NO 32.

32 Agricultural Industries progresses

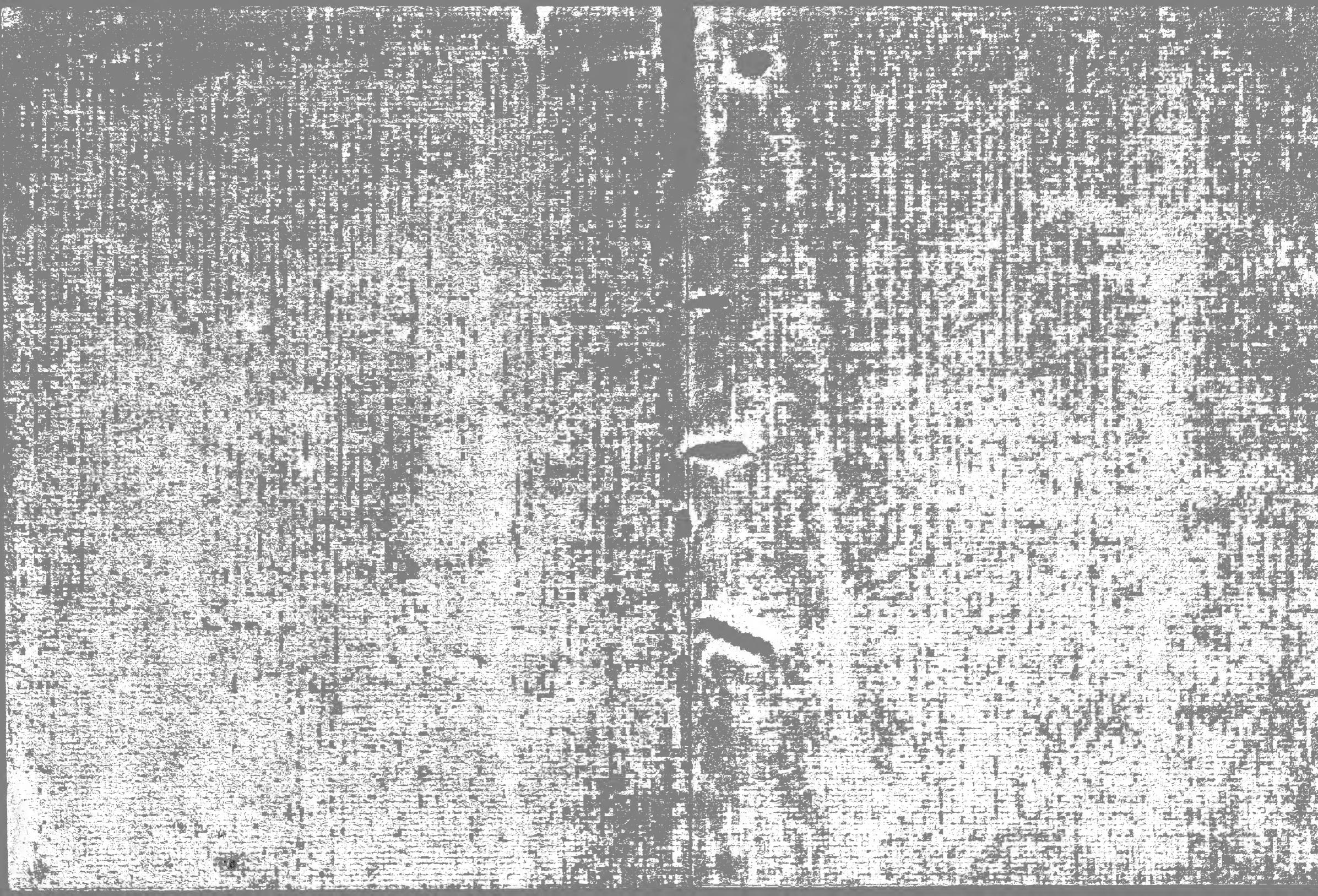
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agricultural Industries Provess







aqueathing Inductive 190: I gapine The altitution of Varia alabler trees in the soluid entennine as it was Cast year shewed and sugares of decreise, but a the contrary hine and have back was cleared. and plant, so that the area under cumunità is about 14000 acces, The direct offer of the mining pupulanting this fire in every Career eun in quite uns alable Giocotte and to call ties and a very sucal pateties has caused a se-- markable duicetton in me myye of nicefetables, frent pouling and and priss as the Chinese having alla duild the currications for ruller The frence ops during the last few Grans fine here very poor pressary The the depuy aut of the all trees and want of separating from me, and there are no signes of any unprove-- Milin "This is reactive nerstrafille facet been take from Allen ATD years to produce a com Heere has here a sille informe ment in mgeladie cultivation but supplies are still afront. Jaculin hai uccented à little dulipa aut fluid apples have also increaces alutte, grained and are afi County the lette perit and there Martulu a distant ucciane F.3.2 /3

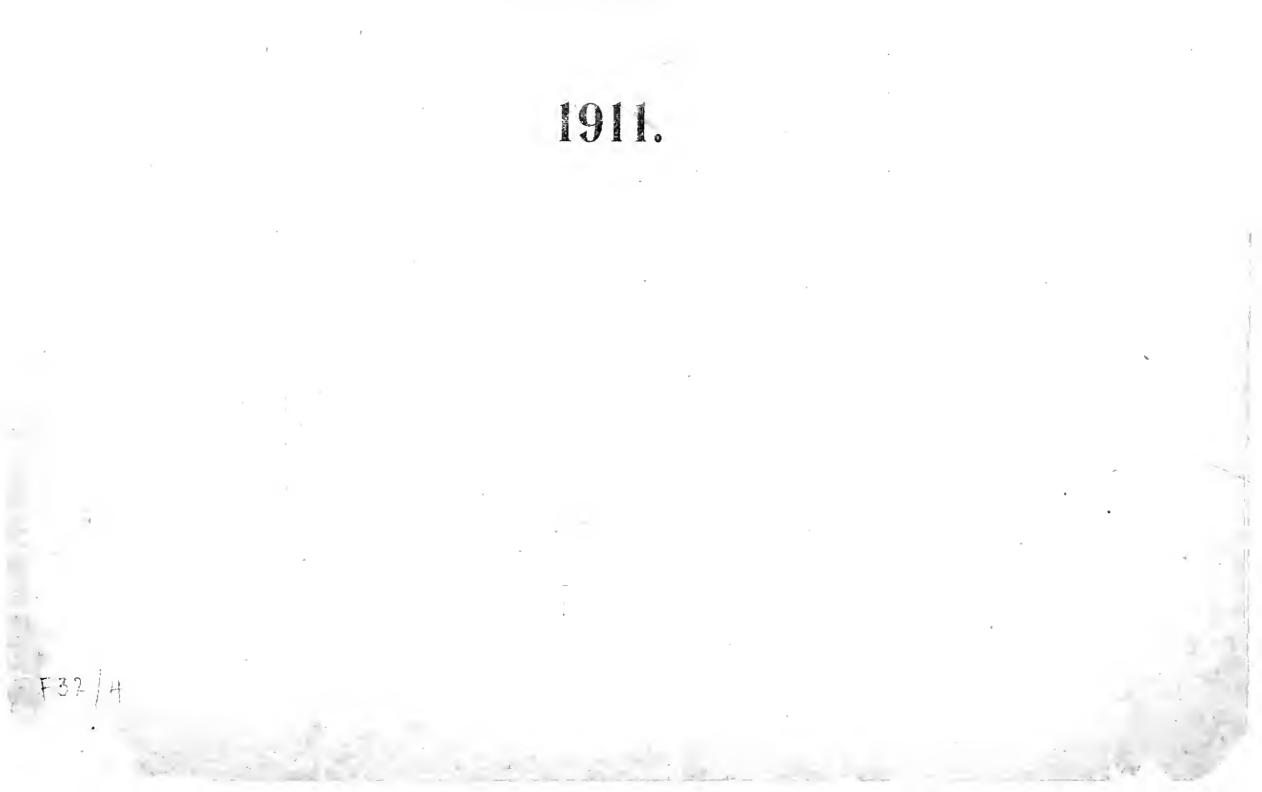
this frincity inview allotten There is a sucall means flower cultivation Roses Jamines and Tuleeromes, there in fand de The Water hundre it acaran Miguelly utroduced as an oriented plant has been frend tog the Chucke to be quete mitter on pin-pelduie and i now wuch and for that purpose There is no increan in pepper un Calouts, This in the letter case is perhaps the so the procent sectable lucing abready plainted up. The sed ucité formerly so aquerous to the industry time now tobe nearly estilt but decenter 2 min trees are killed by the black butte, It very succesful agricallicite Enclubertion were meretilizer in the



# AGRICULTURE.

# STRAITS SETTLEMENTS.

[ W 1 ]



# [ W 2 ]

. Settlement.		Estimated Acreage of Cultivated Land.	Estimated Acreage of Uncultivated Land.	Estimated Acreage of the Colony.	
	ļ				
	-				
		*			
			<i>,</i>	,	
Singapore and Islands	* * *	61,030	83,970	145,000	
		. 1			
Penang Islands			***	70,494	
Province Wellesley		652,741	8,005	660,746	
Penang (North East District)		$19,\!152$	* 10,242	29,394	Including P. Jerejak and P. Tikus,
Do. (South West District)		31,270	11,500	41,100	
Irian District		14,600	30,100	44,700	•
rans-Krian		9,800	1,000	10,800	
Dindings, Mainland	•••	9,000	94,000	103,000	
Do., Islands			5,500	,5,500	
ulau Pangkor		520	5,298	5,818	
" Jerejak …	a * *	•••	•••	( 886 )	Included in N. E. District.
"Kindi …	•••	•••	116	116	] Included in S. *
" Rimau …		20	63	83	$\int$ , District.
" Kra, North …		} 116	224	340	
" Kra, South …		5			
"Betong …	•••	• D #	8	8	Included in S. W District.
				4	
Malacca	•••	240,661	220,459	461,120	

# CULTIVATED AND UNCULTIVATED LAND.

\*Including about 65 Acres of Taban, Para and Rambong planted on Crown Land at Batu Feringgi by Government.

