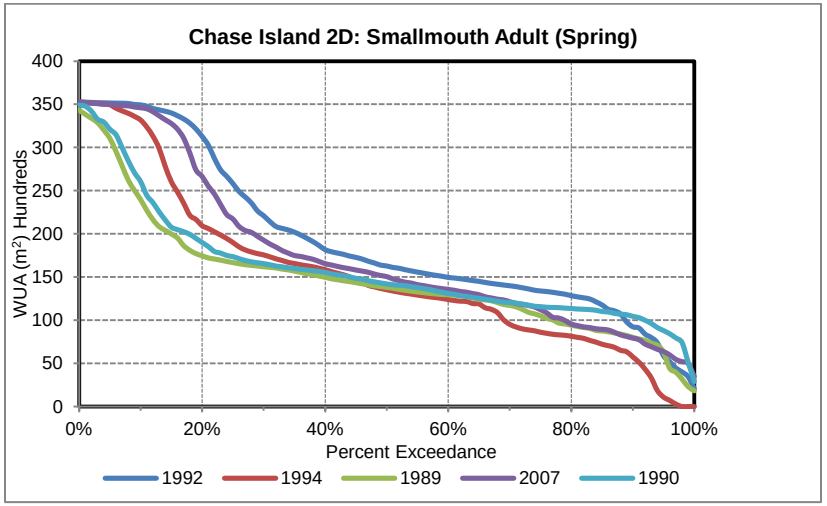


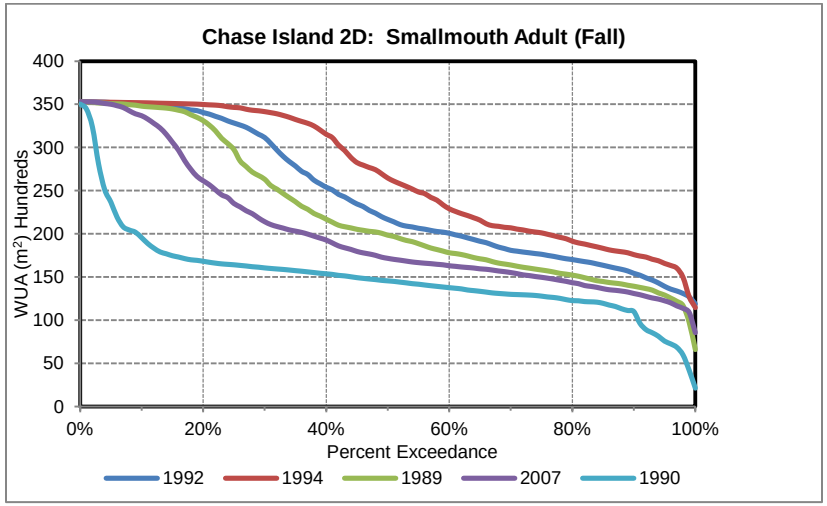


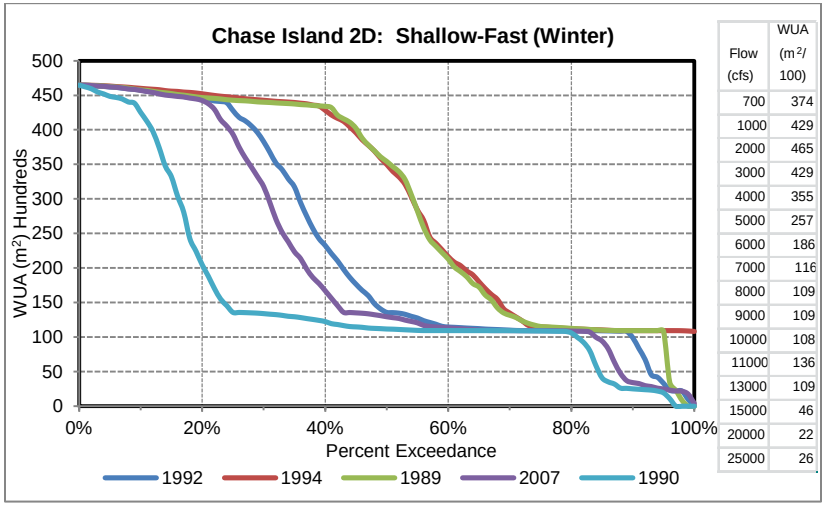


Flow (cfs)	WUA (m²/100)
700	326
1000	353
2000	336
3000	286
4000	254
5000	231
6000	210
7000	202
8000	182
9000	167
10000	159
11000	149
13000	131
15000	120
20000	97
25000	88

