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實業部中央農業實驗所農業經濟科估計

DEPARTMENT OF AGRICULTURAL ECONOMICS THE NATIONAL AGRICULTURAL RESEARCH BUREAU MINISTRY OF INDUSTRIES NANKING, CHINA

實業部中央農業實驗所為明瞭全國農業情形起見 > 特辦理会國農業情形調查 估計。此種調查,包括各會主要臭嚴之收穫豐數,及各地與村經濟之與衰事實。 現 報 告員人數建六千餘 人,縣心協助; 分佈區 域, 宣二十二省一千二 百餘縣之廣 ,關查之結果,於學月一日發表報告一次,以 供關心農業者之參考。

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- 2. 民國二十三年各省主要各季作物產量 2. PRODUCTION OF WINTER CROPS 四次估計
- 3. 近六十年中國耕地面積增減之趨勢

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定價每期大津一角都費在內 歡迎轉載

實業部中央農業實驗所農業經濟科估計

1. 民國二十三年各省主要夏季作物產量二次估計

甲. 收量預測

(單位 1,000 市担,1市担=100 市斤)

1. PRODUCTION OF SUMMER CROPS 1934. SECOND ESTIMATE

A. Expected Production

(Unit: 1,000 Shi piculs, 1 picul = 100 Shi catties)

*	名	No. of Histens Reported 報告轉載	私複殺 Rice	權 稽 Glutin- ous Rice	高 檠 Kaoliang	小 米 Millet	魔 子 Proso- millet	玉 米 Com	大 豆 Soybeans	甘 薯 Sweet Potatoes	梯 花 (皮花) Lint Cotton	花 生	芝 崑 Sesame	赛 葉 Tobacco	Province
寒哈	M	7	-		3,827	4,330	1.074	124	784				.—		Chahar
級	進	9	— !	—	1,555	1,616	3,316	650	209	· —			_	\ i	Suiyuan
**	X	5	130	22	299	504	856	-	36	-	_	_	_		Ninghsia.
Ħ	産	18	154	245	1,711	4,475	7,063	2,401	1,239	1,114	_		6		Kansu
陜	西	46	4,649	1,140	2,095	4,446	3,69 5	5,432	1.091	2,858	722	367	301	_	Shensi
벥	24	82	6 8	40	9,300	15,359	4,087	6,314	2,075	1,684	713	218	704	380	Shansi
柯	北	109	· —	_	19,549	29,563	5,333	23,403	8,075	26,721	3,064	10,936	2,429	401	Hopei
14	東	86		ļ <u> </u>	35,196	41.167	4,433	13,448	30,829	48,484	1,655	13,252	2,462	942.	Shantung
ìT	群	54	62,295	8,846	12,786	3,381	869	9,096	18,268	18,006	2,974	6,382	2,015	30	Kiangsu
安	歡	35	23,439	2,067	7,063	691	136	981	10,588	8,104	343	1,956	1,704	450	Anhwei
河	甫	73	7,664	1,410	22,743	26,945	2,003	13,587	20,319	59,507	1,738	7,397	6,382	1,535	Honan
繝	北	20	43,947	4,010	4,322	3,795	152	6,019	5,470	7,567	1,776	2,222	1,075	207	Hupeh
24	л	49	125,222	11,772	11,902	5,189	1,124	22,589	11,600	44,732	866	7,957	1,026		Szechuan
	南	18	42,779	4,521	1,856	320	213	5,553	3,873	6,762	-	459	44	-	Yunnan
黄	Ħ	13	26,569	4,432	1.194	- 757	268	4,046	3,044	2,720	-	1,184	67		Kweichow
剳	臍	33	61,939	4,015	1,410	413	44	526	2,088	19,327	365	1,608	106	729	Hunan
江	酉	19	37,640	4,219	152	2,031	<u> </u>	487	4,285	6,058	147	1,552	758	212	Kiangsi
新	ì	47	47,725	5,940	121	292	38	805	2,772	4,408	479	511	131	149	Chekiang
麗	建	17	33,652	5,607	23	282	–	_	1.135	30,812	43	2,586	-	511	Fukien
費	東	37	152,751	8,062	159	660	79	837	2,143	35,110	10	7,692	73		Kwangtung
#	計	777	670,620	66,348	137,263	146,216	34,783	116,298	129,923	323,974	14,895	66,279	19,283	5,546	Total, 2nd estimate
第一次	估計	791	589,694	68,890	140,220	145, 964	35,610	117,045	130,597	321,348	17,371	66,021	18,767	5,472	Total, 1st estimate

每市斤合 0.837779 奮翻斤→敢 0.50 公斤。

上表整量估計,係根據本年九月份七百七十七縣之 及情報告員報告,及第一次估計之夏季作物植植题積, 按縣掛算而得。凡無報告之各縣,則按其鄰縣報告之平 均數推算之。

本年夏季作物產是第二次估計 > 如與第一次估計相比較,除小米,甘書,花生,芝薫,菸葉等次要作物略有增加外,其他主要作物若稻,高聚 > 玉米 > 大豆 > 株花等均屬減少, 登因本年秋季 學 整 為 應 > 至九月早泉尤見顯著所數,但因各會關情形懸珠,故產量亦有轉佳者。

One Shi carty is equivalent to 0.837779 Peking standard carty, or 0.50 Kilogramme.

