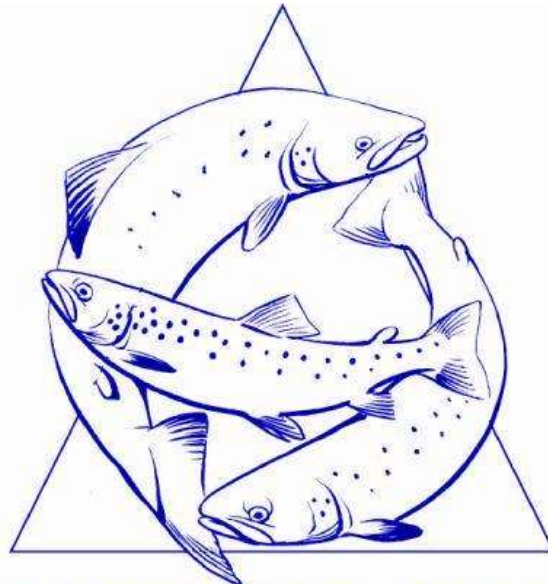


**ELECTRO-FISHING SURVEY**  
**2005 REPORT**



**DEVERON**  
**BOGIE**  
**ISLA**

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## **OBJECTIVES**

The main objectives of the 2005 survey were:

1. Continue the monitoring of sites previously surveyed.
2. Monitor those sites above removed or modified obstacles
3. Provide base line surveys in burns and watercourses within the catchment of the proposed wind farm in the Clashindarroch Forest.
4. Provide base line surveys in burns not affected by the proposed wind farm but will act as control sites for comparative purposes.

## **SALMON DENSITIES & PRESENCE/ABSENCE**

<u>SECTION OF RIVER</u>	<u>AVERAGE DENSITY</u>	<u>SITES</u>	<u>PRESENCE</u>	<u>ABSENCE</u>
LOWER DEVERON	0.48	4	3	1
MIDDLE DEVERON	0.27	6	6	0
UPPER DEVERON	0.75	12	10	2
ISLA	0.4	7	7	0
BOGIE	0.8	20	17	3

## **TROUT DENSITIES & PRESENCE/ABSENCE**

<u>SECTION OF RIVER</u>	<u>AVERAGE DENSITY</u>	<u>SITES</u>	<u>PRESENCE</u>	<u>ABSENCE</u>
LOWER DEVERON	0.8	4	4	0
MIDDLE DEVERON	1.55	6	6	0
UPPER DEVERON	0.7	12	11	1
ISLA	1.24	7	7	0
BOGIE	1.09	20	19	1

The following sites held zero salmon:

Ry	Auchenbadie	( Lower Deveron )
Suc1	Sucloth	( Upper Deveron )
Goul1	Gouls	( Upper Deveron )
CW1	Craigwater	( Bogie )
Lg 0	Lag	( Bogie )
Lg 1	Lag	( Bogie )

The following sites held zero trout:

Suc 1	Sucloth	( Upper Deveron )
CW 1	Craigwater	( Bogie )

## **COMMENTS**

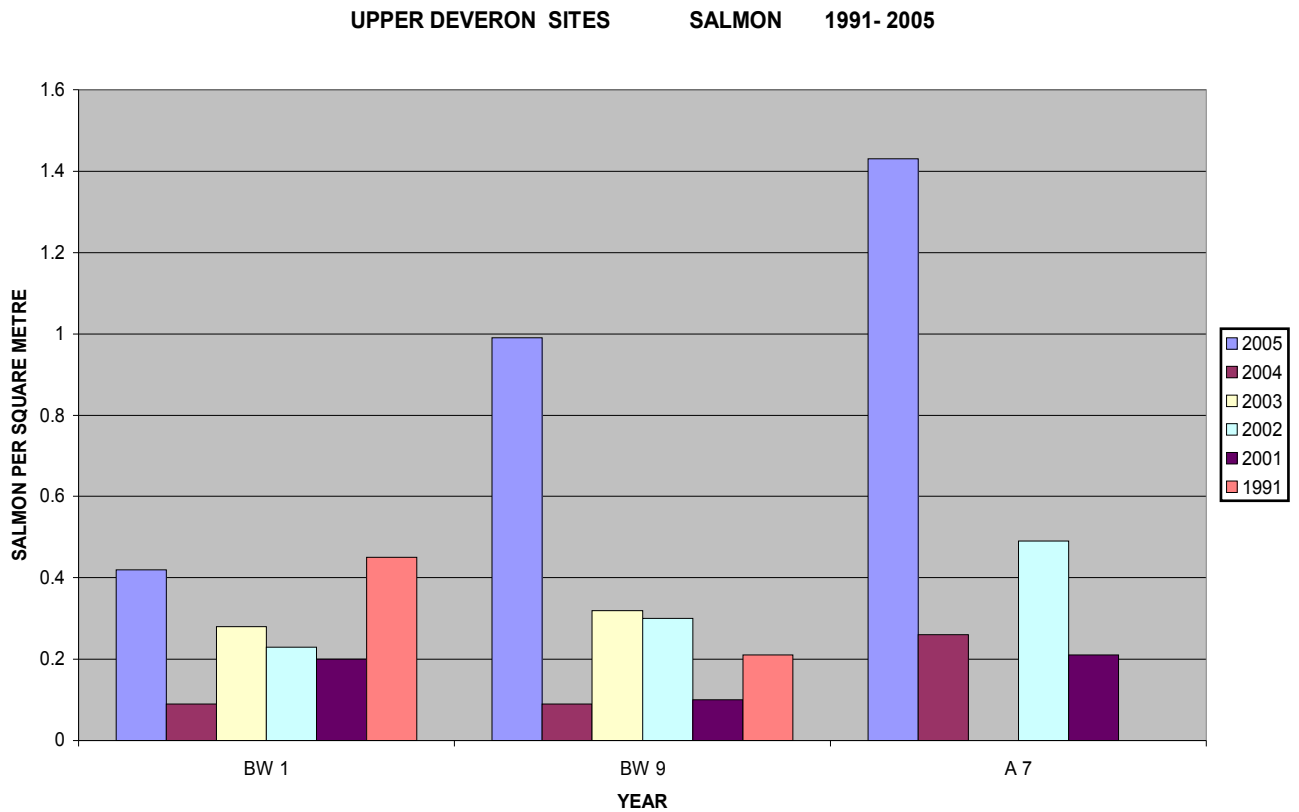
- The Auchenbadie burn is approx. 3 kms in length and enters the Lower Deveron at Eden. A road bridge and the remains of a disused mill are probably the reasons for the absence of salmon. Both these obstacles could be easily removed. The habitat is good and should therefore be monitored in the future with re-stocking in mind.

