

(1)

(1)

20

2008

2004

8 - 2.5

)

.DAFB

.(

:

(1)

Evaluation of The Most Important Apple Varieties in Syria

B. M. Muzher⁽¹⁾ and O. T. Al-Halabi⁽¹⁾

ABSTRACT

Twenty apple varieties were evaluated in the germ plasm of the Agricultural Scientific Research Center in Swaida for Morphological traits, bud honological stages, days after full bloom, storability which were ranged between 2.5 – 8 months, and best susceptibility (e.g. wooly aphid and powdery mildew), all studied varieties showed low susceptibility to wooly aphid, while Jersy Mac revealed high susceptibility to powdery mildew compared with the other varieties. The yield of all varieties was studied, so, they divided into: high yield varieties such Stark Earliest, Royal Gala and Golden 972; Good yield varieties "Golden Delicious, Starking Delicious, and Granny Smith etc."; and moderate yield varieties" Red Spur Delicious and Rome Beauty". Chemical analysis (Total soluble solids and total sugars) were achieved for all studied apple varieties. Apple Varieties were divided into five groups depending on Days After Full Bloom (DAFB). The present investigation indicted the high quantitative and qualitative traits of studied varieties which candidate for credence and distribute them in suitable environmental areas in Syria.

Key words: Apple, Evaluation, Morphological characterization, Phenological stages, Yield, Storability, Chemical analysis.

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360697

.(2009)

120

(1988) Grauslund

(1995) Gofferda (1993) Zhang Guo (1991) Fischer Potzold
(2002) Greene (2002) Akhtar (1996) Xun (1996) Jia keli
.(2006) Costes
(1993) Misic

Wu (2006)

Mitcham (2005)

Schwallier
.(2007)

. -1
 . -2
 . -3

20 20 : •

Stark
 Golden Johnne Grimes Jersy Mac Earliest
 "Golden 972"972 Royal Gala Wealthy Double Red
 Starking Mutsu Ozark Gold Delicious
 Royal Red Stark Rimson Delicious
 Well Top Red Starking Spur Delicious
 Winter Banana Red Spur Delicious Spur
 "Granny Smith" Rome beauty

: •

Malus communis

(IPGRI 1997)

Lane and Eynon : •
 (Schmidt) .(1923)
 + Haensch Refractometer)
 0.1

5 / : •

: •

.%95-90 °1±0

IPGRI : •
(1997)
one-way anova : •
(DAFB)
SPSS 17 .

:(DAFB)

(1)
days after full) DAFB (bloom
() 105-90
) 125-120 ()
145-130 ()
972)
) ()
170-160 ()
()
(2002) .(1) 185-175
Akhtar

...

(1)

(DAFB)

DAFB ()	(1)			
90-95				
100-105				
120-125				
120-125				
130-135				
140-145				
160-165				
160-165				972
160-165				
170-175				
165-170				
165-170				
165-170				
165-170				
165-170				
165-170				
165-170				
165-170				
175-180				
175-180				
180-185				

: (1)

8.3 =DAFB % 5 LSD .

:

(2)

(94.7)

(137)

(208.4-220.7)

(243.8)

(2)

(2)

(2)

	(1)	()		
		94.7		
		136.9		
		161.4		
		202.4		
		137.9		
		182.2		
		178.8		
		188.6		972
		170.8		
		*243.8		
		198.3		
		181.2		
		*208.4		
		165.2		
		*220.7		
		152.4		
		178.7		
		185.1		
		157.2		
		161.6		

125-175 75-100 25-50 : (1)
 (35.6 = %5 LSD) 0.05 * . 175

...

:

(3)

%12.8

%21.4

972

%9.3

%17 %17.6

Misc

0.2)

.(1993)

(%0.58)

(%0.27

:

135 - 130

.(3) 120-100

972

%3.5

:

(3)

%7.9

(%5-4)

.(Vander Blick *et al.*, 1991 Osterloh, 1996)

4-2.5

6 -5

8

(3)

)

:

(

(3)

(%)	()	¹ (/)	(%)	(%)	(%)	
6.8	2.5	100-120	*0.57	12.5	13.9	
5.58	3	75-90	*0.37	12.6	15.3	
6	4	70-80	0.34	15	16.3	
4.9	3.5	70-80	*0.46	11.1	14.4	
4.6	6	*130-135	0.33	13.3	14.8	
4.5	3	75-95	0.3	14	15.2	
7.4	*8	85-100	*0.4	*17.6	*21.4	
7.6	*8	100-120	*0.4	*17	20.3	972
5.9	5.5	70-85	*0.45	14.8	17.4	
6.37	*8	60-70	*0.38	12.8	17.7	
5.9	*8	70-80	0.33	14.5	17.7	
7.5	*8	80-95	*0.41	12.4	16	
6.7	*8	80-90	*0.38	16.2	19.9	
6.8	*8	75-85	0.2	16.5	19.7	
5.6	*8	90-100	*0.39	13.4	17	
6.7	*8	70-75	*0.4	11.7	12.8	
7.9	*8	50-60	0.27	14.4	15.5	
5.4	6	70-80	*0.43	13.3	15.3	
5.7	5	60-70	0.3	15.1	16.6	
3.5	*8	70-80	*0.58	9.3	14.5	

% LSD 5) 0.05

*

(0.72 10.7 0.26 0.81 0.61 / 100 / 75-100 / 50-75 : 1

...

:

-1

800-600

1400

1000

-2

.972

972

-3

-4

5.5

-5

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