The above estimates are based on the crop conditions as reported in September from 777 hsiens and on the first estimate for acreage published in September. The estimates are first made by hsiens; and for those hsiens where information is not available, the average of the reports from their neighboring hsiens is used.

The second estimate for the production of summer crops this year as compared with the first estimate shows a decrease in the expected production of the major crops like rice, kaoliang, corn. soybeans, and cotton but a slight increase in the minor crops such as millet, sweet potatoes, peanuts, sesame, and tobacco. Although the drouth continued in September and even became more severe in some places, in other places it was broken by rain and a better crop is expected in such localities.

皇情報告 第二年 第十二期

實業部中央農業實驗所農業經濟科估計

1. 民國二十三年各省主要夏季作物產量二次估計

PRODUCTION OF SUMMER CROPS 1934, SECOND ESTIMATE (Continued)

乙. 收穫成數當十足年之百分比

B. Expected Yield Expressed as a Percentage of a Normal Year

省	名	和複稿	權 稿 Glutin- ous Rice	高 梁 Kaoliang	小 米 Millet	旗 子 Proso- millet	€ *	大 豆 Soybeans	甘春 Sweet Potatoes	檐 花 Cotton	花 生 Peanuts	芝 魔 Sessine	苏 素 Tobacco	Province
察哈	解	_	· -	67	67	6 5	61	54	<u> </u>	—	_			Chahar
級	建	_	-	59	54	59	57	50	_	- .	_	-	_	Suiyuan
蒙	夏	65	60	76	61	65	_	70		–	- "		- 1	Ninghsia
甘	獙	61	65	55	62	64	64	59	55	-	_	49	-	Kansu
陜	西	69	62	56	57	57	58	49	63	48	56	45	-	Shensi
此	西。	69	69	69	69	64	67	62	71	63	63	64	68	Shansi
河	北	-		67	63	6 t	61	53	67	6 5	65	59	62	Hopei
山	東	 		65	71	68	65	68	76	66	- 74	69	70	Shantung
ŗ	蘇	.56	\$6	59	. 72	70	52	43	6 0	53	60	64	6 5	Kiangsu
安	歡	36	35	48	45	1 . 44	39	47	46	42	54	57	50	Anhwei
河	南	57	64	60	64	48	60	57	67	59	62	61	51	Honan
獭	北	42	41	58	61	53	54	47	49	47	58	\$3	47	Hupeh
24	M	69	64	69	65	59	70	69	64	62	64	62	_	Szechuan
	南	73	75	74	69	70	64	74	75	— s	75	69	_	Yunnan
*	州	67	66	60	67	64	66	70	59	-	63	59	–	Kweichow
靭	南	49	45	49	49	41	41	47	46	39	42	50	53	Hucan
ìI.		38	39	27	49	· –	43	52	44	37	40	35	58	Kiangsi
新	紅	41	42	39	44	41	38	41	38	46	42	45	41	Chekiang
M	建	69	72	68	63	-	-	75	69	80	77	_	78	Fukien
*	東	75	75	73	77	80	75	71	75	73	76	71		Kwangtung
加權	平均	55	57	63	64	61	59	55	63	56	62	59	61	Weighted Average

按九月份之夏季作物生品情况報告,各省平均收穫,尚不及「十足年」之六成,約合平常年之七處左右。

按上表 > 我國本年夏季作物之收穫 > 以屬盡 > 廣東 > 廣西 > 雲南等省為最佳 > 約有十足年之七處以上 5 次為山東 > 河北 > 山西等省 > 約有十足年之七成之右;再次為江麓 > 河南 > 陕西 > 甘肃 > 青海 > 曾夏 > 按溫 > 探哈爾 > 及四川,贵州 等者 > 約有十足年之 > 超左右 5 英位新红 > 安徽 > 江西 > 初北 > 湖南等省最低,催有十足年之四五虞副已 。

本年夏季作物因學歌教之成數及數量》為已先後 發表於本刊第二年第九,十,十一各期,情以報告學 英之時期與報告本年作物歌成之時期有先後之則,歌 開者數字時有出入。又學與調查作物歌教之數量,係 與平常年之教與敬量相比較,非與十足年相比較,認 簡者抽象及之。 According to the crop conditions as reported in September, the expected yield of all the summer crops averages under 60% of the normal year, or about 70% of the average year,

From the above it is seen that the yield of the summer crops this year is best in Kwangtung, Kwangsi. Yunnan, and Fukien, where there is an expected yield of over 70% of the normal. In Shantung, Hopel, and Shausi, there is an expected yield of about 70% of the normal; while in Kiangsu, Honan, Shensi, Kansu, Tsinghai, Ninghsia, Suiyuan, Chahar, Szechuan, and Kweichow, it is about 60% of the normal. The expected yield is poorest in Chekiang, Anhwei, Kiangsi, Hupeh, and Hunan, where it is only about 40-50% of the normal.