- For the second year we found the Succoth burn supported no salmon or trout. Although there are some natural falls close to its confluence with the Deveron we would expect to find trout in high numbers as the habitat is excellent. We should experiment with salmon stocking.
- The Goulls burn Goul 1 is too small to expect salmon at the survey site but holds a good stock of trout at just under 2 fry and parr per sq: m..
- The Craigwater ( Bogie )held neither salmon nor trout which is likely to be the result of blockages caused by fallen trees. It should support trout with the obstacles removed. Forest Enterprise has been asked to clear these obstacles.
- Although the Paithnick burn (Isla) supported a very small number of salmon it should be noted that it held a healthy number of trout fry ( 1.65 per sq: m ).
- The salmon found in the Drum burn ( Isla ) was very encouraging as it has historically been heavily poached.
- The most surprising result was the Davidston burn ( Isla ) above the weir, owned by Scottish Water. After receiving a report that adults were seen in the autumn, we surveyed the upper reaches and were delighted to find salmon fry (no parr). The constant high water during the 2004 summer provided the ideal conditions for adults to ascend this obstacle, but this weir does restrict upstream migration during medium to low flows which has been confirmed by previous surveys which detected zero salmon juveniles.
- The Blackwater also gave a good result compared with previous years with salmon fry at 0.95/sq: metre at BW 9.
- The Bogrotten burn is high up the Ealachie system ( Bogie )within the Clashindarroch Forest. It was therefore a surprise to find salmon fry.
- The Burn of Bank (Upper Deveron )also held a healthy population of fry and parr.
- The Upper Deveron site D5 showed a marked improvement in salmon fry and parr.
- The Monquhitter site ( Lower Deveron ) above the fish ladder does not appear to be facilitating passage but the site is suited more to trout. Downstream on the Idoch Water, where there is a wide range of habitat for salmonids, we find good numbers of fry. We will need to study this area in more depth before drawing any firm conclusions on the effectiveness of the ladder.
- The Lag burn sites Lg 0 & Lg 1 ( Bogie ) have been obstructed by fallen trees and should support trout. These have now been cleared.
- It is interesting to note that in site Lg 10 in 2004 the trout fry and parr number was only 0.13 per sq: m and increased dramatically in 2005 to 5.09 per sq: m, of which 4.89 were fry. Could these be sea trout? We can only assume that the Irish ford modifications have improved the access.  
Meanwhile, the salmon fry and parr have declined in Lg 13 site from 0.82 per sq: m in to 0.08 per sq: m. Similarly, in Lg 10 site they have declined from 1.40 per sq: m in 2003

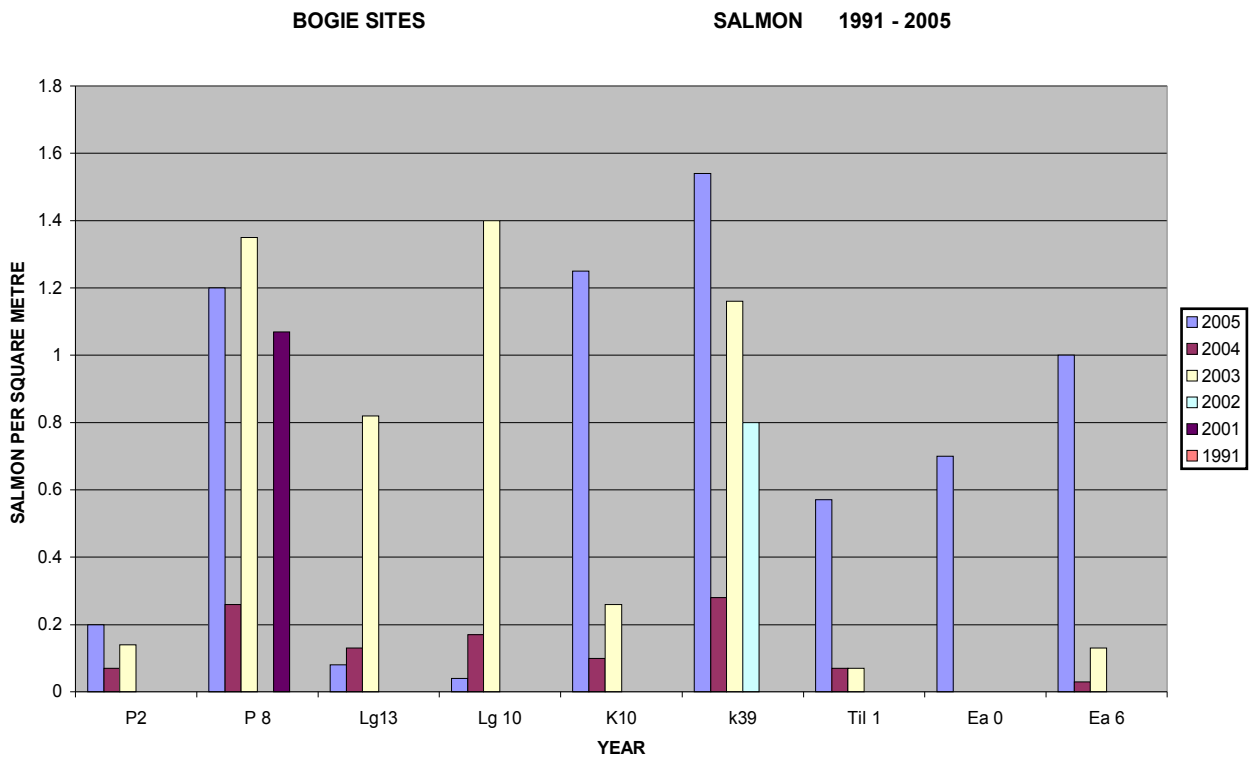
to 0.04 per sq: m in 2005. These salmon figures are surprising in a year that provided very good conditions for access to spawning areas, but the assumption must be that the trout have displaced the salmon in this particular habitat.

