

Pyrus communis L.

2010-2009

2009/9/15 8/30 8/15

Cydonia oblonga

Pyrus calleryana

9/15

%714.64 %82.41 %88.95

8/15 8/30

/

Pyrus calleryana

Teng)

(2002

.(1998 Castro Rodrigues)

(2006)

Robbani

SPRBI

Conference Kosui

. PB

SPRBI

. 2011 / 2 / 3

. 2011 / 4 / 27

Paktas)
Pyrus (2009
Cydonia oblonga calleryana
 2009/9/15 8/30 8/15
Pyrus
.Cydonia oblonga calleryana
 /
 2009/9/15 8/30 8/15
 25
 50 30 (1998 Muhammad) 7-5
 25 T-budding (1986 Janick)
 2010 21
 -
 6
 L.S.D (2) (1)
 (1980) 0.05
 :
 : -1
 (2010/12/1) :() -2
 :() -3
 : / -4
 (1994) Breweter :(²) -5
 .2010/10/15
 :
 × =
 : -6
 .(1970) Joslyn

			(1)	
	8/30		9/15	8/15
		%71.64	%82.41	%88.95
			(2009	Paktas)
			(2007)	
<i>Pyrus calleryana</i>				
			(2009)	Abou Rayya
			. Neplus Ultra	
		%78.57	%83.43	
	(1980) .			
%79.74				
	(2003) Webster			%82.25
9/15		%69.54	%92.33	
	9/15			8/15
	8/15	%70.09	%90.11	
%93.55			9/15	
	8/15			
				%.68.86

.1

×				
73.73	76.15	71.32		8/15
69.54	70.23	68.86		
84.23	85.01	83.46		8/30
80.60	81.93	79.27		
92.33	93.55	91.11		9/15
85.57	86.68	84.47		
71.64	73.19	70.09	8/15	×
82.41	83.47	81.36	8/30	
88.95	90.11	87.79	9/15	
83.43	84.90	81.96		×
78.57	79.61	77.53		
		82.25	79.74	

LSD 0.05

			×	×	×	× ×
6.32	4.21	.	12.03	11.17	.	18.55

(2)

93.02

83.19

83.62

92.59

(2000) Flowers Hirst

(2004) Jacyna

Gala

.MA

Bartlett

9/15

%17.74

95.83

. 81.39

8/15

%17.00

95.87

9/15

. 81.94

79.78 98.59
 9/15
 8/15 78.56 102.22

. ()

.2

×				
90.24	95.16	85.33		8/15
81.39	84.23	78.56		
93.01	98.40	87.62		8/30
83.09	86.05	80.13		
95.83	102.22	89.45		9/15
85.09	89.53	80.66		
85.81	89.69	81.94	8/15	×
88.04	92.22	83.87	8/30	
90.46	95.87	85.05	9/15	
93.02	98.59	87.46		×
83.19	86.60	79.78		
	92.59	83.62		
LSD 0.05				
		×	×	×
	4.35	6.02	6.17	8.66
				11.37
				13.42

(3)

1.28 1.32
 1.28 1.33
 (2006) Lewko

(4)

.%39.19

%27.94

(2006) Robbani
Pyrus calleryana *Pyrus betulaefolia*

8/15
 %47.09 / 4.56
 / 3.10
 4.78 8/15
 / 2.88 /
 / 2.60 / 4.83
 / 5.42 8/15
 / 2.06
 .() .3

×				
1.30	1.36	1.25		8/15
1.26	1.29	1.23		
1.32	1.35	1.30		8/30
1.30	1.31	1.29		
1.35	1.37	1.33		9/15
1.31	1.32	1.31		
1.28	1.32	1.24	8/15	×
1.31	1.33	1.29	8/30	
1.33	1.34	1.32	9/15	
1.32	1.36	1.29		×
1.28	1.30	1.27		
	1.33	1.28		

LSD 0.05

			×	×	×	×	×
.	0.02	0.04

/		.4		
×				
3.10	2.06	4.15		8/15
4.56	3.71	5.42		
3.18	3.01	3.36		8/30
4.43	4.12	4.75		
3.91	2.75	5.11		9/15
4.08	3.82	4.34		
3.83	2.88	4.78	8/15	×
3.80	3.56	4.05	8/30	
4.00	3.28	4.72	9/15	
3.40	2.60	4.20		×
4.35	3.88	4.83		
	3.24	4.51		

LSD 0.05

			×	×	×	×	×
.	0.73	0.86	1.20	1.35	1.46	2.27	

(5)

