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## AGRICULTURAL MARKETING IN INDIA

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# Report on the MARKETING OF GROUNDNUTS IN INDIA AND BURMA

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## INTRODUCTION.

This report deals with the marketing of groundnuts—an important crop of Peninsular India, which although developed comparatively recently outstrips every other oilseed in India in respect of area and production. India now ranks first in the world not only in the production of this crop but also in respect of the quantities of groundnut kernels placed on the world markets. In spite of this unique position, the groundnut cultivator in India does not generally get more than seven and a half annas of the rupee paid by importers in the United Kingdom or retail consumers in India.

In this report, which sets out the plain facts of the situation, there is plenty of evidence to show that better returns can be secured for producers by effecting economies in distribution, cutting out wasteful practices and placing kernels of better quality on export market. Much could also be achieved by further developing the oil crushing industry in India, particularly with a view to establishing an export trade and finding new uses for the oil, *e.g.*, by hydrogenation and at the same time increasing the consumption of groundnut cake in India. Proper drying of the produce, better methods of decortication, improvement in conditions of storage and handling, the regulation of market charges and introduction of mutual terms in trade contracts are other measures, which will strike the reader as essential.

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Thanks and acknowledgments are due to a large number of merchants, oil millers, trade bodies, producers, government departments and others for their kind co-operation and assistance given to the marketing staff throughout the country. Acknowledgment should also be made for the use of figures and material contained in a number of government and trade publications, of

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which particular mention may be made of the following.

Survey of Oilseeds and Vegetable Oils : Groundnut Products—Imperial Economic Committee.

Oils and Fats : Production and International Trade—International Institute of Agriculture.

Reviews of the Oilseed, Oil and Oil Cake Markets—Frank Fehr & Co.

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NOTE.—The Government of India should not be regarded as assuming responsibility for all or any of the material contained in this report.

**THE GENERAL READER ANXIOUS TO GET A QUICK GRASP OF THE SUBJECT IS ADVISED TO READ THROUGH THE INTER-CHAPTERS AT PAGES 51, 81, 116, 132, 155, 181, 212, 232, 254, 309, 319 AND 328. IT IS HOPED, HOWEVER, THAT THESE MAY CREATE SUFFICIENT INTEREST TO LEAD TO A MORE DETAILED STUDY OF THE FULL REPORT.**

OFFICE OF THE AGRICULTURAL MARKETING ADVISER  
TO THE GOVERNMENT OF INDIA,

DELHI :

*December, 1940.*



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**APPENDICES.**

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## APPENDIX I.

*Area and production of groundnuts (in shell) in the world.*

Name of countries.	Acreage (thousand acres).			Production—nuts in shell (thousand tons).		
	Average 1928—32.	Average 1933—37.	1938 (a).	Average 1928—32.	Average 1933—37.	1938.
<b>BRITISH EMPIRE:</b>						
India (b) ..	6,092	7,000	8,927	2,457	2,822	3,308
Burma ..	533	717	880	157	155	180
Nigeria ..	633 <sup>(1)</sup>	895 <sup>(2)</sup>	..	213	337	255
Gambia ..	<i>Not available.</i>	300 <sup>(4)</sup>	..	63	60	47
Tanganyika ..	82 <sup>(3)</sup>	169	..	16	25	5
Other Empire countries*.	183	255	..	25	25	..
Total ..	7,523	9,336	..	2,931	3,424	..
<b>FOREIGN COUNTRIES:</b>						
China ..	<i>Not available.</i>	3,574	..	<i>Not available.</i>	2,672	..
French West Africa— Senegal ..	1,512	1,636	..	437	538	..
Other colonies*	652	1,469	..	178	255	..
United States of America.	1,419	1,661	1,898	423	540	636
Netherland East Indies.	529	534	647	222	226	288
Argentina ..	136	218	..	62	88	..
Other foreign countries*.	764	923	..	400	460	..
Total ..	5,012	10,015	..	1,722	4,779	..
Grand total ..	12,535	19,351	..	4,653	8,203	..

Adapted from International Review of Agricultural Statistics 1938-39 and Statistics for Vegetable Oils and Oilseeds published by Imperial Economic Committee.

(a) The year to which the figures refer is the year in which the crop was harvested.

(b) In India, the crop shown in official statistics as 1938-39 crop is harvested in 1938 and is shown here under 1938. The crops for other years have also been similarly taken for working out averages. Revised figures of acreage and production discussed in the report have been used.

\* Where figures for any of the years have not been available, estimates have been formed on the basis of previous year's figures.

<sup>(1)</sup> Average 4 years 1928—31. <sup>(2)</sup> Average 4 years 1929—32. <sup>(3)</sup> Area in 1931.

<sup>(4)</sup> Estimate.

APPENDIX II.

Exports of groundnuts from the main producing countries and imports of groundnuts into the main consuming countries of the world.

(Thousand tons).

	Exports.				Imports.		
	Average 5 years 1928—32.	Average 5 years 1933—37.	1938.		Average 5 years 1928—32.	Average 5 years 1933—37.	1938.
From India*—							
British ports .. .. .	642	585	835	Into France (a) .. .. .	307	409	382
Portuguese ports .. .. .	139	96	141	(b) .. .. .	361	369	452
French ports .. .. .	62	59	51	Into Germany (a) .. .. .	70	33	85
Kathiawar States ports .. .. .	18†	54	162	(b) .. .. .	464	269	299
From Nigeria (b) .. .. .	149	236	180	Into Italy (a) .. .. .	} 110	} 114	1
From Gambia (a) .. .. .	63	60	46	(b) .. .. .			51
(b) .. .. .			1	Into United Kingdom (a) .. .. .	40	18	7
From Tanganyika (b) .. .. .	11	18	4	(b) .. .. .	82	153	320
From French West Africa (a) .. .. .	396	427	363	Into Netherlands (a) .. .. .	} 95	} 143	26
(b) .. .. .	1	82	167	(b) .. .. .			149
From China (a) .. .. .	60	33	23	Into Belgo-Luxemburg (a) .. .. .	} 26	} 47	17
(b) .. .. .	104	80	34	(b) .. .. .			70
From Manchuko (a) .. .. .	21	29	22	Into Czechoslovakia .. .. .	31	43	32
(b) .. .. .	21	58	59	Into Denmark .. .. .	29	33	35
From Mozambique (b) .. .. .	28	26	12				
From Portuguese Guinea (a) & (b) .. .. .	22	23	31				
From Netherland East Indies (a) .. .. .	3	2	3				
(b) .. .. .	16	16	18				

\* Exports from India are for official years April to March, 1938-39 figures being shown under 1938 and similarly for other years. Exports from India to Burma are not included in the figures.

† Average of 2 years 1931-32 and 1932-33. (a) Undecorticated. (b) Decorticated.

Source.—International Year Book of Agricultural Statistics, Annual Statement of the Sea-borne Trade of British India, Kathiawar Trade Statistics, and statistics received from Pondicherry and Goa.

## APPENDIX III.

Area under groundnuts in the main producing areas of India and in Burma.  
(Thousand acres).

Year.	India.							Total.	Burma (e).
	Madras (a).	Bombay (b).	Central Pro- vinces and Berar.	Bombay States (c).	Hyderabad.	Mysore.	Orissa (d).		
1900-01	230	64	..	..	..	..	..	294	..
1901-02	338	97	..	..	..	..	..	435	..
1902-03	421	70	..	..	..	..	..	491	..
1903-04	384	90	..	..	..	..	..	474	..
1904-05	366	93	..	..	..	..	..	459	..
1905-06	393	93	..	..	..	..	..	486	..
1906-07	511	111	..	..	..	..	..	622	..
1907-08	602	130	..	..	..	..	..	732	137
1908-09	719	134	..	..	..	..	..	853	259
1909-10	740	162	..	..	..	..	..	902	146
1910-11	687	186	..	..	..	..	..	853	99
1911-12	806	269	..	..	..	..	..	1,075	139
1912-13	924	190	..	53	..	..	..	1,167	200
1913-14	1,605	202	..	52	..	..	..	1,859	247
1914-15	1,866	222	..	56	..	..	..	2,144	273
1915-16	1,136	213	..	53	..	..	..	1,402	262
1916-17	1,796	220	..	56	..	..	..	2,072	261
1917-18	1,415	215	..	57	..	68	..	1,755	249
1918-19	1,001	136	11	21	..	46	..	1,215	250
1919-20	1,144	136	7	26	68	53	..	1,434	281
1920-21	1,600	205	10	19	66	73	..	1,973	303
1921-22	1,459	203	15	20	156	86	..	1,989	306
1922-23	1,754	330	18	37	148	90	..	2,377	332
1923-24	1,807	359	23	41	194	102	..	2,526	390
1924-25	1,904	344	30	41	227	128	..	2,674	462
1925-26	2,599	596	60	89	198	213	..	3,755	499
1926-27	2,680	602	44	211	306	195	..	4,038	523
1927-28	3,337	740	70	324	485	254	..	5,210	540
1928-29	3,679	1,000	103	423	610	310	..	6,125	599
1929-30	3,209	1,068	139	281	744	325	..	5,766	571
1930-31	3,575	999	148	604	691	316	..	6,333	565
1931-32	2,635	989	164	518	774	271	..	5,351	408
1932-33	3,517	1,195	185	588	1,118	284	..	6,887	522
1933-34	3,779	1,292	194	683	1,384	254	..	7,586	640
1934-35	2,351	862	149	654	962	163	..	5,141	625
1935-36	2,520	892	134	405	1,059	187	10	5,207	660
1936-37	3,495	987	149	880	1,063	198	12	6,784	765
1937-38	4,658	1,344	224	1,022	1,438	198	14	8,898	896
1938-39	3,772	1,435	280	1,266	1,520	214	19	8,506	840
1939-40	3,618	1,516	228	1,009	1,675	222	19	8,287	760
1940-41(f)	3,820	1,434	226	950	1,686	221	20	8,357	766

Source.—Estimates of Area and Yield of Principal Crops in India, Agricultural Statistics of India and Final Forecasts of Groundnut Crop, 1939-40 and 1940-41.

(a) The figures up to 1906-07 relate only to *ryotwari* villages and since that year estimates for certain *zamindari* and whole *tanam* villages have been added.

(b) The figures up to 1913-14 relate only to the chief groundnut growing districts while those for other districts have been added from 1914-15. The figures up to 1911-12 include Bombay States.

(c) Bombay States include Western India States, other Gujarat States, Deccan States (Akalkot and others) and Karnatak States (Kolhapur and others).

(d) Figures for Orissa, prior to 1937-38, were included with Bihar and not used for crop forecasts.

(e) The figures up to 1911-12 relate to the chief groundnut growing districts only while those for other districts have been added from 1912-18.

(f) United Provinces have been included in the forecast from 1940-41, area under groundnuts in the year being reported as 159,000 acres.

Note.—Where the figures given in Estimates of Area and Yield differed from those given in Agricultural Statistics, the latter figures have been used.

## APPENDIX IV.

*Area under groundnuts in India in areas not included in groundnut crop forecasts.*  
(Thousand acres).