- Site B36 on the River Bogie gave a good result with 2.5 salmon per sq: m.
- The P12 site on the Ness Bogie s also worth mentioning for its very good salmon fry. The Glen Bogie site B1 also indicates the spawning success in 2004.

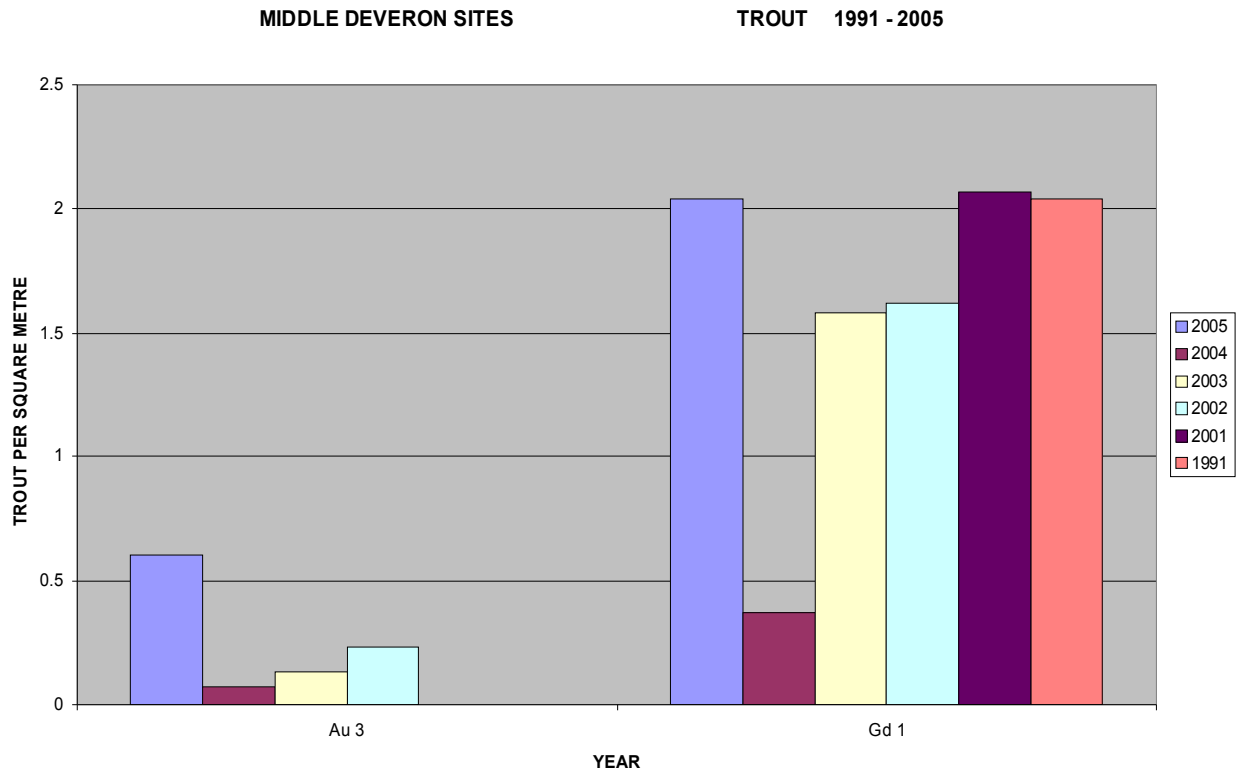
Appendix 1 UPPER DEVERON CHART – COMPARISON WITH PREVIOUS SURVEYS



