

*			
Alaaaltaee40@yahoo.com.			
-			
-			
-			
-			
*			
/			
(Humi max)		(Vit org)	
		<i>Yucca aloifolia L.</i>	
/ 2		/ 1	
3.00		17.87	
/ 2		/ 2	
8.99		2987.96	
%		%	
4.79	4.54	8.11	70.0

Yucca aloifolia L . (Liliaceae)

(1992) 40 (1996) 5 (1998)

Chase 20 (1985) Coombs 60 (1998)

Organic) (fertilizers)

(2008) Eman)

(2010)

(2000 Evans Hartwigsen)

(2005 Anonymous)

(2004 Chen)

(2000) . (2011 Fawy Khaled)

Dracaena fragrans
(N % 21)
14.51 (P₂O₅ % 45)
/ P 0.75+ N 1.5 0.302 11.17

Ficus benjamina
30 / 8 4 2 1 (2004) Attia . 25

126.8 46.4
(2006) . % 0.947 % 3.140 0.40
/ N 1 20

11.22 56.27

% 91.25

% 14.40 84.61
(2010) El-Khateeb .
40 / 5 (Hemogreen) *Chamaedora elegans*
52.67 76.33
40 / 5 (Phosphorene)
11.67 16.40

(2010) El-Sayed El-Tayeb . 7.67 12.62
(Nitrobien) (Biogien) (Rhizobacterien) :
/ (Amstel Queen cv.) (*F. binnendykii*)
20

() /
(/)

6

/

Yucca aloifolia 2012 2011 /
30 L.
20 -15 1 : 2 :

1.50 -1.00 6 -5 20 -15
 4 - 3 2
 24 1
) 1 (2
 / -1 :
 : 4 : -2 . 8
 : -3 . 8 4
 (Verniar)
 : -4 . 8 4
) (1990) Saieed
 : -5 . 8 4 ()
 -Sanz) USA Minolta 502 (Soil-Plant Analysis) SPAD
 -6 . (2005 Sotiropoulos 2002 Perez
 8 4 :
 Johnson
 (1965 Black) Micro Kjeldahl (1959) Ullrich
 Photometer (1970 Matt) Spectro photometer
 . (1954 Richard) Flame
 RCBD
) 81 3
 . (1990) 0.05 (1996 SAS

. 1

60.18	1- .	sand
22.40	1- .	salt
17.42	1- .	clay
7.11		Ph
0.13	1- .	EC
1.30	1- .	
22	1- .	Caco ₃
21	1- .	NO ₃
8	1- .	P
3.1	1- .	K

% 22	+
%12	
% 80	
% 10	(N)
% 3	(K ₂ O)

Nutrigreen

% 8	(N)
% 8	(N)
%23.5	
%39.4	
%50	19

Humi-max

% 3	(N)
% 6	(K ₂ O)
%12	(C)
% 24	

Vit- org

-1

:

2

4

7.03 8 5.17

2

5.17 2 4

8

6.91 / 2

2

4 6.21 / 2

/ 2

8.99 8

() . 2

8 4

4				
	/			
	2	1		
3.74	4.44	3.98	2.81	
4.14	4.88	4.22	3.33	
5.17	6.21	5.43	3.88	
	5.17	4.54	3.34	
8				
	/			
	2	1		
4.37	5.77	4.11	3.23	
5.02	5.98	5.33	3.77	
7.03	8.99	7.69	4.41	
	6.91	5.71	3.80	

. 0.05

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Porphyrine

DNA RNA

Metton 1989)

(2005 Havlin 2003 Singh 1991 Dufault

NPK

. (2003 2001)

-2

:

3

8 4

12.91 9.99

2

(10.86) 4

(15.57) 8

3

2

8 4 17.87 12.45

. 3

8 4

4				
	/			
	2	1		
7.76	9.37	8.66	4.35	
8.55	10.76	8.34	6.56	
9.99	12.45	10.56	6.98	
	10.86	9.18	5.96	
8				
	/			
	2	1		
10.50	13.87	10.76	6.87	
11.56	14.99	10.94	8.76	
12.91	17.87	12.23	8.65	
	15.57	11.31	8.09	

. 0.05

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(1991) Dufault Metton (1978) Abdul

:

-3

8 4

4 1.14

8 4

8 2.03

/ 2

4 2.77 1.69
 4 / 2
 3.00 8 1.99
 (1982)

. 4
 8 4

4				
	/			
	2	1		
0.83	1.44	0.75	0.32	
0.95	1.64	0.85	0.37	
1.14	1.99	1.00	0.45	
	1.69	0.86	0.38	
8				
	/			
	2	1		
1.63	2.56	1.43	0.91	
1.84	2.76	1.76	1.00	
2.03	3.00	2.00	1.10	
	2.77	1.73	1.00	

