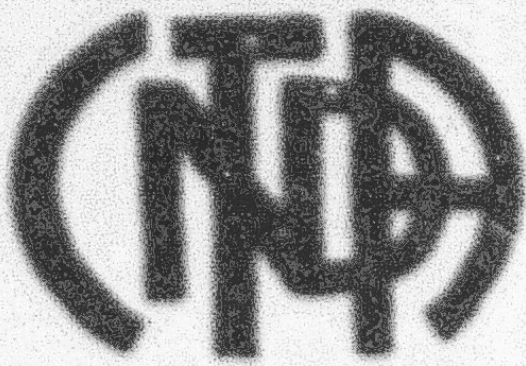




00310

MICROFICHE M

الجمهورية التونسية

MINISTÈRE DE L'AGRICULTURE

CENTRE NATIONAL DE

DOCUMENTATION AGRICOLE

TUNIS

الجمهورية التونسية
وزارة الزراعة

المركز القومي
للتوثيق الفلاحي
تونس

F

1

Final

PROCEEDINGS

THIRD REGIONAL WHEAT WORKSHOP

- Durum Wheat Improvement
- Weed Control
- Crop Rotation with Annual Forage Legumes
- Seed

Tunis, Tunisia

APRIL 28 - MAY 2, 1973

CONTENTS

Part I. General Principles

Page	Page	Page	Page
1	Introduction		1
2	General Principles	1. The Principles of	2

Part II. The Principles of the

3	Principles of the	2. The Principles of	3
4	Principles of the	3. The Principles of	4
5	Principles of the	4. The Principles of	5
6	Principles of the	5. The Principles of	6
7	Principles of the	6. The Principles of	7
8	Principles of the	7. The Principles of	8
9	Principles of the	8. The Principles of	9
10	Principles of the	9. The Principles of	10
11	Principles of the	10. The Principles of	11
12	Principles of the	11. The Principles of	12
13	Principles of the	12. The Principles of	13
14	Principles of the	13. The Principles of	14
15	Principles of the	14. The Principles of	15
16	Principles of the	15. The Principles of	16
17	Principles of the	16. The Principles of	17
18	Principles of the	17. The Principles of	18
19	Principles of the	18. The Principles of	19
20	Principles of the	19. The Principles of	20
21	Principles of the	20. The Principles of	21
22	Principles of the	21. The Principles of	22
23	Principles of the	22. The Principles of	23
24	Principles of the	23. The Principles of	24
25	Principles of the	24. The Principles of	25
26	Principles of the	25. The Principles of	26
27	Principles of the	26. The Principles of	27
28	Principles of the	27. The Principles of	28
29	Principles of the	28. The Principles of	29
30	Principles of the	29. The Principles of	30
31	Principles of the	30. The Principles of	31
32	Principles of the	31. The Principles of	32
33	Principles of the	32. The Principles of	33
34	Principles of the	33. The Principles of	34
35	Principles of the	34. The Principles of	35
36	Principles of the	35. The Principles of	36
37	Principles of the	36. The Principles of	37
38	Principles of the	37. The Principles of	38
39	Principles of the	38. The Principles of	39
40	Principles of the	39. The Principles of	40
41	Principles of the	40. The Principles of	41
42	Principles of the	41. The Principles of	42
43	Principles of the	42. The Principles of	43
44	Principles of the	43. The Principles of	44
45	Principles of the	44. The Principles of	45
46	Principles of the	45. The Principles of	46
47	Principles of the	46. The Principles of	47
48	Principles of the	47. The Principles of	48
49	Principles of the	48. The Principles of	49
50	Principles of the	49. The Principles of	50
51	Principles of the	50. The Principles of	51
52	Principles of the	51. The Principles of	52
53	Principles of the	52. The Principles of	53
54	Principles of the	53. The Principles of	54
55	Principles of the	54. The Principles of	55
56	Principles of the	55. The Principles of	56
57	Principles of the	56. The Principles of	57
58	Principles of the	57. The Principles of	58
59	Principles of the	58. The Principles of	59
60	Principles of the	59. The Principles of	60
61	Principles of the	60. The Principles of	61
62	Principles of the	61. The Principles of	62
63	Principles of the	62. The Principles of	63
64	Principles of the	63. The Principles of	64
65	Principles of the	64. The Principles of	65
66	Principles of the	65. The Principles of	66
67	Principles of the	66. The Principles of	67
68	Principles of the	67. The Principles of	68
69	Principles of the	68. The Principles of	69
70	Principles of the	69. The Principles of	70
71	Principles of the	70. The Principles of	71
72	Principles of the	71. The Principles of	72
73	Principles of the	72. The Principles of	73
74	Principles of the	73. The Principles of	74
75	Principles of the	74. The Principles of	75
76	Principles of the	75. The Principles of	76
77	Principles of the	76. The Principles of	77
78	Principles of the	77. The Principles of	78
79	Principles of the	78. The Principles of	79
80	Principles of the	79. The Principles of	80
81	Principles of the	80. The Principles of	81
82	Principles of the	81. The Principles of	82
83	Principles of the	82. The Principles of	83
84	Principles of the	83. The Principles of	84
85	Principles of the	84. The Principles of	85
86	Principles of the	85. The Principles of	86
87	Principles of the	86. The Principles of	87
88	Principles of the	87. The Principles of	88
89	Principles of the	88. The Principles of	89
90	Principles of the	89. The Principles of	90
91	Principles of the	90. The Principles of	91
92	Principles of the	91. The Principles of	92
93	Principles of the	92. The Principles of	93
94	Principles of the	93. The Principles of	94
95	Principles of the	94. The Principles of	95
96	Principles of the	95. The Principles of	96
97	Principles of the	96. The Principles of	97
98	Principles of the	97. The Principles of	98
99	Principles of the	98. The Principles of	99
100	Principles of the	99. The Principles of	100

