

**Tables 1a-h. Total yield, marketable yield, percent marketable yield, berry weight and average harvest date of florican-fruiting blackberry genotypes in Salisbury, NC. Data outside of tunnel is average of 4 reps, tunnel is single plot.**

**Table 1a. Total yield (g/plant)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	5460 b	8465	9321 b	9865	5690 cd	5535	6824 b	7955 bc
Arapaho	3539 c	8031	4200 c	5864	3901 d	4646	3880 c	6180 c
Natchez	3735 c	n/a	6003 bc	n/a	7535 bc	n/a	5758 bc	n/a
Navaho	9882 a	12483	12813 a	9979	10143 bc	11530	10946 a	11331 a
NC 430	4962 bc	9144	13488 a	12522	17602 a	8428	12017 a	10031 ab
Ouachita	5721 b	7417	6259 bc	8628	4008 d	6313	5329 bc	7453 bc

**Table 1b. Marketable yield (g/plant)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	3571 bcd	7488	7162 b	8806	3519 cd	4837	4751 b	7044 bc
Arapaho	2330 d	4924	3342 c	5210	3014 d	4046	2895 b	4727 c
Natchez	3119 cd	n/a	5202 bc	n/a	5926 bc	n/a	4749 b	n/a
Navaho	8107 a	11272	11206 a	9209	8369 b	10611	9227 a	10364 a
NC 430	4264 bc	8041	12215 a	10969	15633 a	7161	10704 a	8724 ab
Ouachita	4589 b	6700	5255 bc	7891	2838 d	5775	4227 b	6789 bc

**Table 1c. Percent marketable weight (%)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	65 c	88	77 c	89	62 d	87	68 d	88 a
Arapaho	66 c	61	80 c	89	77 bc	87	74 c	79 a
Natchez	84 ab	n/a	87 ab	n/a	79 b	n/a	83 ab	n/a
Navaho	82 ab	90	87 ab	92	83 ab	92	84 a	92 a
NC 430	86 a	88	91 a	88	89 a	85	88 a	87 a
Ouachita	80 b	90	84 b	91	71 c	91	78 bc	91 a

**Table 1d. Average berry weight (g)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	10.1 a	10.9	8.8 a	10.6	9.3 a	9.9	9.4 a	10.5
Arapaho	5.5 cd	8.6	5.5 d	6.6	6.2 bc	7.2	5.7 c	7.5
Natchez	9.6 a	n/a	8.2 b	n/a	9.0 a	n/a	8.9 a	n/a
Navaho	5.0 d	5.3	5.4 d	5.7	5.2 c	6.1	5.2 d	5.7
NC 430	6.5 bc	6.8	6.5 c	6.5	6.9 b	6.5	6.6 b	6.6
Ouachita	6.8 b	7.6	6.2 c	7.3	8.2 b	7.0	7.1 b	7.3

**Table 1e. 2008 Average Harvest Date at 5, 50 and 95 percent total yield**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	3-Jul	5-Jul	20-Jul	23-Jul	6-Aug	12-Aug
Arapaho	11-Jun	2-Jun	21-Jun	16-Jun	12-Jul	4-Jul
Natchez	15-Jun	n/a	2-Jul	n/a	13-Jul	n/a
Navaho	30-Jun	1-Jul	22-Jul	24-Jul	10-Aug	20-Aug
NC 430	29-Jun	27-Jun	16-Jul	16-Jul	13-Aug	10-Aug
Ouachita	21-Jun	22-Jun	9-Jul	14-Jul	1-Aug	4-Aug

**Table 1f. 2009 Average Harvest Date at 5, 50 and 95 percent total yield**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	27-Jun	26-Jun	15-Jul	19-Jul	7-Aug	12-Aug
Arapaho	6-Jun	1-Jun	14-Jun	11-Jun	3-Jul	3-Jul
Natchez	9-Jun	n/a	23-Jun	n/a	17-Jul	n/a
Navaho	24-Jun	20-Jun	17-Jul	24-Jul	13-Aug	19-Aug
NC 430	19-Jun	21-Jun	4-Jul	18-Jul	30-Jul	8-Aug
Ouachita	16-Jun	14-Jun	1-Jul	7-Jul	22-Jul	28-Jul