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# · [ W 3 ]

# AVERAGE RATES OF WAGES FOR LABOUR.

	SINGAP	ORE.	PENA	ANG.	DINDI	NGS.	MAL	ACCA.
	Per annum.	Per day.	Per annum.	Per day.	Per annum.	Per day.	Per annum.	Per da
	\$	Cents.	Ş	Cents.	\$	Cents.	· 55	Cents
PREDIAL.						P	f.	1
All field labourers and gar- deners are generally hired by the month, and some on longer agreements. If paid by day they get higher wages.	60 to 108	20 to 30	72 to 144 ; 72 to 180 (P. W.)			40 to 60		30 te 4
7								
DOMESTIC.								
Domestic servants are all en- gaged monthly.	72 to 180 and food.	4	96 to 216 and food. 60 to 216	<b></b>	144 to 192 and food.	* * *	60 to 144 and food.	25 to \$
			(P. W.)					
							47	
ESTATE COOLIES.								
Tamils—Free.		•••		(m) 40 (f) 30				
(1) Tamil on 2 years' agree- ment.	• • •			(m) 25 (f) 18	(***	(m) 45		23 to 2
(2) Chinese on 1 year's agreement.	34 to 42 and food.		New hands, \$24 to \$30 & food; old hands, \$108 to \$180 and food.		30 to 40 and food.	(f) 25 	24 to 30 and food.	
TRADES.			(P. W.) New hands. \$30 & food ; old hands, \$108 to \$180 and food.		-		•	
Carpenters and Joiners, Blacksmiths, Bricklayers.		45 to 75	Only day labour.	50 to 80 ; 30 to 1,50 (P. W.)	Only day labour.	S1 to \$1.30		60 cen to \$1.5
							41	

CROPS. Nature of Crcp, and Number of Acres of Land to each Crop. STOCK. Number of Fruit trees, Coconut, Pineapple and Gardens. Spices, Number of Acres of Un-cultivated Land. Number of Acres in Crop. Settlement. Essence Grasses, Coffee and Tea. Getah Percha, Horned Cattle. Para Rubber. Sugar-cane. Gambier. Pepper. Betel-nut. Tapioca. Pasture. Horses. Sheep. Etc. Goats. Padi. Pigs. Ouly cultivated in patches. (For Slaughter). Lemon-grass 150 acres. Indigo 200 acres. (For Slaughter). 3,615 (For Slaughter). 20,306 For Slaughter). About 150 acres. 1.000 acres. 4,00 acres. 29,370 acres. In patches. S5 acres. 1n patches. 330 acres. 97,878 61,030 acres. S3,970 acres. 29,150 acres. 120 acres. Nil, 20.228 \$26Singapore .... NII. Nutmegs and Cloves, 250 acres. Cultivated in patches for Native consumption, Nil. Imported and killed immediately. Mixed with fruits. In patches. About 150 acres. 17,603 acres. Pepper, Nil. 31 acres in patches. SS4 acres. 129 acres. renang, North-East ... 19,152 acres. 105 acres. 10,242 acres. 2,259 745 4,9.18Nil. 701• About 31,270 acres. Nutmegs and Cloves, 6,500 acres. About 11,300 acres. About 12,100 acres. In patches. About 20 acres. About 2,500 aeres About 6,000 acres. In patches. About 40 acres. 4,110 acres. about 7,000 Penang, South-West... Nil. NII. 7001,750Nil. 155 Nil. Nil.

[W4]

RETURN OF THE

Province Wellesley	Nutmegs and Cloves, 550 acres.	Pepper in patches.	35 acres of tea and coffee.	14,725 acres.	, Nil.	45,200 acres.	- 65,692 acres.	5,017 acres.	9,700 acres.	5,100 acres.	105,352 acres.	159,237 acres.	12,060 acres.		2,825	. 172	õ,548	21,755
Dindings	Nutnegs and Cloves, 1 acre.	Nil.	, Nil.	About 5,000 acres.	Nil.	About 10 acres.	About 4,000 acres.	Mixed with fruits.	Mixed with Para, rubber.	In patches only.	Nil.	About 9,000 acres.	About 104,800 <b>*</b> acres.	14	about 300	Nil.	about 100	about 2,500
Malacca	Nutmegs and Cloves, 80 acres.	11,920 acres.	20 acres.	80,424 acres.	Nil.	40,410 acres.	47,355 acres.	Mixed with fruits.	About 10,926 acres. 1/14	Only cultivated in patches.	Not ascertained.	About 206,364 acres.	About 126,353 acres,	760	17,896	71	3,255	7,500

\* Including Forest Reserves not surveyed.

PRODUCE, STOCK, Etc.

				DUCE. d Quan	tity.		6			PRICE OF Nature a				
Wheat.	Padi,	Fruit trees, Gardens.	Betel-nut.	Tapioca.	Rubber.	Sugar-cane.	Tea.	Wheat.	Padi.	Fruit trees, Gardens.	Betel-nut.	Tapioca.	Sugar-cane.	Coconuts.
Nil.	.IIN	Not ascertained.	Not ascertained.	Cultivated in patches for native consumption.	20,000 acres.	Cultivated in patches for native consumption.	Nil.	Nil.	Experimental cultivation only.	Fruit trees, \$12 (aver. rents) per acre, Garden land, \$5 in country to \$30 near town.	\$3 per pikul.	\$4.40 per pikul of 133 lbs., Flake, \$4.80 per pikul of 133 lbs., Flour.	\$2 per 100 canes.	r Nuts, \$30 per 1,000. Land, \$150 per acre.
Nil,	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained. fo	Nil.	Not ascertained. for	Nil.	Nil.	\$10 to \$13 per 100 gantangs. 13 to 16 since October.	Durian, 3 to 20 cents. Mangostin, 2 to 8 cents. Rumbutan, 5 to 50 cents per 100. Rambie, 1 to 3 cts per kati Chempedak, 4 to 12 cts. Chiku I to 3 cents. Vegerable 3 to 8 cents per kati.	$\$3\frac{1}{2} to \$4\frac{1}{2} per$	\$4 to \$8 per pikul.	\$4 to \$6 per 100 canes.	Nuts, \$35 to \$12 per 1,000. Land, from \$400 to \$900 per acre.
Nil.	120 to 700 Gantangs per acre.	Not ascertained.	15,000 pikuls.	Not ascertained.	10,054 lbs.	Not ascertained.	Nil.	Nil.	\$10 to \$19 per 100 gantangs.	Durian, 2 to 8 cents. Mangostin, 5 to 60 cents for 100. Rambutan, 4 to 10 cents for 100. Vegetables, 3 to 8 rents per Kati. Chempedak, 1 to 3 cents each.	\$2.50 to \$3.50 per pikul	\$4 per pikul.	\$2 to \$4 per 100 canes. \$4	\$35 to \$45 per 1,000. Land, from \$300 to \$700 (aver. value)
Nil.	300 to 400 Gantangs per acre.	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained.	Nil.	Nil.	\$9 to \$18 per 100 gantangs.	Durian, 5 to 16 cents. Mangostu, 4 to 12 cents per bunch of 10. Ramburan, 6 to 35 cents per 100 Vegetables, 3 to 8 cents per Kati.	\$3 to \$8 per pikul.	\$3 to \$5 per pikul.	\$2 to \$10 per 100 canes.	Nuts, \$30 to \$50 per 1,000.
Nil.	160 to 400 Gantangs per acre.	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained.	Niì.	Nil.	\$16 per 100 gantangs.	Durians, 30 cents, Mangostin, 10 to 12 cents for 10. Rambutan, 6 for 1 cent. Vegetables, 5 to 10 cents per Kati.	\$2.50 to \$3.50 per pikul.	Nil.	\$2.50 per 100 canes.	\$40 to \$50 per 1,000. Single Nuts 4 to 5
Nil.	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained.	Not ascertained.	Nil.	Nil.	Varies from \$8 to \$10 per 100 gantangs. Padi land in Country, \$50; within 4 miles of Town, \$150, per acre.	\$500 per acre for fruit plantations near Towα and coast. Less values inland and fur from roads.	\$2.50 to \$4 per pikul.	\$7 to \$9 per pikul.	\$3 to \$5 per 100 sticks in Town; \$30 per acre in Country.	Nuts, \$33 per 1,000. Land, near Town and Sea- side, from \$100 to \$500 per acre; from \$50 to \$60 in Country.

RUBBER PLANTING IN PENANG AND PROVINCE WELLESLEY :- In common with the Federated Malay States great interest

RUBBER PLANTING IN PENANG AND FROVINCE WELLESLEY:—In common with the rederated Malay States great interest is being shown in planting Rubber, chiefly the Para variety, although Rambong is planted to some slight extent. As related Cetah Taban a tree notoriously slow to mature, and therefore unsuited for private enterprise, the interest shown by Government to resteck artifically the Forest Reserves some few years ago is not so great now, owing partly to the fact that vast numbers of young seedlings have been found in the Forests Reserves of the Peninsula, thus showing that there is no fear of its extermination, which some few years ago was feared. Netwithstanding this, however, some 5,000 young trees have been planted in the Forest Reserves, which together with about 4,000 trees known to exist in a wild state, makes a total of 9,000 trees for Penang alone.