Appendix 2 MIDDLE DEVERON CHART – COMPARISON WITH PREVIOUS SURVEYS



Appendix 3 LOWER DEVERON CHART- COMPARISON WITH PREVIOUS SURVEYS





**2005 ELECRO-FISHING SURVEY**

CATCHMENT	REF.	Map Ref.	SALMON	SALMON	TROUT	TROUT
			PER SQ: M	PER SQ: M	PER SQ: M	PER SQ: M
<b>UPPER DEVERON</b>			<b>0+</b>	<b>1-4+</b>	<b>0+</b>	<b>1-4+</b>
BLACKWATER	BW1	3326-8245	0.39	0.03	0.36	0.12
BLACKWATER	BW9	3336-8284	0.95	0.04	0.19	0.1
ALLT DEVERON	A 3	3383-8225	0.41	0.09	0.17	0.03
MARKIE	Mk 13	3415-8395	0.19	0.13	0.2	0.51
BOGROTTEN	Bg 1	3435-8315	0.03	0	0.64	0.01
CRAIGWATER	CW1	3426-8310	0	0	0	0
SUCCOTH	Suc 1	3428-8358	0	0	0	0
GOULS	Goul 1	3419-8349	0	0	1.78	0.04
GLEN	G7	3478-8393	0.49	0.07	1.14	0.43
COLLANACH	Col	3484/8398	0	0.02	1.42	0.61
BURN OF BANK	Bn 3	3384-8285	1.43	0.55	0.05	0.08
HILLOCK	Hk 1	3399-8325	0.13	0.48	0.58	0.3
ALLT DEVERON	A 7	3387-8245	1.15	0.27	0.17	0.06
DEVERON	D 5	3381-8285	1.86	0.37	0.02	0.02
<b>MIDDLE DEVERON</b>						
GLENDRONNACH	Gd 1	3625-8430	0	0.07	1.67	0.37
AUCHINTOUL	Au 3	3612-8502	0.12	0.1	0.42	0.18
CROMBIE	Cro 1	3592-8514	0.07	0.02	1.69	0.22
FISHRIE	Fi 12	3745-8568	0.26	0	0.7	0.13
FORGUE	F 5	3589-8409	0.54	0.34	2.29	0.62
COBAIRDY	Cob 1	3585-8437	0.07	0	0.7	0.28
<b>LOWER DEVERON</b>						
MONQUHITTER	M 15	3817-8523	0.01	0.18	0.99	0.28
IDOCH	Id 9	3763-8489	1.34	0.17	1.3	0.13
KING EDWARD	Ke 9	3708-8578	0.22	0.01	0.32	0.11
AUCHENBADIE	Ry	3684-8585	0	0	0.06	0.03

**2005 ELECRO-FISHING SURVEY**

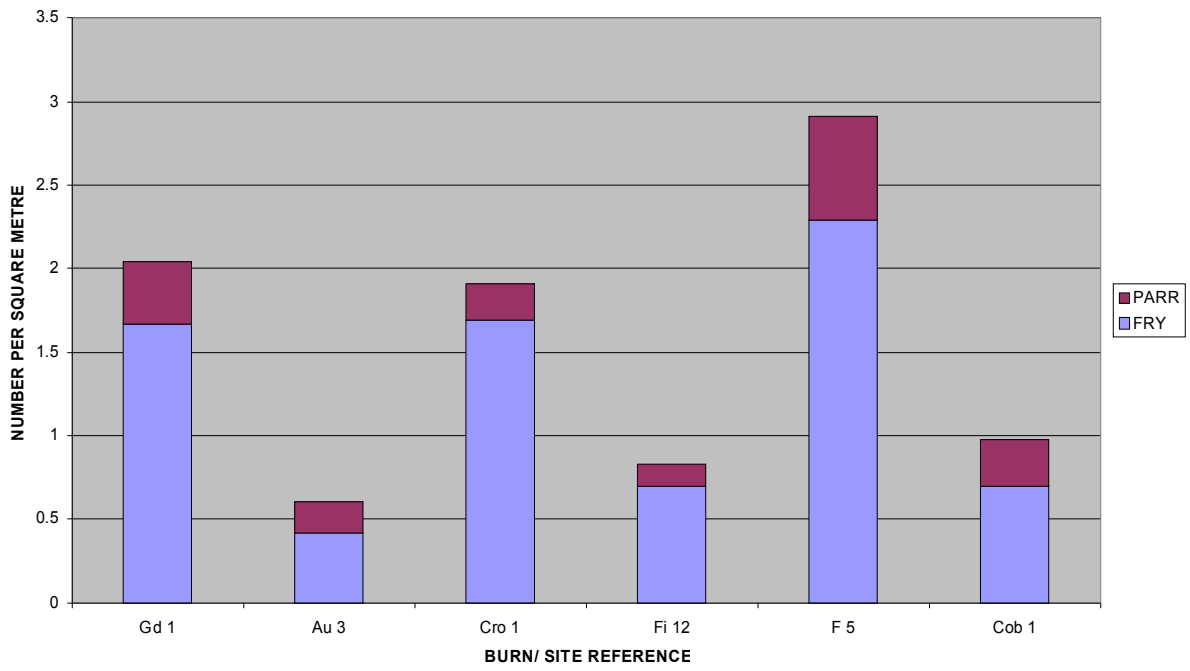
CATCHMENT	REF.	Map Ref.	SALMON	SALMON	TROUT	TROUT
			PER SQ: M	PER SQ: M	PER SQ: M	PER SQ: M
<b>BOGIE</b>			<b>0+</b>	<b>1-4+</b>	<b>0+</b>	<b>1-4+</b>
PRIEST WATER	P 2	3476-8347	0	0.2	1.14	0.13
PRIEST WATER	P 8	3494-8344	1.02	0.18	1.21	0.35
NESS BOGIE	P 12	3515-8359	3.1	0.19	0.3	0.2
TILLATHROWIE	Til 1	3468-8347	0.5	0.07	1.63	0.14
LAG	Lg 0	3440-83295	0	0	0	0.02
LAG	Lg 1	3452-8328	0	0	0.08	0.07
LAG	Lg10	3484-8342	0.02	0.02	4.89	0.2
LAG	Lg 13	3491-8343	0.02	0.06	1.98	0.67
BOGIE	B 1	3488-8245	0.76	0.05	1.4	0.16
BOGIE	B 18	3520-8293	0.32	0.43	1.36	0.1
BOGIE	B 36	3522-8351	2.2	0.34	0.2	0.06
BOGIE	B 46	3519-8375	0.46	0.05	0.07	0.03
KIRKNEY WATER	K 10	3437-8295	1.23	0.02	0.87	0.35
KIRKNEY WATER	K 18	3462-8306	0.76	0.05	0.45	0.24
KIRKNEY WATER	K 28	3489-8318	0.66	0.03	0.39	0.23
KIRKNEY WATER	K 39	3515-8336	1.1	0.44	0.22	0.33
EALACHIE	Ea 0	3437-8313	0.78	0	0.9	0
EALACHIE	Ea 6	3450-8306	1	0	0.7	0.09