For the damage to the summer crops by drouth, reference may be made to the drouth studies appearing in Vol. 2, Nos. 9, 10, and 11. However, attention should be called to the fact that the dates of reporting differ and that the percentage of damage by drouth was compared with the average year's yield while the production estimate was calculated from the normal yield.

農情報告 第二年 第十二期

2. 民國二十三年各省主要冬季作物產量四次估計

甲、收穫數量。

(單位: 1,000市担,1市担=100市斤)

實業都中央農業實驗所農業經濟科估計

2. PRODUCTION OF WINTER CROPS, 1933-34, FOURTH ESTIMATE

A. Amount Harvested

(Unit: 1,000 Shi picula: 1 Shi picul=100 Shi catties)

省	名	報告縣數 No. of Hsien	小麥	大多	秀 豆	重豆	油茶籽	燕声	Province
		Reported	Wheat	Barley	Peas	Broad Beans	Rape Seed	Onts	1107.20
新	T	6	2,718	4,145	1,384	637	592	1,734	Chahar
級	運	10	2.759	1,274	1,695	895	629	6,029	Suiyuan
幣	夏	6	1,129	114	278		_	58	Ninghsia
Ħ	意	19	9,279	2,6 03	1,546	399	1,827	821	Kansu
陜	四	47	24,114	5,527	3,963	302	1,921	84	Shensi
tp:	西	79	25,541	3,922	1,891	423	713	2,577	Shansi
河	老	106	40,440	5,010	1,277	259	490	410	Hopei
功	東	76	67,821	8,629	2,191	168	465	262	Shantung
Ħ	鼖	51	56,316	37,185	6,978	7,804	3,329	2,959	Kiangsu
安	歐	37	27,116	9,150	6,475	1,560	3,905	207	Anhwei
河	闸	66	88,252	18,050	11,288	388	1,891	329	Honan
翻	北	24	15,213	19,943	4,060	6,189	5,552	1,368	Hupeh
맫	70	60	30,056	18,656	16,457	12,452	16,108	2,213	Szechuan
震	南	19	5,753	2,858	3,058	10,129	1,723	_	Yunnan
費	州	14	5,862	4,727	1,203	1,391	1,909	· -	Kweichow
靭	南	29	6,286	3,934	1,464	3,673	6,185	· <u>-</u>	Hunan
江	陞	21	8,136	3,683	1,237	1,816	9,603	_	Kiangsi
新	红	47	7,826	6,851	731	4,433	4,901	_	Chekiang
NI.	滋	. 14	4.728	3,165	438	1,229	835		Fukien
齎	東	12	. 5,830	6,463	713	1,479	3,120	_	Kwangtung
Ħ	計	743	435, 175	165,889	68,327	55,626	65,698	19,051	Total
三乡	估計	730	448,640	171,936	70,923	56,000	69,239	17,254	Total, 3rd, Es
	估計	699	470.748	178,099	71,824	56, 213	68,265	16,219	Total, 2nd. E
· — 🦻	传针	709	485,617	173,276	73,760	57,565	71,737	16,644	Total ist. E

學厅市會 0.837779 書體戶 > 填 0.50 公斤 。

上表數字。係根據本年八月份之報告。及第二次估計之冬季作物權權面積。按賴推算而得。其未設有報告員之各難。則以其鄰難所報告之平均數推算之。

本學 度冬季作物之種種簡積及重量估計, 含有量 後修正一次, 不久即可養美。

本年度之冬季作物產量,按照表複裝情形,除藥 遊禮有者加外,其能作物,物裝飾三次估計數字,將 遊減少。小遊之產量,裝第三次估計,減少約一千三 買馬審組,其中都以河灣一會買驗,減少已在一千馬 非担私上。 One Shi catty is equivalent to 0.837779 Peking Standard catty, or 0,50 Kilogramme.

The above estimates are based on the crop-conditions as reported in August and on the second estimate for acreage published in June and have been calculated by haiens. For those haiens where no information is available, the average of their neighboring haiens is used.

The final revision of the estimate of the acreage and production of winter crops this year is just under way and will be published in the following issues.

The fourth estimate for the production of winter crops shows a decrease in the harvested yield as compared with the expected yield in the former estimates except in the case of cats. There is a difference of 13 million Shi piculs between the third and fourth estimates of wheat production; of this amount Honan alone shows a decrease of 10 million Shi piculs.