**Table 1g. 2010 Average Harvest Date at 5, 50 and 95 percent total yield**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	19-Jun	18-Jun	3-Jul	7-Jul	28-Jul	22-Jul
Arapaho	2-Jun	29-May	10-Jun	12-Jun	26-Jun	27-Jun
Natchez	5-Jun	n/a	18-Jun	n/a	10-Jul	n/a
Navaho	18-Jun	20-Jun	11-Jul	10-Jul	5-Aug	30-Jul
NC 430	18-Jun	20-Jun	1-Jul	6-Jul	27-Jul	28-Jul
Ouachita	12-Jun	17-Jun	25-Jun	2-Jul	15-Jul	18-Jul

**Table 1h. Average Harvest Date at 5, 50 and 95 percent total yield 2008-2010 combined**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Apache	26-Jun d	26-Jun b	12-Jul cd	16-Jul b	3-Aug cd	5-Aug b
Arapaho	6-Jun a	31-May a	15-Jun a	13-Jun a	3-Jul a	1-Jul a
Natchez	9-Jun ab	n/a	24-Jun ab	n/a	13-Jul ab	n/a
Navaho	24-Jun cd	23-Jun b	16-Jul d	19-Jul b	9-Aug d	12-Aug b
NC 430	22-Jun cd	22-Jun b	7-Jul cd	13-Jul b	2-Aug cd	5-Aug b
Ouachita	16-Jun bc	17-Jun b	1-Jul bc	7-Jul b	23-Jul bc	27-Jul b

**Tables 2a-d. Total yield, markt. yield, % market. yield, berry weight and avg. harvest date of florican-fruiting raspberry genotypes in Salisbury, NC. Data outside of tunnel is average of 4 reps, tunnel is single plot.**

**Table 2a. Total yield (g/plant)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	1694 a	1954	3530 a	4412	3052 a	2928	2759	3098
Lauren	1718 a	2562	2832 a	4623	2220 a	4223	2256	3803
Mandarin	1784 a	3293	2036 a	2690	n/a	n/a	1910	2991
Moutere	3143 a	3570	3383 a	4167	2684 a	3659	3070	3798
NC 344	2039 a	2823	2752 a	2886	1646 a	2980	2145	2896
NC 548	n/a	n/a	n/a	n/a	3036 a	n/a	3036	n/a
NC 612	n/a	n/a	n/a	n/a	1471 a	1626	1471	1626
NC 621	n/a	n/a	n/a	n/a	4452 a	n/a	4452	n/a

**Table 2b. Marketable yield (g/plant)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	1560 a	2390	2858 a	4204	2647 a	2646	2355	3080
Lauren	1245 a	2631	2030 a	4226	1610 a	3812	1629	3556
Mandarin	1377 a	1576	1537 a	2196	n/a	n/a	1457	1886
Moutere	2254 a	1936	2686 a	3836	2181 a	3127	2374	2966
NC 344	1426 a	2415	2172 a	2736	1407 a	2793	1668	2648
NC 548	n/a	n/a	n/a	n/a	2698 a	n/a	2698	n/a
NC 612	n/a	n/a	n/a	n/a	1068 a	1351	1068	1351
NC 621	n/a	n/a	n/a	n/a	3921 a	n/a	3921	n/a

**Table 2c. Percentage marketable weight (%)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	92 a	93	81 a	95	86 ab	90	86	93
Lauren	73 b	74	72 a	91	73 c	90	72	85
Mandarin	77 b	81	76 a	82	n/a	n/a	76	81
Moutere	72 b	69	79 a	92	81 b	86	77	82
NC 344	70 b	73	79 a	95	85 ab	94	78	87
NC 548	n/a	n/a	n/a	n/a	87 ab	n/a	87	n/a
NC 612	n/a	n/a	n/a	n/a	72 c	83	72	83
NC 621	n/a	n/a	n/a	n/a	88 a	n/a	88	n/a