**2005 ELECRO-FISHING SURVEY**

CATCHMENT	REF.	Map Ref.	SALMON	SALMON	TROUT	TROUT
			PER SQ: M	PER SQ: M	PER SQ: M	PER SQ: M
<b>ISLA</b>			<b>0+</b>	<b>1-4+</b>	<b>0+</b>	<b>1-4+</b>
ISLA	I 18	3408/8473	0.5	0.01	0.79	0.01
CROOKSMILL	CK 7	3402/8525	0.19	0.01	0.33	0.05
DRUM	Dm 7	3442/8496	0.87	0.08	2.77	0.09
DAVIDSTON	Dv 8	3410/8435	0.17	0	0.48	0.02
SHEIL	S 15	3518/8509	0.33	0.11	0.1	0.23
PAITHNICK	Pc 4	3481/8545	0.01	0	1.65	0.15
CAIRNIE	Cr 9	3473/8447	0.43	0	1.83	0.16

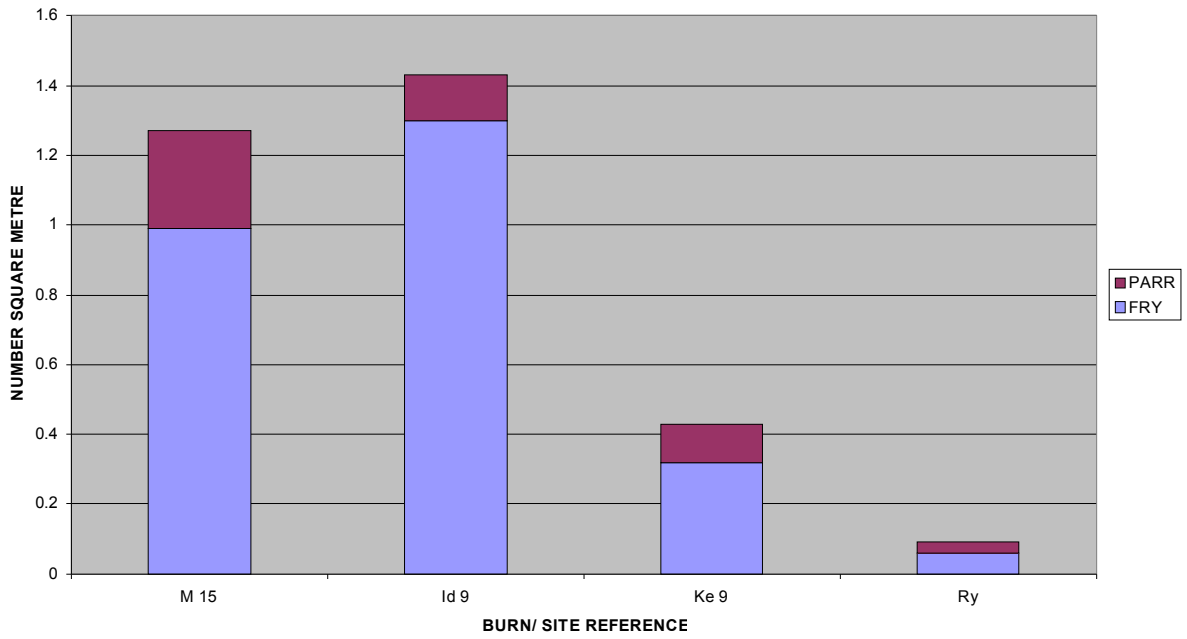
LOWER DEVERON SURVEY SITES

SALMON 2005



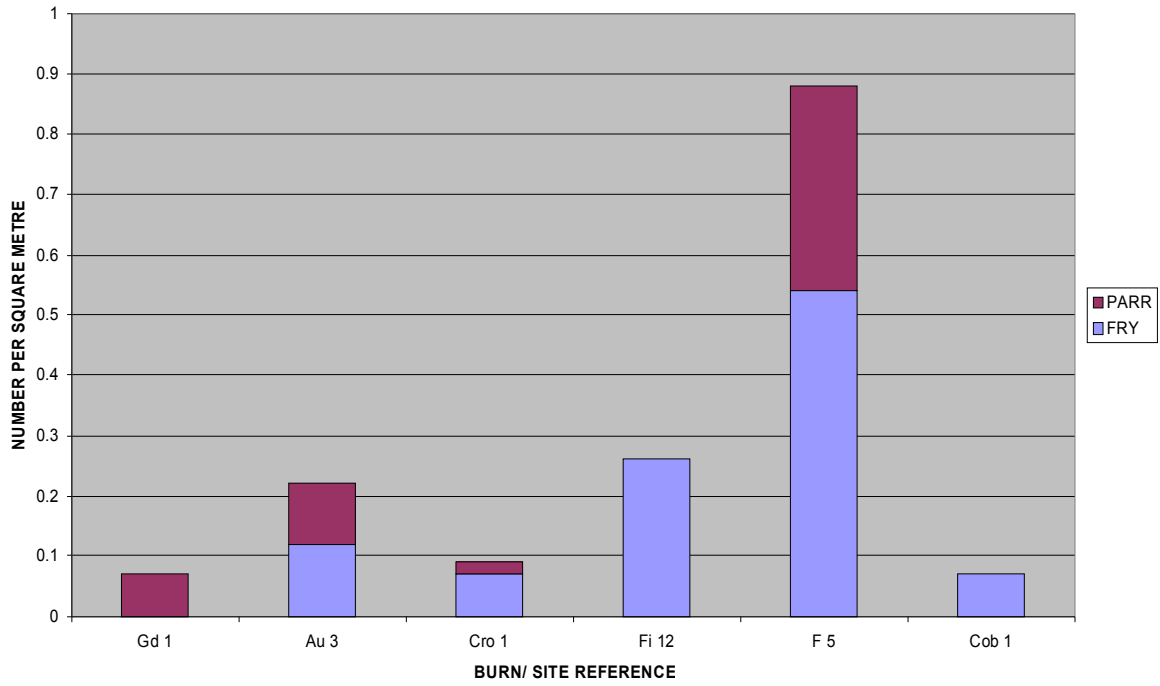