	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	Average (1933-34 to 1937-38)	1938-39.	1939-40.
<b>BRITISH INDIA :</b>								
United Provinces ..	40	56	88	107	132	85	132 (3)	123
Punjab .. ..	1	5	13	26	34	16	31	22
Bengal .. ..	2	(a)	3	3	3	2	2	3
Bihar .. ..	1	1	(a)	(a)	(a)	(a)	(a)	(a)
<b>INDIAN STATES :</b>								
<i>Madras States—</i>								
Pudukottai ..	19	15	18	19	23	19	23(3)	23(3)
Banganapalle ..	20	10	8	7	16	12	8	4
Cochin ... ..	(a)	(a)	8	12	14	7	8	8 (4)
Sandur .. ..	2	1	1	1	2	1	1	1 (4)
<i>Central India States—</i>								
Indore .. ..	20	20	18	20	24	20	24	24(4)
Dhar .. ..	2	3	4	5	5	4	6	6 (4)
Other Central India States (1)	4	8	7	8	9	7	9	9 (4)
<i>Rajputana States—</i>								
Jaipur .. ..	5	6	9	10	10	8	10	7
Kotah .. ..	2	2	2	3	4	3	4 (3)	4 (3)
Other Rajputana States (2)	3	4	5	4	5	4	5	5 (4)
<i>Punjab State—</i>								
Patiala .. ..	(a)	1	3	7	10	4	11	11
Baroda .. ..	48	50	52	81	112	69	131	131(4)
Gwalior .. ..	13	14	15	19	20	16	16	17
<b>Total ..</b>	<b>182</b>	<b>196</b>	<b>254</b>	<b>332</b>	<b>423</b>	<b>277</b>	<b>421</b>	<b>404</b>

(a) 500 acres or less.

(1) Barwani, Bhopal, Dewas (Sr.), Jaora, Khilchipur, Naraingarh, Orcha and Rajgarh.

(2) Alwar, Bharatpur, Bikaner, Bundi, Dholpur, Jhalawar, Karauli, Partabgarh and Tonk.

(3) 1937/38 figures.

(4) 1938/39 figures.

## APPENDIX V.

*Production of groundnuts (in shell) in the main producing areas of India and in Burma.*

(Thousand tons).

Year.	India.							Total.	Burma.
	Madras.	Bombay (a).	Central Provinces.	Bombay States.	Hyderabad.	Mysore.	Orissa (b).		
1900-01	93	29	..	..	..	..	..	122	..
1901-02	137	63	..	..	..	..	..	200	..
1902-03	171	62	..	..	..	..	..	233	..
1903-04	156	94	..	..	..	..	..	250	..
1904-05	152	63	..	..	..	..	..	215	..
1905-06	175	37	..	..	..	..	..	212	..
1906-07	189	85	..	..	..	..	..	274	..
1907-08	202	83	..	..	..	..	..	285	68
1908-09	247	130	..	..	..	..	..	377	120
1909-10	222	173	..	..	..	..	..	395	65
1910-11	254	207	..	..	..	..	..	461	42
1911-12	306	248	..	..	..	..	..	554	51
1912-13	341	240	..	..	..	..	..	581	89
1913-14	411	254	..	..	..	..	..	665	88
1914-15	580	279	..	..	..	..	..	859	88
1915-16	633	309	..	..	..	..	..	942	116
1916-17	825	260	..	..	..	..	..	1,085	111
1917-18	680	272	..	..	..	..	..	952	104
1918-19	442	85	..	..	..	..	..	527	99
1919-20	569	151	..	..	..	..	..	720	102
1920-21	740	167	..	..	..	..	..	907	115
1921-22	678	177	..	..	9	..	..	864	95
1922-23	823	267	..	20	16	..	..	1,126	110
1923-24	744	165	..	18	12	..	..	939	115
1924-25	948	204	..	27	11	..	..	1,190	165
1925-26	1,264	275	..	51	21	..	..	1,611	165
1926-27	1,207	313	..	108	25	..	..	1,653	165
1927-28	1,671	398	..	157	42	..	..	2,268	166
1928-29	1,830	626	..	178	81	..	..	2,615	163
1929-30	1,522	426	..	87	145	..	..	2,180	182
1930-31	1,765	487	..	175	165	..	..	2,592	174
1931-32	1,234	498	33	173	213	..	..	2,151	117
1932-33	1,729	679	45	173	320	..	..	2,846	151
1933-34	1,777	643	53	263	374	76	..	3,186	144
1934-35	920	375	38	156	224	27	..	1,740	144
1935-36	1,202	418	35	144	287	28	..	2,114	144
1936-37	1,657	407	46	252	316	36	..	2,714	142
1937-38	2,059	524	58	347	476	37	..	3,501	200
1938-39	1,613	581	72	368	537	41	7	3,219	180
1939-40	1,703	553	64	297	493	48	7	3,165	186
1940-41 (c)	1,761	599	63	299	613	63	7	3,405	195

Source.—Estimates of Area and Yield of Principal Crops in India and Final Forecasts of Groundnut Crop, 1939-40 and 1940-41.

(a) Figures up to 1921/22 include Bombay States.

(b) Figures prior to 1937-38 were included with Bihar and not used for crop forecasts

(c) United Provinces have been included in the crop forecast from 1940-41, the production of groundnuts in this year being reported as 68,000 tons,

## APPENDIX VI.

*Estimated production of groundnuts (in shell) in India in areas not included in groundnut crop forecasts.*

(Thousand tons).

	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	Average.	1938-39.	1939-40.
<b>BRITISH INDIA :</b>								
United Provinces ..	22	31	49	59	73	47	73*	73*
Punjab .. ..	1	1	7	12	15	7	14	13
Bengal .. ..	1	1	1	1	1	1	2	2
Bihar .. ..	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
<b>INDIAN STATES :</b>								
Madras States ..	14	0	12	13	19	13	18	17
Central India States ..	4	5	5	6	8	6	9	9
Rajputana States ..	1	1	2	2	2	2	3	3
Punjab States ..	(a)	1	2	3	3	2	2	2
Baroda .. ..	21	22	22	32	45	28	53	53†
Gwalior .. ..	4	4	5	8	9	6	5	5†
<b>Total .. ..</b>	<b>68</b>	<b>75</b>	<b>105</b>	<b>136</b>	<b>175</b>	<b>112</b>	<b>179</b>	<b>177</b>

(a) 500 tons or less.

\*1937/38 figures.

†1938/39 figures.

*Note.*—Where figures for production for individual States have not been available for any year, previous year's figures have been taken.

## APPENDIX VII.

*Estimated production of different varieties of groundnuts (in shell) in India.*

Name of province or State.	Production. (Average 1933-34 to 1937-38).	Coromandel.		Bold.		Peanuts (a).		Red Natal.		Other varieties.	
		Proportion.	Quantity.	Proportion.	Quantity.	Proportion.	Quantity.	Proportion.	Quantity.	Proportion.	Quantity.
		Thou- sand tons.	Per cent.	Thou- sand tons.	Per cent.	Thou- sand tons.	Per cent.	Thou- sand tons.	Per cent.	Thou- sand tons.	Per cent.
<i>British India.</i>											
Madras ..	1,523	88	1,340.2	..	..	10	152.3	2	30.5	..	..
Bombay ..	474	28	123.2	27	128.0	42	199.1	2	9.5	3	14.2
Central Provinces and Berar.	46	..	..	11	5.1	33	15.2	42	19.3	14	6.4
United Provinces	47	..	..	47	22.1	3	1.4	..	..	50	23.5
Punjab and other provinces.	8	..	..	25	2.0	10	.8	..	..	65	5.2
<i>Indian States.</i>											
Hyderabad ..	394	20	78.8	33	130.0	47	185.2	..	..	..	..
Mysore ..	41	50	20.5	..	..	49	20.1	..	..	1	.4
Bombay States	232	..	..	85	197.2*	11	25.5	1	2.3	3	7.0
Madras States ..	13	89	11.5	..	..	9	1.2	2	.3	..	..
Gwalior ..	6	..	..	85	5.1	3	.2	2	.1	10	.6
Baroda ..	28	..	..	45	13.0	55	15.0	..	..	..	..
Other States ..	10	..	..	30	3.0	20	2.0	..	..	50	5.0
<b>Total ..</b>	<b>2,822</b>	<b>55.8</b>	<b>1,574.2</b>	<b>18.0</b>	<b>505.5</b>	<b>21.9</b>	<b>618.0</b>	<b>2.2</b>	<b>62.0</b>	<b>2.2</b>	<b>62.3</b>
<i>Burma</i> ..	165	97	150.3	..	..	2	3.1	..	..	1	1.0

(a) Includes varieties known in trade as Khandesh and Khandesh Quality.

\* Includes 139,000 tons Superior Bold grown in Kathiawar.



APPENDIX VIII.

Monthly arrivals of groundnuts at markets, despatches from railway stations and arrivals at ports, expressed as percentages of the respective annual arrivals and despatches.

Month.	Arrivals at markets.				Despatches from railway stations.							Arrivals at ports.		
	Madras (2 ware- houses).	Bombay (3 mar- kets).	Hyder- abad (3 markets)	C. P. (3 markets)	Madras (49 sta- tions).	Madras (Polla- chi).	Mysore (2 sta- tions).	Bombay (2 sta- tions).	Hyder- abad (2 stations).	C. P. (3 sta- tions).	U. P. (3 sta- tions).	Madras port.	Bombay port.	Calcutta port.
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)			
April .. .. .	1.1	3.2	4.6	2.1	2.0	..	1.5	6.6	5.5	3.9	3.4	8.7	6.1	4.0
May .. .. .	1.9	1.9	6.5	2.7	6.2	..	3.7	5.5	9.0	4.6	5.5	10.0	8.3	3.4
June .. .. .	6.4	0.9	2.7	1.6	2.9	..	2.3	4.0	5.1	5.6	2.7	7.1	4.8	2.0
July .. .. .	6.4	0.4	3.9	0.3	6.1	..	2.6	5.8	5.9	4.4	4.8	5.9	4.4	3.1
August .. .. .	9.2	0.7	4.3	0.3	8.0	5.2	2.4	8.0	4.9	3.2	1.5	4.6	4.8	5.2
September .. .. .	5.8	0.3	4.0	2.1	5.7	42.2	1.0	3.2	3.9	6.5	3.0	3.8	4.7	3.3
October .. .. .	4.6	14.5	7.5	45.6	2.5	16.2	16.4	5.0	5.3	14.8	2.3	3.5	6.7	4.6
November .. .. .	14.9	14.5	17.4	21.6	3.4	9.3	28.2	9.0	9.6	32.0	13.3	6.8	9.3	11.4
December .. .. .	26.2	25.7	16.0	8.6	16.8	23.8	15.4	20.9	21.0	10.6	37.4	13.9	16.1	16.1
January .. .. .	15.6	21.0	11.7	7.7	24.6	1.0	15.8	18.8	17.1	9.4	11.0	14.0	19.5	17.3
February .. .. .	5.5	11.3	12.1	4.8	15.7	1.4	6.3	6.1	6.4	3.4	9.2	9.6	8.8	9.6
March .. .. .	2.4	5.6	9.3	2.6	6.1	0.9	4.4	7.1	6.3	1.6	5.9	12.1	6.5	20.0
Total .. .. .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Cuddalore Co-operative Warehouse and Resipuram Co-operative Warehouse.

(b) Kolhapur, Dhulia and Sangli.

(c) Latur, Raichur and Warangal.

(d) Akola, Khamgaon and Malkapur.

(e) 49 stations in North Arcot, South Arcot, Coimbatore, Salem, Trichinopoly, Tanjore, Madura and Ramnad districts.

(f) Pollachi.

(g) Davangere and Tumkur.

(h) Barwi and Dondicha.

(i) Latur and Khamam.

(j) Akola, Nagpur and Khandwa.

(k) Bareilly, Shahmatganj and Madhoganj.