**Table 2d. Average berry weight (g)**

	2008	2009	2010	Mean
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Genotype	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	2.7 b	2.6	2.6 b	3.2	2.6 b	2.7	2.6	2.8
Lauren	3.5 a	3.6	3.7 a	4.3	3.7 a	3.8	3.6	3.9
Mandarin	1.7 c	2.1	1.8 c	1.9	n/a b	n/a	1.8	2.0
Moutere	2.8 b	3.0	3.0 b	3.0	3.0 b	2.9	2.9	3.0
NC 344	2.5 b	2.6	2.8 b	3.0	2.6 b	2.6	2.7	2.7
NC 548	n/a	n/a	n/a	n/a	2.8 b	n/a	2.8	n/a
NC 612	n/a	n/a	n/a	n/a	2.9 b	3.2	2.9	3.2
NC 621	n/a	n/a	n/a	n/a	2.5 b	n/a	2.5	n/a

**Table 2e. 2008 Average Harvest Date at 5, 50 and 95 percent total yield**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	15-Jun	17-Jun	28-Jun	26-Jun	12-Jul	14-Jul
Lauren	4-Jun	5-Jun	19-Jun	19-Jun	1-Jul	3-Jul
Mandarin	12-Jun	14-Jun	20-Jun	22-Jun	3-Jul	2-Jul
Moutere	7-Jun	5-Jun	18-Jun	17-Jun	1-Jul	29-Jun
NC 344	7-Jun	7-Jun	17-Jun	17-Jun	1-Jul	1-Jul

**Table 2f. 2009 Average Harvest Date at 5, 50 and 95 percent total yield**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	10-Jun	8-Jun	19-Jun	18-Jun	5-Jul	5-Jul
Lauren	10-Jun	6-Jun	19-Jun	18-Jun	5-Jul	3-Jul
Mandarin	10-Jun	15-Jun	18-Jun	23-Jun	4-Jul	4-Jul
Moutere	8-Jun	8-Jun	17-Jun	17-Jun	2-Jul	2-Jul
NC 344	6-Jun	9-Jun	15-Jun	18-Jun	30-Jun	6-Jul

**Table 2g. 2010 Average Harvest Date at 5, 50 and 95 percent total yield**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	8-Jun	6-Jun	17-Jun	15-Jun	30-Jun	30-Jun
Lauren	2-Jun	1-Jun	14-Jun	9-Jun	28-Jun	22-Jun
Mandarin	n/a	n/a	n/a	n/a	n/a	n/a
Moutere	4-Jun	4-Jun	14-Jun	13-Jun	26-Jun	25-Jun
NC 344	5-Jun	3-Jun	15-Jun	13-Jun	26-Jun	28-Jun
NC 548	14-Jun	n/a	1-Jul	n/a	11-Jul	n/a
NC 612	8-Jun	6-Jun	17-Jun	17-Jun	29-Jun	30-Jun
NC 621	25-May	n/a	5-Jun	n/a	19-Jun	n/a

**Table 2h. Average Harvest Date at 5, 50 and 95 percent total yield 2008-2010 combined**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Latham	11-Jun	10-Jun	21-Jun	19-Jun	5-Jul	6-Jul
Lauren	5-Jun	4-Jun	17-Jun	15-Jun	1-Jul	29-Jun
Mandarin*	11-Jun	14-Jun	19-Jun	22-Jun	3-Jul	3-Jul
Moutere	6-Jun	5-Jun	16-Jun	15-Jun	29-Jun	28-Jun
NC 344	6-Jun	6-Jun	15-Jun	16-Jun	29-Jun	1-Jul

\*Mandarin does not include 2010 (n/a)