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### [ W 6 ]

# AVERAGE PRICES OF VARIOUS ARTICLES OF USE OR CONSUMPTION.

ARTICLES.		Singapore.	Penang.	Dindings. *	PROVINCE WELLESLEY.	MALACCA.	Remarks
		\$ c.	\$ c.	\$ C.	\$ c.	\$ c.	· · · · · · · · · · · · · · · · · · ·
Fish, per Kati	• • •	12 to 30 ets.	8 to 35 cts.	12 to 20 cts.	5 to $45$ ets.	18 to 30 cts.	
Wheaten Flour, per barrel 196 lbs	of ;	7 00	2.10 to 2.40 per bag.	a * 0	\$8 to \$9 (per bag of	2.20 to 2.60 (per bag.)	
Rice Flour, per chupak		0 11			196 lbs.) 15 to 22 cts.	18 to 20 ets.	
Wheat, per Imperial bus (80 lbs.)		4 00	40 to 45 ets	0 08 per Kati. }	Nil.	(per Kati.†) 0 60	
Wheaten Bread, per loaf	• • •	0 06	per gantang. ‡ 0 05	1	5 cents.	per gantang. 3 and 4 ets.	
Horned Cattle		50 to 100 00	30 to 120 00		30 to 100 00	60 to 100 00	
Horses		200 to 400 00	200 to 500 00		100 to 300 00	150 to 500 00	
Ponies		60 to 200 00	50 to 250 00	No market.	50 to 200 00	80 to 250-00	
Sheep		8 to 15 00	, 6 to 12 00		4 to 18 00	8 to 15 00	
Goats		12 to 25 00	4 to 10 00	10 to 18 00	4 to 15 00	5_to 12 00.	
Goats Swine, per 133 <sup>1</sup> / <sub>3</sub> lbs.		20 per picul.	£ to 10 00 20 to 25 00		19 to 44 00	Is to 20 00	
Milk, per quart		0 32	30 to 36 ets.		10 to 22 ets.	20 to 25 ets.	
Butter, Fresh, per lb.	6 7		60 to 80 ets.	 85 to 90 ets.	S0 c. to \$1.25		
Do., Salt. do.		75 to 80	50 to 60 ets.	1 20		60 to 80 ets.	
Cheese, do.		45 to 65 cts.	45 to 60 ets.	No market.	No market.	65 ets.	
Beef, per lb.	• • •	15 to 24 ets.	16 to 20 ets.	50 to 65 cts.	16 to 25 ets.	25 to 30 ets.	
Mutton, do.		25 to 36 ets.	28 to 32 cts.	75 to 1 00	30 to 50 cts.	50 to 60 ets.	
Por's, per Kati	•••	25 to 32 ets.	24 to 32 ets.	32 cts.	25 to 40 ets.	38 to 40 cts.	
Rice, white, per $133\frac{1}{3}$ lbs.	•••	$\begin{cases} 6 50 \\ to \\ 9 00 \end{cases}$	26 to 32 ets. § (per gantang.‡)	35 to 56 cts. (per gantang.t)	31 to 50 cts. (per gantang. <sup>‡</sup> )	$\left. \begin{array}{c} 6.00 \text{ to } 7.00 \\ \end{array} \right.$ per pikul.	
Coffee, do.		25 to 35 00 45 to 90 cts.	28 to 35 ets (per Kati.†) 50 to 65 ets.	30 cts. (per Kati.†) 60 to 75 cts.	32 to 40 ets. (per Kati. †) 25 to \$1 70 ets	$\left. \left. \left. \right\} \right.$ 40 to 45 cts. 75 to 1.25 cts.	
Fea, per lb Sugar, white, per Kati	***	0 09 ,	7 to 10 cts.	(per Kati.†) 10 to 15 cts.	8 to 12 ets.	7 to 10 cts.	
Salt, per Kati		0 02 (per Kati.†)	0 02 (per Kati,†)	0 04 (per Kati.†)	0 2 cts (per Kati.+)	0 - 02	
Wine, per dozen	• • •	$\begin{cases} 8 & 00 \\ to \\ 16 & 00 \\ (\text{plus duty.}) \end{cases}$	8 00 to 20 00 (plus duty.)	}	$\begin{cases} 9 & 00 \\ to \\ 21 & 60 \\ (\text{plus duty.}) \end{cases}$	$ \begin{cases} 8 & 00 \\ to \\ 24 & 00 \\ (plus duty.) \end{cases} $	
Brandy, do.		$\left\{egin{array}{c} 12 & 00\ . \  ext{to}\ 26 & 00\ ( ext{plus duty.}) \end{array} ight\}$	8 40 to 28 00 (plus duty.)	$ \left\{ \begin{array}{c} \text{Hennessey.} \\ \text{Beehive.} \\ (\text{including duty}) \end{array} \right. $	$ \left\{\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\left. iggreen  ight.  ight. \left. iggreen rac{12}{ ext{to}}  ext{75} \ \left. iggreen  ext{5}  ext{15}  ext{75} \  ext{(plus duty.)}  ight.  ight.$	
Beer, do	• • •	$ \left\{\begin{array}{ccc} 2 & 10 \\ to \\ 3 & 25 \end{array}\right. $	$\left\{\begin{array}{cc}2&50\\to\\4&40\end{array}\right\}$	$ \left\{ \begin{array}{c} 3 & 00 \\ \text{(including} \\ \text{duty.)} \end{array} \right. $	$\begin{cases} 2 & 00 \\ to \\ 3 & 60 \end{cases}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
l'obacco, per lb. (Native)	9 2 4	( (plus daty.) 20 to 60 cts. (per Kati.†)	) 4 40 45 to 80 ets. (per Kati,†)	) duty.) 96 cts. (per Kati. †)	( (plus duty.) 30 to 90 ets.	) (plus duty.) 30 to 50 cts.	

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\* Prices vary locally according to supply. + Kati=13lb. av. ‡ Gantang=Gallon; Chupak=Quart. § 32 to 43 per Gantang since October.



### [ W 7 ]

### AVERAGE PRICES OF VARIOUS ARTICLES OF USE OR CONSUMPTION. - Continued.

ARTICLES.		SINGAPORE.	PENANG.	Dindings.	PROVINCE Wellesley.	MALLOCA.	Remarks
		\$ <i>c</i> .	\$ c.	\$ c.	ф с.	\$ c.	
Yams, per pikul		2 to 4 cts. (per Kati.*)	2 to 3 00	1 50	2.00 to 6.00	2 to 6 cts. (per Kati.*)	
Onions (large) per Kati	5 <b>9</b> 4	7 to 10 ets.	5 to 7 ets.	12 ets.	5 to 10 cts.	7 to 10 ets. $\frac{1}{2}$	
Geese, each		1 75 to 2 00	1 25 to 1 60	2 to 3 00	1 00 to 2 50	1 50 to 2 50	
Turkeys, ,,	1	3 00 to 5 00	5 to 10 00	None.	2 to 6 00	None.	
Ducks, ", …		50 to 65 ets.	40 to 70 ets.	75 to 1 00	30 to 80 ets.	50 to 80 cts.	
Fowls, .,	• • -	35 to 70 ets.	35 to 70 ets.	60 to 1 00	25 to 80 ets.	80 to \$1_00	
Capons, "		1 50 to 2 00	$\left\{\begin{array}{cc}1&00\\to\\1&50\end{array}\right\}$	2.00 to 2.50 caeh.	1 00 to 3 00	I 50 to 2 00	
Pigeons, ,,	•••	25 to 30 ets.	20 to 30 ets.	25 to 30 ets. each.	15 to 30 ets.		
Hen's Eggs, doz.	· 	30 to 36 cts.	24 to 30 cts.	36 to 42 cts.	24 to 36 ets.	30 to 36 ets.	
Sago, per kati		4  cts.	6 to 8 ets.	•••	5 to 14 ets.	8 ets.	

### SCHEDULE OF RATES PAID FOR LABOUR IN THE STRAITS SETTLEMENTS DURING 1911.

Description.			Singapore. Per day.			Penar and Prov Welles Per d	vince ley.	Malacca. Per day.	Labuan. Per day.
3			\$ c.		\$ c.	\$ c.	\$ c.	\$ v. \$ c	\$ ε. \$ <b>c</b> .
Sub-overseers			1 00	to	3 00	1 00 - to	3 00	1 00 to 3 00	1 70 to 2 00
Artificers	• • •		60	,,	2/75	60 ,,	1 30	60 ,, 1-30	60 , 1 30
Mandors			40	>;	$2 \ 00$	40 ,,	75	40 ,, 71	40 ,, 50
Coolies	• • •	•••	25	25	50	25 "	50+	25 ,. 50	35 ,, 40
Watchmen	7 4 1		30	>7	45	30 ,,	35	30 ,, 35	30 ". 40
Surveying Coolies	4 * *		30	23	60	30 "	50†	30 ,, 50	40 ,, 50
Surveying Mandors	,		40	"	75	-40 ,,	$75^{+}_{+}$	40 ., 75	50 " 75
Gardeners		-	30	"	45	30 "	45	30 ,. 45	30 " 45
Time-keepers	· •• •	- • •	45	53	1 00	45 "	1 00§	45 1 00	

\* Kati=1<sup>1</sup>/<sub>3</sub> lb. av. Jerejak and Dindings. From 30 cents to 60 cents in Pulan Jerejak and Dindings. From 45 cents to 81.25 in Pulan Jerejak and Dindings.

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my impression is that there is a general Cendency of weakness in all cultivations excepting Rubber & corners. I have only been able to descover me increase - puncapples. The turning inducting has mereased eurmously during the last two years but I must not be overlasted that the plant is merguchere cultivated as a catcherop. Aubler seems to be interplanted with all croppe but the appet is not in indence for the moment. The rubber industry creates of Aself certain demand for fruit & thade thes but not heyond estate requirements A. 24. 1. 1.3

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F32/6

D.O.N.T. 105/13.

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32/7

264.2.1903

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District Office, Nibong Tobal,

Slat Pebruary 1913.

Sic,

I have the bonour to acknowledge your letter of 14th instant.

2. With regard to the agriculture of this Dist rict the only outstanding feature is the increase of rubber cultivation. In 1912 the acreage was 16,655 as against 9,850 in 1911.

3. Other crops have remained practically stationary as regard acreage though the padi harvest bids fair to be a record and certainly a teemendous advance on Tast year.

I have the honour to be,

sir,

Your obedient servest,

Homm

District Officer,

MLBONG TEBAL.

The Director,

Botasic Gardons,

Singspore.

