

Supplementary data - statistical results

Figure 1 – 60 days

A) Height (cm) – CLONE VCC865

Treatment	CV%
C	11,71
1 Se	7,26
5 Se	11,62
25 Se	20,90
Nacl	15,89
Nacl + 1 Se	15,70
Nacl + 5 Se	5,30
Nacl + 25 Se	15,20

B) Height (cm) – AEC0144

Treatment	CV%
C	10,70
1 Se	4,94
5 Se	9,85
25 Se	9,11
Nacl	18,08
Nacl + 1 Se	18,23
Nacl + 5 Se	12,51
Nacl + 25 Se	9,88

C) Collar diameter (mm) – CLONE VCC865

Treatment	CV%
C	5,99
1 Se	4,76
5 Se	9,75
25 Se	12,64
Nacl	22,13
Nacl + 1 Se	23,36
Nacl + 5 Se	23,93
Nacl + 25 Se	4,37

D) Collar diameter (mm) – AEC0144

Treatment	CV%
C	11,78
1 Se	2,23
5 Se	6,57
25 Se	16,33
Nacl	30,49
Nacl + 1 Se	19,88
Nacl + 5 Se	10,19
Nacl + 25 Se	22,28

DATA

CLONE: VCC865

VARIABLES: HEIGHT (ALT) AND COLLAR DIAMETER (DC)

```

variable: ALT
      mean      cv  0%   25%   50%   75% 100% n
1 Se      98.25 0.07262689 88 96.25 100.5 102.50 104 4
25 Se      78.25 0.20904760 63 69.00  74.5  83.75 101 4
5 Se       88.00 0.11625765 78 81.00  86.5  93.50 101 4
C          94.00 0.11718235 83 86.00  93.0 101.00 107 4
S          57.75 0.15893991 48 53.25  56.5  61.00  70 4
S + 1 Se   68.25 0.15706841 56 63.50  67.5  72.25  82 4
S + 25 Se  53.25 0.15208176 47 47.00  51.0  57.25  64 4
S + 5 Se   56.25 0.05308585 53 54.50  56.0  57.75  60 4

variable: DC
      mean      cv  0%   25%   50%   75% 100% n
1 Se      10.000 0.04760952 9.7 9.700 9.80 10.100 10.7 4
25 Se      9.200 0.12644876 8.2 8.425 8.90  9.675 10.8 4
5 Se       8.675 0.09752961 7.8 8.100 8.60  9.175  9.7 4
C          9.375 0.05994565 8.8 9.025 9.30  9.650 10.1 4
S          5.525 0.22136519 4.5 4.950 5.15  5.725  7.3 4
S + 1 Se   7.600 0.23365299 5.1 7.050 8.05  8.600  9.2 4
S + 25 Se  5.850 0.23951965 4.9 4.975 5.30  6.175  7.9 4
S + 5 Se   4.575 0.04137638 4.3 4.525 4.65  4.700  4.7 4

```

CLONE: AEC0144

VARIABLES: HEIGHT (ALT) AND COLLAR DIAMETER (DC)

variable: ALT									
	mean	cv	0%	25%	50%	75%	100%	n	
1 se	108.75	0.04944756	103	106.75	108.0	110.00	116	4	
25 se	83.25	0.09115157	73	80.50	84.5	87.25	91	4	
5 se	101.25	0.09855946	92	93.50	100.0	107.75	113	4	
C	108.50	0.10708710	92	105.50	111.5	114.50	119	4	
S	58.00	0.18082911	49	49.75	56.0	64.25	71	4	
S + 1 se	60.50	0.18231837	51	51.75	58.5	67.25	74	4	
S + 25 se	57.50	0.09889114	51	54.00	57.5	61.00	64	4	
S + 5 se	52.75	0.12515199	44	50.75	53.5	55.50	60	4	
variable: DC									
	mean	cv	0%	25%	50%	75%	100%	n	
1 se	10.650	0.02235189	10.3	10.600	10.75	10.800	10.8	4	
25 se	9.775	0.16333616	7.6	9.250	10.05	10.575	11.4	4	
5 se	10.900	0.06573145	10.2	10.350	10.85	11.400	11.7	4	
C	11.325	0.11788989	10.2	10.350	11.00	11.975	13.1	4	
S	6.800	0.30494767	5.6	5.675	5.85	6.975	9.9	4	
S + 1 se	7.675	0.19884831	6.4	6.475	7.35	8.550	9.6	4	
S + 25 se	6.975	0.22283801	5.0	6.500	7.05	7.525	8.8	4	
S + 5 se	6.425	0.10196236	6.0	6.075	6.15	6.500	7.4	4	
>									

