

Madras Agriculture.

An Expansion Scheme.

The following Press Note has been issued by the Government of Madras outlining the scheme for the expansion of the Madras Agricultural Department sanctioned by the Secretary of State:—

The Agricultural Department was reconstituted in 1905-06 and the results of the working of the reconstituted Department are fully recorded in the annual Administration Reports. Although substantial progress has been achieved in the improvement of the agricultural practices and methods in vogue in this Presidency, the advance made has been practically restricted to eight or nine of the twenty three Districts and, owing to lack of staff, the Government have reluctantly been compelled to refuse frequent requests made by non-official members in the local Legislative Council and by District or other representative Associations for the opening of more farms and for the extension of work to Districts as yet untouched. The wide-spread desire for the improvement of agricultural conditions convinced H. E. the Governor in Council that further expansion of the work of the Agricultural Department ought not to be delayed and proposals were accordingly made to the Government of India to sanction staff sufficient for the opening of new farms, the strengthening of the staff of Deputy and Assistant Directors and substantial additions to the subordinate services. These proposals for the expansion and reorganisation of the Department of Agriculture have now been sanctioned by the Secretary of State. The main features of the scheme, which will be gradually given effect to as officers and funds become available, are briefly summarised below.

2. The Presidency will be divided into seven distinct divisions each in charge of a Deputy Director of Agriculture, assisted by a staff of field and farm subordinates. The proposed divisions, the wet and dry land tracts which they will serve and the new farms contemplated are shown in a statement:—

There are at present three Deputy Directors and four more will be added to the Indian Agricultural Service.

3. The Provincial Service at present comprises three appointments, namely, two Assistant Directors of Agriculture on Rs. 250—15—400 each and a Lecturing Botanist at the Agricultural College on Rs. 330—33—660. The cadre of this service will be increased to fourteen, of whom five, including the Lecturing Botanist, will be employed in the College, eight in the Districts under the Deputy Directors and one as Personal Assistant to the Director of Agriculture. The posts other than that of the Lecturing Botanist will be on the following scales of pay:—One on Rs. 700, one on Rs. 600, one on Rs. 500 and ten posts on Rs. 200—12½—400. Three of the posts at the College will be allotted to the science sections and the incumbents of these posts will be recruited chiefly from among University graduates possessing good scientific qualifications. The other ten posts will be filled partly by promotion of men in the upper subordinate branch and partly by direct recruitment of men with sound agricultural training.

4. The subordinate service will include the following appointments:—(1) Managers in charge of farms. (2) Teaching Assistants in agriculture at the College. (3) Assistants in the science sections other than the three included in the Provincial Service. (4) Assistant Managers at the farms. (5) Itinerary Inspectors (senior and junior). (6) Field-men in the science sections.

This service will be divided into 2 grades:—(a) an Upper Subordinate branch which will again be sub-divided into (i) an agricultural side and (ii) a science side and (b) a Lower Subordinate branch.

5. The Upper Subordinates on the agricultural side will consist of Farm Managers, teachers in the College and the senior District Inspectors and number 67 as shown below:—

Number attached to District Farms	...	...	19
Number attached to the Central Farm, Coimbatore	...	...	2
Teaching Assistants at the Agricultural College	...	...	5

District Inspectors	...	...	...	...	23
One Inspector in each Division	...	...	...	...	7
One extra Inspector in three divisions (the extreme south, the West Coast and Coimbatore and the Ceded Districts)					3
Leave reserve	...	...	...	...	8
					—
					67
					—

The District agricultural staff comprises at present the following grades:—26 Assistant Farm Managers on Rs. 35—3—50; 17 Farm Managers, second grade, on Rs. 50—5—100; 6 Farm Managers first grade, on Rs. 100—10—150; 2 Teaching Assistants in Agriculture at the College one on Rs. 150—20—250 and one on Rs. 50—10—150.

This branch of the Upper Subordinate service will be open to men who have obtained the diploma of the Agricultural College at Coimbatore and the 67 posts referred to above will in future carry the following scales of pay:—42 posts on Rs. 50—5—125; 12 posts on Rs. 150; 8 posts on Rs. 175; 5 posts on Rs. 200.