農情報告 第二年 第十二期

實業部中央農業實驗所展業經濟科估計

2. 民國二十三年各省主要冬季作物產量四次估計

2. PRODUCTION OF WINTER CROPS, 1933-34. FOURTH ESTIMATE

(乙) 收穫成數當十足年之百分比

3. Harvested Yield Expressed as a Percentage of the Normal Year

省	名	小事	大多	斑 豆	置 豆	油菜籽	※ ※	Province
	7	Wheat	Barley	Peas	Broad Beans	Rape seed	Oats	
来 哈	幫	56	64	73	58	. 58	70	Ch shar
ią.	建	66	69	63	66	- 70	74	Sulyuso
*	X	80	89	76	-	-	63	Ningh ia
Ħ	章	67	64	52	56	66	62	Kansu
陜	蓝	71	72	65	59	61	62	Shensı
Ш	甦	69	69	63	65	65	66	Shansi
শ্ব	私	55	58	57	63	59	63	Hopei
lli	概	66	68	66	66	68	64	Shantung
ì	蘇	75	74	66	66	6 6	73	Kiangsu
安	散	74	76	71	68	68	61	Anhwal
ন্য	閉	59	62	; 63	6 0	60	74	Honan
貓	北	61	67	59	6 3	62	95	Hupeh
	Щ	80	78	73	74	73 `	69	Szechuan
蓬	闸	71	73	68	69	66	_	Yunnan
歡	州	73	70	64	66) 70 	_	Kweichow
劉	闸	70	68	69	74	67	-	Hunan
江	Ø	67	60	72	71	75	<u> </u>	Kiangsi
断	江	68	70	62	62	69	· -	Chekiang
延	嵩	76	72	81	81	80	: 	Fukien
*	欺	70	69	85	79	82		Kwangtung
加模	平着	68	68	66	67	67	68	Wt. Average

上表收穫或數) 當十足年之百分比) 保按各縣所報告之藏數 > 平均計算前得 o

本年度各種主要冬季作物之收穫咸致,各省平均 ,約當十足年最之七成獨 n 然若按者分別提際之,則 鄉中鄉稱各者考較率北為佳,因本年鄉北一帶,早春 集長黃為鄉倫,且多河水,再繼以夏季乾旱,這收穫 時值受風血等災,故作物之收慮不及往年這茶。

小學之收穫;在學北主要重要者從;特易飲收; 然河北者鎮得五歲五;山東者鎮得六歲六;接前者領 得五歲九;其住若大學;跨亞;震亞;治藥好等在該 三者區域內;收歲亦與小學相似。 Each percentage above is an average of the percentages reported for the haiens,

From the above it is seen that the harvested yield of the winter crops averages not quite 70% of the normal year. The provinces situated in central China and south China all show a better crop than those in north China. This is due both to the fact that the cold and wet spring was followed this year by a drought and to the fact that the crops were damaged by the wind and the insects during the harvesting stage.

The wheat yield is rather poor in the three main wheat-producing provinces of north China. Hopei, Shantung, and Honan, where the yield is only 55%, 66%, and 59%, respectively, of the normal. In the same provinces, the yield of the other crops-like barley, peas, broad beans, and rape seed, is poor, too.

身情報告 第二年 第十二期

8. 近六十年中國耕地面積增減之趨勢

長項制度, 傑水年二月開全國各者集情報告員所報告 o 由全陸大學與潛起撰奉系爾咨明教授主持提到 , 並集到分析, 每此附續。

第一表

實業部中央農業實驗所農業經濟科估計

3. CHANGES IN THE AREA OF FARM LAND IN CHINA DURING THE LAST SIXTY YEARS

The following information was obtained in February, 1934, by the crop reporters of the National Agricultural Research Bureau. The Bureau is indebted to Professor Chi-ming Chiao of the Department of Agricultural Beonomics, the University of Nanking, for his valuable services in planning the survey and in analysing the data.

Since land utilization and land distribution are fundamental problems in the field of agricultural research today, land statistics are needed for a study of their solution. In China such statistics are not so complete and accurate as they are in other countries; hence, in discussing land problems different conclusions have often been reached. Some people have maintained that farm land in China is increasing, while others have argued that it is diminishing. Without accurate, nation-wide figures it is impossible to settle this question. The present study is the result of an analysis of 1,532 reports from twenty-two provinces of China.

Table 1.

*	11,	1435	100	101	161	101	101	100	100	Total
<u> </u>	H		100	105	117	123	105	111,	105	Kwangsi
	*	38 59	100	101	101	102	101	100	101	Kwangtung
	}			1 -		•		· 70	87	Fukisa
	12	25	100	76	92	91	96	96	107	Cheking
R:	tt	38	100	102	73	78	102	74 71	97	Kinngsi
ir.	Til.	29	100	99	93	91	99	101 94	98	Hunan
	100	41	100	88	89	88	88		801	Kweichow
R	#1	22	100	115	121	130	115	105	405	مید
_	TA.		100	111	133	131	111	120	99	Yunnan
	瀬	28	100	102 1	104	110	102	105	106	Saechuan
	走り	23 6 5	100	104	1:09	128	104	105	118	Hupeh
T .	-	∤38	100	99	117	115	99	118	99	Honan
乾	1	59	100	196	107	- 107	. 106	101	- 100	Anhwei
_	_	***	.00	101	102	110.	101	101	108	Kiangsu
- 1		117	100	101	105	99	103	102	94	Shantung
L.		182	100	103	100	98	98	103	98	Hopei
4	*	410	100 100	103 98	110	110	103	106	101	Shansi
) (A)	E E	68 138	100	98	95	91	98	96	96	Shensi
_						{	110	100	101	Kansu
k k		27	100	116	117	118	116	104	116	Tainghai
	襣	-13	100	169	175	203	100 169	102	97	Ninghaia
ŧ	X	3	100	100	102	99	1	97	95	Suiyuan
	18	10	100	95	93	104 88	104 95	108	93	Chahar
第 哈		8	100	104	112	: 	(1873=100)			
		Reports	1873	1893	1913	1933	1893	1913	1933	
		110, 01	华曹	华前	44.	二 年 年 年	档 十 九 年		÷100}	ı
2	5	No. of	= #	九年	= #		九年	= 1	十二	
		歉	" + +	*** + +	3 +	÷	+ =		= =	Provinc
			135	# -	_		# 治	民 端十九	2 3	
		fb	剛 余	龙凰	奥 三	兵兵	光屑	风	禹 展	
省	ì	報告	Fai	ran i sand Inden	with Fixed E =100)	31 80		Index with M indicated bel	-	
		الطحا		(国治十二	一度 定 基 - 年 = 100)		耕地	_ T i		