## APPENDIX IX.

*Imports of groundnuts into India (through British India ports) and into Burma.*  
(The imports are mostly in the form of nuts in shell.)

(Tons).

Year.	Imports into India*.					Imports into Burma†.
	Bengal.	Bombay.	Sind.	Madras.	Total.	
1900-01	1	205 (a)	..	6	212	..
1901-02	..	166	..	..	166	29
1902-03	..	33	3	4	40	97
1903-04	..	9	..	..	9	107
1904-05	..	1	1	..	2	86
1905-06	..	..	..	..	..	59
1906-07	..	..	..	2	2	114
1907-08	..	7	..	..	7	127
1908-09	13	..	..	..	13	166
1909-10	..	44	..	..	44	159
1910-11	..	2	..	..	2	181
1911-12	43	..	..	..	43	214
1912-13	..	9	..	..	9	126
1913-14	..	..	..	..	..	19
1914-15	3	607 (b)	..	..	610	227
1915-16	22	22	..	..	44	102
1916-17	1	..	..	1	2	25
1917-18	..	65	..	4	69	15
1918-19	1	..	..	..	1	17
1919-20	..	39	3	..	42	7
1920-21	..	463 (c)	7	10	480	2
1921-22	..	227 (d)	..	..	227	362
1922-23	..	..	..	..	..	2
1923-24	..	5	..	6	11	4
1924-25	101 (e)	..	..	..	101	2
1925-26	8	4	..	1	13	40
1926-27	..	..	..	..	..	18
1927-28	(e)	1	..	4	5	55
1928-29	..	..	10	..	10	51
1929-30	119	..	..	1	120	12
1930-31	..	..	..	..	..	30
1931-32	..	36	..	..	36	30
1932-33	..	..	..	..	..	5
1933-34	..	..	..	..	..	1
1934-35	..	5	..	..	5	4
1935-36	..	..	..	..	..	1
1936-37	..	13	..	..	13	2
1937-38	..	..	..	18	18	1
1938-39	..	..	..	..	Nil	..
1939-40 (10 months)	..	..	..	..	..	..

*Not available.*

*Source.*—Annual Statement of the Sea-borne Trade of British India.

(a) From Portuguese East Africa 168 tons, German East Africa 21 tons, British East Africa 6 tons and other countries 10 tons.

(b) From Portuguese East Africa 296 tons, Aden and dependencies 309 tons, and other countries 2 tons.

(c) From Portuguese East Africa 366 tons and other countries 97 tons.

(d) From Portuguese East Africa 175 tons, Tanganyika Territory 51 tons and other countries 1 ton.

(e) From Straits Settlements.

\* Excluding imports from Burma.

† Excluding imports from India.

**APPENDIX X.**  
*Exports of groundnuts from India and from Burma.*  
 (The exports are mostly in the form of kernels).  
 (Thousand tons).

Year.	From India†.				Total.	From Burma*.
	Through British India ports.	Through Kathiawar States ports.	Through French ports. in India.	Through Portuguese ports. in India.		
	(a)	(b)	(c)	(d)		
1900-01 ..	12	Not available.	Not available.	Not available.	12	(e)
1901-02 ..	54	"	"	"	54	..
1902-03 ..	52	"	"	"	52	(e)
1903-04 ..	96	"	64	"	160	(f)
1904-05 ..	81	"	64	"	145	3
1905-06 ..	64	"	34	"	98	5
1906-07 ..	74	"	43	"	117	12
1907-08 ..	65	"	36	"	101	11
1908-09 ..	80	"	50	"	130	9
1909-10 ..	156	"	90	"	246	6
1910-11 ..	180	"	85	"	265	5
1911-12 ..	188	"	67	"	255	3
1912-13 ..	229	"	112	"	341	14
1913-14 ..	251	"	106	"	357	27
1914-15 ..	136	"	52	"	188	2
1915-16 ..	175	"	42	"	217	(e)
1916-17 ..	145	"	..	"	145	2
1917-18 ..	114	"	6	"	120	1
1918-19 ..	17	"	1	"	18	(e)
1919-20 ..	111	"	31	"	142	1
1920-21 ..	99	"	15	1	115	5
1921-22 ..	236	"	42	1	279	(e)
1922-23 ..	267	"	38	1	306	(e)
1923-24 ..	257	"	58	58	373	..
1924-25 ..	376	"	61	12	449	(e)
1925-26 ..	455	"	52	28	535	(f)
1926-27 ..	368	"	65	59	492	(e)
1927-28 ..	613	"	80	117	810	..
1928-29 ..	787	"	80	154	1,021	1
1929-30 ..	714	"	97	153	964	(e)
1930-31 ..	601	"	70	180	851	..
1931-32 ..	672	22	37	132	863	(e)
1932-33 ..	433	10	25	78	546	(e)
1933-34 ..	546	30	42	196	814	(e)
1934-35 ..	511	37	56	99	703	(e)
1935-36 ..	413	61	45	48	567	(e)
1936-37 ..	739	52	76	86	953	(e)
1937-38 ..	614†	91	76	53	834†	(e)
1938-39 ..	823†	162	51	141	1,177†	(f)
1939-40 ..	427(1)	85(2)	75(2)	36(2)	623	..

*Source.—*

- (a) Annual Statements of the Sea-borne Trade of British India, Volume I.  
 (b) Trade Statistics relating to the maritime States in Kathiawar.  
 (c) Annual Statements of the Sea-borne Trade of British India, Volume II. up to 1932-33 and Chamber of Commerce, Pondicherry, from 1933-34 to 1938-39.  
 (d) By courtesy of Customs Manager, Castle Rock. (e) Less than 100 tons.  
 (f) Between 100 and 300 tons. \* Excluding exports to India.  
 † Excluding exports to Burma, 5,000 tons were exported from India to Burma in 1937-38 and 12,000 tons in 1938-39.  
 (1) Up to 31st January, 1940, excluding 8,000 tons exported to Burma.  
 (2) Up to 14th February 1940. (3) Up to 7th January, 1940.

APPENDIX XI.

*Exports of groundnuts to different countries from British India ports.*

(The exports are mostly in the form of kernels).

(Thousand tons).

Destination.	1923-24.	1924-25.	1925-26.	1926-27.	1927-28.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.†	1938-39.	1939-40.† (10 months)
United Kingdom ..	16	35	10	17	25	48	53	47	78	32	53	134	62	135	95	96	79
Other British possessions	1	1	(b)	1	1	12*	3	2	2	2	8	8	6	8	11	34	8
Total British Empire ..	17	36	10	18	26	60	56	49	80	34	61	142	68	143	106	130	87
France .. ..	191	198	204	125	151	216	211	172	223	219	188	99	141	173	72	150	123
Germany .. ..	11	40	91	87	218	241	210	120	122	48	97	65	71	110	108	115	44
Netherlands ..	15	39	75	77	112	132	154	167	147	88	101	115	95	175	146	232	73
Italy (including Fiume) ..	9	22	37	50	80	121	56	77	80	28	72	54	18	76	112	35	11
Belgium .. ..	6	16	12	6	15	9	8	2	5	9	13	14	9	39	44	56	29
Egypt .. ..	(a)	(b)	(a)	(a)	2	(b)	6	(a)	1	3	2	3	(b)	(b)	5	..	..
Other foreign countries ..	8	25	26	5	9	8	13	14	14	4	12	19	11	23	21	95	60
Total foreign countries	240	340	445	350	587	727	658	552	592	399	485	369	345	596	508	693	340
Grand total ..	257	376	455	368	613	787	714	601	672	433	546	511	413	739	614	823	427
Exported from ports in Madras Presidency.	224	330	370	318	471	584	583	457	496	350	455	436	332	638	560	754	358
Exported from ports in Bombay Presidency.	83	46	85	50	142	203	131	144	176	83	91	75	81	101	54	69	69
Exported from ports in other provinces.	(b)	(b)	(b)	(a)	(a)	(a)	(b)	(b)	(a)	(a)	(b)	(b)	(a)	(a)	1	(b)	(c)

Source.—Annual Statement of the Sea-borne Trade of British India, Vol. I.

(a) Less than 100 tons.

(b) Less than 500 tons.

(c) 533 tons.

\*Including 11,000 tons to Straits Settlements.

†Excluding exports to Burma.

## APPENDIX XII.

*Exports of groundnuts to different countries from Kathiawar States Ports.*

(The exports are both in the form of nuts in shell and kernels).

(Thousand tons).

Destination.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40 (10 months).
United Kingdom	4.6	4.3	5.1	4.1	16.7	11.2	67.3	105.8	51.2
France .. ..	2.6	1.7	0.3	0.8	8.7	13.0	1.6	5.9	2.2
Germany .. ..	2.7	0.5	3.1	1.0	11.4	8.8	1.5	3.9	0.2
Netherlands ..	6.2	1.5	16.7	8.8	6.6	9.3	1.7	5.1	2.3
Italy .. .. .	3.2	..	2.4	5.5	(a)	1.4	2.5	..	..
Belgium .. ..	2.7	1.6	0.5	1.6	1.1	1.4	0.6	4.7	4.1
Egypt .. .. .	..	..	1.7	14.2	12.8	6.5	14.9	33.1*	24.0
Others .. .. .	0.1	0.2	0.1	0.6	4.0	0.3	1.0	3.5†	0.8
<b>Total ..</b>	<b>22.1</b>	<b>9.8</b>	<b>29.9</b>	<b>36.6</b>	<b>61.3</b>	<b>51.9</b>	<b>91.1</b>	<b>162</b>	<b>84.8</b>
Exported from Bhavnagar State ports	5.2	0.4	2.8	2.6	13.8	17.8	5.3	2.8	0.9
Exported from Nawanagar State ports	10.2	5.6	12.7	15.5	28.9	11.3	18.6	41.3	32.1
Exported from Junagadh State ports	6.7	3.8	14.4	18.5	18.6	20.3	41.5	68.1	39.5
Exported from Porbandar State ports	(a)	(a)	(a)	(a)	(a)	2.5	25.7	49.8	12.3
Exported from Baroda State ports ..	..	..	(a)	(a)	(a)	..	(a)	(a)	..

*Sources.*—Trade Statistics relating to the Maritime States in Kathiawar and the State of Travancore.

\*Including 7,000 tons "for orders" cargo.

†Including 2,700 tons "for orders" cargo.

(a) Less than 100 tons.

## APPENDIX XIII.

*Exports of groundnuts to different countries from French ports in India.*

(The exports are mostly in the form of kernels).

(Thousand tons).

—	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	Average.	1938-39.
United Kingdom	..	..	..	..	0.2	..	0.6
France ..	29.0	24.4	27.6	35.4	8.9	25.1	31.9
Germany ..	0.4	3.5	4.0	0.7	11.1	4.0	9.8
Netherlands ..	0.3	9.8	..	12.7	12.1	7.0	..
Italy ..	1.8	1.4	..	13.2	15.9	6.4	3.0
Belgium ..	0.1	1.6	6.0	0.7	7.1	3.1	5.9
Egypt ..	10.6	14.7	3.3	1.0	14.4	8.8	..
Others ..	..	1.0	3.6	11.8*	6.1	4.5	..
Total ..	42.2	56.4	44.5	75.5	75.8	58.9	51.2

*Source.*—Chamber of Commerce, Pondicherry.

\*Includes 7,600 tons to French West Africa.

*Exports of groundnuts to different countries from Portuguese ports in India.*

(The exports are mostly in the form of kernels).

(Thousand tons).