Part III. The Principles of the

101	Principles of the	100. The Principles of	101
102	Principles of the	101. The Principles of	102

Part 1. General

Part 1. General

101

102

103

104

105

The first section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The second section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The third section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The fourth section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The fifth section of the document is devoted to a general introduction of the subject matter and the scope of the work.

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

Part 2. General

121

The first section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The second section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The third section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The fourth section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The fifth section of the document is devoted to a general introduction of the subject matter and the scope of the work.

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

Part 3. General

151

The first section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The second section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The third section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The fourth section of the document is devoted to a general introduction of the subject matter and the scope of the work.

The fifth section of the document is devoted to a general introduction of the subject matter and the scope of the work.

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

[illegible]

THE TUNISIAN EXPERIENCE WITH THE ROTATION OF CEREALS AND ANNUAL FORAGE LEGUMES

M. L. Mounilak

NOTE: This paper is represented only by summaries in French and in English.

On the basis of the assumption that the Australian system of rotation of wheat with annual forage legumes can be adapted in Tunisia due to the similarity in the climatic conditions of Tunisia and South Australia and the need to improve cereal and livestock production techniques, Tunisian experiments in this field were commenced at the beginning of the 1971-72 crop season.

It seemed wise to adopt this hypothesis because if it were necessary to prove it, a considerable time would elapse before it would be possible to initiate the program and especially since the area concerned is the area in which the rainfall varies from 350-500 mm where the present practice of fallow is favorable neither for the cereal crop nor for husbandry.

Therefore, in order to assure rapid adoption it was first necessary to find the answers to certain questions concerning the behavior and potential of the introduced varieties of medicago, their phosphate requirements, their ability to regenerate and the quantity of organic nitrogen which is sufficient to allow the suspension of nitrogen fertilizer applications.