**Tables 3a-h. Total yield, marketable yield, percent marketable yield, berry weight and average harvest date of primocane-fruiting raspberry genotypes in Salisbury, NC, grown in and outside of tunnels 2008-2010. Outside data replicated 4 times, tunnel data is from one plot.**

**Table 3a. Total yield (g/plant)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	1120	n/a	2077	n/a	757	n/a	1318	n/a
Autumn Britten	434	4813	1423	3078	487	2087	781	3326
Caroline	480	4634	3946	3124	638	1230	1688	2996
Heritage	836	n/a	2150	n/a	1328	n/a	1438	n/a
Himbo Top	820	5037	2531	3191	2261	1891	1871	3373
Jaclyn	1048	n/a	2242	n/a	514	n/a	1268	n/a
Joan J	959	3421	2706	2781	1019	1326	1561	2509
Nantahala	583	2000	1006	1005	493	674	694	1226
NC 452	n/a	n/a	376	n/a	261	n/a	319	n/a
Nova	n/a	n/a	269	n/a	320	n/a	294	n/a

**Table 3b. Marketable yield (g/plant)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	762	n/a	1610	n/a	587	n/a	986	n/a
Autumn Britten	297	4070	1030	2732	335	1754	554	2852
Caroline	188	4235	1080	2614	398	982	555	2610
Heritage	411	n/a	887	n/a	830	n/a	709	n/a
Himbo Top	600	4338	1903	2913	1947	1631	1483	2961
Jaclyn	745	n/a	1552	n/a	359	n/a	885	n/a
Joan J	651	2897	1679	2330	711	1028	1014	2085
Nantahala	313	1469	740	831	326	471	460	924
NC 452	n/a	n/a	302	n/a	180	n/a	241	n/a
Nova	n/a	n/a	194	n/a	274	n/a	234	n/a

**Table 3c. Percentage marketable weight (%)**

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	68	n/a	78	n/a	77	n/a	74	n/a
Autumn Britten	69	85	72	89	69	84	70	86
Caroline	39	91	27	84	62	80	43	85
Heritage	49	n/a	41	n/a	63	n/a	51	n/a
Himbo Top	73	86	75	91	86	86	78	88
Jaclyn	71	n/a	69	n/a	70	n/a	70	n/a
Joan J	68	85	62	84	70	77	67	82
Nantahala	54	73	74	83	66	70	64	75
NC 452	n/a	n/a	80	n/a	69	n/a	75	n/a
Nova	n/a	n/a	72	n/a	86	n/a	79	n/a

Table 3d. Average berry weight (g)

Genotype	2008		2009		2010		Mean	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	2.4	n/a	2.3	n/a	2.0	n/a	2.2	n/a
Autumn Britten	2.8	3.2	2.7	3.3	2.5	2.8	2.7	3.1
Caroline	2.8	2.7	2.6	2.7	2.0	2.1	2.5	2.5
Heritage	2.1	n/a	2.1	n/a	1.8	n/a	2.0	n/a
Himbo Top	3.0	3.1	2.9	3.3	2.6	2.5	2.8	3.0
Jaclyn	2.7	n/a	2.4	n/a	2.2	n/a	2.4	n/a
Joan J	2.8	2.8	2.6	2.8	2.4	2.3	2.6	2.7
Nantahala	3.1	2.8	2.7	2.8	2.1	2.1	2.7	2.6
NC 452	2.8	n/a	2.8	n/a	2.1	n/a	2.4	n/a
Nova	n/a	n/a	2.9	n/a	2.5	n/a	2.7	n/a