. 0.05

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-4

8 4

:
 5

4² 2211.79

5

8² 2471.22

/ 2

8 4

² 2419.85 ² 2171.38

8 4

/ 2

² 2987.96 ² 2675.88

(1982)

)

(

(RNA DNA)

)

IAA

(5

IAA

2

. 5

8 4

4 (2)				
	/			
	2	1		
1447.25	1871.95	1349.74	1120.06	
1714.71	1966.33	1870.04	1307.78	
2211.79	2675.88	2188.75	1770.75	
	2171.38	1802.84	1399.53	
8 (2)				
	/			
	2	1		
1690.39	2071.35	1659.72	1340.11	
1948.97	2200.26	2100.34	1546.33	
2471.22	2987.96	2434.85	1990.87	
	2419.85	2064.97	1625.77	

. 0.05

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: - 5

6

8 4

. % 60.00 % 51.00

8 4

% 65.66 52.33 / 2

/ 2

8 4

% 70.0 55.0

. 6

8 4

4 %			
	/		
	2	1	
42.66	50	45	33
45.66	52	45	40
51.00	55	53	45
	52.33	47.66	39.33
8 %			
	/		
	2	1	
51.33	60	54	40
55.66	67	56	44
60.00	70	60	50
	65.66	56.66	44.66

. 0.05

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(6)

Havlin

(Porphyrine)

(2006) Hopkins (2005)

(IAA)

. (2003 Singh)

: -6

7

8 4 % 6.84 % 6.05

/ 2

7

8 7.54

4 6.53

8 4 % 8.11 % 6.97

2

. 7
8 4

4 %			
	/		
	2	1	
4.91	6.08	4.55	4.11
5.54	6.54	5.76	4.34
6.05	6.97	5.98	5.22
	6.53	5.43	4.55
8 %			
	/		
	2	1	
5.53	6.87	5.17	4.55
6.34	7.64	6.51	4.89
6.84	8.11	6.65	5.76
	7.54	6.11	5.06

. 0.05

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(7)

ATP

. (2002 Dong)

-7

8

% 2.90

8 % 3.24 4

% 3.86 4 % 3.25

8

4 % 3.77 / 2

% 4.54

8

. % 1.89

. 8
8 4

4 %				
	/			
	2	1		
2.31	2.98	2.31	1.64	
2.33	3.00	2.13	1.87	
2.90	3.77	2.97	1.98	
	3.25	2.47	1.83	
8 %				
	/			
	2	1		
2.59	3.33	2.55	1.89	
2.77	3.73	2.71	1.88	
3.24	4.54	3.22	1.98	
	3.86	2.82	1.91	

. 0.05

*

(8)

. (2003)

: -8
9

. % 3.71 8 4 % 3.20

2

4 % 3.47

. 8 % 4.03

8 % 4.79 4 % 3.88 2

)

. (2006 Muhammad Yusef

9

8 4

4 (%)				
	/			
	2	1		
2.64	3.00	2.61	2.32	
2.92	3.54	2.87	2.35	
3.20	3.88	3.32	2.42	
	3.47	2.93	2.36	
8 (%)				
	/			
	2	1		
2.94	3.44	2.98	2.40	
3.14	3.87	3.00	2.57	
3.71	4.79	3.69	2.65	
	4.03	3.22	2.54	

0.05

*

2010

31-15 : (1) (26)

2006

P N

187-181 : (2) 6

Sima -

-

1982

Romtage

1992

1989

2000

Dracaena fragrans

2003

1990

1982

2001

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RESPONSE YUCCA PLANT TO ADDITION OF SOME ORGANIC FERTILIZERS .

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ABSTRACT

This study was carried out in Plastic house , Horticulture and landscape Design Dept , College of Agriculture and Forestry , Mosul University, to study the effect of three organic fertilizers (Nutrigreen , Vit org , Humi max) on the vegetative growth and chemical content of *Yucca aloifolia* L. plants . Three concentration of fertilizer used (zero , 1 , 2 ml per pot diameter 30 cm) added to the soil . The results refers that the organic fertilizer Humi max was the best than other fertilizers especially on the concentration 2 ml / l on all studies parameters which the total increase on height of stem 8.99 cm , while the total increase on leaves number 17.87 in the end study . The stems diameters of plants were 3.00 cm while the leaves area was 2987.96 cm² in the end of the study . The concentrations percentage reached to 70 % for Chlorophyll and 8.11 % for phosphorus and 4.79 % for nitrogen and 4.54 for potassium in the end of the study .

Key words : Organic fertilization , humimax , yucca fertilization , Nutrigreen , Vit org .