—	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	Average.	1938-39.
United Kingdom	43.3		3.3	33.9		16.1	23.4
France ..	33.4		5.7	11.4		10.1	14.8
Germany ..	91.4		12.9	21.2		25.1	25.9
Netherlands ..	51.2		11.0	5.7		13.6	29.4
Italy ..	44.0		..	26.4		14.8	5.5
Belgium ..	13.6		10.2	5.3		5.8	1.3
Egypt ..	9.9		1.8	29.8		8.3	24.9
Others ..	8.3		3.0	5.2		3.3	11.3
Total ..	295.1		47.9	138.9		96.4	141.5

*Source.*—Customs Manager, Castle Rock.

## APPENDIX XIV.

Exports of groundnuts from different ports in India.\*  
(The exports are mostly in the form of kernels).  
(Thousand tons).

	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	Average 1933-34 to 1937-38.	1938-39.	1939-40. (10 months.)
<b>BRITISH INDIA PORTS:</b>											
<i>Madras ports—</i>											
Madras .. ..	208	238	112	154	150	111	128	148	138	186	97
Cuddalore ..	42	66	60	72	69	69	117	99	85	128	72
Coomada .. ..	87	88	52	45	100	21	63	32	52	105	34
Masulipetam ..	1	..	12	56	31	44	157	110	60	180	81
Negapatam ..	25	30	25	34	28	23	43	44	34	43	22
Calicut .. ..	34	27	34	41	18	13	34	32	28	33	14
Bimlipatam ..	20	15	24	20	18	18	44	24	25	21	9
Vizagapatam ..	29	23	26	14	11	13	25	49	22	41	9
Calingapatam ..	..	..	..	15	10	19	26	21	18	15	11
Porto Novo ..	8	8	4	3	(a)	..	..	..	1	..	..
Other ports ..	3	1	1	1	1	1	1	1	1	2	9
Total Madras ports	457	496	350	455	436	332	638	560	484	754	358
Bombay .. ..	144	176	83	91	75	81	101	53	80	69	69
Karachi .. ..	..	(b)	(b)	(b)	(b)	(b)	(b)	1	1	..	..
Total British India ports .. ..	601	672	433	546	511	413	739	614	565	823	427
<b>KATHIAWAR STATES PORTS:</b>											
Veeraval (Junagadh)	Not available.	7	4	14	19	18	20	41	22	66	40
Bhavnagar ..	..	5	(b)	3	8	14	18	5	9	3	1
Porbandar ..	..	(b)	(b)	(b)	(b)	(b)	3	26	6	50	12
Nawanagar ..	..	10	6	13	15	29	11	19	17	41	32
Total Kathiawar States ports .. ..	..	22	10	30	37	61	52	91	54	162	85
<b>FOREIGN PORTS:</b>											
Pondicherry ..	70	37	25	42	56	45	76	76	59	52	75 <sup>(1)</sup>
Goa .. .. ..	160	132	78	196	99	49	86	53	96	141	36 <sup>(2)</sup>
Total foreign ports in India .. ..	230	169	103	238	155	93	162	129	155	193	11 <sup>(1)</sup>
Grand total .. ..	831	863	546	814	703	507	901	834	774	1,177	623

Source.—Annual Statement of the Sea-borne Trade of British India, Trade Statistics relating to the Maritime States of Kathiawar, Chamber of Commerce, Pondicherry, Customs Manager, Castle Rock and figures from Customs Office, Madras.

(a) 500 tons. Included with figures for other ports.

(b) Less than 500 tons.

(1) Upto 14th February, 1940.

\* Excluding exports to Burma

(2) Up to 7th January, 1940.

## APPENDIX XV.

Imports of groundnut oil into India (through British India ports only) and into Burma.

(Tons).

Year.	Imports into India*.					Imports into Burma†.
	Bengal.	Bombay.	Sind.	Madras.	Total.	
1909-10	15	..	..	(d)	15	14
1910-11	12	..	..	2	14	21
1911-12	13	..	..	(d)	13	27
1912-13	12	..	..	..	12	32
1913-14	9	(d)	..	2	11	36
1914-15	11	(d)	..	..	11	35
1915-16	8	..	..	..	8	30
1916-17	8	..	..	..	8	40
1917-18	8	1	..	..	9	21
1918-19	4	(d)	..	..	4	16
1919-20	7	(d)	..	..	7	8
1920-21	9	(d)	..	..	9	19
1921-22	3	(d)	..	(d)	4	40
1922-23	2	(d)	..	..	2	6
1923-24	3	(d)	..	(d)	4	12
1924-25	2	3	..	..	5	12
1925-26	2	25	..	..	27(a)	12(a)
1926-27	(d)	1	..	3	4	10
1927-28	..	(d)	..	..	(d)	19
1928-29	1	(d)	..	..	1	22
1929-30	2	(d)	..	..	2	6
1930-31	..	..	..	..	..	6
1931-32	(d)	(d)	..	..	(d)	11
1932-33	2	3	..	..	5	6
1933-34	41	3	(d)	..	44(b)	4
1934-35	..	..	..	..	..	4
1935-36	..	2	(d)	..	2	5
1936-37	..	(d)	..	..	(d)	6
1937-38	26	1	(d)	(d)	27(c)	..
1938-39	..	..	..	..	..	..

(a) From United Kingdom into India and Burma.

(b) 41 tons from Ceylon.

(c) 26 tons from Ceylon.

\* Excluding imports from Burma.

(d) Less than 1 ton.

† Excluding imports from India



Exports of groundnut oil from  
(1a)

Year.	Destinations of exports						
	United Kingdom.	Ceylon.	Straits Settlements.	Natal.	Mauritius and Dependencies.	Germany.	Netherlands.
1900-01	..	6	21	74	64	..	..
1901-02	..	*	35	108	156	..	..
1902-03	..	*	27	109	212	..	..
1903-04	..	1	26	66	101	..	..
1904-05	..	6	100	26	14	..	..
1905-06	..	*	12	9	10	..	..
1906-07	..	4	4	13	46	..	..
1907-08	..	3	30	21	138	..	..
1908-09	..	38	24	2	312	..	..
1909-10	..	191	23	3	138	..	..
1910-11	..	364	1	20	268	..	..
1911-12	..	347	7	6	375	..	..
1912-13	..	396	1	2	525	..	..
1913-14	..	655	21	4	442	..	..
1914-15	..	260	31	2	624	..	..
1915-16	..	387	430	36	554	..	..
1916-17	..	3,166	319	96	406	..	..
1917-18	..	2,580	254	394	536	..	..
1918-19	..	1,533	71	285	407	..	..
1919-20	..	1,282	62	449	417	..	..
1920-21	..	108	77	207	129	..	..
1921-22	..	*	57	2	108	..	..
1922-23	..	*	48	2	61	..	..
1923-24	..	*	78	4	108	..	..
1924-25	..	1	61	4	51	..	..
1925-26	..	..	76	84	518	..	..
1926-27	..	..	86	7	66	..	..
1927-28	..	..	139	10	194	..	..
1928-29	..	..	148	1,327	158	2	..
1929-30	..	*	119	287	239	*	1
1930-31	..	40	76	8	409	*	..
1931-32	..	1,153	42	49	174	103	160
1932-33	..	2,732	20	8	219	219	249
1933-34	..	2,087	68	177	139	17	25
1934-35	..	368	77	24	322	..	..
1935-36	..	739	59	14	153	..	..
1936-37	..	634	66	190	208	25	*
1937-38	..	564	172	698	568	118	..
1938-39	..	377	260	172	1,456	424	..
1939-40 (10 months)	..	497	(a)	(a)	(a)	(a)	(a)

Source.—Annual Statement of the Sea-borne

\*Indicates less

(a) Not avail

(1) Includes 695 tons to Italy

(2) Includes 445 tons to Federated Malaya States,

†Excluding exports to Burma. Exports from India to Burma

‡ Excluding exports

## DIX XVI.

India (British India ports) and from Burma.  
tons).

from India and Burma.			Exported from India.					Exported from Burma.
Belgium.	Others.	Total.	Madras.	Bombay.	Bengal.	Others.	Total.	
..	1	166	46	22	104	..	166	*
..	1	300	50	108	142	..	300	..
..	1	349	63	..	286	..	349	..
..	14	208	74	16	118	..	208	..
..	53	199	114	7	47	..	168	31
..	1	32	12	3	17	..	32	*
..	1	68	7	21	39	..	67	1
..	72	264	185	9	67	..	261	3
..	7	363	235	19	108	..	362	21
..	20	378	310	1	29	..	340	38
..	2	659	602	3	50	..	655	4
..	5	740	713	2	25	..	740	*
..	10	934	898	4	32	..	934	*
..	64	1,186	1,152	1	17	..	1,170	16
..	2	919	836	35	41	..	912	7
..	124	1,533	1,081	103	31	..	1,215	318
..	39	4,042	1,826	99	80	..	2,005	2,037
..	582	4,351	2,577	47	501	*	3,125	1,226
..	120	2,429	1,109	545	459	..	2,113	316
..	1,176(1)	3,386	94	110	323	..	527	2,859
..	62	593	218	35	112	..	365	228
..	70	237	102	73	62	..	237	100
..	103	217	147	26	42	2	217	*
..	37	237	119	67	50	..	236	1
..	31	155	88	17	46	..	151	4
..	42	720	115	101	74	..	290	430
..	11	170	94	54	1	..	149	21
..	2	52	397	176	13	..	379	18
..	4	173	236	1,410	17	26	1,689	123
..	4	70	130	589	3	1	723	*
..	10	139	682	83	593	5	682	*
..	77	113	1,871	43	1,820	5	1,870	1
..	141	187	3,775	36	3,735	43	3,771	4
..	*	434	2,947	93	2,671	9	2,784	163
..	..	340	1,131	84	994	25	1,104	27
..	..	232	1,197	76	1,083	33	1,196	1
..	..	637	1,760	425	1,288	47	1,760*	..
..	..	1,124(2)	3,244	..	3,215	..	3,215†	29
..	..	997	3,686	..	3,686	..	3,686†	(a)
..	(a)	4,204	4,691	..	4,691	..	4,691	..

Trade of British India.

than 1 ton.

able.

and 344 tons to Egypt.

264 tons to Iraq, 163 tons to Aden and 86 tons to Italy.  
were 6,320 tons in 1937-38 and 12,313 tons in 1938-39.  
to India.

## APPENDIX XVII.

*Exports of groundnut cake from India and Burma.*  
(Thousand tons).

Year.	From India.			From Burma.
	From British India ports.	From Kathiawar States ports.	Total.	
1912-13 .. ..	36	<i>Not available.</i>	36	26
1913-14 .. ..	32	"	32	30
1914-15 .. ..	22	"	22	42
1915-16 .. ..	43	"	43	39
1916-17 .. ..	27	"	27	27
1917-18 .. ..	48	"	48	2
1918-19 .. ..	50	"	50	6
1919-20 .. ..	35	"	35	45
1920-21 .. ..	17	"	17	31
1921-22 .. ..	24	"	24	32
1922-23 .. ..	22	"	22	42
1923-24 .. ..	27	"	27	38
1924-25 .. ..	43	"	43	52
1925-26 .. ..	32	"	32	51
1926-27 .. ..	62	"	62	65
1927-28 .. ..	102	"	102	46
1928-29 .. ..	112	"	112	51
1929-30 .. ..	119	"	119	54
1930-31 .. ..	133	"	133	49
1931-32 .. ..	145	24	169	39
1932-33 .. ..	120	18	138	39
1933-34 .. ..	146	29	175	44
1934-35 .. ..	207	43	250	55
1935-36 .. ..	140	27	167	54
1936-37 .. ..	183	31	214	55
1937-38 .. ..	251	42	293	63
1938-39 .. ..	365	54	419	72
1939-40 .. .. (10 months)	190	43	233	..