Figure 2**A) CLONE VCC865**

	ROOT	STEAM	LEAF
Treatment	CV%	CV%	CV%
C	45,79	10,43	11,48
1 Se	15,04	4,64	11,33
5 Se	41,58	9,37	8,97
25 Se	39,51	38,84	24,48
Nacl	51,61	23,14	26,66
Nacl + 1 Se	28,72	24,40	14,28
Nacl + 5 Se	20,33	21,77	41,70
Nacl + 25 Se	9,74	19,89	21,14

B) CLONE AEC0144

	ROOT	STEAM	LEAF
Treatment	CV%	CV%	CV%
C	22,22	4,11	9,37
1 Se	22,85	14,78	9,54
5 Se	67,54	36,73	20,77
25 Se	29,94	32,76	22,00
Nacl	8,88	15,63	25,76
Nacl + 1 Se	66,89	32,47	41,20
Nacl + 5 Se	47,71	65,53	30,71
Nacl + 25 Se	14,71	31,84	37,33

DATACLONE: **VCC865**VARIÁVEL: **ROOT**

```

Rcmdr> numSummary(dados3[, "ROOT", drop=FALSE], groups=dados3$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% ROOT:n
1 Se    15.0775 0.15049787 11.94 14.4525 15.515 16.1400 17.34      4
25 Se   10.9900 0.39515806  7.15  8.6875  9.815 12.1175 17.18      4
5 Se    11.3400 0.41587374  7.75  8.4100  9.735 12.6650 18.14      4
C       17.0375 0.45799455  8.39 14.0450 16.205 19.1975 27.35      4
S        3.8750 0.51673728  2.77  2.7700  2.930  4.0350  6.87      4
S + 1 Se  4.4050 0.28727609  3.18  3.6375  4.165  4.9325  6.11      4
S + 25 Se  4.1050 0.09749288  3.76  3.8650  3.995  4.2350  4.67      4
S + 5 Se  3.4150 0.20334706  2.42  3.2150  3.630  3.8300  3.98      4
>

```

VARIAVEL: STEAM

```
Rcmdr> numSummary(dados3[, "STEAM", drop=FALSE], groups=dados3$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
```

	mean	cv	0%	25%	50%	75%	100%	STEAM:n
1 Se	23.3700	0.04643049	21.76	23.2675	23.795	23.8975	24.13	4
25 Se	13.6700	0.38840671	8.13	10.4025	13.050	16.3175	20.45	4
5 Se	17.6825	0.09371375	15.43	17.2075	17.945	18.4200	19.41	4
C	22.5800	0.10434448	19.40	21.5150	23.150	24.2150	24.62	4
S	6.7625	0.23146108	5.46	5.9100	6.285	7.1375	9.02	4
S + 1 Se	7.6575	0.24403708	6.03	6.5925	7.145	8.2100	10.31	4
S + 25 Se	5.0750	0.21774068	4.15	4.4875	4.740	5.3275	6.67	4
S + 5 Se	6.7325	0.19895462	5.05	6.0850	6.830	7.4775	8.22	4

```
> |
```

VARIAVEL: LEAF

```
Rcmdr> numSummary(dados3[, "LEAF", drop=FALSE], groups=dados3$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
```

	mean	cv	0%	25%	50%	75%	100%	LEAF:n
1 Se	25.4925	0.11330869	22.00	24.2275	25.485	26.750	29.0	4
25 Se	18.1000	0.24484552	14.40	14.8500	17.000	20.250	24.0	4
5 Se	21.5800	0.08973069	19.62	20.2800	21.350	22.650	24.0	4
C	25.0500	0.11484709	22.20	22.8000	25.000	27.250	28.0	4
S	13.1500	0.26666618	10.10	11.0750	12.200	14.275	18.1	4
S + 1 Se	10.5500	0.14281061	8.50	10.0750	10.800	11.275	12.1	4
S + 25 Se	5.7500	0.41702883	3.50	4.2500	5.250	6.750	9.0	4
S + 5 Se	11.2000	0.21141429	9.10	9.1750	11.200	13.225	13.3	4

```
> |
```