LOWER DEVERON SURVEY SITES

TROUT 2005



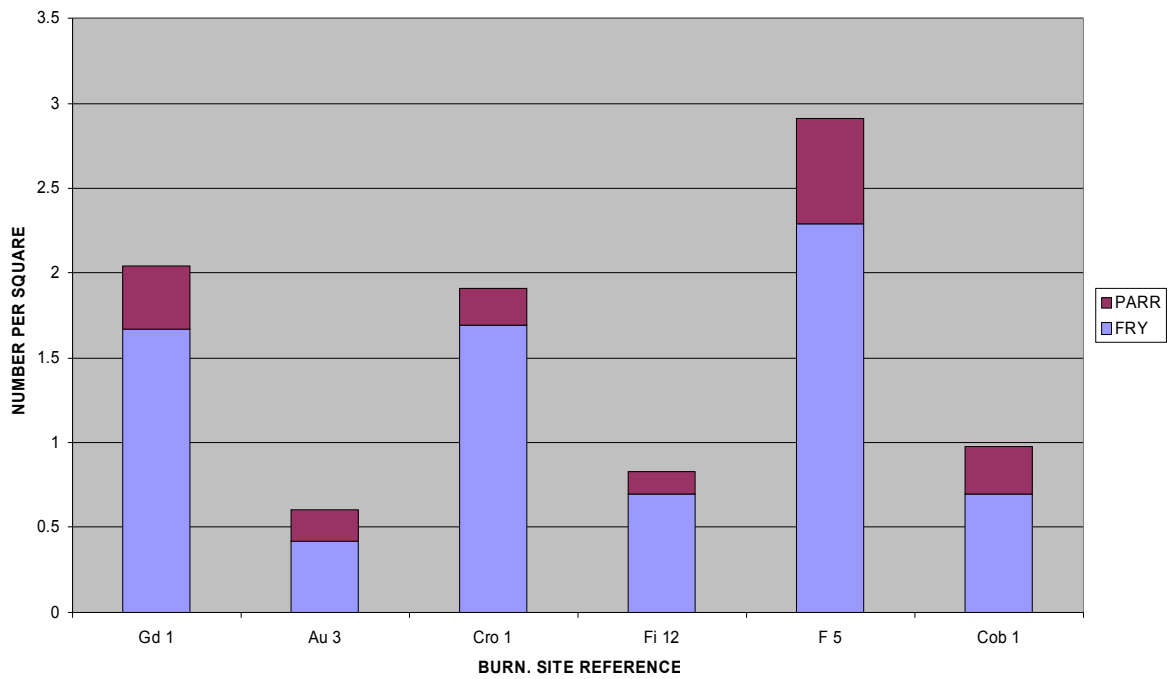
MIDDLE DEVERON SURVEY SITES

SALMON 2005



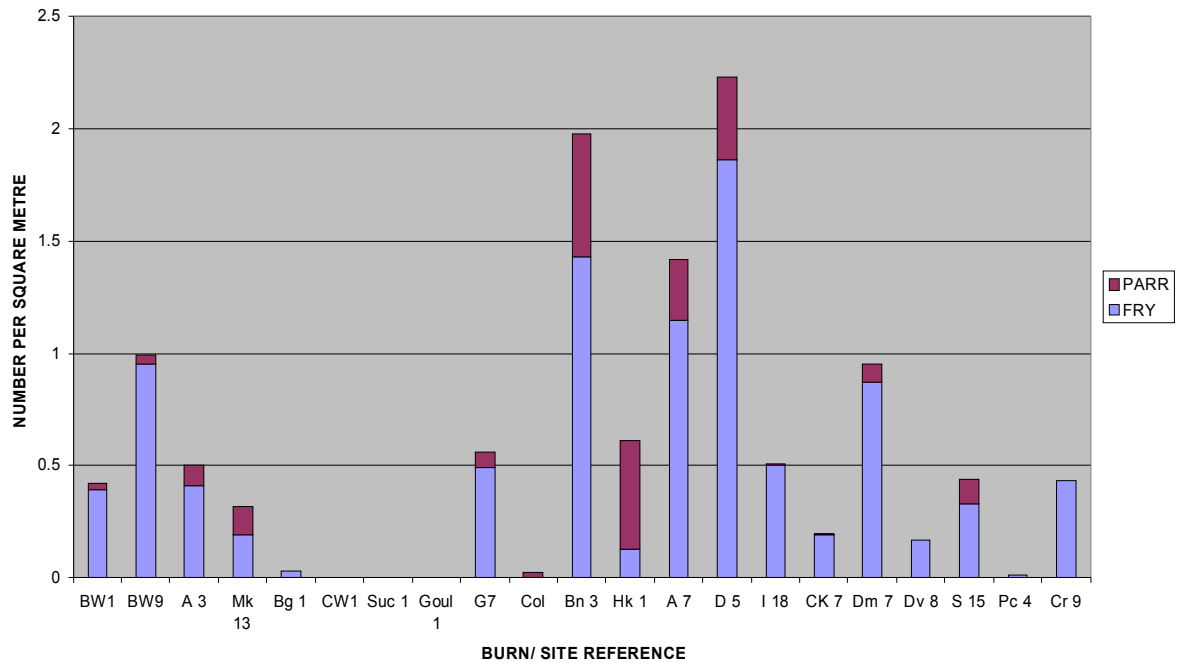
MIDDLE DEVERON SURVEY SITES

TROUT 2005



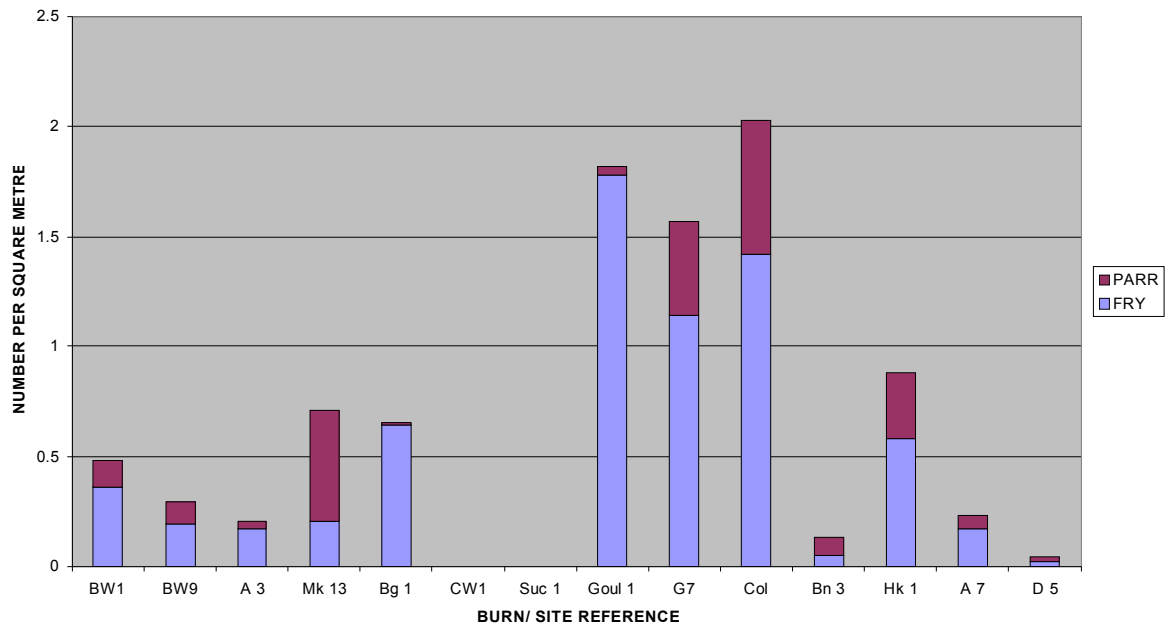
UPPER DEVERON SURVEY SITES 2005

SALMON