S. S ..

#### A note on the Arriculture of the S.S.

Any set-back which rubber-cultivation may experience from the present reduced price of the product, is not yet uparent. New land is still being planted in all the Sottlements; and where estates have had divided interests,- whether in subber and eccenuts, or in rubber and gambier, or in rubber and tepieca, there has been a wide-spread tendency to remove the second erep. Sugar too, in the Province Welleshey has had interest situarswn from it in favour of rubber.

The cutting cut of coconuts, though generally of young trees, has in Penang and in Singapore, extended to mature trees in bearing. Nevertheless, at least in Singapore, the coconut ercp has been very good

Pincarries, widely riented in Singapore as a calch-orer under young rubber, and also planted by themselves, have fruited in abundance, so that the price of the fruit at the tinning factories fell to 50 cents per hundred.

Fruit trees in Singapore island have not yielded freely; and there is a growing tendency towards the importation of the necessary supply from a considerable distance. The consequent rise in prices seems to promise an increased interest in the planting of Thantains.

The market-price of v-getables in Singapore grows higher because suitable land for their cultivation near the town is insufficient, and supplies in parge art are drawn from remote parts of the island.

Gambier and indigo cultivation have become insignificant in Singapore island.

Returning to the subject of rubber, it may be said that the estimated yields of the estates closing their year between June and December are being ar promise to be fulfilled or Grander F30/8 in almost all cases



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# F 32/9

Minute paper No.

Sheet No.

Och. 3. 413.

AGRICULTURE AND PLANTING.

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Spelen

Turning to agriculture the principal feature of the year has of course been the very severe and unexpected fall in the price of rubber. The cultivation of rubber does not as yet appear to have suffered any serious set back. While it is true that few applications for Crown land are now being received, new land already granted is still being planted in all the Settlements, and where estates have had some other form of cultivation together with rubber, whether it is coconuts, gambier or tapioca, the tendency to remove the second crop shows few signs of diminution. Sugar also in Province Wellesley has suffered a loss of interest in favour of rubber.

The estimated yield of rubber estates closing their year between June and December is in almost all cases being fulfilled or exceeded. In Malacca the export which for 1912 totalled 5,648,266 lbs. valued at \$10,353,914 amounted in the first six months of 1913 to 4,226,933 lbs. valued at \$6,308,827. The first half of the year being the lean half the next six months should show even larger figures, the quantity being further swelled by more trees arriving at the tapping stage. The total export for this year is likely to be over 9,000,000 lbs.

With regard to other products, about 82,000 piculs of tapioca were exported from Malacca in 1912 at an average price of \$8 to \$8.25. For the first six months of the current year production and export have been on a smaller scale, about 35,000 piculs at a reduced average price of \$6.70. Ten thousand four hundred and forty piculs of gambier valued at \$115,740 left that Settlement between January 1 and June 30, 1913.

The cultivation of coconuts in the Dindings

Government appreciates the advantage of persuading the raiat to use their own handmilled padi instead of buying the polished rice in the market. Efforts are also being made to prevent or keep down the scourge of rats and other vermin by measures directed against the owners of land left uncultivated.

In Malacca persuasion was last year brought to bear upon the raiat to try to induce them to cultivate, and this year the district officers have again received instructions to exert influence in the same direction. Last year for the first time the dates for clearing and planting were fixed by mukim councils and a number of recalcitrants have now been summoned Progress, however, is but slow as the Penghulus intensely dislike taking summons against the men of their kampongs, and it seems likely that the remedy must lie in forfeiture of land not regularly cultivated. With this end in view an amendment to the Malacca Lands Ordinance is now under consideration.

Pineapples widely planted in Singapore, often as a catch crop under young rubber, have fruited in abundance so that the price of the fruit at the tinning factories fell to 50 cents per hundred.

Fruit trees in Singapore island have not yielded freely and there is a growing tenden. cy towards the importation of the necssary supply from a considerable distance. The market price of vegetables in Singapore grows higher owing to the insufficient area of land near the town suitable or available for their cultivation. Supplies are in large portion drawn from remote parts of the island. The Estate Labourers Protection of Health Ordinance referred to in my address last year has been the subject of protracted consideration and it is only recently that an amendment which it is hoped will meet the views of many has been drafted and placed before the Legislative Council. In the meantime the medical department has continued to press improvements in water supply and sanitation for the coolies' benefit. The appointment of an officer to visit estates in the Negri Sembilan and Malacea was made some months ago and has been of much use in increasing the supervision of estates employing Tamil labour. F 20110

continues to attract attention. The large estate opened at Bruas is being rapidly planted up and another estate of 3,000 acres is being opened chiefly in coconuts by a Chinese owner.

The coconut crop has been good at Singapore in spite of the fact that even mature trees have in many cases been cut down to make way for rubber.

There are, however, no signs of coconut cultivation being taken up on a large scale in Malacca.

The reports of padi cultivation are, I regret, generally discouraging. In Province Wellesley it is reported that even with a fair harvest the Malay planters are compelled to sell or hand over the greater part of their crop to meet the demands of the lessors of the padi fields or the claim of the money Ienders, F 32/10

F32/10

(100-12/11.)

Colonial Secretary's Office.

Singapore, 17th Jan. 1910.

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Received 2. C. / 1.

Annual Report on the Straits Settlements.

#### SIR,

I AM directed to request that you will be good enough to make the necessary corrections for the year 19 13 in the enclosed printed Return

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2. The information is required for the Annual Blue Book Report of the Colony and it is of great importance that it should be as accurate as possible.

3. I shall be obliged by your sending in the Return before the  $\frac{3}{2}$ instant, as the Government is anxious to have the Report published at as early a date as possible.

I have the honour to be,

Sir,

Your obedient Servant,

for Colonial Secretary, S. S.

The Deacetor of Gaadens.

F32-/11



jelutong, and Borneo rubber.

Of exports to the Continent values rose in tin, illipi nuts, phosphates of lime, gambier, sago, rattans, pepper, tapioca, preserved pines, and India rubber, but fell off chiefly in copra,gutta percha, gum copal, and Borneo rubber.

Exports to the United State's advanced in values of tin, Pararubber, peppers, and gum copal, but fell in values of jelutong, gutta percha, rattans, copra, and gambier.

Values rose in the case of imports from Netherlands India, India and Burma, Federated Malay States, Indo-China, Japan, Non-Federated Malay States, Siam, British North Borneo and Sarawak, Hongkong and China, and Australia and New Zealand.

Exports values also rose in the case of the Federated and Non-Federated Malay States, Netherlands India, Japan, Siam, Borneo and Sarawak, French Indo-China, India and Burma, but fell off in the case of Hougkong and China and Australia.

#### AGRICULTURAL INDUSTRIES.

The area under Para rubber increased very considerably in Malacca and also to some extent in the island of Singapore: in Malacca it was 80;424 acres in 1911, and it is now 115,000 acres. By the side of this increase, there has in Malacca been also an increase in land under tapioca amounting to no less than 52.3%; for the 10,926 acres of 1911 have become 16,643 acres. Formerly the cultivation of tapioca in Malacca was on the decrease, and old tapioca land in 1909 was being put under rubber; but the need of a catch crop to young rubber began in 1911 to cause a recovery of the lost area.

In spite of the fall in price rubber continued highly remunerative both to proprietors and labourers. The wages of the latter were high enough in some cases to cause Malays to desert well established Kampongs and long cultivated padi fields to take up permanent work on Estates.

In the Northern Settlement tapioca has not materially changed and rubber has increased only slightly. Nutmeg and clove cultivation has in many allotments been abandoned on account of the higher rates for labour and of the fall in the prices of these products.

The extension of pine-apple cultivation in Singapore island continues, the crop being a catch crop to rubber, and the fruits finding a ready sale at the canning factories in Singapore. These canning factories also draw pines to some extent from outside the Colony. The cultivation of pine-apples has no place in Province Wellesley.

FBAJA

Coconut plantations have increased slightly in Singapore island and in Province Wellesley. Interest in them and in other Oil plants, e.g., *Elaeis guineensis* (the African Oil Palm) and ground-nuts, has a tendency to grow.

In Penang coconuts were a little cheaper than in 1911, probably on account of a fall in the demand for copra. In Province Wellesley on the other hand they remained at a high price, the average price being nearly \$41 per 1,000.

The Manchurian Soya bean, tried in Singapore, proved useless for the country, as was to be expected.

The area under rice in Malacca and in Province Wellesley is almost the same as it was in 1911.

In Penang and Province Wellesley the padi crop was generally poor.

Gambier, combined with pepper, occupied in 1912 a slightly larger area in Malacca than in 1911, and holds its own in Singapore island. Fruit and vegetable cultivation is not extending concomitantly with the extension of European owned and managed plantations, and, labour being much in demand, seems unlikely to extend.

#### LAND GRANTS.

The area of Crown Land alienated, and the number of Statutory Grants issued and the premia paid for the same during the last five years are as follows:—

#### SINGAPORE.

		1908.	1909.	1910.	1911.	1912.
		A. R. P.	A. R. P.	A. R. P.	A. R. P.	A. R. P.
Area granted	**				4,944 3 02-3	
		sq. ft.	sq. ft.	sq. ft.	sq. ft.	sq. ft.

