



AR2009-10 (F91031 x Congo) Pigmented Flesh



Photo of AR2009-10 Potato

Long selection with dark purple flesh, good culinary quality and resistance to golden nematode.

Plant vigour strong, greater than Kennebec; late maturity, similar to Kennebec.

Tubers long (L: W = 2.1); slightly bigger than average size with better than average appearance; smooth purple skin (RHS N92A) and dark purple flesh (RHS N92A). High number of eyes, average depth; prominent eyebrows.

Yields greater than Congo; good boil and fair bake quality; may have French fry quality. Dormancy was shorter than Russet Burbank in 2008.

Low bruise scores recorded from a controlled test.

This selection contains a DNA marker linked to the H1 gene for resistance to golden nematode Ro1.

In one scab test, the index was 5.

Total phenolics measured over 100 mg gallic acid /100g FW for 3 years, comparable to Congo; anthocyanin content measured twice that of Congo.

Performance and quality data are shown in the Tables below. See [notes](#) on the descriptions and data.

Table 1: AR2009-10 - Yield Data

Clone	Spacing (cm)	Year	Location	Tuber size	Yield in T/ha				
					Total	#1	Market-able	Small	Cull
AR2009-10	25	2007	Benton 50H	6.0	46.9	33.9	33.9	11.5	1.5
	36	2008	Benton 100H	6.0	11.8	9.7	9.7	1.8	0.3
			Overall Mean	6.0	29.4	21.8	21.8	6.7	0.9
Congo	25	2007	Benton 50H	4.0	22.7	14.4	14.4	8.2	0.1
	30	2008	Benton 100H	5.0	9.3	6.7	6.7	2.5	0.1
			Overall Mean	4.5	16.0	10.6	10.6	5.4	0.1
Shepody	36	2007	Benton 50H	6.7	21.7	18.7	18.7	0.9	2.1
	36	2008	Benton 100H	6.7	22.4	19.2	19.2	1.1	2.1
			Overall Mean	6.7	22.1	19.0	19.0	1.0	2.1

Table 2: AR2009-10 - Quality Data

Clone	Spacing (cm)	Year	Location	Specific gravity	Boil	Bake	French Fry			
							Dec. 13°C	Feb. 13°C	Dec. 7°C	Feb. 7°C
AR2009-10	25	2007	Benton 50H	1.081	76.0	70.0	57.0	70.0	60.0	54.0
	36	2008	Benton 100H	1.082	79.2	57.5	68.7		56.7	
			Overall Mean	1.082	78.0	63.8	62.9	70.0	58.4	54.0
Congo	25	2007	Benton 50H	1.079	72.0	65.0				
	30	2008	Benton 100H	1.073	77.5	61.8				
			Overall Mean	1.076	75.0	63.4				
Shepody	36	2007	Benton 50H	1.080	83.0	62.7	74.7	60.3	73.0	64.3
	36	2008	Benton 100H	1.077	81.7	62.5	52.9	59.1		
			Overall Mean	1.079	82.3	62.6	63.8	59.7	73.0	64.3