For this purpose a series of experiments (rotation, varieties, fertilization) and demonstrations of the system has been established at a number of sites in the area concerned. The enthusiasm on the part of farmers generated by the novelty of the system and the extension efforts based on the early results obtained in the experiments and demonstrations have made it possible, already in the second year of the program, to begin substituting medicago in the place of the fallow on an area covering 500 ha.

Through the high quality and sustained support given to the farmers by well-trained technicians, it was possible to expand the 500 ha to 1000 ha in 1973-74 and 3000 ha for this season.

It goes without saying that the successful establishment of the seedlings is largely dependent on proper seed-bed preparation and seeding.

Thus, the expansion of the system, although on only a modest scale up to the present, makes it possible to simultaneously evaluate the experimental results, instruct the farmers, provide further experience for the technicians, define research questions and prepare the development of other aspects such as the commercial aspects for the production of seed.

Nevertheless, the early results cannot be considered to be conclusive. They do however show a positive trend in that the system has led to a good volume of storage material and an increase in the productivity of the wheat.

There remain other problems to solve concerning the management of the crop.

The evaluation and possibly the improvement of the local cultivars since the varieties thus far chosen are not adapted over the entire zone concerned.

Management techniques.

Crop frequency once the desired level of fertility is attained.

Original French

1948 2 22-24-25-26-27

Il est à remarquer que le système australien d'assèchement des végétaux par le feu peut être adapté en Tunisie en raison de la similitude des conditions climatiques Tunisiennes à celles de l'Australie. On se propose de se pencher à l'avenir sur les techniques de production de charbon et de bois de chauffage, l'expérience tunisienne dans ce domaine a été menée en 1961 et la campagne suivante 1971-72.

Il est intéressant de vérifier cette hypothèse car s'il fallait le démontrer, on pourrait envisager de modifier le profil de démarrage le plus favorable en fonction de la hauteur de la machine à une zone plus étroite de 350 à 500 mm.

Il est donc essentiel d'appliquer, à l'égard d'abord
l'ensemble des données à caractère quantitatif relatives au comportement et aux
habitudes des différents intervenants de l'élevage, à leurs exigences en
matière d'hygiène, à leur besoin de régénération et à la quantité suffisante
d'air respirable pour assurer la respiration des apports d'engrais azotés.

A ce sujet une série d'expériences (rotation, variétés, fertilisants) et de démonstrations du système a été installée dans différents sites de la zone ciblée. L'enthousiasme des agriculteurs créé par la nouveauté du système et l'effort de vulgarisation à partir des premiers résultats obtenus dans les années 90 les démonstrations ont permis dès la deuxième année d'augmenter la couverture de la jachère par le maïs sur une superficie de 100 ha.

L'exploitation particulière et continue de ces 500 ha par un personnel spécialement entraîné a pu étendre cette superficie à 1000 ha en 73-74 et 3000 ha pour la superficie totale.

Il ne faut être que la réussite de l'installation de la médecine
pour le bon usage à la bonne préparation du fil de semailles et à l'exécution
de celle-ci.

Ainsi, l'extension du système, quoique modeste jusqu'ici, permet simultanément d'apprécier les résultats obtenus au niveau de l'expérimentation, de sensibiliser les agriculteurs, de renforcer l'expérience des techniciens, de poser des questions à la recherche, et de préparer le développement d'autres aspects tels que commerciaux pour la production de semences.

Toutefois, les premiers résultats ne permettent guère de se prononcer mais dévoilent une tendance positive caractérisée par une production d'abord et de manière importante et une amélioration de la productivité du blé.

Il restera cependant d'autres problèmes à résoudre touchant à l'expansion de la culture.

- L'évaluation et l'amélioration éventuelle des cultivateurs locaux par les variétés retenues ne s'adaptent pas à toute la zone intéressée.
- Aux techniques culturales.
- La fréquence des cultures une fois le niveau de fertilité atteint.

Original: Français

FIN

8

VUES