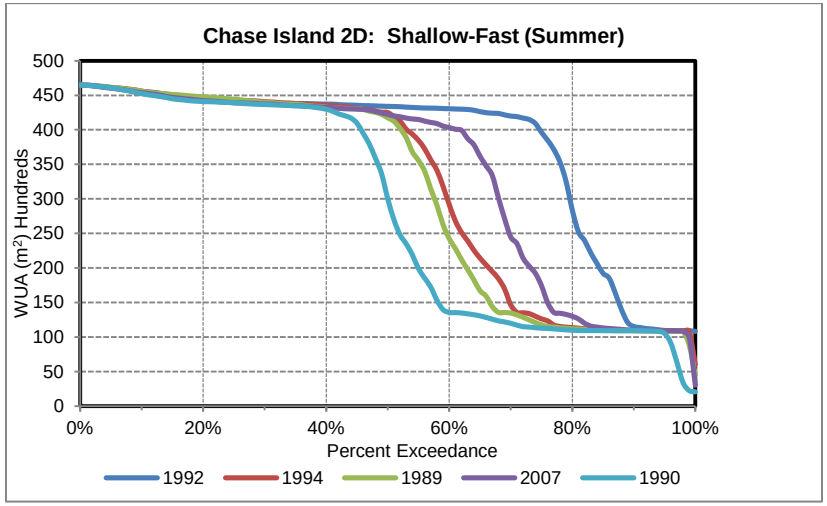


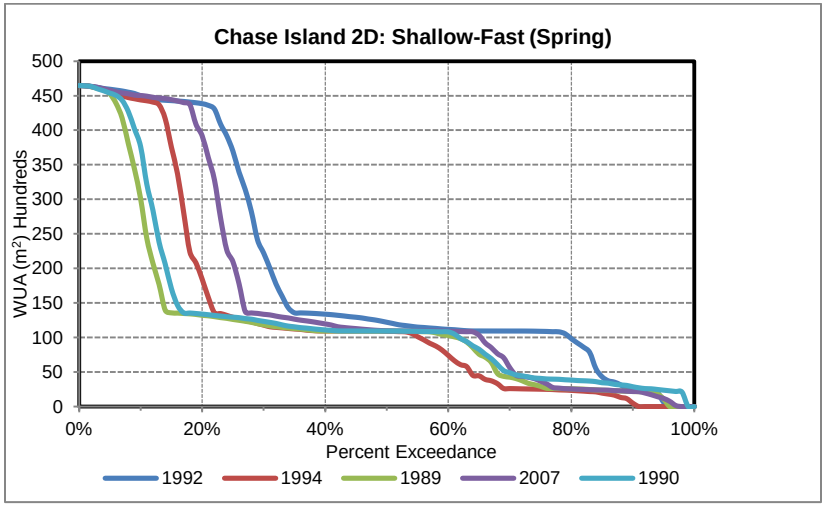


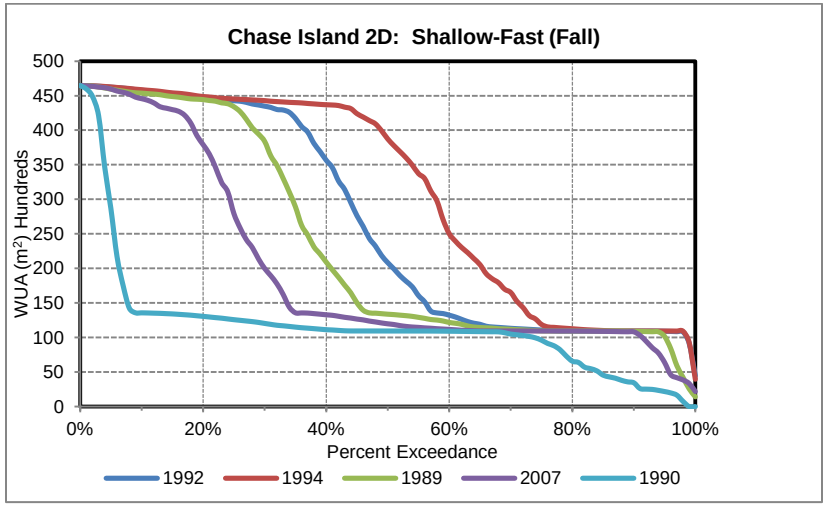


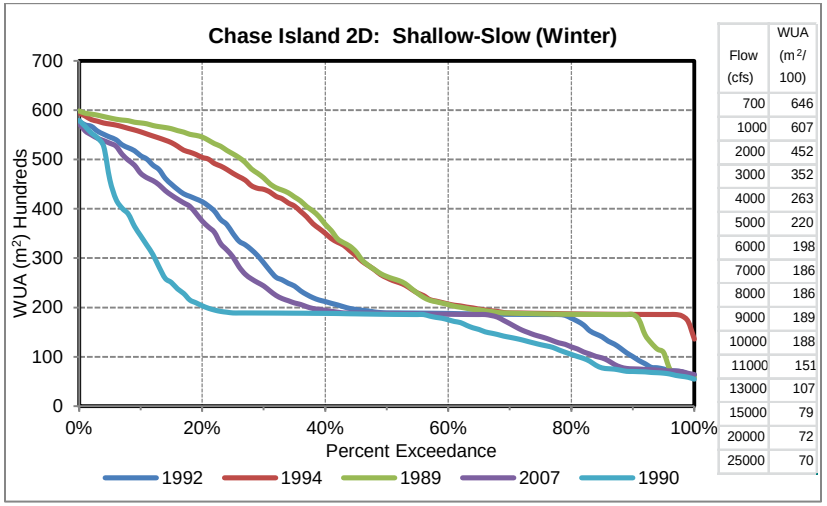


Flow (cfs)	WUA (m²/100)
700	374
1000	429
2000	465
3000	429
4000	355
5000	257
6000	186
7000	116
8000	109
9000	109
10000	108
11000	136
13000	109
15000	46
20000	22
25000	26