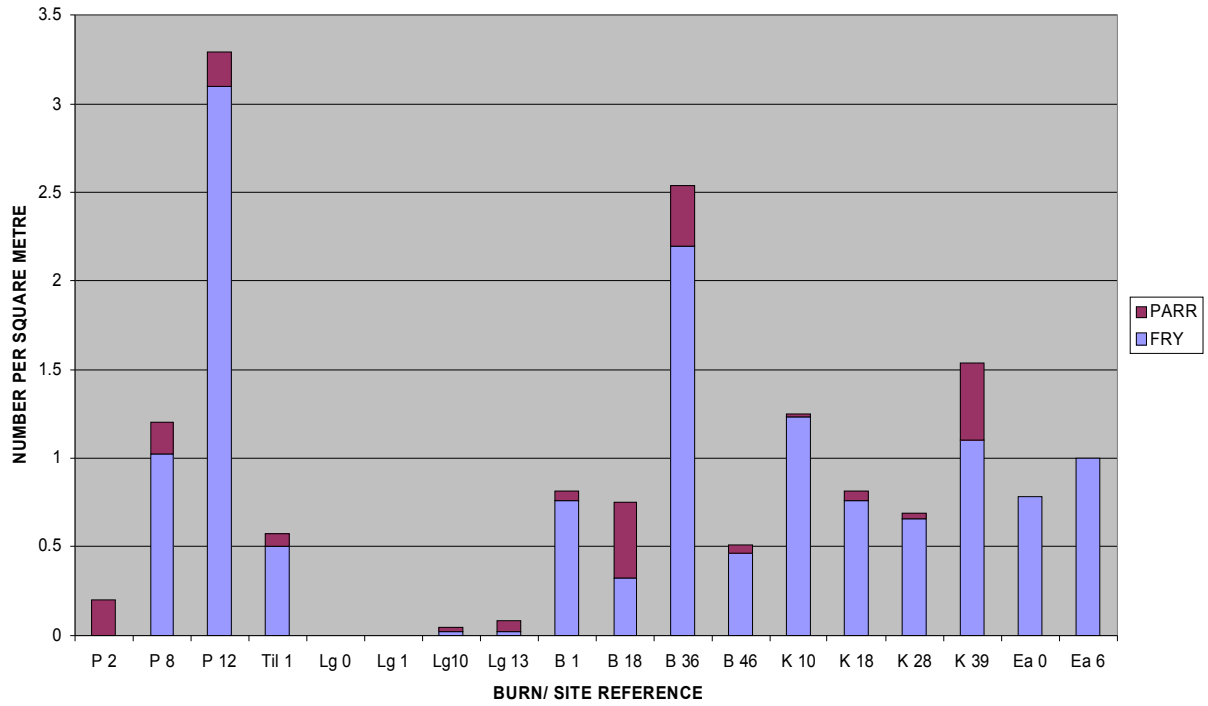
UPPER DEVERON SURVEY SITE 2005

TROUT



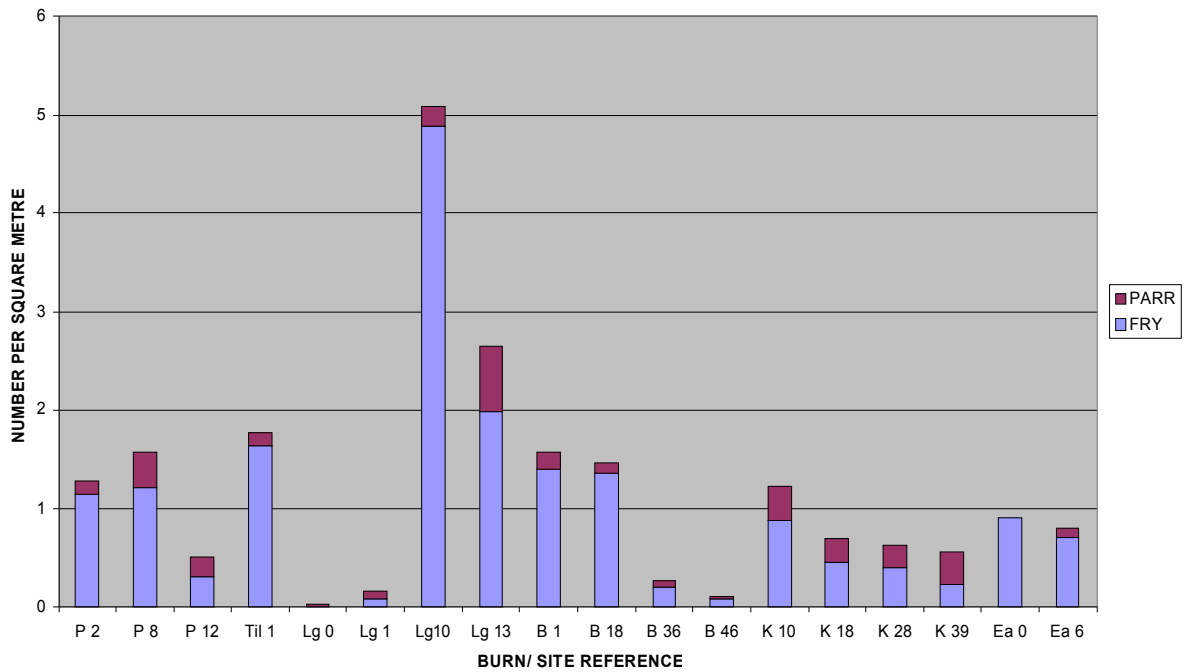
**BOGIE SURVEY SITES 2005**

**SALMON**

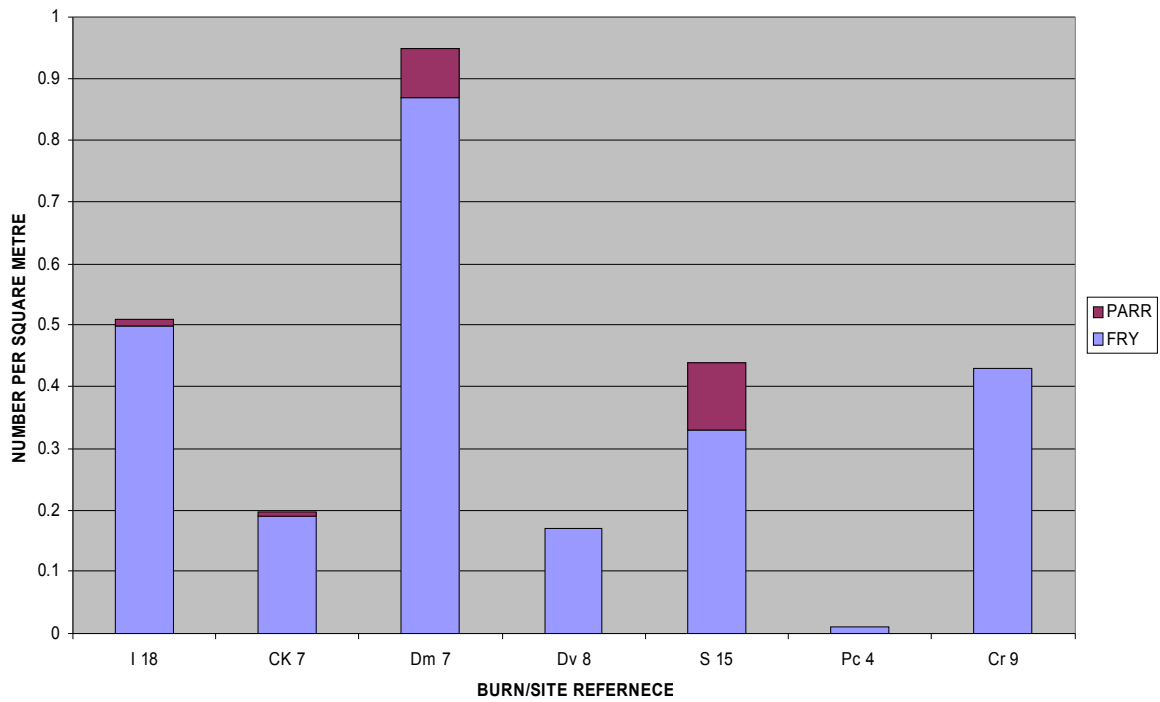


**BOGIE SURVEY SITES 2005**

**TROUT**



ISLA SURVEY SITES 2005 SALMON



ISLA SURVEY SITES 2005 TROUT