6. The Assistants on the science side of the Upper Subordinate branch will be increased from fourteen to seventeen and they will be graded as follows:—10 appointments probationary for a period of two years at Rs. 75 and, after confirmation, carrying a pay of Rs. 75—5—125; 4 appointments on Rs. 150; 2 appointments on Rs. 175; 1 appointment on Rs. 200. These appointments will be ordinarily filled by graduates in science, though agricultural diplomates possessing particular aptitude for scientific work may be selected.

7. All the posts, whether agricultural or scientific, will be borne on one combined list so that the complete Upper Subordinate branch will comprise Farm Managers, Inspectors and Science Assistants. The combined cadre will stand as follows:—42 posts on Rs. 50—5—125; 10 posts on Rs. 75—5—125 (with two years' probation on Rs. 75); 16 posts on Rs. 150; 10 posts on Rs. 175; 6 posts on Rs. 200. Of these, the ten on Rs. 75—5—125 and seven on Rs. 150 or more will be reserved for the science sections. In addition to these, there are the

posts of (1) Assistant in agricultural engineering on Rs. 150—10—250 and (2) Assistant in veterinary science on Rs. 150—20—250 which will continue to be recruited as at present from the Public Works Department and the Civil Veterinary Department respectively.

8. The Lower Subordinate branch will include Assistant Farm Managers, Junior Inspectors and Field-men. The number of appointments will ultimately be 141 distributed in the following manner :—

(1)	One for each District Farm	...	...	...	19
(2)	Central Farm	...	...	...	3
(3)	For dairy and stock at the Central Farm.	...	...	...	1
(4)	One additional hand at the Hagari and Samalkota Farms	...	...	...	2
(5)	„ „ at each of two of the new farms	...	...	...	2
(6)	Three Assistant Inspectors in each district	...	...	...	69
(7)	Two extra men under each Deputy Director	...	...	...	14
(8)	Three extra men in the extreme south division	...	...	...	8
	Two extra men in the West Coast division	...	...	...
	Three in the Ceded Districts division	...	...	...
(9)	Field men	...	...	...	12
(10)	Leave reserve	...	...	...	11
					141

The incumbents of these posts will be recruited from among the holders of certificates granted at the end of the new two years' course at the College and will draw the following scales of pay :—198 appointments on Rs. 35—2½—75; 18 appointments on Rs. 80; 9 appointments on Rs. 85; 6 appointments on Rs. 90. Good men will be allowed to return to the College within five years of obtaining their certificate in order to undergo a further one and a half year's course for the diploma, on securing which they will become eligible for the Upper Subordinate branch.

9. The reorganisation scheme reviewed thus briefly will eventually be as follows :—

There will be the College and Central Farm at Coimbatore and nineteen experimental and demonstrational farms in the chief agricultural tracts of the Presidency. There will be seven Deputy Directors' divisions and each division will, as a rule, contain two main types of cultivation. There will be at least one Upper Subordinate in each District with extra hands in the more advanced tracts, and in each division there will be one spare man at the disposal of the Deputy Director for employment on special duties. At the College there will be twenty-two men in these grades or twenty-four including the engineering and veterinary assistants. The Lower Subordinate branch will help to man the farms and provide field men in the science sections. Three subordinates will be allotted to each District and there will be two reserve hands in each division who can be used by the Deputy Director to supplement the District staff where needed, with extra men in each of the three more advanced divisions.

The total extra cost involved by this scheme amounts to nearly Rs. 2½ lakhs per annum.

Some Weeds of the Central Farm, Coimbatore.

(Continued.)

Orobanchaceae.

Orobanche Nicotianæ, Wight.	Bodu (parasitic on Solanaaceous plants).	
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Pedaliaceae.

Martynia diandra, Glox. (introduced)	Puli nagam.	புலிகடம்.
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Acanthaceae.

Hygrophila spinosa, T. Anders.	Neer mulli.	நீர் மூள்ளி.
Calophanes Nagchana, Nees.		