*Source.*—Annual Statement of the Sea-borne Trade of British India and Trade Statistics relating to the maritime States of Kathiawar.

APPENDIX XVIII.

*Exports of groundnut cake to different countries from British India ports.*  
(Thousand tons).

Destinations.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40 (10 months).
United Kingdom .. ..	22	29	49	38	19	70	116	95	104	142	183	111
Ceylon .. ..	24	25	22	17	5	10	9	6	8	8	6	15
Germany .. ..	35	25	34	49	58	24	32	15	37	59	80	17
Netherlands .. ..	18	26	18	27	25	27	11	6	12	14	29	4
Belgium .. ..	13	13	8	12	12	11	21	16	19	17	22	12
Other countries .. ..	..	1	2	2	1	4	18*	2	3	11	45	31
<b>Total .. ..</b>	<b>112</b>	<b>119</b>	<b>133</b>	<b>145</b>	<b>120</b>	<b>146</b>	<b>207</b>	<b>140</b>	<b>183</b>	<b>251</b>	<b>365</b>	<b>190</b>
Exported from —												
Bombay ports .. ..	86	95	116	116	94	114	150	97	113	161	225	..
Madras ports .. ..	24	14	9	25	26	31	50	39	62	82	127	..
Bengal ports .. ..	2	10	8	4	..	1	7	4	8	8	13	..

Source.—Annual Statement of the Sea-borne Trade of British India.

\*Including 7,000 tons for Egypt and 5,000 tons for United States of America.

APPENDIX XVII  
*Exports of groundnut cake from India and Burma.*  
 (Thousand tons).

Year.	From India.			From Burma.
	From British India ports.	From Kathiawar States ports.	Total.	
1912-13 .. ..	36	<i>Not available.</i>	36	28
1913-14 .. ..	32	"	32	30
1914-15 .. ..	22	"	22	42
1915-16 .. ..	43	"	43	39
1916-17 .. ..	27	"	27	27
1917-18 .. ..	48	"	48	2
1918-19 .. ..	50	"	50	6
1919-20 .. ..	35	"	35	45
1920-21 .. ..	17	"	17	31
1921-22 .. ..	24	"	24	32
1922-23 .. ..	22	"	22	42
1923-24 .. ..	27	"	27	38
1924-25 .. ..	43	"	43	52
1925-26 .. ..	32	"	32	51
1926-27 .. ..	62	"	62	65
1927-28 .. ..	102	"	102	46
1928-29 .. ..	112	"	112	51
1929-30 .. ..	119	"	119	54
1930-31 .. ..	133	"	133	49
1931-32 .. ..	145	24	169	39
1932-33 .. ..	120	18	138	39
1933-34 .. ..	146	29	175	44
1934-35 .. ..	207	43	250	55
1935-36 .. ..	140	27	167	54
1936-37 .. ..	183	31	214	55
1937-38 .. ..	251	42	293	63
1938-39 .. ..	365	54	419	72
1939-40 .. .. (10 months)	190	43	233	..

Source.—Annual Statement of the Sea-borne Trade of British India and Trade Statistics relating to the maritime States of Kathiawar.

APPENDIX XX.

*Exports of groundnut cake to different countries from Burma.*

(Thousand tons).

Destinations.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.
United Kingdom .. .. .	44	48	45	31	25	40	55	53	50	61
Ceylon .. .. .	1	1	(a)	3	3	(a)	..	..	(a)	..
Germany .. .. .	4	3	2	3	8	1	..	..	..	..
Netherlands .. .. .	..	..	..	..	1	..	..	..	3	..
Other countries. .. .. .	2	2	2	2	2	3	..	1	2	2
Total .. .. .	51	54	49	39	39	44	55	54	55	63

*Source.*— Customs authorities, Rangoon.

(a) 500 tons or less.

## APPENDIX

Trade (rail and river-borne) in groundnuts

(Average 1933-34

(in

Whence despatched.	Arrivals					
	Assam.	Bengal.	Bihar and Orissa.	Bombay.	Central India.	Central Provinces and Berar.
Assam .. ..	..	10.5	2.0	..	..	..
Bengal .. ..	218.7	..	621.8	..	..	0.1
Bihar and Orissa ..	14.2	344.6	..	0.8	..	1.5
Bombay .. ..	..	23.5	4.2	..	464.6	1,352.1
Central India ..	0.1	18.6	0.5	93.7	..	24.7
Central Provinces and Berar.	0.1	1.1	39.5	440.4	246.0	..
Hyderabad .. ..	..	722.4	..	93,333.5	0.3	205.8
Kashmir .. ..	..	..	..	..	..	..
Madras .. ..	..	4,759.4	59.6	39,091.8	..	10.6
Mysore .. ..	..	..	..	12,901.6	..	..
Punjab .. ..	..	364.2	17.7	77.4	..	0.9
Rajputana .. ..	0.1	151.8	19.7	75.2	279.7	2.7
Sind and British Baluchistan.	..	..	..	0.2	3.2	..
United Provinces	1.1	1,060.4	938.7	254.4	12.9	0.4
<b>Total ..</b>	<b>234.3</b>	<b>7,456.5</b>	<b>1,703.7</b>	<b>146,269.0</b>	<b>1,006.7</b>	<b>1,598.8</b>

Source.—Compiled from Accounts relating to the

## XXI.

between different provinces and States of India.

to 1937-38.)

tons).

in.

Hyderabad.	Kashmir.	Madras.	Mysore.	Punjab.	Rajputana.	Sind and British Baluchistan.	United Provinces.	Total.
..	..	..	..	..	..	..	..	12.5
..	..	..	..	7.8	..	..	4.8	853.2
..	..	172.9	..	..	..	0.2	4.5	538.7
15.4	..	15.5	107.0	380.1	94.1	0.7	84.4	2,541.6
..	..	..	..	275.5	189.9	0.3	655.3	1,258.6
2.8	1.2	6.4	0.9	367.3	62.5	..	541.1	1,709.3
..	..	22,841.4	310.3	0.1	0.4	2.2	0.5	117,416.9
..	..	..	..	0.7	..	..	..	0.7
98.5	..	..	2,010.6	1.6	0.1	..	2.2	46,034.4
..	..	6,711.7	..	0.1	..	..	..	19,613.4
..	46.6	..	..	..	35.1	16.6	97.0	655.5
..	..	..	..	805.3	..	5.1	260.4	1,600.0
..	0.1	..	..	225.5	3.7	..	0.2	232.9
..	2.8	..	..	878.2	45.0	0.3	..	3,194.2
116.7	50.7	29,747.9	2,428.8	2,942.2	430.8	25.4	1,650.4	195,661.9

Inland (rail and river-borne) Trade of India.



APPENDIX XXII.

Trade (coastal) in groundnuts between different provinces of India.\*

(Thousand tons).

Province.	Arrivals.								Despatches.							
	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	Average.	1938-39.	1939-40.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	Average.	1938-39.	1939-40.
Madras .. .. .	0.2	0.3	0.9	0.2	†	0.3	†	†	2.4	27.8	5.2	7.5	14.4	11.5	4.5	9.2
Bombay .. .. .	4.5	8.8	2.5	7.4	12.5	7.1	4.6	10.5	2.3	2.5	2.4	1.7	1.4	2.1	1.4	14.0
Bengal .. .. .	2.6	18.5	4.8	3.7	7.7	7.5	1.9	2.0	..	†	†	†	..	†	..	†
Sind .. .. .	1.8	3.2	2.2	1.7	3.0	2.4	5.1	7.8	†	†	†	†	†	†	†	†
Total .. .. .	9.1	30.8	10.4	13.0	23.2	17.3	11.6	20.3	4.7	30.3	7.6	9.2	15.8	13.6	5.9	23.2

Source.—Adapted from Accounts relating to the Coasting Trade and Navigation of British India.

\* Including arrivals from and despatches to non-British ports in India (Kathiawar States ports, French and Portuguese ports in India).

† Less than 100 tons.

APPENDIX XXIII.

*Average monthly prices of groundnut kernels (Coromandel—machine decorticated) at London.*

(Per ton).

Month.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
April .. ..	20 7 6	18 0 0	16 6 8	12 3 2	15 18 9	10 13 2	8 2 10	14 10 4	13 17 10	15 0 9	10 3 2	10 9 5
May .. ..	21 0 0	17 18 9	15 11 0	11 0 0	15 8 5	11 5 8	8 18 2	15 5 0	13 11 0	14 1 3	10 5 0	11 14 2
June .. ..	21 2 0	17 15 0	14 9 2	11 5 4	13 19 5	11 15 9	8 11 6	14 10 11	14 2 6	14 9 1	10 7 11	11 19 9
July .. ..	21 12 6	19 13 9	14 15 0	12 1 6	15 1 6	11 13 9	8 16 3	13 10 5	15 5 9	15 1 6	10 16 3	11 11 3
August .. ..	21 10 0	20 5 0	14 9 0	11 18 5	15 3 2	10 15 8	10 5 6	14 14 0	15 19 1	13 15 8	10 9 8	12 1 3
September .. ..	21 11 3	20 15 0	13 5 0	12 11 7	14 19 3	10 3 6	10 19 8	14 0 8	15 4 1	13 6 11	10 9 9	12 2 6*
October .. ..	20 18 9	19 11 3	12 7 0	14 1 6	13 16 7	9 15 4	11 14 8	15 2 6	14 3 0	13 12 3	10 3 9	12 2 6†
November .. ..	20 10 0	18 12 0	12 8 2	14 3 5	13 5 0	9 15 4	10 15 3	13 12 9	14 12 10	12 5 11	10 0 8	13 7 6‡
December .. ..	20 1 3	18 0 0	11 1 8	13 3 6	13 7 2	9 6 3	11 12 6	13 14 5	16 4 8	11 14 0	10 2 3	14 13 6‡
January .. ..	19 3 9	16 17 0	9 19 6	14 11 11	13 6 11	8 17 6	14 9 5	14 7 9	16 3 9	11 4 1	10 5 4	14 15 6‡
February .. ..	19 5 0	16 2 6	10 18 9	17 5 8	12 4 8	8 12 2	15 2 2	13 16 3	14 14 11	10 12 10	10 7 6	14 17 6‡
March .. ..	18 7 6	15 11 3	12 6 11	17 13 9	11 5 0	8 4 0	13 9 0	13 14 1	15 6 3	10 9 1	10 6 3	15 3 6‡
Annual average .. ..	20 9 2	18 5 2	13 3 2	13 10 0	13 19 8	10 1 6	11 1 5	14 4 11	14 18 10	12 19 5	10 6 6	12 18 3

\* One quotation on 1st September, 1939.

† Government controlled price.

‡ Average of government controlled prices for first 2 weeks and shippers' quotations for the other 2 weeks.

§ Shippers' quotations on the basis of government insurance and freight from 17th November, 1939.

Source.—Indian Trade Journal up to August, 1939, and Oilseed and Grain Reporter, London, from September, 1939.

APPENDIX XXIV.

*Average monthly prices of groundnut kernels (Coromandel—machine decorticated) at Madras.*

(Per ton).