[·] 通教行行之前通告处,保由会中提之二十二会的 通管限期数许其回路。

The indices for Them are calculated directly from the total area of farm had in the 22 provinces.

—117—

第二表

Table 2.

		<i>373</i> 32.								
名	1	報 份 數 No. of Reports	Size of ordinary farm (mow) 特權之畝數	% of land area t uncultivated 被之百分率	% of uncultiva- ted land area arable arable 的基本地佔筑地	% of land area uncultivated but arable 编辑表之百分率 可變來地佔土地	Province			
赛 哈		_8_	45 <u>.0</u>	75.0	57.0	42.75	Chahar			
极	違	10	128.0	34.5	\$7.1	19.70	Suiyuan			
撘	X	3	39.5	53.3	21.7	11,57	Ninghsia			
青	海	13	39.0	18.0	43.0	7.74	Tsinghai			
Ħ		27	38.5	. 17.8	15.8	2.81	Kansu			
陜	鹰	68	38.4	19.7	23.0	4.53	Shensi			
ili	酉	138	41,5	13.8	27.7	3.82	Shansi			
河	老	410	31.6	12.0	26.2	3.14	Hopeh			
邟	東	182	29.3	16.9	36.9	6.24	Shantung			
江	群	167	21.1	12.2	20.0	2.44	Kiangsu			
安	歌	59	27.6	12.0	34.8	4.18	Anhwei			
河	南	138	35.5	11.5	26.3	3.02	Honan			
33	北	23	17.8	17.8	39.2	6.98	Hupeh			
24	Вİ	65	20.8	16.7	22.9	3.82	Szechuan			
#	南	28	13.3	20.0	50.0	10.00	Yunnan			
隶	州	22	14.0	21.0	33.0	6.93	Kweichaw			
獭	甫	41	18.9	22.5	50.9	11.45	Hunan			
a	西	29	21.1	17,9	28,5	\$.10	Kiangsi			
糖	江	38	-15.2	9.8	19.5	1.91	Chekiang			
14	*	25	15.6	20.8	46.7	9_71	Fukien			
唐	東	38	13.7	16.2	48.5	7.86	Kwangtung			
廣	西	50	12.9	17.2	17.9	3.08	Kwangsi			
≱ n #	平均	1532*	30.2	19.1	33,3	6,36	Weighted Aver			

[†] 土地維面積係指揮查表內所列各義告區域中之**死** 熱田地塩業費の

* Total number of reports,

The indices given in Table 1 throw some light upon the trend of farm land changes in China during the last sixty years. Under the Farm Land Index with Fixed Base (year 1873) the index for China in 1933 is 101; in other words, during the past sixty years China has increased the area of her farm hand 1%. Again, under the Farm Land Index with Moving Base the trend in more evident when comparing one period with another. As an example, the index for China in 1893 is 101; that is, during the twenty-year period, 1873-1893, China's farm hand increased 1%, In 1913 and 1933 the indices are 100; that is, during the twenty-year periods, 1893-1913, 1913-1933, so changes occurred in the area of farm land, the amount remaining the same.

^{*} 植告之雄数。

[†] Land area designates the total amount of land whether cultivated or uncultivated in the districts reported.

農情報告 第二年 第十二期

一般人士,以爲我國地大物博,只須從事開墾, 便可增加耕地,解决人口過剩問題,執不知今日我國 人口,為分配問題,而非爲數量問題。移民關鹽,因 腾要策 , 而返 观國内人口尚是逐年增加 , 即以最近六 十年而論,已增加百分之三一,至於耕地面積在六十 年中只增加百分之一,兩相比較,相差頗巨。其主要 原因,與非農人不肯開墾荒地,實則是項錫地;多不 **適於耕種, 觀上第二表便可瞭然 o 近學以來, 多數人** 士竭力提倡移墾四北,夫四北固多荒地,但其中可開 盤者, 踏亦屬塞容無強 o 試 題上表 (第二表) > 以全國 論 > 荒地儀佔土地面積 (報告員所在地)之百分之一 九。一、若再間其可盤之荒地、儀不過百分之六。四 而已。郭以此百分之六。四作爲可利用之地,則其利 用之是否有利,仍屬疑問,至於土地所在地之自然很 境等因不能不知以考虑者也。加以西北氟侯寒冷,水 凝缺乏,即有大好赎野,利用之亦履不易易。再数其 **翰各省,雖有未墾土地,大都零星分散,爲用亦不唐**