Table 3e. 2008 Average Harvest Date at 5, 50 and 95 percent total yield

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	25-Jul	n/a	26-Aug	n/a	8-Oct	n/a
Autumn Britten	13-Jul	14-Jun	15-Aug	1-Aug	8-Oct	30-Sep
Caroline	6-Aug	26-Jun	5-Sep	20-Aug	7-Oct	18-Sep
Heritage	10-Aug	n/a	1-Sep	n/a	29-Sep	n/a
Himbo Top	13-Jul	17-Jun	20-Aug	10-Aug	9-Oct	28-Sep
Jaclyn	21-Jul	n/a	13-Aug	n/a	8-Sep	n/a
Joan J	19-Jul	23-Jun	17-Aug	6-Aug	5-Oct	11-Sep
Nantahala	12-Aug	1-Aug	8-Sep	22-Aug	6-Oct	20-Sep
NC 452	n/a	n/a	n/a	n/a	n/a	n/a
Nova	n/a	n/a	n/a	n/a	n/a	n/a

Table 3f. 2009 Average Harvest Date at 5, 50 and 95 percent total yield

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	15-Jul	n/a	5-Aug	n/a	23-Sep	n/a
Autumn Britten	7-Jul	10-Jun	28-Jul	25-Jul	21-Aug	17-Nov
Caroline	31-Jul	1-Jul	15-Aug	29-Jul	13-Sep	14-Aug
Heritage	31-Jul	n/a	20-Aug	n/a	14-Sep	n/a
Himbo Top	22-Jul	19-Jun	20-Aug	30-Jun	26-Sep	8-Nov
Jaclyn	14-Jul	n/a	1-Aug	n/a	26-Aug	n/a
Joan J	8-Jul	12-Jun	12-Aug	26-Jul	17-Sep	9-Nov
Nantahala	20-Aug	26-Jun	11-Sep	24-Jul	2-Oct	17-Aug
NC 452	28-Aug	n/a	21-Sep	n/a	4-Oct	n/a
Nova	11-Sep	n/a	25-Sep	n/a	6-Oct	n/a



**Table 3g. 2010 Average Harvest Date at 5, 50 and 95 percent total yield**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	8-Jun	n/a	4-Jul	n/a	14-Oct	n/a
Autumn Britten	9-Jun	31-May	7-Jul	30-Jun	4-Aug	9-Oct
Caroline	18-Jun	19-Jun	26-Jul	16-Jul	22-Aug	5-Aug
Heritage	20-Jun	n/a	3-Aug	n/a	28-Aug	n/a
Himbo Top	15-Jun	8-Jun	18-Jul	9-Jul	15-Oct	4-Oct
Jaclyn	28-Jun	n/a	15-Jul	n/a	31-Jul	n/a
Joan J	7-Jun	3-Jun	2-Jul	29-Jun	12-Sep	17-Oct
Nantahala	26-Jun	17-Jun	11-Aug	11-Jul	13-Sep	14-Aug
NC 452	28-Jun	n/a	5-Sep	n/a	26-Oct	n/a
Nova	14-Jun	n/a	30-Jun	n/a	11-Oct	n/a

**Table 3h. Average Harvest Date at 5, 50 and 95 percent total yield 2008-2010 combined**

Genotype	5%		50%		95%	
	Outside	Tunnel	Outside	Tunnel	Outside	Tunnel
Autumn Bliss	6-Jul	n/a	1-Aug	n/a	5-Oct	n/a
Autumn Britten	29-Jun	8-Jun	27-Jul	19-Jul	31-Aug	19-Oct
Caroline	18-Jul	25-Jun	15-Aug	1-Aug	13-Sep	22-Aug
Heritage	20-Jul	n/a	18-Aug	n/a	13-Sep	n/a
Himbo Top	6-Jul	14-Jun	9-Aug	16-Jul	6-Oct	13-Oct
Jaclyn	11-Jul	n/a	30-Jul	n/a	21-Aug	n/a
Joan J	1-Jul	12-Jun	31-Jul	20-Jul	21-Sep	12-Oct
Nantahala	30-Jul	5-Jul	30-Aug	29-Jul	27-Sep	27-Aug
NC 452	28-Jul	n/a	13-Sep	n/a	15-Oct	n/a
Nova	28-Jul	n/a	12-Aug	n/a	8-Oct	n/a