Month.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.	1940-41.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April ..	257 4 0	201 10 0	183 11 0	131 1 0	132 5 0	109 13 0	79 0 0	165 15 0	152 4 0	163 4 0	107 5 0	110 0 0	148 4 0
May ..	257 10 0	209 11 0	193 1 0	122 1 0	173 14 0	117 15 0	90 1 0	175 8 0	150 8 0	154 11 0	120 6 0	124 7 0	145 0 0
June ..	260 2 0	193 5 0	190 6 0	115 10 0	132 6 0	123 6 0	88 12 0	170 7 0	160 7 0	155 4 0	112 15 0	133 1 0	124 5 0
July ..	263 9 0	208 7 0	184 13 0	129 15 0	135 1 0	122 11 0	93 8 0	156 6 0	172 3 0	159 3 0	119 4 0	126 6 0	107 4 0
August ..	262 15 0	231 13 0	170 4 0	131 1 0	165 10 0	111 18 0	105 10 0	164 4 0	181 3 0	145 15 0	113 9 0	129 14 0	107 12 0
September ..	258 3 0	234 10 0	156 1 0	126 0 0	160 5 0	104 13 0	115 10 0	154 4 0	167 0 0	132 8 0	107 15 0	130 12 0	111 9 0
October ..	259 0 0	232 2 0	133 1 0	139 12 0	151 14 0	97 9 0	126 12 0	161 6 0	153 10 0	134 6 0	105 4 0	133 2 0	108 15 0
November ..	248 5 0	218 15 0	134 6 0	143 2 0	135 15 0	97 10 0	117 2 0	145 3 0	157 10 0	124 11 0	103 7 0	137 10 0	93 13 0
December ..	248 10 0	222 14 0	118 3 0	130 1 0	136 12 0	91 14 0	120 11 0	146 10 0	165 4 0	120 3 0	108 2 0	134 14 0	91 4 0
January ..	244 7 0	211 11 0	110 14 0	151 8 0	141 10 0	87 0 0	157 9 0	156 1 0	174 4 0	114 3 0	109 3 0	132 10 0	88 3 0
February ..	240 13 0	192 15 0	119 0 0	170 4 0	138 4 0	84 4 0	172 11 0	149 6 0	156 9 0	110 10 0	109 13 0	132 13 0	86 1 0
March ..	213 1 0	181 7 0	132 3 0	187 1 0	120 10 0	80 1 0	157 12 0	149 3 0	163 8 0	110 9 0	108 15 0	139 3 0	93 3 0
Annual average	251 3 0	211 10 0	152 3 0	139 12 0	152 14 0	102 6 0	118 12 0	157 15 0	162 14 0	135 7 0	110 8 0	130 6 0	108 13 0

Source.—Indian Trade Journal. Prices per 500 lb. converted to per ton, to nearest anna.

APPENDIX XXV.

*Average monthly prices of groundnut kernels (Bombay Bold—machine decorticated) at Bombay.*

(Per ton).

Month.	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.	1940-41.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April ..	230 15 0	210 3 4	188 10 8	180 0 0	181 12 4	115 0 0	82 6 4	169 1 0	156 14 0	171 4 0	105 18 4	109 2 8	152 8 0
May ..	240 0 0	206 14 0	180 8 4	121 7 4	172 8 0	120 6 8	90 0 0	174 4 4	156 12 4	166 4 0	109 13 6	125 0 0	149 4 0
June ..	246 12 4	200 15 0	168 7 0	123 7 0	157 3 0	123 10 4	87 6 4	165 10 0	174 9 4	162 3 0	114 3 6	128 2 0	129 4 0
July ..	251 14 0	220 15 0	170 5 0	134 12 8	172 3 0	123 5 4	90 8 4	157 13 0	193 2 0	161 0 8	119 6 0	121 9 0	121 15 0
August ..	247 7 0	229 1 0	166 14 0	136 0 8	169 1 0	114 11 0	104 4 4	165 3 4	217 8 0	149 6 0	109 11 0	126 10 8	108 15 0
September ..	253 12 0	237 18 0	151 9 0	132 3 0	160 15 0	107 1 4	112 1 4	152 8 0	222 8 0	136 3 4	105 3 4	135 3 4	113 2 0
October ..	244 6 0	219 1 0	130 10 0	155 15 0	143 7 0	98 12 0	125 5 0	157 3 0	166 14 0	134 4 4	104 6 0	135 0 0	117 8 0
November ..	221 7 4	207 4 8	132 3 0	145 15 0	137 11 4	100 15 0	118 0 4	151 15 8	160 0 0	123 2 0	104 6 0	150 5 0	112 1 0
December ..	218 2 0	202 8 0	113 2 0	135 15 0	139 7 8	95 11 8	139 11 0	152 3 0	166 15 8	121 5 8	112 8 0	161 7 4	105 15 0
January ..	216 10 8	193 0 4	108 12 0	155 0 0	146 14 0	92 13 0	178 2 0	158 5 4	175 15 0	118 7 0	111 4 0	151 9 0	103 9 0
February ..	215 10 0	188 0 4	121 10 8	201 14 0	136 4 0	92 11 4	172 8 0	151 7 4	167 3 0	113 5 4	110 2 6	145 5 0	102 0 0
March ..	212 4 8	174 1 0	135 0 0	203 2 0	123 2 0	86 2 4	160 0 0	154 9 4	172 8 0	112 6 4	108 13 8	148 15 4	115 15 0
Annual average	233 4 5	207 7 9	147 2 4	147 15 8	153 6 0	105 15 0	121 11 1	159 2 11	177 0 1	139 0 4	109 10 11	136 8 5	119 5 0

Source.—Adapted from Indian Trade Journal.

APPENDIX XXVI.

Number of occasions on which the weekly closing "futures" prices were at a premium (+) or discount (-) as compared with "ready" prices at Bombay.

Month.	1931-32.			1932-33.			1933-34.			1934-35.			1935-36.		
	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.
	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -
April .. .. .	..	2 0	1 0	..	..	..	..	3 1	3 0	..	2 1	3 0	..	2 1	2 0
May .. .. .	..	1 2	3 1	..	..	..	..	1 2	4 0	..	3 1	4 0	..	3 1	5 0
June .. .. .	..	..	4 0	..	..	..	..	..	5 0	1 0	..	5 0	..	..	3 1
July .. .. .	..	..	2 2	..	..	..	4 0	..	2 2	3 0	..	1 2	0 3	..	0 3
August .. .. .	0 2	..	2 2	0 2	..	..	2 0	..	2 0	4 0	..	0 3	0 4	..	1 3
September .. .. .	0 4	..	..	0 5	..	..	5 0	..	..	3 0	..	..	0 4	..	..
October .. .. .	0 5	..	..	0 4	..	..	4 0	..	..	3 0	..	..	0 4	..	..
November .. .. .	0 4	..	..	0 2	..	..	3 0	..	..	4 0	..	..	0 4	..	..
December .. .. .	1 3	..	..	0 5	..	..	5 0	..	..	4 0	..	..	4 0	..	..
January .. .. .	..	..	..	1 3	2 0	..	4 0	..	..	2 2	3 0	..	4 1	3 0	..
February .. .. .	1 3	..	..	2 2	3 1	..	1 2	3 0	..	3 1	4 0	..	0 3	3 0	..
March .. .. .	..	..	..	..	4 0	..	..	4 0	..	..	4 0	..	..	4 0	..
Annual total	2 21	8 2	12 5	3 23	9 1	..	28 2	11 3	16 2	27 3	16 2	13 5	8 23	15 2	11 7

## APPENDIX XXVI—contd.

Month.	1936-37.			1937-38.			1938-39.			1939-40.			Monthly total for 9 seasons.		
	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.	Feb- ruary delivery.	May delivery.	August delivery.
	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -
April .. ..	..	3 0	1 0	..	2 2	3 0	..	4 0	3 0	..	3 0	..	..	21 5	16 0
May .. ..	..	3 1	4 1	..	0 3	4 0	..	2 2	4 0	..	2 1	3 0	..	15 13	31 2
June .. ..	..	..	4 0	..	..	4 0	..	..	4 0	..	..	4 0	1 0	..	33 1
July .. ..	0 1	..	2 0	0 4	..	3 2	3 0	..	2 2	..	..	1 2	10 8	..	13 15
August .. ..	0 2	..	2 0	0 3	..	0 3	3 0	..	1 2	0 1	..	0 1	9 14	..	8 14
September .. ..	0 2	..	..	1 3	..	..	5 0	..	..	2 0	..	..	16 18	..	..
October .. ..	0 3	..	..	0 4	..	..	3 0	..	..	4 0	..	..	14 20	..	..
November .. ..	2 0	..	..	2 1	..	..	4 0	..	..	3 0	..	..	18 11	..	..
December .. ..	5 0	..	..	5 0	1 0	..	4 0	..	..	3 0	..	..	31 8	1 0	..
January .. ..	2 2	3 0	..	3 1	4 0	..	4 0	3 0	..	4 0	1 0	..	24 9	19 0	..
February .. ..	0 3	4 0	..	3 1	4 0	..	2 1	4 0	..	1 1	3 1	..	13 17	23 2	..
March .. ..	..	4 0	..	..	4 0	..	..	4 0	..	..	2 0	..	..	30 0	..
Annual total ..	9 13	17 1	13 1	14 17	15 5	14 5	23 1	17 2	14 4	17 2	11 2	8 3	136 105	114 20	101 32

APPENDIX XXVII.

Average monthly "ready" and "futures" prices of groundnut kernels (Bold) at Bombay.  
(Per cwt.)

Month.	1931-32.			1932-33.			1933-34.					
	"Ready."	"Futures."			"Ready."	"Futures."			"Ready."	"Futures."		
		February.	May.	August.		February.	May.	August.		February.	May.	August.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. ..	6 8 0	..	6 9 6	6 11 10	9 1 5	..	..	..	5 12 0	..	5 14 4	6 4 5
May .. ..	6 1 2	..	6 1 2	6 4 4	8 10 0	..	..	..	6 0 5	..	6 0 2	6 7 10
June .. ..	6 2 9	..	..	6 4 2	7 12 9	..	..	..	6 2 11	..	..	6 9 0
July .. ..	6 11 11	..	..	6 12 2	8 9 10	..	..	..	6 2 2	6 6 11	..	6 2 5
August .. ..	6 12 11	5 10 11	..	6 12 5	6 7 2	7 0 2	..	..	5 11 9	5 15 11	..	5 10 10
September .. ..	6 9 9	5 12 1	..	..	8 0 10	7 2 2	..	..	5 5 2	5 2 4	..	..
October .. ..	7 12 10	6 7 0	..	..	7 2 9	6 11 2	..	..	4 15 0	5 2 5	..	..
November .. ..	7 4 9	6 10 4	..	..	6 14 2	6 9 5	..	..	5 0 9	5 2 10	..	..
December .. ..	6 12 10	6 11 4	..	..	6 15 7	6 12 9	..	..	4 12 7	4 15 10	..	..
January .. ..	7 12 0	..	..	..	7 5 6	7 4 4	7 5 4	..	4 10 2	4 12 5	..	..
February .. ..	10 1 6	9 14 7	..	..	6 12 0	6 11 2	6 12 2	..	4 10 2	4 10 2	4 15 0	..
March .. ..	10 2 6	..	..	..	6 2 6	..	6 9 2	..	4 5 11	..	4 9 1	..

Source.—Seed Traders Association.

APPENDIX XXVII—contd.

Average monthly "ready" and "futures" prices of groundnut kernels (Bold) at Bombay—contd.  
(Per cwt.)