CLONE: AEC0144

VARIAVEL: ROOT

```
Rcmdr> numSummary(dados4[, "ROOT", drop=FALSE], groups=dados4$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% ROOT:n
1 Se    28.4300 0.22851698 20.66 24.2750 29.530 33.6850 34.00      4
25 Se    22.3950 0.29940765 14.33 19.0025 22.475 25.8675 30.30      4
5 Se    19.9125 0.67543556  8.01  8.4225 19.585 31.0750 32.47      4
C      28.4150 0.22227820 20.93 24.3200 29.365 33.4600 34.00      4
S        6.7975 0.08888976  5.96  6.6050  6.925  7.1175  7.38      4
S + 1 Se 10.1375 0.66896124  4.06  5.9050  8.490 12.7225 19.51      4
S + 25 Se  8.0525 0.47716945  4.21  5.0725  8.000 10.9800 12.00      4
S + 5 Se  5.6425 0.14757313  5.18  5.2100  5.250  5.6825  6.89      4
> |
```

VARIAVEL: STEAM

```
Rcmdr> numSummary(dados4[, "STEAM", drop=FALSE], groups=dados4$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% STEAM:n
1 Se    24.8775 0.14784849 19.65 23.7825 25.910 27.0050 28.04      4
25 Se    13.3350 0.32766098  7.62 11.0700 14.410 16.6750 16.90      4
5 Se    17.3725 0.36737078  7.86 16.6125 20.265 21.0250 21.10      4
C      23.7225 0.04117653 22.90 22.9750 23.505 24.2525 24.98      4
S        5.7950 0.15632872  4.69  5.2975  5.850  6.3475  6.79      4
S + 1 Se  7.8400 0.32473030  5.13  6.3000  7.585  9.1250 11.06      4
S + 25 Se  7.7825 0.31841034  5.53  5.6950  7.770  9.8575 10.06      4
S + 5 Se  8.6625 0.65533485  4.81  5.7850  6.370  9.2475 17.10      4
> |
```

VARIAVEL: LEAF

```
Rcmdr> numSummary(dados4[, "LEAF", drop=FALSE], groups=dados4$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% LEAF:n
1 Se    25.6750 0.09547654 24.0 24.3000 24.700 26.075 29.3      4
25 Se    19.3500 0.22008871 14.0 17.2250 19.700 21.825 24.0      4
5 Se    23.5525 0.20778209 16.5 22.1175 25.355 26.790 27.0      4
C      25.8250 0.09370311 23.0 24.3500 25.900 27.375 28.5      4
S        6.9250 0.25761101  5.0  5.9000  6.750  7.775  9.2      4
S + 1 Se  9.8300 0.41203463  4.5  8.2650 10.310 11.875 14.2      4
S + 25 Se 11.3250 0.37333176  6.2  9.0500 11.500 13.775 16.1      4
S + 5 Se  8.7250 0.30716546  5.8  6.7750  9.050 11.000 11.0      4
> |
```

Figure 3

A) IRGA – CLONE VCC865

	PN	TR	GS	CI
Treatment	CV%	CV%	CV%	CV%
C	6,79	5,60	15,89	1,43
1 Se	16,25	4,53	12,71	7,67
5 Se	4,00	14,40	13,95	1,91
25 Se	17,35	4,23	10,17	8,76
Nacl	7,08	18,74	32,68	4,42
Nacl + 1 Se	7,34	9,45	9,86	2,03
Nacl + 5 Se	3,21	22,24	26,01	9,30
Nacl + 25 Se	8,53	12,50	12,24	3,68

B) IRGA – CLONE AEC0144

	PN	TR	GS	CI
Treatment	CV%	CV%	CV%	CV%
C	5,80	1,35	7,76	1,81
1 Se	3,79	4,80	3,94	1,89
5 Se	5,17	1,06	8,86	3,03
25 Se	21,50	4,15	19,00	3,81
Nacl	12,30	10,33	26,07	1,45
Nacl + 1 Se	11,95	7,43	21,21	2,50
Nacl + 5 Se	12,30	20,46	41,18	8,64
Nacl + 25 Se	12,25	21,90	37,87	12,09