雄之,会國土地一方以開墾零星荒地而增加,一 力又因水旱兵匪各增而荒溺,於是實際上所增加者, 建進得百分之一。然此百分之一耕地,亦非近年以來 所增加,否人若詳察第一表中之移動指數,即可知其 土地增加乃爲國十平以前事也。由此 概之。可知今後 荒地之可謂幾者,似蓋有限,我國人口過親词題因非 僅謂銀荒地一場所可解失者也。

A general review of the farm land indices for China during the last twenty years shows that the area of farm land in China is neither increasing nor diminishing. In considering the changes by provinces, however, some show an increasing and others a decreasing. area. For instance, in Tsinghai, Szechuan, Hupeh, Kiangsu, Chekiang, Kwangsi, and Kweichow Provinces, the population has been increasing during recent years (see Crop Reports, Vol.2, No. 5), and most of the arable land has been brought into cultivation. thereby increasing the area of farm land. In Suiyuan, Chahar. Ninghsia, Shensi, Hopei, Shantung, Kiangsi, Hunan, and Fukien Provinces, there has been a decrease in the amount of farm land, In Suivean, it has been due mainly to bandits, floods, and drought, In Shensi and Kansu, there has been much suffering from drought. especially in 1929-1931 when many of the people emigrated or died. In Shantung and Honan, the people have suffered from floods and drought, war and bandits, and excessive taxation; and, for these reasons, they have been forced to abandon farming for other pursuits. Furthermore, the over-flowing of the Yellow River has deposited sand and gravel on the farm land, making it unfit for cultivation. As for Kiangsi and Fukien, their decrease in farm land area is due to the recent trouble with the communists. (Table 1)

The prevailing belief that China has large areas of land that can be cultivated, thereby solving the population problem, is too optimistic. It is recognized, however, that the problem must be approached from the standpoint of distribution. Colonization and the cultivation of arable land are considered as important solutionsto the problem, but such can be only temporary measures as population growth is continuous. Duting the last sixty years, for instance, the population has increased 31% whereas the area of farm land has increased only 1%. It is evident that a vast area in China cannot be profitably tilled (see Table 2), and its utilization in other waysis somewhat doubtful. Colonization in the Northwest has been frequently urged, but the question is whether or not the uncultivated areas could be profitably tilled. According to Table 2, 19.1% of the land area covered by the survey is not already under cultivation, and only 33.3% of this amount is fit for cultivation: in other words only 6.4% of the land area covered by the survey is arable but, at present, uncultivated. Even in attempting to make use of this arable land, one must consider all the aspects of the farming industry and decide whether or not such land can be farmed with profit.

During the last sixty years, two forces have been at work. On the one hand, new land has been brought into cultivation and, on the other, previously-farmed land has been abandoned because of floods, drought, war, and bandits. As a result, the net increase in the amount of land brought into cultivation is only 1%; and this increase occurred during the first twenty-year period, or 40 years ago (see Table 1). In conclusion, it might be stated that uncultivated arable land in China is limited and, consequently, its utilization is not the chief means of solving the problem of China's dense population.

附 錄 APPENDIX

全國六九一農事機關調查

A SURVEY OF 691 AGRICULTURAL INSTITUTIONS IN CHINA

As no study had been made of the agricultural institutions in China, the National Agricultural Research Bureau undertook such a survey in November, 1933. A questionnaire was sent to all the agricultural institutions whose address was known, and extra copies were inclosed with the request that they be forwarded to those institutions whose address might not be known by this Bureau. The questionnaires asked for such information as the date of inauguration and other historical details, the scope of work, the annual budget, the source of revenue, the equipment, publications, and staff. Of the 983 blanks sent, 691 had been filled in and returned by September 30, 1934. The study is being continued in order to have a complete report of all the agricultural institutions in China, and follow-up blanks are being prepared to send to those institutions that did not answer the original request. A glimpse into the 691 agricultural institutions that have reported is afforded by the following tables.

第一表

Table 1

			食 本 機 調 設 立	注性質别	Agr. Institutions cl to main source	assified according of Support		Province
省 市	胡	图 立 Nation	者 立 Province	路 立 Hsien	起 立 Private Individuals	Associations	合 計 Total	and Municipality
南京	市	16	3	2	3	5	29	Nanking Mun
江	燕	8	86	57	27	1	179	Kiangsu
實	東	10	26	53	4	3	96	Kwangtung.
ដ្	東	7	28	12	6	4	57	Shantung
鲂	红	4	34	9	6	–	53	Chekiang.
M	北	5	18	6	11	5	45	Норей
75	甫	1	23	13	3	· —	40	Honan.
安	歡	l –	18	4	-	4	26	Anhwei
14	鹰	_	20	3	1	 -	24	Shansi
奇	西	-	22	–	_	-	22	Kwangsi:
ht.	酉	1	20		_	_	21	Kiangsi.
B	啪	–	8	4	5	3	20	Hunan
ŭ,	建	_	5	6	5	3	19	Fukien
	北	-	10	1 .	_	1.	12	Hupeh
X	西	- .	6	1	2	2	11	Shensi
덬	भ	_	5	2	2	1	10	Szechuan
æ	盆	_	6	-	i	1	8	Suiyaaa
R .	州	-	\$	1	-	- ·	6	Kweichow
	間	l –	5	<u> </u>		-	5	Yunnan
集 哈	育	_	4	<u>-</u>	_	-	4	Chahar
Ħ	*	_	3		_	-	3	Kansu
Ħ	海		i	<u> </u>	_	<u> </u>	1	Tsinghai
推	計	52	356	174	76	33	691	Total
を観覚さ	百分字	7.5	51.5	25.2	11.0	4.8	100	%