² 26.50

² 24.76

² 24.56 ² 26.70

(2006)

Robbani

SPRBI

. Conference

La France, Kosui

SB

² 26.55

8/15

8/30

² 24.40

² 26.95

² 24.45

2 27.80 8/30 2 23.93
 %19.57 2 28.1
 2 23.5 8/15
 .(2) .5

×				
24.40	23.5	25.3		8/15
26.55	25.6	27.5		
24.90	24.0	25.8		8/30
26.50	24.9	28.1		
25.00	24.3	25.7		9/15
26.45	25.1	27.8		
25.65	24.55	26.75	8/15	×
25.70	24.45	26.95	8/30	
25.55	24.70	26.40	9/15	
24.76	23.93	25.60		×
26.50	25.20	27.80		
	24.56	26.70		

LSD 0.05

			×	×	×	×	×
.	1.13	1.18	1.48	1.61	2.41	3.06	

(6)

%6.44 %6.67
 %6.34 %6.58
 (2004) Yaha
 .Gala

(2007)

9/15
 8/30
 6.69%
 6.42%
 (6.70%)
 9/15
 8.30 6.40 6.71%
 (6.42%)
 .6

×				
6.44	6.41	6.48		8/15
6.68	6.65	6.71		
6.42	6.40	6.45		8/30
6.65	6.62	6.68		
6.47	6.45	6.50		9/15
6.69	6.68	6.71		
6.56	6.53	6.60	8/15	×
6.53	6.51	6.65	8/30	
6.58	6.56	6.60	9/15	
6.44	6.42	6.47		×
6.67	6.65	6.70		
	6.34	6.58		

LSD 0.05

			×	×	×	× ×
.	0.09	0.10	0.17	.	0.21	0.27

(2009 Paktas)

(2006 Lewko)

(1988) .

(2)

(2004 Jacyana)

%

(5)

(2)

(2003 Webster)

.1980

.2007

. (Pyrus communis L.)

.220-207 :(1) (23)

.1988

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ملحق 1. معدل درجات الحرارة العظمى والصغرى خلال فترات التطعيم 2009.

2009		الشهر
معدل درجة الحرارة الصغرى	معدل درجة الحرارة العظمى	
4.23	18.54	كانون الثاني
6.5	22.6	شباط
8.41	23.32	اذار
15.35	33.2	نيسان
22.09	40.54	ايار
24.3	42.57	حزيران
26.2	45.16	تموز
27.4	48.21	اب
20.1	38.20	ايلول
16.4	28.23	تشرين الاول
7.22	23.14	تشرين الثاني
1.63	15.18	كانون الاول

المصدر : وزارة الموارد المائية /المديرية العامة لإدارة الموارد المائية / مركز الدراسات البيئية / محطة أبحاث الرائد

ملحق 2. معدل الرطوبة النسبية % خلال فترات التطعيم 2009.

الرطوبة النسبية	الشهر
54.7	كانون الثاني
47.10	شباط
44.30	اذار
34.30	نيسان
23.70	ايار
27.20	حزيران
24.60	تموز
26.00	اب
50.10	ايلول
61.30	تشرين الاول
66.50	تشرين الثاني
62.00	كانون الاول

المصدر : وزارة الموارد المائية /المديرية العامة لإدارة الموارد المائية / مركز الدراسات البيئية / محطة أبحاث الرائد

EFFECT OF BUDDING DATE, ROOTSTOCK, AND SCION CULTIVAR AND BUDTAKE PERCENTAGE AND VEGETATIVE GROWTH CHARACTERISTICS OF PEAR (*Pyrus communis L.*)

Najem Abood Jassem

***Dept. of Horticulture - College of Agriculture - Univ. of Baghdad.**

ABSTRACT

An experiment was conducted in private nursery in Al Gra'aet location, Baghdad- Iraq, during 2009-2010 season to investigate the effect of budding date 15/8 , 30/8 and 15/9/2009 , rootstock *Pyrus calleryana* and *Cydonia oblonga* and two pear cultivar (Al-Zoforania and Al-Osmani) on budtake percentage and seedling , vegetative growth characteristics .

Results showed that budding at 15th august give the highest percentage of budtake (88.25) compared with other dates. Budding both pear cultivar on *Pyrus calleryana* rootstock give significantly the higher percentage of budtake, Shoot length and diameter compared with *Cydonia oblonga* where budding the two pear cultivars on *Cydonia oblonga* rootstock increased shoot number, leaf area per plant and carbohydrates percentage in shoots. scion cultivar had also significant effects on vegetative growths characteristics of seedling.