DATA

CLONE **VCC865**

VARIÁVEL: **PN**

```
Rcmdr> numSummary(IRGA_VCC[, "PN", drop=FALSE], groups=IRGA_VCC$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv      0%      25%      50%      75%      100% PN:n
1 Se    18.2000 0.16258971 14.18 16.9625 18.845 20.0825 20.93    4
25 Se    17.8650 0.17352997 13.22 17.7500 19.315 19.4300 19.61    4
5 Se     19.8750 0.04001081 18.88 19.5850 19.900 20.1900 20.82    4
C        19.2525 0.06791595 17.80 18.5800 19.140 19.8125 20.93    4
S        10.8775 0.07088328 10.19 10.2200 10.880 11.5375 11.56    4
S + 1 Se 10.3350 0.07344523  9.30 10.0275 10.500 10.8075 11.04    4
S + 25 Se 5.6050 0.08537103  5.26  5.2675  5.440  5.7775  6.28    4
S + 5 Se  9.4400 0.03210754  9.05  9.2900  9.480  9.6300  9.75    4
> |
```

VARIAVEL: TR

```
Rcmdr> numSummary(IRGA_VCC[, "TR", drop=FALSE], groups=IRGA_VCC$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
```

	mean	cv	0%	25%	50%	75%	100%	TR:n
1 Se	5.4325	0.04537360	5.21	5.2625	5.380	5.5500	5.76	4
25 Se	5.1075	0.04239742	4.92	4.9350	5.070	5.2425	5.37	4
5 Se	5.1800	0.14408668	4.08	5.0850	5.450	5.5450	5.74	4
C	5.6025	0.05601675	5.28	5.4525	5.550	5.7000	6.03	4
S	3.2075	0.18743143	2.81	2.8775	2.960	3.2900	4.10	4
S + 1 Se	2.7450	0.09455406	2.36	2.7050	2.855	2.8950	2.91	4
S + 25 Se	2.9875	0.22249345	2.33	2.4575	3.030	3.5600	3.56	4
S + 5 Se	2.6575	0.12500555	2.37	2.3700	2.650	2.9375	2.96	4

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> |
```

VARIAVEL: GS

```
Rcmdr> numSummary(IRGA_VCC[, "GS", drop=FALSE], groups=IRGA_VCC$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
```

	mean	cv	0%	25%	50%	75%	100%	GS:n
1 Se	0.5575	0.12715199	0.51	0.5100	0.530	0.5775	0.66	4
25 Se	0.5225	0.10172388	0.46	0.4900	0.525	0.5575	0.58	4
5 Se	0.5250	0.13953816	0.42	0.5100	0.545	0.5600	0.59	4
C	0.5900	0.15899714	0.49	0.5350	0.580	0.6350	0.71	4
S	0.1550	0.32685342	0.12	0.1275	0.135	0.1625	0.23	4
S + 1 Se	0.1275	0.09869065	0.11	0.1250	0.130	0.1325	0.14	4
S + 25 Se	0.1350	0.26013960	0.10	0.1075	0.135	0.1625	0.17	4
S + 5 Se	0.1225	0.12244898	0.11	0.1100	0.120	0.1325	0.14	4

```
> |
```

VARIAVEL: CI

```
Rcmdr> numSummary(IRGA_VCC[, "CI", drop=FALSE], groups=IRGA_VCC$TRAT,
Rcmdr+   statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
```

	mean	cv	0%	25%	50%	75%	100%	CI:n
1 Se	302.5	0.07679579	282	285.00	298.0	315.50	332	4
25 Se	301.5	0.08769024	280	288.25	293.0	306.25	340	4
5 Se	292.0	0.01916993	287	289.25	290.5	293.25	300	4
C	295.0	0.01438183	291	291.75	294.5	297.75	300	4
S	296.0	0.04422107	277	292.75	300.5	303.75	306	4
S + 1 Se	275.0	0.02035498	270	270.75	274.0	278.25	282	4
S + 25 Se	280.5	0.03687729	271	274.75	278.0	283.75	295	4
S + 5 Se	290.0	0.09308216	271	276.25	279.5	293.25	330	4

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> |
```