(政明装下页)

(See next page for explanation,)

親上表知農事機關以江蘇省為最多,廣東山東新江等省次之。南京市為首都所在地,故國立之機關,佔最多數,如中央農業實驗所,中央大學農學院,全國經濟委員會農業處,行政院農村復興委員會,中央模範林區,中央協產收進所,中央農業推廣委員會等;邁附農學員會等;邁附農學員會等;邁附農學員會等,與在內,共計有十六所之多。至實立及私立之農事機關之數,雖較其他各省為多;然較之江蘇,則與東部對之數,雖較其他各省為多;然較之江蘇,則與東部對之數,雖較其他各省為多;統較之江蘇,則與南灣之數,雖較其他各省之農事機關中,就設定之性質而為一個之數。

From the above table it is seen that Kiangsu leads in the number of agricultural institutions being followed by Kwangtung, Shantung, Chekiang, and so forth. The capital is at Nanking, and probably for this reason sixteen of the twenty-nine institutions there are supported by National Government. Among these are the National Agricultural Research Bureau of the Ministry of Industries, the Bureau of Agriculture of the National Economic Council, the College of Agriculture of the National Central University, the Farm Rehabilitation Committee of the Executive Yuan, the Central Cotton Improvement Institute of the Cotton Industry Commission of the National Economic Council, and others. As to the number of provincial, hsien, and private institutions, Kiangsu again leads although Kwangtung, Shantung, and Chekiang also have a large representation. The border provinces, however, such as Tsinghai, Kansu, Chahar, and Yunnan, have only a small number of agricultural institutions; and the few that they have are supported by provincial funds. Among the 691 institutions studied, 51.5% receive their main support from the province, 25.2% from the hsien, and only 7.5% from the National Government.

第二表

Table 2.

		百分司	14,2	6.2	49.3	39,4	4.9	2,0	2.6	160	%
*		Ħ	98	43	278	210	34	14	14	691	Total
*		*	_			1	<u> </u>		<u> </u>	1	Tsingbai
Ħ		塩	1	<u> </u>		1 .	_	<u> </u>	} 	3	Kansu
胀	蛤	R	1	_	2	i	<u>-</u>	<u>-</u>	-	4	Chahar
#		蔣	1	-	<u>-</u>	3	<u>-</u>	1	, · · · · -	5	Yunnan
貨		州	_	-	2	3	, –	-	1	6	Kweichow
絞		这	! —	<u> </u>	6	1	_	· -	. 1	8	Suiyuan
M		м	4		i j 4	1	1	<u> </u>	. —	10	Szechuan
陕		Ħ	. 2	<u> </u>	7	, 2		:	· —	11	Shensi
御		走	1	_	; 2	. 6	: 3	·	<u> </u>	12	Hupeh
es.		驱	7		9	3	<u> </u>	· _	→	19	Fukien
**		崩	5	-	12	2	_	1	· —	20	Hunan
江		西	5	<u> </u>	10	4	1) —	. 1	21	Kiangsi.
廣		酉	1	–	14	7	-	<u> </u>	<u> </u>	22	Kwangsi
Ш		Duj .	6	-	1 11	7	. —	· ·		24	Shansi
安		徽	3 ·		12	8	2	1		26	Anhwei
N		南	12	<u> </u>	18	10	·	· !	_	40	Honan
河		北	5	1	28	 11	<u> </u>	! –	_	45	Hopei
新		ar.	6	_	17	i 19	9	i —	2	53	Chekiang
ijι		聚	8	3	28	10	1	2	5	57	Shantung
庚		東	11		39	42	1	<u>,</u> 3.		96	Kwangtung
江		***	16	37	46	60	15	1	4 .	179	Kiangsu
	京		3	2	10	8	1	5	–	29	Nanking M
	市	\$II	農業教育 Education	農民數肯 Rural Education	夏業研究 Research	殿業行政 Administra- tion	農業金融 Rural Finance	農業 期體 Associations	其 他 Others	合 計 Total	and Municipality
		j	J	良 事 概 男	植類	Agr. Institu	tions classified	l according to	scope of work	:	Province

(数明整下页)

(See next page for explanation)