Number of S	tatutory	Grants	183,542	3 45,51	4 22,956	206,010	59,242	
issued	2		144	33	100	127	68	
Premia paid		\$6	,715.00	\$13,202.90	\$154,506.77	\$148,222.79	\$69.821.2	5

#### PENANG.

	<i>1908</i> .	<i>1909</i> .	1910.	1911.	1912.
	A. R. P.	A. R. P.	A. R. P.	A. R. P.	A. R. P.
Area granted	663 1 08	723 1 05	5 4,004 1 06	2,764 0 04	2,962 3 38
	sq.ſt.	sq. ft.	sq. ft.	sq. ft.	sq. ft.
	232,191	7,535	76,423	409,787	9,249
Number of Statutory Grants					
· issued	63	102	129	169	• 79
Premia paid	\$3,113.85	\$4,890.75	\$16,275.97	<b>\$14,310</b> .19	\$18,567.75

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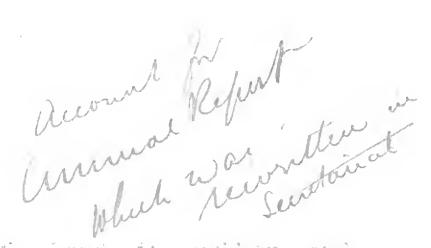
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Province Wellesley. The last of the sugar on tivation in Province Wellesley has dispresend, except of course that grann fur values. Al the end an equilibriant the er Sul Janting, Ressonn Grupal, andl and end discover te allusympton fil uppe a ant that the primalipal: and ab feater of reason of the subcipations of these orlylypters. Then then of the texts blass (new to look it is by no reason wascence for their probably to the short wordblass, Meet had fars light likes ho synthemal fermad to post las a cub many setto number in procession, site rucult second deters flare is recent within the Province o nob inconsularelle crossi of such outdivation. the vegetables being beans, whe chiller fruits of the buoud o order, bringeds, suc junergies. det eller to any reduction for the Union is to could hard of chose while the love love Depitions ongs with last THE. premi igna an utilita a cana bur data nuang akara akar bur baraki tre janne cill and sjjartusty vany jan firsting, the tras suberning of the standard of 1200. Sec. 11

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<u>Malacca.</u> The orea under subber in Malacca has increased to 117,000 acres: and it is to be noted that 18.6 (or pent of the total is newly longed level. In 1010 10.0 (ercent of the present total was plonted and

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in 1911 5.7 Percent. The site of a size of an isofolian of the Sig (fina justicitien Dara in Detten from As.O. & Do.S., ) the distribution fare in Detten from As.O. & Do.S., ) the distribution is only contactor software in this that the ansat non-approx distribution of a stars. The bis analysis was not informed to the transmission of the function investigation of the transmission of the industry of the factor of the transmission of the industry of the factor of the transmission of the industry of the factor of the transmission of the industry of the factor of the transmission of the industry of the factor of the transmission of the industry of the factor of the stars of the industry of the stars of the transmission of the method difference of the stars of the stars hear of the transmission of the stars of the industry hear of the transmission of the stars of the industry the stars are using of the factors when the industry as the provide and using of the factors when it will be the provide and the stars, when it we defend as the provide industry of the optimum is well the optimum is and the stars, we defend in wells the transmission of the factors in wells

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The number of bankruptcies was not great, nor the amount involved large, but at the close of the year the Chinese market generally was in a more than uneasy condition.

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#### AGRICULTURE.

One of the most notable events of the year was the collapse of the price of rubber, which fell from 4s. 8d. for fine plantation para in London to 2s. 3d. With the enormous increase in the production of this commodity throughout the world it was impossible for a high price to be maintained, but the suddenness of the fall and its arrival so much earlier than had been anticipated, may be attributed to certain causes subsidiary to that of overproduction. Of these the first in time was the stagnation of certain trades in Germany, Austria and neighbouring countries consequent on the Italy-Turkish War and the wars in the Balkans, but the most important was the uncertainty with regard to the American tariffs, on account of which American importers, hitherto by far the largest buyers, have been unable to purchase largely in advance. The combined effect was the oversupply of the British and Continental markets. With the reduction of the American tariffs a largely increased consumption by America may again be expected but the continual increase of production precludes the hope of any large recovery in price; in fact it is probable that the price is now practically established. A revival must in any case be preceded by an improvement in the general financial situation throughout the world. With the fall in price came the necessity for a reduction in estate expenditure. The cost of production naturally diminishes as the trees mature, but many economies have in addition been found possible. In Malacca on the motion of the Malacca Planters' Association wages were reduced without friction, thus satisfactorily proving that the supply of labour is adequate. Many estates are using disc-harrows drawn by draught animals as cheaper than manual

labour, and one estate is using steam ploughs.

Though the inflated dividends of previous years are gone for ever, reasonable profits can be expected, and the only really unsatisfactory feature of the situation is that the market still considers average plantation rubber to be inferior to fine hard Para. Certain known marks, however, have been sold at the same price as Para, and if standardization can be effected it is to be hoped that producers of other marks, at present less known, will share in the enhanced price that recognized quality can command.

The planting of fresh land in rubber continues in every Settlement of the Colony, and shows that the planters still retain their confidence. The area under rubber cultivation in Malacca is 117,200 acres.

F32/21

Catch crops under rubber are being abandoned generally. The result is an enormous diminution in the output of tapioca. The area under this crop has dropped from 16,643 acres in 1912 to 7,353 acres in 1913.

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Along with the decrease of tapioca, there has been a correspondingly large diminution in pig raising. It was, and still is, the custom for squatters to rear pigs under the Chinese-owned coconut palms fattening them on the *ampas* or refuse of tapioca manufacture. In past years the pigs so raised met the whole demand of Malacca and were sent to the Federated Malay States in large numbers. Now, however, the export has almost ceased; and to fatten the supply for local demand an import of the refuse is required.

The rice harvest was fair in Province Wellesley, and bad in Penang and Malacca. In Malacca, not only was the season unfavourable to the growing crops, but there was a smaller area than usual under cultivation owing to the attractions offered by fairly high pay and moderately easy work upon the rubber estates.

Coconut estates in Singapore have largely failed to attain their estimates. In some cases this has been due to inflated expectations and a want of knowledge of the nature and yielding power of the trees on the estate, and in others to want of attention to the trees. This has especially been the case where there have been joint interests in rubber and coconuts.

Some large estates in the Dindings are, however, said to be doing well.

Coconut pests were troublesome in Singapore. There was an increase of the Palm weevil in the centre of the island, and a serious outbreak of the moth *Brachartona catoxantha* in the east of the island, which will affect the crop of nuts in 1914.

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The cultivation of gambier is rapidly decreasing, and indigo cultivation has practically disappeared.

The plague of locusts which has been afflicting the Federated Malay States appeared in Malacca during the year. Its presence is as yet confined to the vicinity of the Negri Sembilan boundary.

#### ALIENATION OF LAND.

The area of Crown Land alienated, and the number of Statutory Grants issued during the last five years together with

#### STRAITS SETTLEMENTS, 1917.

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F32/22

#### AGRICULTURE.

The agriculture of the Straits Settlements continues to expand, but the conditions are very artificial in consequence of high freights and unusual demands.

Labour has been in deficit: and higher wages resulted from this and from the increased cost of all imports. Further as it has been necessary that the management of the British-owned estates should spare a part of their supervising staffs for the war, it has been difficult to attain estimates in some cases.

The premier crop, rubber, has paid very well: and the market has been without the large speculative element which was present in 1916. Local selling has greatly increased, and with profit to the Colony, because freight to Europe for re-export to America can thereby be avoided, and for the reason that the manipulation of the market becomes harder for dealers when selling can be done in many places.

But the profits from rubber production have decreased, because while prices fell throughout the year, expenses rose, both in increased wages and from the high cost of tools, machinery and chemicals. However, many estates are achieving production at what may be regarded as the minimum current rate: and the market price has been about twice this or higher.

On the other hand coconut produce paid meagrely at the beginning of the year, prices declining further as the year passed; in consequence of which the already established tendency to remove the palms for rubber took further hold, and while leading to but little destruction of trees in bearing in Malacca, led to more in Singapore and to much in Penang or Province Wellesley, until an Enactment was called for to restrain it. The crop of nuts was good in the early part of the year, and fair generally. The difficulty of selling the copra to Europe appears to have favoured crushing for oil in Penang; for exports thence continue to increase. That this should occur is good, for it is of advantage to retain the cake in the country.

The tapioca market was speculative; but prices were generally good. A slight increase of the crop in Province Wellesley has taken place, but nevertheless the total production is small, as the cultivation has moved northwards.

Pig and poultry raising, which are partly subsidiary occupations of the tapioca industry, and partly of vegetable-growing, tend more and more to desert the Colony. So much has this been so in Malacca that there is now an import of twelve thousand pigs in the year, whereas there was an export of as many in 1910: and Malacca has now but a very small export of poultry. Penang, which had a very large export of poultry,

#### COLONIAL REPORTS---ANNUAL.

has now a larger import than export: and its export of pigs is not half of what it was three years ago. Singapore has long had a larger import than export of both; though the by-products of itsindustries would seem to promise plentiful pig or poultry food.

Freights having driven up the cost of imported foodstuffs, those which can be produced in the Colony have fetched better prices in the markets, and the growing of them has received a stimulus. Rice has been more extensively sown than in any recent year, and the crop promises well. Vegetables have been grown in increased quantity in most places: ginger particularly in Malacca.

The fruit crop of 1917 was a very poor one, partly as a result of the bountiful crop of 1916, in consequence of the trees demanding a rest, but mostly because of the unseasonable weather when the trees flowered. For the same reason cloves bore badly in Penang, and the rice crop of 1916–17 was spoiled.

There is no tendency in Penang to neglect the pure clove plantations; but the mixed clove-nutmeg-areca palm gardens are suffering much from want of attention. It appears that this has been caused, like the decrease in the local fisheries and in some other occupations of men of small means, by the attractiveness of rubber-planting. It is certainly responsible for the fact that Penang no longer exports more nutmegs than it imports, and from being a producing centre has become rather an entrepôt for the Sumatra trade. It seems also to be responsible for the reduction in the exports of areca-nuts from Penang.

Similarly village fruit-growing would seem be be declining in Malacca and also the export of areca-nuts.

Gambier just persists in the Colony. As a catch crop for rubber it has virtually ceased to exist. Pineapple cultivation in Singapore is also less in use as a catch crop than formerly: but the industry of canning the fruit is suffering eclipse on account of the impossibility of obtaining tin-plate.

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Owing to the good returns rubber has been cultivated on a more scientific basis. Thinning has been very extensively done, and tapping placed on to a more conservative basis: but there are an enormous number of small holdings, the owners of which cannot or will not wait for their profits, and some anxiety is caused by these plots of weakened trees. Fortunately rubber in the Settlements is very free from disease: one small outbreak occurred in Malacca, and the advice of the Department of Agriculture of the Federated Malay States was sought. It is noticeable that more attention is being given to the advantages of manuring.