Month.	1934-35.				1935-36.				1936-37.			
	"Ready."	"Futures."			"Ready."	"Futures."			"Ready."	"Futures."		
		February.	May.	August.		February.	May.	August.		February.	May.	August.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. ..	4 1 11	..	4 2 11	4 6 3	8 7 3	..	8 7 7	8 14 0	7 13 6	..	7 15 9	8 2 2
May .. ..	4 8 0	..	4 8 10	4 13 0	8 11 2	..	8 12 4	9 1 0	7 13 5	..	7 14 10	7 15 3
June .. ..	4 5 11	4 13 10	..	4 8 9	8 4 6	..	..	8 4 11	8 11 8	..	..	9 1 6
July .. ..	4 8 5	5 0 1	..	4 7 8	7 14 3	6 10 6	..	7 13 6	9 10 6	7 13 10	..	10 4 3
August .. ..	5 3 5	5 9 2	..	4 12 10	8 5 2	6 12 5	..	8 4 5	10 14 0	8 11 10	..	11 3 7
September .. ..	5 9 8	6 2 0	..	..	7 10 0	6 10 11	..	..	11 0 8	7 14 3	..	..
October .. ..	6 4 3	6 8 7	..	..	7 13 9	7 5 4	..	..	8 5 6	7 10 6	..	..
November .. ..	5 14 5	6 6 11	..	..	7 9 7	7 4 2	..	..	8 0 0	8 2 6	..	..
December .. ..	6 15 9	7 4 1	..	..	7 9 9	7 12 9	..	..	8 5 7	8 14 6	..	..
January .. ..	8 14 6	9 1 8	9 10 8	..	7 14 8	8 0 5	8 1 7	..	8 12 9	8 14 0	9 2 8	..
February .. ..	8 10 0	8 10 4	9 1 11	..	7 9 2	7 8 1	7 11 9	..	8 5 9	8 6 0	8 10 11	..
March .. ..	8 0 0	..	8 4 11	..	7 11 8	..	7 14 8	..	8 10 0	..	8 12 11	..

Source.—Seed Traders Association.



APPENDIX XXVII—concl'd.

Average monthly "ready" and "futures" prices of groundnut kernels (Bold) at Bombay—concl'd.  
(Per cwt.)

Month.	1937-38.				1938-39.				1939-40.			
	"Ready."	"Futures."			"Ready."	"Futures."			"Ready."	"Futures."		
		February.	May.	August.		February.	May.	August.		February.	May.	August.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. ..	8 9 0	..	8 9 8	8 13 4	5 4 8	..	5 6 10	5 10 10	5 7 4	..	5 7 9	..
May .. ..	8 5 0	..	8 4 4	8 8 8	5 7 11	..	5 7 1	5 10 5	6 4 0	..	6 4 1	6 10 3
June .. ..	8 1 9	..	..	8 2 10	5 11 5	..	..	5 13 0	6 6 6	..	..	6 9 1
July .. ..	8 0 10	7 11 9	..	8 1 2	5 12 5	6 3 6	..	5 13 2	6 1 3	..	..	6 3 11
August .. ..	7 7 6	6 15 9	..	7 3 3	5 7 9	5 13 7	..	5 7 9	6 5 4	6 3 0	..	6 4 10
September .. ..	6 12 2	6 10 5	..	..	5 4 2	5 6 9	..	..	6 12 2	7 1 0	..	..
October .. ..	6 11 5	6 8 5	..	..	5 3 6	5 5 1	..	..	6 12 0	7 4 6	..	..
November .. ..	6 2 6	6 4 7	..	..	5 3 5	5 5 0	..	..	7 8 3	8 1 0	..	..
December .. ..	6 1 0	6 3 5	6 4 5	..	5 9 11	5 11 8	..	..	8 1 2	9 0 6	..	..
January .. ..	5 14 9	5 15 8	6 3 8	..	5 9 2	5 10 7	5 13 4	..	7 9 3	7 15 3	8 3 5	..
February .. ..	5 10 8	5 11 0	5 14 7	..	5 8 2	5 8 2	5 11 10	..	7 4 3	7 7 3	7 10 5	..
March .. ..	5 9 11	..	5 12 4	..	5 7 2	..	5 9 7	..	7 7 2	..	7 14 1	..

Source.—Seed Traders Association.

APPENDIX XXVIII.

Market charges on groundnuts in shell in certain assembling markets in the Madras Presidency.  
(Per 100 rupees).

Items.	Adoni.	Bezwada.	Hindupur.	Tuticorin.	Virudhu- nagar.	Average.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<i>Payable by seller—</i>						
Tolls and taxes (terminal tax, octroi, market cess, etc.) ..	0 4 3	..	0 4 5	..	..	0 1 9
Commission and brokerage .. .. .	1 9 0	1 9 10	3 10 4	2 9 6	2 13 6	2 7 3
Handling and weightment charges .. .. .	0 10 6	0 15 3	0 11 0	0 11 0	0 13 3	0 12 2
Charities .. .. .	0 2 0	0 1 4	0 12 6	0 4 0	0 4 0	0 4 9
Quality allowance .. .. .	(a)	(a)	(a)	(a)	(a)	(a)
Miscellaneous .. .. .	0 6 1	..	1 7 7	..	..	0 5 11
<b>Total payable by seller .. .. .</b>	<b>2 15 10</b>	<b>2 10 5</b>	<b>6 13 10</b>	<b>3 8 6</b>	<b>3 14 9</b>	<b>3 15 10</b>
<i>Payable by buyer—</i>						
Commission and brokerage .. .. .	..	..	..	..	2 13 6	0 9 1
Handling and weightment charges .. .. .	..	..	..	..	..	..
Charities .. .. .	..	..	..	..	..	..
<b>Total payable by buyer .. .. .</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>2 13 6</b>	<b>0 9 1</b>
<b>Grand total .. .. .</b>	<b>2 15 10</b>	<b>2 10 5</b>	<b>6 13 10</b>	<b>3 8 6</b>	<b>6 12 3</b>	<b>4 8 11</b>

(a) Quality taken into consideration in offering prices.

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APPENDIX XXIX.

Market charges on groundnuts in shell and kernels in certain assembling markets in the Bombay Presidency. <sup>14</sup>

(Per 100 rupees).

	Groundnuts in shell.						Kernels.
	Dhulia.	Amalner.	Jalgaon.	Bijapur.	Kolhapur.	Average.	Sholapur.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<i>Payable by seller—</i>							
Tolls and taxes (terminal tax, octroi, market cess, etc.)	...	0 3 6	0 4 3	1 6 3	1 1 0	0 9 5	0 10 0
Commission and brokerage .. .. .	2 9 0	2 1 6	1 6 3	3 2 0	3 2 0	2 7 4	..
Handling and weightment charges .. .. .	0 13 9	1 1 0	1 1 0	1 3 6	0 8 3	0 15 1	0 10 0
Charities .. .. .	0 2 9	0 11 0	0 11 0	0 8 3	0 2 9	0 7 2	0 0 10
Quality allowance .. .. .	7 4 9	7 4 9	8 8 0	7 4 9	4 12 6	7 0 7	1 13 5
Miscellaneous .. .. .	..	..	..	..	0 5 6	0 1 1	..
<b>Total payable by seller ..</b>	<b>10 14 3</b>	<b>11 5 9</b>	<b>11 14 6</b>	<b>13 8 9</b>	<b>10 0 0</b>	<b>11 8 8</b>	<b>3 2 3</b>
<i>Payable by buyer—</i>							
Commission and brokerage .. .. .	..	..	..	..	..	..	..
Handling and weightment charges .. .. .	..	..	..	..	..	..	..
Charities .. .. .	..	..	..	..	..	..	..
<b>Total payable by buyer</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>
<b>Grand total .. .. .</b>	<b>10 14 3</b>	<b>11 5 9</b>	<b>11 14 6</b>	<b>13 8 9</b>	<b>10 0 0</b>	<b>11 8 8</b>	<b>3 2 3</b>

APPENDIX XXX.

Market charges on groundnuts in shell in certain assembling markets in the Central Provinces.

(Per 100 rupees).

	Akola.	Burhanpur.	Khamgaon.	Khandwa.	Malkapur.	Average.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<i>Payable by seller—</i>						
Tolls and taxes (terminal tax, octroi, market cess, etc.) ..	1 15 0	1 15 0	0 10 0	1 6 0	0 6 3	1 4 1
Commission and brokerage .. .. .	1 11 0	1 9 0	1 2 0	0 10 0	1 6 6	1 4 6
Handling and weightment charges .. .. .	1 15 0	2 13 0	0 10 9	1 8 0	0 9 0	1 7 11
Charities .. .. .	2 8 0	2 8 0	3 14 0	2 10 6	2 8 0	2 12 11
Quality allowance .. .. .	10 0 0	(a)	10 0 0	(a)	(a)	4 0 0
Miscellaneous .. .. .	..	..	..	..	..	..
<b>Total payable by seller .. .. .</b>	<b>18 1 0</b>	<b>8 13 0</b>	<b>16 4 9</b>	<b>6 2 6</b>	<b>4 13 9</b>	<b>10 13 5</b>
<i>Payable by buyer—</i>						
Commission and brokerage .. .. .	1 15 0	1 0 0	0 2 0	..	..	0 9 10
Handling and weightment charges .. .. .	..	..	0 5 0	..	0 2 9	0 1 6
Charities .. .. .	..	..	0 2 0	..	..	0 0 5
<b>Total payable by buyer .. .. .</b>	<b>1 15 0</b>	<b>1 0 0</b>	<b>0 9 0</b>	<b>..</b>	<b>0 2 9</b>	<b>0 11 9</b>
<b>Grand total .. .. .</b>	<b>20 0 0</b>	<b>9 13 0</b>	<b>16 13 9</b>	<b>6 2 6</b>	<b>5 0 6</b>	<b>11 9 2</b>

(a) Quality taken into consideration in offering prices.

APPENDIX -XXXI.

Market charges on groundnuts in shell in certain assembling markets in Hyderabad.  
(Per 100 rupees).

	Unregulated markets.						Regulated markets.					
	Bidar.	Gulbarga.	Tandur.	Vijapur.	Yadgir.	Average.	Aurang-abad.	Jalna.	Latur.	Raichur.	Warangal.	Average.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<i>Payable by seller—</i>												
Tolls and taxes (terminal tax, octroi, market cess, etc.) .. ..	0 6 9	0 8 10	0 12 6	0 2 5	..	0 6 1	0 1 3	0 7 9	0 6 9	0 11 0	0 4 6	0 6 3
Commission and brokerage	2 12 0	2 0 0	2 1 3	1 4 0	1 8 0	1 14 8	2 4 0	1 4 0	1 13 0	1 0 0	1 4 0	1 8 2
Handling and weighment charges .. ..	..	0 2 6	0 9 3	0 7 3	0 8 8	0 5 7	0 4 10	0 4 6	..	0 8 10	1 0 9	0 6 7
Charities .. ..	0 1 9	0 3 0	0 4 0	0 8 0	0 3 9	0 4 1	..	..	0 2 3	0 0 3	..	0 0 6
Quality allowance .. ..	..	5 0 0	1 14 0	..	..	1 6 0	..	..	..	5 0 0	..	1 0 0
Miscellaneous .. ..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Total payable by seller..</b>	<b>3 4 6</b>	<b>7 14 4</b>	<b>5 9 0</b>	<b>2 5 8</b>	<b>2 4 5</b>	<b>4 4 5</b>	<b>2 10 1</b>	<b>2 0 3</b>	<b>2 6 0</b>	<b>7 2 1</b>	<b>2 9 3</b>	<b>3 5 6</b>
<i>Payable by buyer—</i>												
Commission and brokerage	..	..	..	..	..	..	..	..	..	0 12 0	..	0 2 5
Handling and weighment charges .. ..	..	..	..	..	0 8 8	0 1 9	..	..	..	0 6 10	..	0 1 4
Charities .. ..	..	..	..	..	..	..	..	..	..	0 0 3	..	0 0 1
<b>Total payable by buyer</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>0 8 8</b>	<b>0 1 9</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>1 3 1</b>	<b>..</b>	<b>0 3 10</b>
<b>Grand total ..</b>	<b>3 4 6</b>	<b>7 14 4</b>	<b>5 9 0</b>	<b>2 5 8</b>	<b>2 13 1</b>	<b>4 6 2</b>	<b>2 10 1</b>	<b>2 0 3</b>	<b>2 6 0</b>	<b>8 5 2</b>	<b>2 9 3</b>	<b>3 9 4</b>

APPENDIX XXXII.