CLONE AEC0144

VARIABLE: PN

```
Rcmdr> numSummary(IRGA_AEC[, "PN", drop=FALSE], groups=IRGA_AEC$TRAT,
Rcmdr+  statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% PN:n
1 Se    17.6575 0.03792414 16.82 17.3600 17.690 17.9875 18.43    4
25 Se    15.5125 0.21506264 10.56 15.2550 16.825 17.0825 17.84    4
5 Se    18.4925 0.05175380 17.76 18.0300 18.155 18.6175 19.90    4
C       18.2125 0.05801739 16.70 17.9075 18.535 18.8400 19.08    4
S        9.9775 0.12309220  8.69  9.0575 10.015 10.9350 11.19    4
S + 1 Se 13.9950 0.11958620 12.12 12.8175 14.180 15.3575 15.50    4
S + 25 Se 7.4000 0.12250430  6.06  7.2450  7.765  7.9200  8.01    4
S + 5 Se 11.8350 0.12305870 10.14 10.8675 12.010 12.9775 13.18    4
>
```

VARIABLE: TR

```
Rcmdr> numSummary(IRGA_AEC[, "TR", drop=FALSE], groups=IRGA_AEC$TRAT,
Rcmdr+  statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% TR:n
1 Se     5.5675 0.04800262  5.26  5.4550  5.550  5.6625  5.91    4
25 Se     5.2725 0.04159282  5.04  5.1525  5.245  5.3650  5.56    4
5 Se     5.5700 0.01067179  5.49  5.5425  5.585  5.6125  5.62    4
C        5.6850 0.01358737  5.64  5.6400  5.650  5.6950  5.80    4
S        4.5525 0.10331590  4.09  4.1800  4.550  4.9225  5.02    4
S + 1 Se 4.7750 0.07432834  4.28  4.6550  4.860  4.9800  5.10    4
S + 25 Se 3.7550 0.21900789  2.97  3.0825  3.780  4.4525  4.49    4
S + 5 Se 4.5250 0.20469943  3.16  4.3450  4.900  5.0800  5.14    4
>
```

VARIABLE: GS

```
Rcmdr> numSummary(IRGA_AEC[, "GS", drop=FALSE], groups=IRGA_AEC$TRAT,
Rcmdr+  statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% GS:n
1 Se     0.5625 0.03941966  0.54  0.5475  0.560  0.5750  0.59    4
25 Se     0.5425 0.19000487  0.39  0.5250  0.585  0.6025  0.61    4
5 Se     0.5900 0.08861236  0.54  0.5475  0.590  0.6325  0.64    4
C        0.6075 0.07764594  0.54  0.5925  0.625  0.6400  0.64    4
S        0.3550 0.26072194  0.27  0.2775  0.355  0.4325  0.44    4
S + 1 Se 0.4000 0.21213203  0.28  0.3850  0.420  0.4350  0.48    4
S + 25 Se 0.2375 0.37875239  0.15  0.1650  0.240  0.3125  0.32    4
S + 5 Se 0.3625 0.41187294  0.14  0.3500  0.425  0.4375  0.46    4
>
```

VARIABLE: CI

```
Rcmdr> numSummary(IRGA_AEC[, "CI", drop=FALSE], groups=IRGA_AEC$TRAT,
Rcmdr+  statistics=c("mean", "quantiles", "cv"), quantiles=c(0,.25,.5,.75,1))
      mean      cv    0%    25%    50%    75%   100% CI:n
1 Se    302.00 0.01892542 297 298.50 300.5 304.00 310    4
25 Se    315.75 0.03812552 303 310.50 314.0 319.25 332    4
5 Se    300.50 0.03031758 288 297.00 302.5 306.00 309    4
C       303.50 0.01814686 298 299.50 303.0 307.00 310    4
S       328.75 0.01456163 322 327.25 330.0 331.50 333    4
S + 1 Se 307.00 0.02509060 300 301.50 305.5 311.00 317    4
S + 25 Se 326.00 0.08643560 295 306.25 327.0 346.75 355    4
S + 5 Se 306.50 0.12098203 252 301.50 319.5 324.50 335    4
>
```