Ruellia patula, Jacq.	Silandinayagam.	சிலந்திராயகம்.
Blepharis boerhaaviae- folia, Pers.		
Blepharis molluginifolia, Pers.		
Barleria mysorensis, Roth.	Chulli mulli.	சுள்ளிமுள்ளி.
Barleria noctiflora, L. f.		
Asystasia coromandeliana, Nees.		
Andrographis echioides, Nees.	Gopuranthangi.	கோபுரந்தாங்கி.
Justicia tranquebariensis, L. f.	Thavasu murungai chedi.	தவசுமுருங்கைச் செடி.
Justicia diffusa, Willd.		
Justicia procumbens, Linn.	Kodaga salai.	கோடகசாலை.
Rungia repens, Nees.		
Peristrophe bicalyculata, Nees.		
	Verbenaceae.	
Lippia nodiflora, Rich.	Poduthalai.	பொடுதலை.
Priva leptostachya, Juss.		
Clerodendron phlomoides, L. f.	Thalangi or Thazhudalai.	தாளாஞ்சி or தழுதாளை.
	Labiatae.	
Ocimum canum, Sims.	Nai thulasi or Kanjangorai	நாய்துளசி or கஞ்சாங்கோரை.
Ocimum gratissimum, Linn.	Ram thulasi.	ராம்துளசி.
Ocimum sanctum, Linn.	Thulasi.	துளசி.
Moschosma polystachyum, Benth.	Sanakki poondu.	சாணக்கி பூண்டு.
Anisomeles ovata, Br.	Erumuttai pinari.	எருமுட்டைபீனரி.
Leucas urticæfolia, Br.		

<i>Leucas aspera</i> , Spr.	Thumbai.	தும்பை.
Nyctagineae.		
<i>Boerhaavia repens</i> , Linn.	Mukkarattai.	முக்காரட்டை.
<i>Boerhaavia repanda</i> , Willd.	Chatti Chattaranai.	சட்டி சட்டாரணை.
<i>Boerhaavia verticillata</i> , Poir.		

Amarantaceae.

<i>Celosia argentea</i> , Linn.	Pannai keerai.	பண்ணைக்கீரை.
<i>Celosia polygonoides</i> , Retz.		
<i>Digera arvensis</i> , Forsk.	Thoyyakirai Chenchali Koora.	தொய்யக்கீரை.
<i>Amaranthus spinosus</i> Linn.	Mullu keerai.	முள்ளுக்கீரை.
<i>Amaranthus viridis</i> , Linn.	Kuppai keerai.	குப்பைக்கீரை.
<i>Amaranthus polygamus</i> , Linn.	Siru keerai.	சிறுகீரை.
<i>Pupalia atropurpurea</i> , Moq.	Adai otti.	ஆடைஒட்டி.
<i>Nothosærua brachiata</i> , Wight.		
<i>Aerua javanica</i> , Juss.	Poolai keerai.	பூளைக்கீரை.
<i>Aerua lanata</i> , Juss.	Sirukkan Poolai keerai.	சிறுக்கன் பூளைக் கீரை.
<i>Achyranthes aspera</i> , Linn.	Greenish, Nayuruvi. Pinkish, Sen- nayuruvi.	நாயுருவி. செந்நாயுருவி.

Chenopodiaceae.

<i>Chenopodium album</i> , Linn.	Chakravarthi keerai.	சக்கரவர்த்திக்கீரை.
<i>Chenopodium ambrosioides</i> , Linn.	Kattu Omum.	காட்டு ஒமம்.

Polygonaceae.

<i>Polygonum plebejum</i> , Br.		
<i>Polygonum glabrum</i> , Willd.	Aatalaree.	ஆந்தலரி.

Aristolochiaceae.

Aristolochia bracteata, Retz.	Aduthinnapalai	ஆடு தின்னாப்பாளை.
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Euphorbiaceae.

Euphorbia hypericifolia, Linn.	} Ammampacharisi.	அம்மாம்பச்சரிசி.
Euphorbia hirta, Linn.		
Euphorbia rosea, Retz.		
Euphorbia thymifolia, Burm.	} Chinna Ammam- pacharisi.	செவ்வம்மாம்பச்சரிசி.
Euphorbia serpens, Kunth.		
Euphorbia prostrata, Ait.		
Phyllanthus maderas- patensis, Linn.	Mela nelli.	மேலா நெல்லி.
Phyllanthus Niruri, Linn.	Keela nelli.	கீழானெல்லி.
Jatropha glandulifera, Roxb.	Adalay chedi.	அதனைச்செடி.
Chrozophora plicata, A. Juss.	Guruga chettoo.	
Claoxylon Mercurialis, Thw.		
Acalypha indica, Linn.	Kuppai meni.	குப்பைமேனி.
Acalypha ciliata, Forsk.	Kuppai meni chakkalatti.	குப்பைமேனி சக்காளத்தி.
Tragia involucrata, Linn.	Poonai kanjan or kanjori.	பூனை காஞ்சான் or காஞ்சாறி.