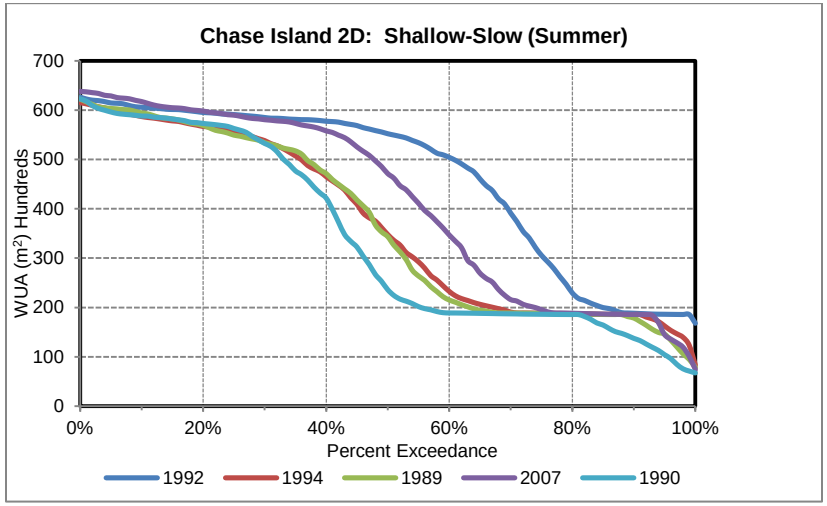


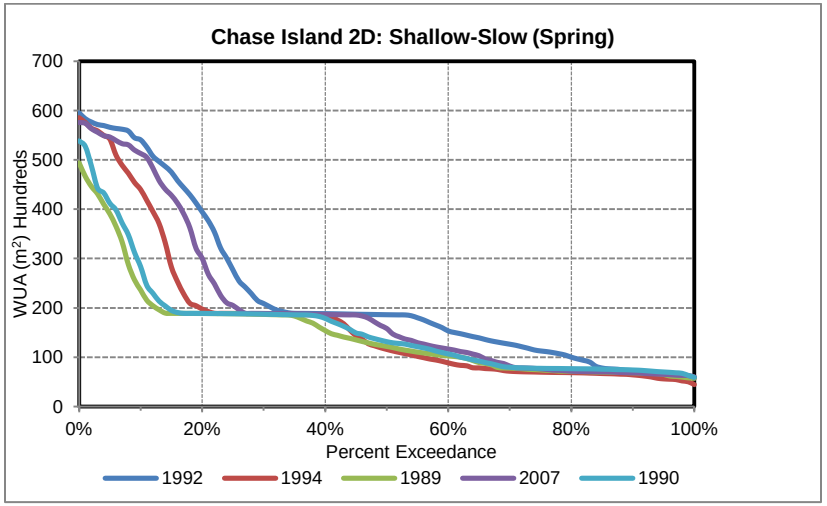


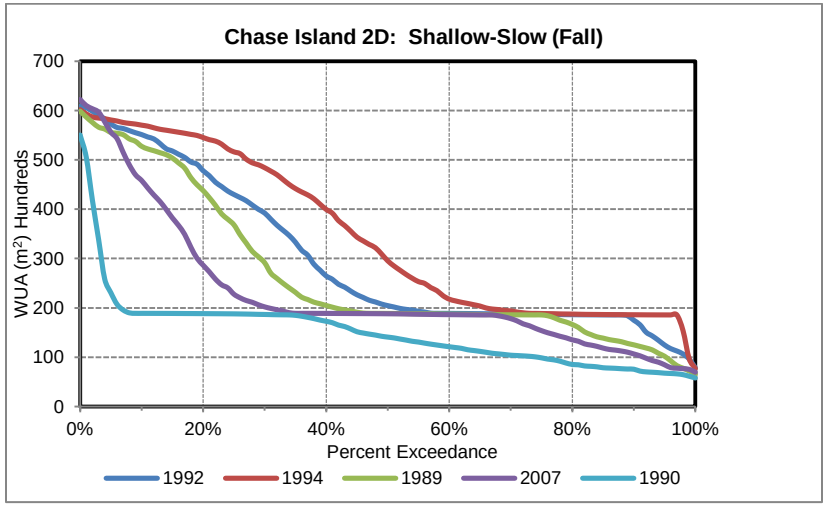


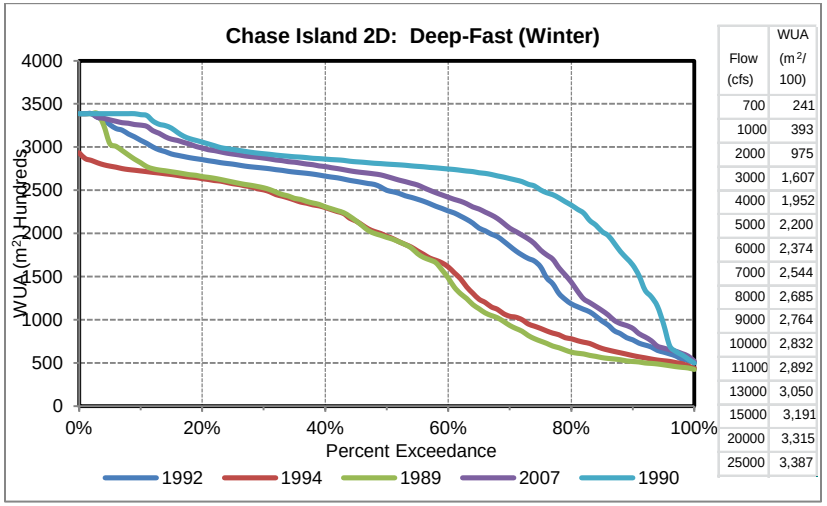


Flow (cfs)	WUA (m²/100)
700	646
1000	607
2000	452
3000	352
4000	263
5000	220
6000	198
7000	186
8000	186
9000	189
10000	188
11000	151
13000	107
15000	79
20000	72
25000	70