Coconuts are not receiving much attention, but are generally healthy, save for insect pests, of which a new one, unrecorded, but perhaps not altogether unknown, a beetle,—has done some damage near Malacca town. The moth *Brachartona* has been prevalent in Singapore island.

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### AGRICULTURE. 2

It is just a year since the great fall in the price of rubber ended. From that time until the outbreak of war in August the rubberplanting industry has had a period of market that can only be described as satisfactory to the fully financed estates : but for those incompletely developed estates which during the fall by choice or force of circumstances used income as capital, the year has been a difficult one, resulting in a general arrest of further planting and, in Malacca, in the surrender to Government of lands lying unplanted. The surrender has not, however, been wider than was expected : and the cessation of planting rubber seems generally desirable at the present in view of the inevitable over-production.

The amount of rubber exported from Malacca in 1913 totalled 9,885,200 lbs.; the value was \$10,925,983, little more than that of the 5,648,266 lbs. exported in 1912.

Consequent on the fall in price great and successful efforts have been made by the planting community of Malaya to bring down their costs, and in this they have been preparing for the increasing struggle against other rubbers on the world's markets. In respect of this struggle the position of the Malayan industry appeared satisfactory when the outbreak of war in Europe suddenly stopped sales: the calamity now gives some advantage to the countries competing by means of wild rubbers, for they have no cost of cultivation and their assets are conserved while the markets are stagnant. It is extremely difficult to estimate in advance the effect of the war: for though access remains to the American and English markets which buy 70 per cent. of the world's produce, the selling power of the manufacturers in the present crisis is not ascertainable.

There has been very little increase in the cultivated area of Singapore, but most of the land under cultivation has been kept in exLarge areas of land continue to be taken up in the Dindings for the cultivation of coconuts, and some additions to existing plantations were made in Singapore. In Malacca also more attention was paid to this form of cultivation and copra to the amount of over 57,000 piculs, of a value of about \$610,000 was exported in 1913.

There's 2.10.14.

The market for tapicca throughout the year has been bad and its cultivation has been much reduced, particularly in Malacca. As a catcherop under young rubber it is no longer needed in many estates. Province Wellesley was more adversely affected by the low prices than Malacca.

The rice harvest of 1913-14 was every. where good except in a very small area of Malacca which suffered from the past neglect of the sawabs, dating from the rubber boom. and the change in the nature of streams owing to the clearing of hills. The prospects of the crop of 1914-15 are not yet assured. Rain did not fall when the land should have been ploughed, and the coincidence of the Mohammedan fast much delayed ploughing. In Malacca the extent of rice fields cultivated will be greater this year partly owing to the influence of the District Officers and Penghulus and partly owing to the fact that the reduction in the wages for tapping rubber trees has caused a number of Malays to return to the cultivation of their padi fields and kampongs.

The fruit crop has everywhere been excellent. The growing of vegetables in catch-crops on the southern estates of Province Wellesley appears to be a success. There seems to be a slight extension of fruit and vegetable growing about Singapore.

The pine-apple industry in Singapore is in a satisfactory condition, and much new land has been planted to make up for the removal of the crop from the large rubber estates: there is however little suitable land now available. The crop has been satisfactory.

There was one serious outbreak of plantdisease, namely, that of the coconut moth, brackartona catoxantha, at Serangoon in the last two months of 1913 and the first of 1914. The pest was arrested and destroyed by a parasitic fungus. Coconut beetles were rather numerous at one time in Singapore island, but have been got under. Migratory locusts have caused uneasiness in Malacca, but as a matter of fact have done extremely little injury; they are however on the increase in the Negri-Sembilan-Malacca region: and as their capacity for destruction is known from experience elsewhere, it would not be right to ignore the possibility of danger from them. A special officer is now in charge of locustdestruction in Malacca. # 33 '5 .

cellent order. Large areas under rubber are now beginning to approach the tapping stage and the low price has served as a check on the tapping of immature trees.

The coconut industry has had a prosperous year : prices have been high and the crop of nuts good, so that the quantity of copra and coconut oil exported has been relatively large and the return in money still larger. But the outbreak of war severely affects the northern Settlement, whence 80 per cent. of the exports used to go to ports now closed to trade, and much of the rest to ports, such as Marseilles, whose mills are idle. As coconut forms an ingredient in foodstuffs an early recovery at least in part is probable : but it appears that England has been very largely dependent on the Hamburg refineries for pure oil, thereafter made into butter substitutes at home, so that she is not fully equipped to take up the whole trade. I apply

#### Agriculture.

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During 1914 the prices of the chief Malayan agricultural exports which are shipped west, fell in the world's markets. Rubber, for instance, after repeating the seasonal rise of three out of the last four years, fell again before war broke out to the point from which it had risen; near to which it bas since been maintained by the decrease of its import into London, and elsewhere. The actual imports into London during 1914 amounted less than those of 1913, and to the total world's production appears also to have been slightly less; for though the production of plantation rubber hes increased enormously, the decrease in output from wild sources has been even greater. Coconut products fell gradually towards the outbreak of war, lost their market when the crisis came, and then after a month began to find it again, the prices varying closely with the freedom of the sea. After the destruction of the German cruiser "Emden" they began to rise in a promising way. Sago and tapioca, low when the year began, went lower like the coconut products, but are now obtaining somewhat better prices. Putch leaves lost their market entirely when war was declared. On the other hand gambier, which chiefly goes east, is a little more profitable than it was.

The amount of rubber produced in the Malay Peninsula shows a great increase, in which the Settlements have taken a more or less even part. An area of moderate extent has been newly planted in Singapore island, and a small one in the territory of Malacca. In the first named the rubber growing on the new lands seems to be entirely. a subsidiary product for, by the terms under which the land has been let for the growing of pineapples, a permanent crop bas to be planted and rubber seams to the occupiers to be best for such a purpose. In the territory of Malacca, the surrender to Government of lands taken up speculatively or unwisely by rubber companies in the boom, has been rather more than was anticipated, and many estates are finding it necessary to use revenue for completing development; but the revenue promises generally to suffice. Great economies have been found possible; the cost of production has been reduced wonderfully; and there are companies producing and marketing at below one shilling per lb. In the older and Chinese-planted estates of Malacca thinning is being carried out extensively. Ploughing is also being resorted to more and more. Not a few factories are acting as centrals for small neighbouring estates - a procedure which goes some way towards reducing the variability of the quality of the product. The rubber plantations are very free from disease.

larger rubber estates. But this has caused new lands to be planted with them. The price of pineapples in Singapore town fell at the commencement of the war to fifty cents per hundred (which was also its minimum during the excessively large crop of 1913) in consequence of the cessation of work at the canneries. However, the work was soon resumed. It seems that fifty cents per hundred is the minimum price at which picking and carting can be done, the cost of cultivation then being lost.

The success of pineapple-planting in Singapors seems to have stimulated a small increase in the crop on Chinese owned land in Malacca and Province Wellesley, but without canneries the market there is very limited.

Gambier is being removed from under rubber in Malacca only very slowly. In Singapore island its cultivation persists in three mukims; and so long as the market maintains its present prices and labour is abundant, the crop is unlikely to disappear.

Vegetable growing is extending, especially in Singapore island, in consequence of the freeing of labour from estates. The last season has been favourable to vegetables; and prices on the Singapore markets have been much lower than they were. Chillies are among the special products of 1914. The Chinese who plant vegetables are in Singapore also planting a little indigo.

There is a slight further increase in Singapore of plantain cultivation. Small crops of tuba are by no means uncommon in the east of the island.

Throughout the Settlements the crop of mangosteens and other fruits has been very good.

The rice crop of 1913-14 was in places excellent: that of 1914-15 unfortunately started badly, for rain did not fall when required.

The locust pest in Malacca has done very little damage. The locust is destructive elsewhere under certain conditions; but is not so as yet in the Peninsula. Its favourite foods are certain pasture grasses, maize, etc., which do not play a large part in local agriculture; but it has attacked rice, sugar cane, coconuts and some other economic plants in a small degree. Measures are being taken against it in the hope of preventing it becoming really destructive. These measures are being carried out on the same lines as those undertaken in the Federated Malay States, and are taken in consultation with the Agricultural Department of the States.

Thei

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There is now extremely little tapiocal associated anywhere with rubber, and the Europsan estates Province Wellesley which formerly made tapioca have ceased to do so. A little Chinese tapioca-manufacture continues in Malacca.

Coconuts in most places have had a productive year. New land is being planted with them to a small extent in province Wellesley and in Singapore. The older estates in Province Wellesley, in some cases planted unsatisfactorily, have received a considerable amount of attention, and the trees are said to have responded to manure and cultivation given in 1913.

Pineapples occupy a slightly reduced area in Singapore island in consequence of their removal from under rubber on the F30/25

132/24

(2,000-3/12.)





# Botanic Gardens, Singapore, STRAITS SETTLEMENTS.



#### AGRICHLEWERE IN THE SETTIANENES,

" me in concentrate 4446 0

Although trade conditions cannot be otherwise than unstable, Agriculture has not received any any serious blow from the Wark Instead there is a land been in Malacea, men who are getting revents from Been-planted rubber on small holdings putting it into nose land; while at the same time the have been States asking for more labour than there is available. Pasts have newhere been serieuss and under a special Officer the increase of legasts in Malaces sprears to have been checked,

In Singapore island the production of marketgarden crops has MGARAQAAMMONMONMON more nearly melsufficient for the demand than at any date since the sudden growth of planting took the small men off their plots; so that the price of all vegetables and some fruits has dropped considerably.