Liliaceae.

Gloriosa superba, Linn.	Kalappai kizhangu or Karthikai poo.	கலப்பைக்கிழங்கு or கார்த்திகைப்பூ
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Commelinaceae.

Commelina benghalensis, Linn.	Kanangeerai.	காணங்கீரை.
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Cyanotis axillaris, Roem & Sch.	Neer pulli.*	நீர்ப்புல்வி.
Cyanotis cucullata? Kunth.	Amalai or Nayini poondu.	அமலை or நாயினிப்பூண்டு.
Arcideae.		
Colocasia Antiquorum, Schott.	Kattu sembu.	காட்டு சேம்பு.
Lemnaceae.		
Lemna.	Duckweed.	
Cyperaceae.		
Cyperus difformis, Linn.	Bulb grass.	
Cyperus bulbosus, Vahl.	Korai kizhangu.	கோரைக்கிழங்கு.
Cyperus rotundus, Linn.	Indian nut grass.	
Eleocharis atropurpurea, Kunth.		
Fimbristylis dichotoma, Vahl.		
Fimbristylis miliacea, Vahl.		
Gramineae.		
Paspalum sanguinale, Lamk.	Nanabala gaddi.	
Eriochloa polystachya, H. B & K.		
Panicum Isachne, Roth.		
✓ Panicum flavidum, Retz.		
✓ Panicum Crus-galli, Linn.		
✓ Panicum colonum, Linn.	Karumpul. Otha Gaddi.	கரும்புல்.
✓ Panicum prostratum, Lamk.	Gattu chippera.	
✓ Panicum javanicum, Poir.		

- ✓ *Panicum repens*, Linn. Ginger-rooted grass.
Setaria intermedia, Roem.
- ✓ *Pennisetum Alopecuros*, Steud.
- ✓ *Pennisetum cenchroides*, Rich. Kozhukkattai pul. கொழுக்கட்டைப்புல்
- ✓ *Tragus racemosus*, Scop. Kadai Pul. காடைப்புல்.
 ✓ *Perotis latifolia*, Ait. Nari val pul. நரி வால் புல்.
 Imperata arundinacea, Cyrill. Nakka thoka gaddi.
- ✓ *Ischæmum ciliare*, Retz.
- ✓ *Apluda varia*, Hack. Pedda pedara.
- ✓ *Rottboellia exaltata*, L. f.
Andropogon foveolatus, Del.
- ✓ *Andropogon pumilus*, Roxb.
- ✓ *Andropogon pertusus*, Willd. Sevvarugu. செவ்வருகு.
 Karapees.
- Andropogon caricosus*, Linn.
- ✓ *Andropogon annulatus*, Forsk. Molava gaddi.
- ✓ *Iseilema laxum*, Hack. Chengali gaddi.
- ✓ *Aristida Adscensionis*, Linn. Siru thudappam pul. சிறு துடப்பம்புல்.
- ✓ *Aristida Hystrix*, Linn. Ooba gaddi.
- ✓ *Sporobolus coromandelianus*, Kunth.
- ✓ *Cynodon dactylon*, Pers. Arugam pul. அருகம்புல்.
 Garika.
- ✓ *Chloris barbata*, Sw. Mayl kondai pul. மயில் கொண்டைப்புல்.
 Uppu gaddi.
- Chloris montana*, Roxb.
Eleusine brevifolia, Br.

- ✓ Eleusine ægyptiaca, Desf. Mattangai Pul. மத்தங்காய்ப்புல்.
Kaval gaddi.
- ✓ Dinebra arabica, Jacq.
Eragrostis tenella, Roem
var plumosa.
Eragrostis interrupta, Beauv.
Eragrostis major, Host.
Eragrostis minor, Host.
- Marsilea quadrifoliata, Linn. Arai keerai. ஆரைக்கீரை.
Chara.

C. TADULINGAM.

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