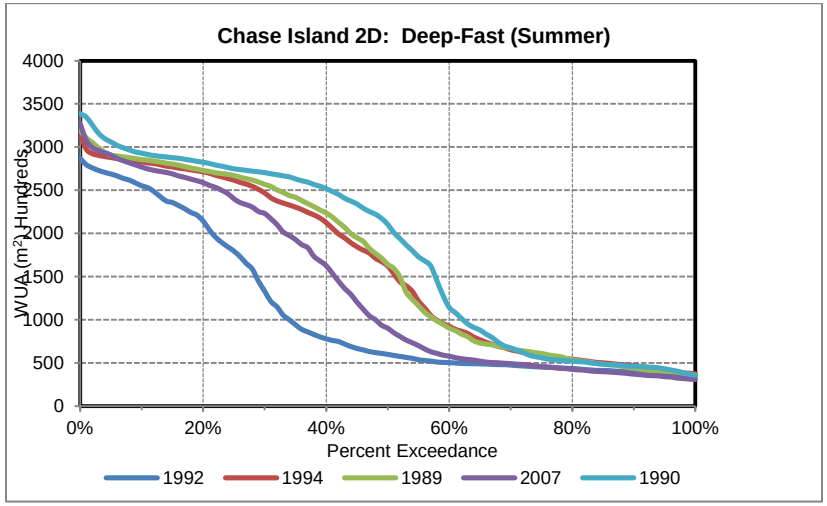


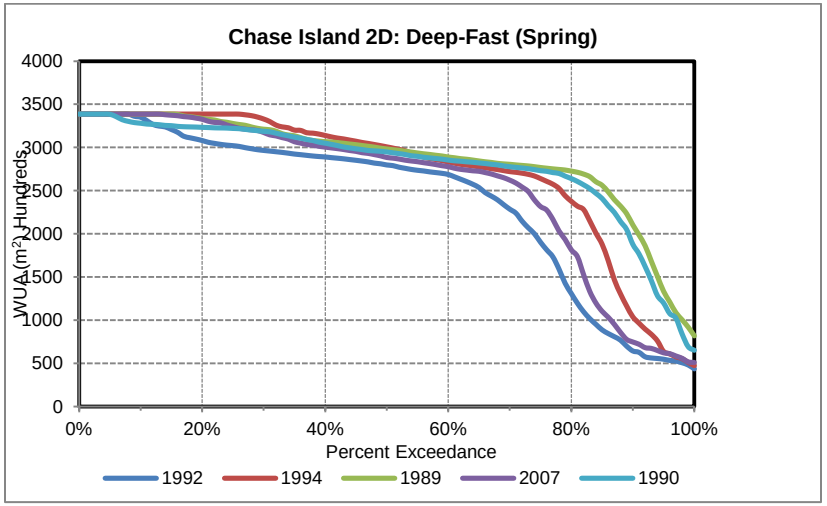


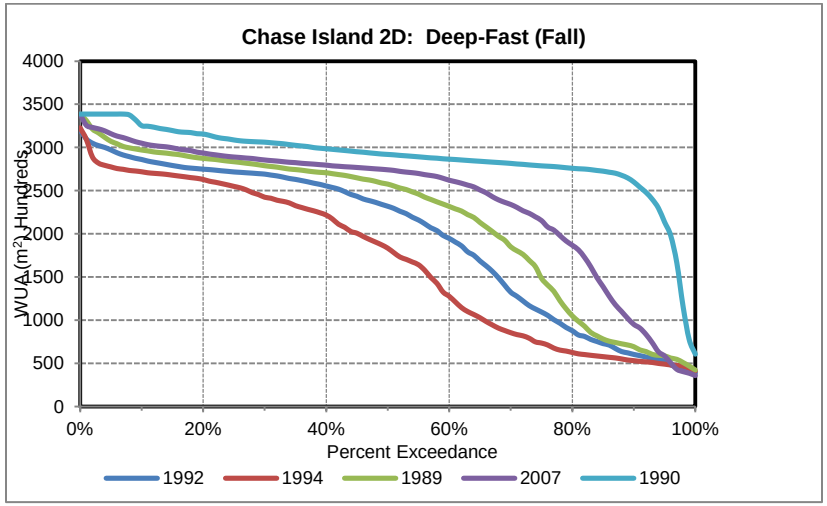


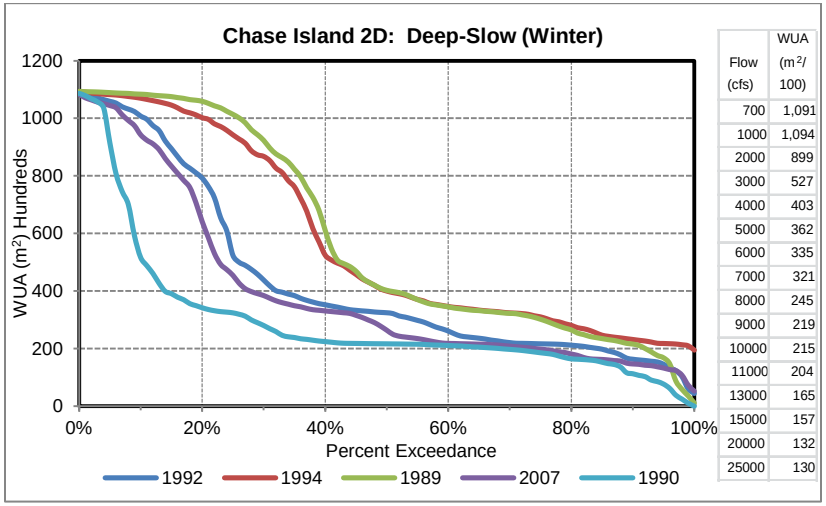
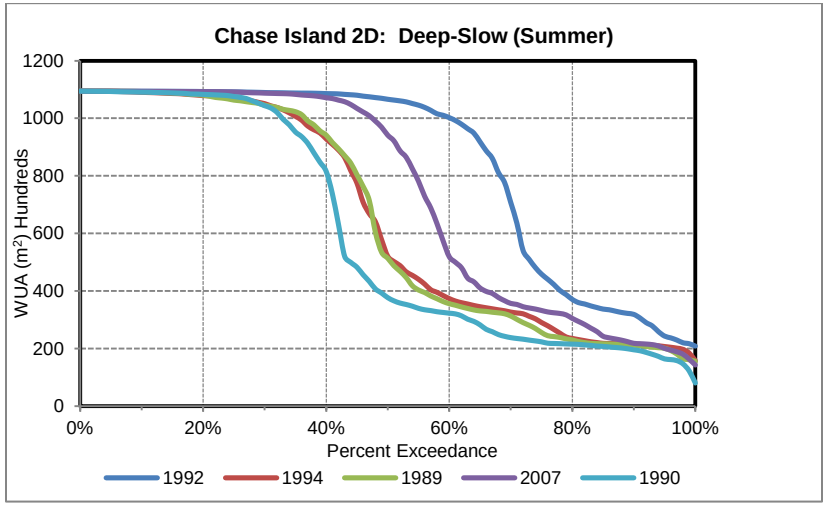