When the war broke out the anxiety of the 28 rubber-preducing companies was considerables/ prempt

solling for nost of them was measured for supplying their working capital; and it was far from clear that they would be able to solls Under the circumstances many, especially these with holdings in Malacea, hedged by resorting to half-time tapping. There have since in several instances admitted to a shortage of entput as a consequence. But happily it took only a fortnight for adcortaining that to out down work was not necessary: skilful handling of the financial situation in London, local assurance of monetary help, and the probability of freedom of the mean net tapping going agains Heauwhile show clearsnees at the

F32/26

docks, and a greater interruption of the shipping between Brasil and the consuming countries than to the East, kept stocks from accumulating until the enormous war-domand for rubbor was revealed, The bondon weekly auctions were stopped; brokers submitted to a re-invoicing of their forward contracts; and the market kept a cool heady

Experts know that war would bring a demand for rubber; but they extent came as a surprise. Inmediately it was recognized the trade itself reinted out the necessity of preventing supplies lie Home from reaching the energy, and fovernment issued the necessary prohibitions. The declaration of rubber as contraband, the limitation of ports to which it nogh he sent, the concentration of the trade of it is worth wohing Antwerp on London followed / without greatly influencing uturenan Then the just market prices " not as much as the Raden's did: for depredational The lewest price at which "Plantation" has stood since the war broke out was just after

the news of the minking of the "Ereilys" has reached Genuau war-ships in the Addin onen Muropes with the destruction of the "Enden" the Surce market began to rise and has never fallen & to last year's prices mincely

There can be no doubt now that the demand for rubber is assured until peace is in sight, and again after peace has been declared until the warring nations have made good the greater part of the enormous wastage in progress, And thus prices are assured for some time to comely

Synthetic rubber is no more in sight than it

was; and reclaiming though increasing, does not give back the actual rival of first class raw rubborb

One great change has come about though the war in the method of melling, namely the abandement of the bondon weekly austions. It is probable that they will never start agains bocal auctions however are on the increases not only in the amount of rubber changing hands at these of Singapore greater year by Syear, but the Benang auctions are increasing; and Fatavia auctions have just commenced. These changes are in favour of the soller.

In last year an unexpected thing happenedsjust the world's minut of raw rubber fell/below that of 1913. This was brought about by a decrease in supplies of wild rubber from Brasil or Africa which almost matched the increase in Flantations Prophets have said that the same may reess in 19159 but present indecations are of an increase, for not only is the output of Malaya enormously

larger than in 1914, but Brasil put larger quantities onto the market over the first part of this year than in 1914, chiefly sending them to the United "States, and promises the MONON crop of the coming season early so that mich will come in before the New Years

The crop of Goodmits, so excellent in 1914, yan very poor over the first quarter of 1915 in the northern part of the Peninsula, but has been satisfactory since, in the south of the Peninsula it has been satisfactory throughout; The trade was very rule shaken on the outbreak Sefere the war Germany used to expert to Britaly as much as South tens of expressed coconstoily Consequently Britain is prepared to take something approaching this large amount without building mills for which there is at present insufficient laboury The by condition & makes it prefitable to extract eit heres and it is of impertance that Benang had

already by June 30th last experted not less than 25,000 pikuls against an annual average of 30,000. Lecal extracting is distinctly advantageous to the feminsula as it frees the cake for use on the spot. The prices of Sapiece fluctuated over the first nonths of the var in the same way as these of Geoenut products, but within narrow limital they reached a satisfactory maximum in April but have fallon again, although not to the low lemols of 1814.

A fromh wave of Tapieca cultivation seems likely to spread over Malaccai

The last rice crop was good in most places;

F32/29

The new crop has been favoured by good weather at start its windwinds, and more of it has been translanted in good time than in 1914.

Lainy

Ernit crops in Penang have been good, in Malacca mederate to good, in Singapore/poor to fairly good, except Plantains which have yielded excellently. The worst local crop was the gangesteen crop; but that was because the very big yields of 1914 compelled the trees to resti

The pine apple industry of Singapore obtains all the natorial it needs in spite of the cutting out of the crop from the large rubber estates; but the price to the growers has been little remuneratives The cultivation of Tube root is increasings.

Canhier growers have emploid particultarily good prices inconsequends of a war demand, and the interruption of supplies of rivel materials such as valonia and quebrashe, the first of which comes

chiefly from Enrich possessions, and the second from South America to which as said above, the stea mer trade has suffered considerably, So long as such prices are maintained the removal of it from the remoted parts of Singapore island and the Serritory of Salaces is improbables

F32/36

AGRICULTURAL INDUSTRIES.

The declaration of war in August, 1914, cane when the prices of all Malayan agriculturel exports had been follows for a long time; and its there effect was he would them levers but with skillful handling of the financial situation in London, local to morheers. assurance of nonetary help, and the reneval of enery yessels from Eastern waters, an arward nevenent started (Nevember, 1914) which was still. 2.B Bul prograss when the year 1915 connenceds this upward novement ceased to be covered in March Jens bofers that neuth the rlanting interests of the Malay rouinsula had found their fears of a Wans of norket renoved, although the souditions of trade vere schrlex. When the fear was on then there had TONT e very brief inherrartion of terring on Dogn SCRO rubber estates; and serve making had been storped

## generally.

In March, 1915, freicht<del>s/////</del>-rates were greatly advenoed, especially against the bulkier articles: by two steps those for the carriage to Europe of untness, cloves, ginger, rubber, etc. were increased by 50%, these for sage or source by 72% or filled that for secondts leve nearly 200% These advances blocked certain outlets when var-restrictions had left open; their nest serious effect being perhaps in the matter of cerra, the price of which from this cause centice right correction of other sources of cil in a market there the orushing denand was nuch restricted. The price of teriese fellowed suit. But in the last quarter of the year a second occurred serving rubber for beyond expectation, and naking the profit on serve and tariese again good.

With noner thus coning in, there has been snall land-been in Malassak, and in Singapers talend an anxisty to get resumented of and to cultivete whatever is still eveilable. Further T.NO Cone into making plantations elecher gain. hag than they were: is is not intended to state DY they were conscally found that that they this that and for instance eleaner still then they were /lielecoe estates 220 Such as die harrows. which used machinery for classing have found that can afferd the nere cestly manual discinct. The they. greatest gain has sone from the price of rubber; fer which the Settlenents are endebted to two circumstances - the ver-denand and the prosperity of

the United States of America, distance has always been a great buyer of the scandity. And although the output has increased encrously, the whele has been absorbed at rising prises, making such a resy prespect that it is rubber and nothing else that the majority of these who have been acquiring hand desire to plant. While adjoining with fields have been cleared for the purpose, on the usighbouring producing press, the small holder has resorted to tarring twice a day inorder, to get rich the faster.

F 32 / 32

At the commencement of 1915 Fine Hard Fara steed at a considerable premium above Flantation Rubber as it had done reraistantly for the provious eighteen nenthas but the first rise in the value of Halayan produce nade then Million alnost equal; and the second rise care the prenium, though small, to Plantation. It ney be erroued that man sculificus have been responsible for the advantage gained. Dut considerable changes have cons about in the vers of marketing which are hered to be of remanent benefit to Halayak The ferenest change has been the sweeping arey of the Loudon sustions, private treaty, spot and particularly forward, soming in: and concenitantly local state have increased both in Sincepore and in Penang. Large forward contracts between the producing estated and the nanufacturer seven to a contain amount of that standardisetion 9.48 of our predate which has been To mush talked chent auel 120 is still distents it hals always, been evident but

that standardisation would do much; and therefore it is evident that the change in solling nothed which is equal to a part of it will do schething. The insistence of the var denond appears to have convelled namy nanofectubers to lay guide their aversion to trying Flantation, and further to have nontralised the rever of the few atoons and largely German houses in Ebe Anason to control prices through supply.

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F32/33

By means of the fresh planting in the Cerritery of malason the didd/ their increase of the area with when there will be not inconsiderable. Gambier, coccusts become caraa tarioga are at the same time bette and no strictod. In with of the high prise of which campier stands sign of an oxtension for it; 5liore 13 yara -白い頃 tore to be 专题改计 clearing away of unreserved forest for rubber less supply of firewood for beiling it will 17.0 leas suffice. Coconsts are being sut out of 34117 nixed plantings. Daricsa ecopies less land; but there exists a local interest in it in the Seathern 33 Leading District which Managama to Lossl Plauting. The has been. erreads to he heither nere extensively her rice Land besser substranged shan in the Last for TOUMSE although sene pressure has been brough to bear on They complain of the way in which the orners. efficite land rainfall. 5710 new shat MILLE Se THIGH er who wrlands have been cloared: and that nuch has been wested into the velicers is evident. scil

It also appears that they nake no attempt to edept their tillage to the condition.

Halassa's expert of ginger has been doubled, apparently as a result of extended market garden sultivation. The sport of areas has been above the average, a result of the excellent eror of 1914. These two products find their market within Asig. Pine-apple have been increasingly planted in Malassa; but there is not evidence of an increase of the sultivation of frait trees. The yield of frait was fair to good.

Wh Singarore island much of the land nowly

F 32/34

breken has been for narket cardens; and at the 11m height of the season recetables were cheaper in Singapor tewn than they have been at any time since the Church rubber been took the antitivators off their patches land to work for the high whyse of the estates. ef. land has also been placed under pines plos to Some make good the renoval of these from the naturer rabber estates. The shall cultivater is able te Henry profit from tuba root, for any ont. DOXO

The expert of second cil has increased considerably. not so much from the orer which was good, as from \ as increase of erushing locally.

When wer brike out, Pennugis erra trade was nost severally dislocated in consequence of the enormous properties which used to be to enery pertas but an Annual abuli, a culturally fronting the adjustment has taken placed at that considering the smallness of the err in the early part of the year the result is not unsetimestory. In Pennuc also as in Sincarce, there seems to have been an increase of oil making, and fuch would be the matural result of freights obstructing the export of correly.

Coccuss have beeneved in Province Wellesley rather extensively for rabber.

Nutness are soint out steadily; sloves nore slowly ruted has found a market up and down the least to a small of the had cut hugins the form ful. about the average snount! The rise erer of Fenens and Prevince Wellesley was fair. Seriose is still present in some quantity, but not sufficiently to maintain the roultry trade. Seriose growing and realtry raising are together noving into Kedah: but the

F32/35,

raising of gigs seems to have been naturalmed. For this purpose the area under gagittaria near Bubit Mertajam is not only maintained but increasing. The fruit orep of 1975 was good.

