
2011/5/22 2012/1/22

:

-1

-2

-3

-4

-5

:

2010 %34.7) %30
 (2006 %45.6
 %98
 (2010 %98.3)
 2010 %66
 .(2010) 2008 %78.8

:

-3.2 -

-4.2

-5.2

(6)

(36)

(02) (%39.13)

(92)

(1996)

-1

-2

-3

-4

-1

-2

-1.2

-2.2

(2004)

(Singhal et al., 2004)

:

(2008)

(Ozcan, 2009)

" : (Ehie & Smith, 1994)

:" : (954)

(CQI)

(TQM)

(Supply chain management)

(Re-

engineering)

25

" : (Kao, Lee & Chen, 1997)

(Optimisation)

(Heuristics)

(2000)

:

10

(Ittmann, 2009) 30

(Render .

et al., 2012)

" : (Chen & Wei, 2002)
(2000)

(%76.7)

" : (1998)

(150)

(%32.2)

" : (1991)

(250)

(%54)

(%30)

" : (2006)

(21)

19) (%90.8)

(21

" : (1996)

"

26

(3.68) : :
(0.88) (3.38)
(.096) (3.59) (3.38) (1.41)
(1.54)
(1.56) (3.38)
(1.46) (3.26)
(3.15)
(3.09) (1.62)
(.164)

(07) : (05)
(3.11)

) (1991)
(.2006)

(0.75) (3.44) :
(3.41) :
(.096)

(08) :
(3.50)

(06)
(3.16)

(4.18) :

(1996)

(13)

$(\alpha \leq 0.05)$)

.0.05

)

(1996

-1

(16)

-2

-3

(.0.05)

(12)

-4

$(\alpha \leq 0.05)$)

-5

$(\alpha \leq 0.05)$)

-6

-2

:

-7

-3

:

-8

-4

-9

-5

-10

-6

-11

-12

-13

:

-7

:

-1

:(1)

%			
%94.12	32		
%5.88	2		
%02.94	1	35 - 31	
%32.35	11	45 -41	
%64.71	22	46	
%00.00	00		
%14.71	5		
%79.41	27		
%05.88	2		
%02.94	1	5	
%05.88	2	10-6	
%08.82	3	15-11	
%82.35	28	16	
%02.94	1		
%05.88	2		
%11.77	4		
%67.65	23		
%08.82	3		
%02.94	1		

:(2)

%05.88	2	
%08.82	3	
%70.59	24	
%14.71	5	
%00	00	
%100	34	

:(3)

%28.89	13	
%22.22	10	
%20.00	9	
%28.89	13	
%100	45	

:(4)

	1.35	2.35	01
	1.04	2.32	02
	1.15	2.06	03
	1.18	2.21	04
	1.39	3.06	05
	0.92	1.76	06
	1.41	2.68	07
	1.27	3.03	08
	1.33	2.24	09
	1.42	2.50	10
	0.73	1.32	11
	0.70	1.38	12
	1.28	1.85	13
	0.86	1.50	14
	1.46	3.26	15
	1.31	2.23	

:(05

	1.41	3.38		01
	1.56	3.38		02
	1.46	3.26		03
	1.27	2.12		04
	1.50	2.50		05
	1.52	2.53		06
	1.59	2.71		07
	1.62	3.15		08
	1.54	3.38		09
	1.48	2.41		10
	1.60	2.76		11
	1.64	3.09		12
	1.56	2.89		

:(6)

	1.23	3.38		01
	1.40	2.26		03
	0.88	3.68		06
	1.09	3.29		07
	0.96	2.74		08
	1.08	3.59		20
	1.21	3.16		

:(7)

	1.16	3.24		05
	1.09	3.03		09
	1.13	2.62		11
	1.08	2.74		12
	1.12	3.12		14
	0.90	3.18		24
	0.96	3.41		25
	0.75	3.44		27
	1.10	3.24		30
	1.06	3.11		

:(8)

	1.07	1.68		02
	1.27	3.03		04
	1.10	4.00		10
	1.11	3.09		13
	1.14	4.09		15
	1.27	3.32		16
	0.92	4.00		17
	0.99	3.85		19
	0.94	4.18		22
	0.99	3.76		23
	1.29	3.50		

:(9)

	1.19	3.44		21
	0.86	3.53		26
	1.26	3.15		28
	1.12	3.37		

:(10)

	U			
0.200	13.50	18.08	32	

:(11)

		χ^2				
0.181	2	3.416	27	01	35	31
			13.36	11	45	41
			19.14	22		46
0.574	2	1.110	14.10	05		
			17.76	27		
			22.50	02		
0.137	3	5.521	29.00	01		5
			21.50	02	10	6
			6.33	03	15	11
			18.00	28		16
0.338	5	5.685	26.00	02		
			19.25	04		
			16.65	23		
			17.50	03		
			1.50	01		
			29.00	01		

:(12)

	F	B	R²	
0.055	3.965	0.354-	0.110	
0.181	1.870	0.280	0.055	
0.049	*4.195	0.458-	0.116	
0.977	0.001	0.0004-	0.000	

($\alpha \leq 0.05$)

*

:(13)

	F	B	R²	
0.033	*3.049	0.346-	0.296	
		0.479		
		0.372-		
		0.02		

($\alpha \leq 0.05$)

*

1996 1998
 :
 .33-9 4 11
 2006 .586-557 3 38
 2006
 .110 -85 104 28 :
 1993 2007
 : :
 : 2004 :
 : 2010
 : 2004 :
 : 2008
 : 2000 :

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Current Status of Using Quantitative Methods in Decision Making: An Empirical Study in Hydrocarbons Pole of Skikda

Ahsan Tayyar

ABSTRACT

The main objective of this study was to explore the current status of using Quantitative Methods (QM) by managers in the firms located in hydrocarbons pole of Skikda in Algeria. The study presents some results regarding the use of QM. It was found that the degree of knowledge of QM is moderate, and the main source of this knowledge is the academic studies and the practice. Results also indicated that the degree of use QM is weak and most common QM are: forecast models, statistical analysis and inventory models. The most common application areas are: resources allocation, investment evaluation, the forecasting demand and inventory management. The main barriers encountered are: lack of training programs, no existence of a special QM department, lack or no existence of QM professionals and lack or no existence of data required to use QM. The study recommended that more attention is directed towards training and teaching in QM. Increasing the number of QM professionals, creating QM departments and to provide an integrated information system.

KEYWORDS: Decision making, Quantitative Methods, Operations Research, Management Science, Models.

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