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الجم أوربية اللبنانية مُكتب وَزبيرُ الدَولة لشرُّون التنبية الإدارية مَد كن مشاريع وَدراسات الفطاع العَامَ

GOVERNMENT OF LEBANON
OFFICE OF ANIMAL PRODUCTION - BEIRUT



PLAN FOR ASSISTING THE OFFICE OF ANIMAL PRODUCTION

IN INCREASING FORAGE SUPPLY IN LEBANON

Republic of Lebanon

Office of the Minister of State for Administrative Reform

Center for Public Sector Projects and Studies

(C.P.S.P.S.)

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INTRODUCTION

One of Lebanon's most important problems in a well balanced agricultural program is how to produce with the recources available, maximum sustained yields of animal and animal products. There are just two ways of doing this:

- 1- Through improving the germ plasm of the animals.
- 2- Through improved feed and feeding.

To concentrate on the first of these and neglect the second would be an extremely serious mistake; the two must go hand in hand. However, improvement in the forage supply must be accomplished first.

In connection with the second way concerning the improvement of feed supply, the Office of Animal Production is now carrying out forage experiments on irrigated and dry lands to find out the suitable forage crops which suit the climatic conditions prevailing in these areas. The scope of these experiments and available results can be summarized in the followings:

1- Experiments on irrigated lands:

Available results indicate the success of growing mixed pastures of Tetraploid Italian Ryegrass(Lolium multiflorum) in combination with Red Clover(Trifolium pratense). These pastures are highly productive and nutritive when compared with the common native forage crops.

2- Experiments on dry lands:

Seeds of 40 dryland forage species obtained from California, U.S.A. are sown in Qua area. These species belong to groups of Wheatgrasses, Bluestems, Gramagrasses, Panicgrasses and Bromegrasses. It is hoped that some of these species will be successfully adapted to the prevailing climatic conditions in this area.

PLAN FOR ASSISTING THE OFFICE OF ANIMAL PRODUCTION IN INCREASING FORAGE SUPPLY IN LEBANON

The plan can be divided into four essential scopes:

- I Increase of forage supply by intensive forage culture in 1000 hectares of agricultural lands under irrigation.
- II Conversion of 1000 hectares of drylands in Qaa to forage production.
- III- Reseeding and renovation of 1000 hectares of natural ranges.
- IV Forage preservation.

I - Increase of forage supply by intensive forage culture in 1000 ha. of agricultural lands under irrigation.

The successful mixed pasture(Tetraploid Italian Ryegrass/Red clover) resulted from the experiments carried out by the Office in Bekaa can be grown in areas near the three milk collecting centers now being established.

The cultivation of the suggested 1000 hectares with the new pasture required the followings:

		Cost in \$
Sceds Fertilizers Agric. machinery	: Seeds of Tetraploid Hyegrass and Clover : Organic manure and chemical fertilizers : 6 tractors with complete agric. equipments	30,000 60,000 36,000

II - Conversion of 1000 hectares of drylands in Qua to forage production

The suggested 1000 hectares can be cultivated with dryland forage species. This project required:

Seeds	:	30,000
Fertilizers	: Organic manures and chemical fertilizers	60,000
	: Using the equipment mentioned in (I)	•••••

III - Reseeding and renovation of 1000 hectares of natural ranges

Natural ranges of Lebanon are showing continuous deterioration as a result of overgrazing, agricultural negligence, and erosion. For the conversion of the suggested 1000 hectares to highly productive ranges, proper management by reseeding, renovation, and protection is needed. This project required the followings:

Conde							Cost	in	\$
Seeds	:				•		30.	000)
<u>Fertilizers</u>	:							,000	
Agric. machinery	:	Using	the	equipments	mentioned :	in T	•		
Fences for protec						_			
							<i>5</i> 0,	,000	

IV - Forage preservation

The excess of green forage produced from pastures and ranges after feeding animals besides areas grown mainly for preservation, can be preserved by two methods: Haymaking and grass silage process.

Haymaking : Hay can be produced by using forced heated air and this process required the following items:

Forced heated air installations	:	3 units	60,000
Transportation	:	6 big trucks	80,000

Grass silage: Silage can be produced by using simple and inexpensive silos. Dairy farmers can be helped financially to construct silos in their dairy farms.

TOTAL COST OF THE PROJECTS

	Cost in \$
Seeds	90,000
Fertilizers	210,000
Agric. Machinery	36,000
Forced heated air unit	s 60,000
Trucks	80,000
Range fences	30,000
Total	506,000

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