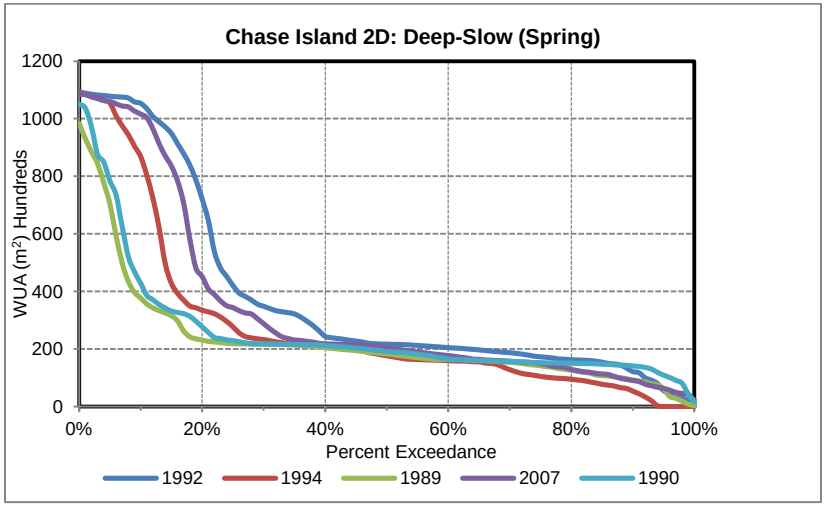
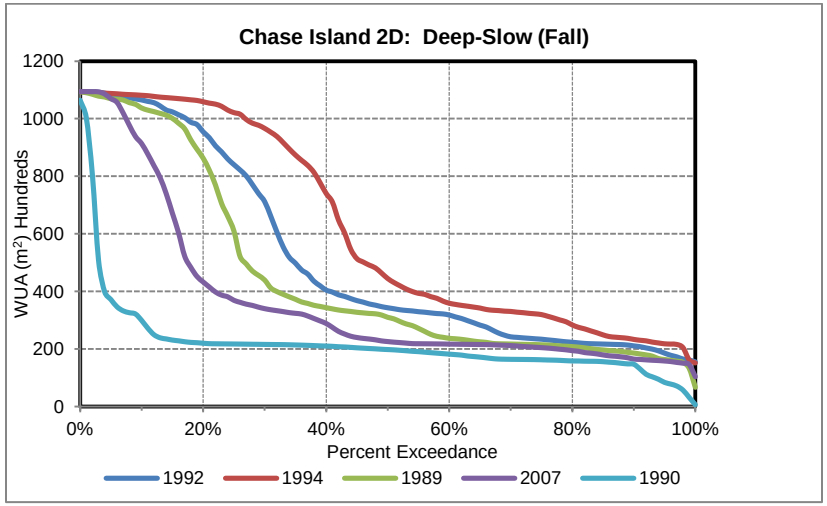


Flow (cfs)	WUA (m^2/100)
700	241
1000	393
2000	975
3000	1,607
4000	1,952
5000	2,200
6000	2,374
7000	2,544
8000	2,685
9000	2,764
10000	2,832
11000	2,892
13000	3,050
15000	3,191
20000	3,315
25000	3,387









Flow (cfs)	WUA (m²/100)
700	1,091
1000	1,094
2000	899
3000	527
4000	403
5000	362
6000	335
7000	321
8000	245
9000	219
10000	215
11000	204
13000	165
15000	157
20000	132
25000	130