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#### AGRICULTURE.

The war-demand for rubber, and the value and compactness of a cargo of rubber, as well as the certainty of a crop, have brought rubber-growing into still increasing favour. Established estates have prospered greatly; and estates which in 1914 were driven to various undesirable economies, have had funds for the highest cultivation. Much new land has been planted up with rubber trees in Malacca; throughout the three Settlements the coconut palms which have hitherto been intermixed with the rubber trees have been removed on considerable areas for the sake of the better growing of the latter.

Rubber prices on the London market varied as much as 100 per cent, but were always good. That form of rubber which was offered in lesser amount obtained the greatest premium,— Para over Plantation, and Crêpe over Sheet. Accordingly, no doubt, Crêpe would have been made in greater amount, but machinery was difficult to get: on the other hand, many small holdings, too small for elaborate machinery, which must perforce make sheet, have now come into bearing.

Coconut palms produced well, especially in Malacca and Penang; and the market offered better prices for copra than in 1915: but freights have been greatly against coconut produce. Areca palms which are generally productive when coconut palms are productive, in 1916 yielded well.

The nutmeg crop of Penang was small. The clove crop fair.

The rice crop of 1915–16 was good. That of 1916–17 was sown late, but on the whole over an undiminished area; and the promise is good.

Tapioca planting is stationary. Gambier is going out, by its removal from rubber estates.

The fruit crop in 1916 was heavier than in any recent year, and fruit was correspondingly cheap. But vegetable production has diminished, and Singapore has drawn supplies from unexpected quarters.

Knowledge, of pests and plant diseases has been increased. Within the Settlements no serious outbreaks have occurred. The locusts, which are a cause of some apprehension, enjoyed a good breeding year on the Malacca-Negri Sembilan-Johore borders, and for a time gained on the staff employed in their destruction. Their destruction is being organised by the Department of Agriculture of the Federated Malay States.

Rubber-standardisation appears to have been brought materially nearer by the work of this Department.  $\frac{1}{2.32}$ 

### AGRICULTURE.

Rubber.—At the beginning of the year the price of plantation rubber was 2/3 per pound. It reached its highest point, 3/11, at the end of the year. Shipowners took advantage of these prices to raise the freight to Europe from 78/- per 50 cubic feet to 137/6. The profit that still, however, remains to the planter has been such as to create a demand for land that is straining the resources of the land officers. It is very noticeable too how much better the estates are maintained and clean-weeded than in the past, and how the importance of thinning out of trees is becoming realized.

The insistence of the war demand has helped "Plantation Rubber" in its rivalry with "Fine Hard Para." Manufacturers have been compelled to lay aside their aversion to trying "Plantation" and appear to be satisfied with the result of their trial. At the beginning of 1915 "Fine Hard Para" stood, as it had done persistently for the preceding eighteen months, at a considerable premium above "Plantation." Early in the year the two rivals drew level, and now plantation is leading—though the lead is small.

The establishment of a rubber market in Singapore and Penang has also helped plantation rubber. Large forward contracts between rubber estates and rubber manufacturers are now common, and in these days when standardization is still far distant are satisfactory to both parties as the buyer knows the seller's standard.

The direct sales of rubber to America have increased from 2,508 tons in 1913, to 4,510 tons in 1914, and 21,075 tons in 1915.

The total exports from the Colony amounted to 38,283 tons, of which 12,824 tons went to the United Kingdom, 1,998 tons to European countries, 1,230 tons to Japan, and 21,075 tons to the United States of America. Most of this, of course, is rubber imported from the Malay States and Netherlands Indies. Unfortunately there is no record of the amount of rubber actually obtained from the estates in the Colony.

*Rice.*—The Malay is giving up the hereditary cultivation of his race. It is sad, but with rubber and coconuts showing their present profits, it cannot be helped. From rice, a Malay might expect, if the season did not fail, to make with, the united labour of his wife and family, a bare livelihood : a small rubber plantation yields him enough to make him a comparatively rich man; and instead of the dried fish and the cloth garment that were all that he could afford as a rice-grower, he eats imported rice and dresses himself and his family in silks. Such of the rice-fields as are not cultivated are lying fallow, and cultivation can be resumed when desired.

F 3= / 38

Sen Mar

Coconuts.—Copra at the beginning of the year stood at \$8.90 (sundried): the maximum and minimum prices during the year were \$12.50 and \$7.00; and at the end of the year the price was \$10.75. The freight to Europe rose from 39/- per 12 cwt. to 100/-. The exports for the year were 77,381 tons, mostly to France and Denmark.

The oilmills in Singapore and Penang only supply the demands of the local markets, and little, if any, of their oil goes to Europe.

General.—Nutmegs are going out steadily: cloves more slowly. The fruit crop of 1915 was good in the north, but in Singapore not uniformly good. Areca-nuts have done well. Pineapples in Singapore have been abundant, the prices delivered at the Canneries falling as low as \$8 per 1,000.

Pests.—Parties of men were engaged throughout the year in Malacca upon locust-destruction, at a cost of \$9,317—as compared with \$4,081 in 1914.

It is believed that the measures taken have decreased their numbers considerably. The damage done by them to crops (rice and coconuts) has been very small. No other pest of cultivation has been unusually prevalent.

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Telegraphic Liddress :---SECRETARY, SINGAPORE."

O.A.B.

It is requested that the following number be quoted in the reply to this letter.

No. 10651/18.

Colonial Secretary's Office, Singapore, March, 1919.

Sir,

I am directed to invite attention to my letter of even number dated 10th December, 1918, forwarding printed slips from last years Annual Report for amendment as required for the Annual Report on the Straits Settlements for 1918 and to request that this matter may receive your personal attention and the slips as amended be forwarded without delay.

I have the honour to be,

## Sir,

Your obedient servent

Colonial Secretary, Straits Settlements.

The Director of Gardens, Straits Settlements, SINGAPORE.

F32/39



It is requested that the following number be quoted in the reply to this letter.

M.T.

No. 10651/18.

Colonial Secretary's Office,

Singapore, 10th December, 1918.

Annual Report on the Strite Sattlements.

Sir,

I an directed to request that you will make the necessary
corrections for the year 1918 in the obtached wrinted raturn relating to Agriculture in teach them to this office when corrected.
2. The information is required for the Annual Blue Book Report of the Colony on must be accurate. Care should be then that any alteration of sigures in one part of the Report is corried out throughout their Report.
3. The Annual Report has, by threation of the Secretary of State, to reach up not leter than the end of May. The enclosed Return chould therefore be sent in as early as possible after the close of the current year, and in any case by the end of February. If in any instance final figures cannot be given an approximate estimate should be made, reasons

being given.

4. I am to request you to give your personal extension to this matter and to treat it as important.

I have the bonour to pe,

Sir,

Your obelient servant,

h I.E

Colonial Secretary, Strait - Settlements.

The Director of Gardens,

Straits Settlemento,

F32/40 SINGAPORE.

# ALLIGNETURAL INDUSTRI. R.

During 1/13 the insoficiency of thipping resulted in the accumulation of largo stacks of produce in our perts: and in the congestion opreading back in the case of rubber to the estates which were ariven to still without delivery. Low prices under such direumstances were inevitable, and rubber realised on the sverage 40% less than in 1917. At the same time, with the great increase in the price of rice, the cast of production was driven up, and prefits were clipped at both only.

Fortunately the crisis lasted but a short time; and at the and of the year prices were again at a paying level. The effectes have been maintaiged in a good condition and dre much improved upon dust thuy were after the arisis of 1013. The trees are constantly bealthy. Copra prices, calcuated in cents, pers a little better than in 1017: but if the higher cent of production be taken into consideration, they were not so. Copra is not being manufactured at all in Singapore island: and the production is apen a reduced cents in the other Sattlyments. The and of the year found large stocks held; and the lander market at a figure which did not permit of only there. Fortunately level withing way active, and absorbed an increased amount of seven. Upon the sil relies a necest level cent loss all relies a

. The plentations are concrulit healthy.

Farly Gambier permites only over very small evens. dant of fuel

for boiling is killing it.

"apillo production has increased in Jacco, with the use of the Topicca plant, as before, for a cover erep in young rubber. The arous of it in Schang, and i in Frevince Wells loy is the larger that it the offers lyin.

anting rearing such fattening is la later of in in in intry lorge Cepencent whom the Mammed of such inclustries ne topicon: but it has not returned to delacer yet. Instead the export af positry thence into the interior has again increased, Swine fattening, that is to say the inpertation of lets pigs and the feeding of them see s to differ its singeports prefite of cheat 30 /: se lerge is the bissel of neuroptics of post thet 1.1.1. Signate has a the supert an area the surplus in Renney has windhed down from 20,000 head in 1914 to barely over 1,000. Peneng has now or surplus of poultry to export. It seems that one cause of this is that the mills in female do their work mare afficiently than fernerly so that there is less 19 2 ... 0.30 5 613 225 whete to do Sarber Teeling 七〇

Recetable production appears to be increased in Nemang: but to nove decreased slightly in Malassa. In Malassa also giager graving has decreased slightly. This decrease seems to be due to the estates damading dimese tappers, hill may be lighted in as a passe of that MINE pass light the estates are able to keep adequate forces of touil tappers.

The year was a ; of one for fruit everywhere. There were also good crops of nutness and cloves in Fenanc: but the Fenang nutnes industry has ANDEM leasyed badly, and the aleve industry is suffering also The clove & mitnes- area nut perions are nearly all planted through with rubber which can hardly be expected F32/42

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to pay. The expert of Areas nuts from Penami has also decreased: the prices are slightly better than in 1917; but perhaps not sufficiently to compansate for the greater cest of harvesting and drying.

Ride in the 1917-18 crep was excellent and the rice hand were very fully planted but the crop of the season 1918-18 is disappediating. In some places as the ceastal lands of Macca and parts of Prevince Vellestey it is excellent. In other parts it was planted too late and in the interior of Malacca there are noise hundreds of acres without any crep at all, in annuarcan y the culticator baitany for nain which Ad unitance.

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