實業部中央農業實驗所農業經濟科估計

性: 農業教育機關係包括農學院,農科大學,高級 減初級之農科職業學校,權村師範纂校,農科輔智學 校以及各種農事指導人員養處所等。

並民歌市機關係包括農民教育館及農民夜校等。

農業研究機關係包括農業實驗所,農業收頁場, 農事試驗場,土擴肥料或品良研究所,農具製造所, 血清製造所,置種製造所以及公立或私立之農業研究 食等。

農業行政機關係包括全國經濟委員會;林務局; 林錫區署,農業建設局,農村服務為,農業推廣所, 農難推築所,塑鍊取締所以及農業促進委員會等。

農業金融機關係包括農民銀行,農村金融教務處 及皇民借貸所等。

農業團體係包括合作社聯合會,及團體組織之農 集會,農業改造會,養鶏養蜂協會等。

其他一項係包括私人及團體證督之農林楊等。

Note: The following is an explanation of the terms used:

Under Education are included agricultural colleges, agricultural short course schools, agricultural technical schools, training schools for rural workers, and so forth.

Under Rural Education are included day or night schools for teaching the farmers.

Research refers to such institutions as agricultural research buteaus, agricultural experiment stations, soils and entomological research laboratories, sericultural institutions, and the like, whether under private or government control.

Administration refers to such organizations as the National Economic Council, reforestation stations and bureaus, extension committees, and other such groups that exist for the promotion of scientific agriculture.

Under Rural Finance are included rural loan banks, rural credit organizations, and the like.

Associations include federations of cooperative societies, chicken-raising societies, bee-keeping societies, and so forth.

Others include those privately owned stations or nurseries which operate on a commercial basis.

第三表

Table 3.

			良事资	斯 框 第	Į.	Agr	. Institution to sco	ecording	Main Source	
設立性	重質	農業数 省 Education	皇民教育 Rural Education	農業研究 Research	皇業行政 Admini- stration	農業金融 Rural Finance	農業期間 Associ- ations	其 他 Others	合 計 Total	of Support
ji	立	5		32	14	-1	_	_	52	Nation
套	立	55	7	131	133	24	_	6	3\$6	Province
K	立	18	35	61	50	8	_	2	174	Hsien
杠	立	19	_	47	3	į t	_	6	76	Private Individua
		1	1	7	10	_	14	_	33	Associations
	#	7 8	4	278	210	34	14	14	691	Total

第四表

Table 4.

			經	費	Budgeted ex	penses			
設立	性質	黄酸	(元) Amou	nt (\$)	Ē	分 數	%	Main Source of Support	
		起常費 Annual	医畸变 Contingent	校計 Total	経常費 Annual	旋 時 — Contingent	抱 計 Total		
画	立	8,638,641	691,814	9,330,455	42.3	3.4	45.7	Nation	
查	立	6,309,804	1,386,851	7,696, 655	30.9	6.8	37.7	Province	
麒	立	839,806	92,148	931,954	4.1	.4	4.5	Hsien	
杠	立	1,492,978	237,045	1,730,023	7.3	1.2	8,5	Private Individuals	
	#2	479,567	268,697	748,264	2.3	1.3	3.6	Associations	
總	돰	17,768,796	2,676,555	20,437,351	86,9	13.1	100	Total	

第 五 表

Table 5.

設立	性質	實	現 有 数 Nur	職 員 J	数 Staff members 再分数%			學 生 數 Students	會員數 Members of	Main Source of Support
		技術人員 Technical	事務人員 Clerical	總 計 Total	技術人員 Technical	事務人員 Clerical	總 計 Total		Associations	
鰋	立	811	339	1,150	10.5	4.4	14.9	1,065	122	Nation
書	立	2,719	1,652	4,371	35.4	21.5	56.9	8,083	11,956	Province
縣	立	528	366	894	6.9	4.8	11.7	6,779	6,513	Hsien
私	立	5 75	409	984	7.5	5.3	12.8	4,240	88	Private Individuals
=	8	151	128	279	2.0	1,7	3.7	401	2,869	Associations
糗	計	4,784	2,894	7,678	62.3	37.7	100	21,288	21,548	Total

上表所列 整要中尚有四十八機關未會確實填註,故不能全部列入,其未經填註之機關計有全國經濟委員會,行政院 農村復興委員會,實業部青島商品檢驗局濟南檢驗為,國立浙江大事農學院,山東大學農學院,河北提與治模範溫激揚,中國農工銀行杭州分行等,其餘均爲較小之機關。

製上表知全國六四三橋開合計每年經常喪臨時喪 為二千萬以上,其中以嚴立機獨之經費最多,省立次之。至職員人數中技術人員佔四千七百八十餘人,而 事務人員佔技術人員之牛數以上。學生人數及會員人 數則均為二萬一千餘人。 Since forty-eight institutions did not report their budget, the 20 million dollars listed in Table 4 does not represent the full amount expended for agricultural work. In studying Table 4 it is important to keep this fact in mind, especially as among the forty-eight institutions not reporting their budget there are several known to have large expenditures such as the National Economic Council. For the 643 institutions included, the budgeted expenses total over twenty million dollars, 45.7% of which is expended by National institutions with Provincial ones expending the next largest amount, or 37.7%.

Regarding the staff members, technical workers number 4,784 and clerical workers, 2,894. There are 21,288 students enrolled in the educational institutions, and there are 21,548 members of the various associations.