Market charges on groundnuts in shell in certain assembling markets in the United Provinces, Mysore, Central India, Baroda and Kathiawar States.

(Per 100 rupees).

	Madhoganj (United Provinces).	Lakhimpur (United Provinces).	Tumkur (Mysore).	Indore (Central India).	Shivpuri* (Gwalior).	A market in Baroda State.	A market in Jamnagar State.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<i>Payable by seller—</i>							
Tolls and taxes (terminal tax, octroi, market cess, etc.) .. .. .	0 2 6	0 9 6	.. .. .	.. .. .	0 4 0	0 2 9	3 8 9
Commission and brokerage .. .. .	1 5 0	1 14 0	3 2 0	1 11 0	1 2 0	3 4 0	2 4 0
Handling and weightment charges .. .. .	0 10 0	1 13 6	0 9 6	1 11 3	0 5 0	2 2 9	0 6 9
Charities .. .. .	0 8 0	1 9 0	0 2 0	.. .. .	0 1 0	2 8 0	.. .. .
Quality allowance .. .. .	0 9 6	.. .. .	6 4 0	2 8 0	.. .. .	.. .. .	.. .. .
Miscellaneous .. .. .	0 4 3	0 7 2	0 8 6	.. .. .	.. .. .	.. .. .	.. .. .
<b>Total payable by seller .. .. .</b>	<b>3 7 3</b>	<b>6 5 2</b>	<b>10 10 0</b>	<b>5 14 3</b>	<b>1 12 0</b>	<b>8 1 6</b>	<b>6 3 6</b>
<i>Payable by buyer—</i>							
Commission and brokerage .. .. .	.. .. .	.. .. .	.. .. .	0 4 0	0 2 0	.. .. .	.. .. .
Handling and weightment charges .. .. .	1 9 0	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Charities .. .. .	0 1 3	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
<b>Total payable by buyer .. .. .</b>	<b>1 10 3</b>	<b>.. .. .</b>	<b>.. .. .</b>	<b>0 4 0</b>	<b>0 2 0</b>	<b>.. .. .</b>	<b>.. .. .</b>
<b>Grand total .. .. .</b>	<b>5 1 6</b>	<b>6 5 2</b>	<b>10 10 0</b>	<b>6 2 3</b>	<b>1 14 0</b>	<b>8 1 6</b>	<b>6 3 6</b>

\*Regulated market.

APPENDIX XXXIII.

Price spreads from producer to consumer in the marketing of groundnuts in shell.

	Producer— Dhulia market— oil mill, Dhulia.	Producer— Khamgaon market— agent of oil mill at Khamgaon— oil mill, Nagpur.	Producer— Madhoganj market— wholesale merchant, Madhoganj— <i>arkhaya</i> , Cawnpore— oil mill, Cawnpore.	Producer— Mainpuri market— wholesale merchant, Mainpuri— wholesale merchant, Delhi— retailer— consumer, Delhi.	Producer— Kandorana market— wholesale merchant, Kandorana— Bedi port— <i>arkhaya</i> , Karachi— retailer— consumer, Karachi.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Producer's price for 1 maund of nuts in shell at his holding .. .. .	3 8 0 (88·0)	3 4 0 (67·7)	2 15 6 (77·4)	3 3 0 (49·4)	2 12 0 (42·8)
Handling and cartage charges from village to assembling centre (market or decortivating factory) .. .. .	0 0 9	0 0 9	0 0 9	0 1 0	0 1 0
Producer's price at assembling centre .. .. .	3 8 9 (89·1)	3 4 9 (68·7)	3 0 3 (78·7)	3 4 0 (50·4)	2 13 0 (43·8)
Charges paid by seller at assembling centre .. .. .	0 6 2	0 8 7	0 1 8	0 5 3	0 2 10
Charges paid by buyer at assembling centre .. .. .	..	0 0 3	0 0 10	..	..
Total charges at assembling centre .. .. .	0 6 2	0 9 0	0 2 6	0 5 3	0 2 10
Cost at assembling centre .. .. .	3 14 11 (98·8)	3 13 7 (80·2)	3 2 9 (82·7)	3 9 3 (55·5)	3 15 10 (46·5)
Handling and cartage from assembling centre to buyer's godown .. .. .	0 0 9	..	0 0 2	0 0 6	0 1 0
Wholesaler's or decortivating factory's margin .. .. .	..	..	..	0 1 3	..

Bagging, handling, taxes and cartage from assembling centre to railway station .. .. .	..	0 5 0	..	..	..
Bagging, handling, taxes and cartage from godown, exporter's agency or decorticating factory to railway station .. .. .	..	..	0 3 11	0 4 11	1 0 0*
Cost f.o.r. railway station at assembling centre .. .. .	..	4 2 7 (86.7)	3 6 10 (89.4)	3 15 11 (82.0)	4 0 10 (83.1)
Railway freight on a maund nuts in shell .. .. .	..	0 7 6	0 2 2	0 5 2	0 3 0†
Cost f.o.r. railway station at destination .. .. .	..	4 10 1 (96.4)	3 9 0 (92.0)	4 5 1 (87.0)	4 3 10 (86.0)
Handling and transport charges from railway station to consumer's or exporter's or commission agent's godown .. .. .	..	0 2 9‡	0 2 6‡	0 2 1‡	0 4 0
Charges paid for sale at destination .. .. .	..	..	0 1 10	..	0 1 0
Price of 1 maund nuts in shell at consumer's godown or exporter's port godown .. .. .	3 15 8 (100.0)	4 12 10 (100.0)	3 18 4 (100.0)	..	..
Cost of 1 maund nuts in shell at wholesale market's or commission agent's godown .. .. .	..	..	..	4 7 2 (89.0)	4 8 10 (70.8)
Wholesaler's margin and handling and transport to retailer's shop .. .. .	..	..	..	0 12 0	0 12 0
Cost at retail merchant's shop .. .. .	..	..	..	5 3 2 (80.6)	5 4 10 (82.5)
Retailer's margin .. .. .	..	..	..	1 4 0	1 2 0
Consumer's price .. .. .	..	..	..	6 7 2 (100.0)	6 6 10 (100.0)

\* Including transport from Kandorana to Bedi port and charges at Bedi port.

† Steamer freight.

‡ Including terminal tax.

§ Including expenses at Karachi port.

NOTE.—Figures in brackets represent percentage of consumer's price.



APPENDIX XXXIV.

Price spreads from producer to consumer (or exporter) in the marketing of groundnut kernels.

	Producer— decorticat- ing factory, Salem— exporter's agency— exporter's godown, Cuddalore.	Producer— Dhulia market— wholesale merchant, Dhulia— adalya, Bombay— oil mill, Bombay.	Producer— decorticat- ing factory, Gulbarga— exporter's agency, Gulbarga— exporter's godown, Bombay.	Producer— Raichur market— wholesale merchant, Raichur— oil mill, Raichur.	Producer— Davangere market— wholesale merchant, Davangere— exporter's agency, Davangere— Maringao.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Producer's price for 1 maund of nuts in shell at his holding .. ..	2 14 0 (75.7)	3 8 0 (73.6)	3 15 0 (70.0)	3 6 0 (81.4)	3 0 0 (70.9)
Handling and cartage charges from village to assembling centre (market or decorticating factory) .. ..	0 0 9	0 0 9	0 0 6	0 1 6	0 1 0
Producer's price at assembling centre .. ..	2 14 9 (77.0)	3 8 9 (74.5)	2 15 6 (70.8)	3 7 6 (83.7)	3 1 0 (72.4)
Charges paid by seller at assembling centre .. ..	0 2 0	0 6 2	0 3 9	0 4 7*	0 4 3
Cost at assembling centre .. ..	3 0 9 (80.2)	3 14 11 (82.7)	3 3 3 (76.4)	3 12 1 (90.6)	3 5 3 (78.7)
Handling and cartage from assembling centre to decorticating factory ..	..	0 0 6	..	0 0 9	0 0 5
Decortication charges .. ..	0 1 6	0 0 9	0 1 0	0 1 0	0 1 6
Cost of 28 seers kernels .. ..	3 2 3 (82.7)	4 0 2 (84.3)	3 4 3 (77.9)	3 13 10 (93.2)	3 7 2 (81.5)

Wholesaler's or decorticating factory's margin .. .. .	..	0 1 0	..	0 1 6	0 1 0
Bagging, handling, taxes and cartage from decorticating factory to consumer's godown .. .. .	..	..	..	0 2 3	..
Bagging, handling, taxes and cartage from godown, exporter's agency or decorticating factory to railway station .. .. .	0 3 8	0 2 5	0 5 9	..	0 2 9
Agency commission .. .. .	0 0 3	..	0 0 3	..	0 0 3
Cost f.o.r. railway station at assembling centre .. .. .	3 6 11 (92.0)	4 3 7 (88.8)	3 11 0 (88.0)	..	3 11 3 (87.4)
Railway freight on 26 secr kernels .. .. .	0 5 1	0 6 9	0 7 7	..	0 8 4
Cost f.o.r. railway station at destination .. .. .	3 12 0 (98.8)	4 10 4 (97.7)	4 2 7 (99.3)	..	4 3 6 (99.6)
Handling and transport charges from railway station to consumer's or exporter's or commission agent's godown .. .. .	0 0 9	0 0 6	0 0 6	..	0 0 3
Charges paid for sale at destination .. .. .	..	0 1 3	..	0 0 9	..
Price of 26 secr kernels at consumer's godown or exporter's port godown i.e., consumer's price .. .. .	3 13 9 (100.0)	4 12 1 (100.0)	4 3 1 (100.0)	4 2 4 (100.0)	4 3 8 (100.0)
Consumer's price per maund of kernels .. .. .	5 6 10	6 12 8	5 15 10	5 14 9	6 0 8

\* Includes 8 pice paid by buyer.

N.B.—Figures in brackets represent percentage of consumer's price.

APPENDIX XXXV.

*Oil content, percentage of moisture and free fatty acids in commercial samples of groundnut kernels collected from different parts of India.*

Variety and province or State.	Oil content (calculated on dry weight of clean kernels).			Moisture.			Free fatty acids.		
	Maximum. (Per cent).	Minimum. (Per cent).	Average. (Per cent).	Maximum. (Per cent).	Minimum. (Per cent).	Average. (Per cent).	Maximum. (Per cent).	Minimum. (Per cent).	Average. (Per cent).
<i>Peanuts (including Khandesh and Khandesh Quality)—</i>									
Madras .. .. .	53.9	41.1	50.2	19.9	3.8	6.5	2.10	0.09	0.69
Bombay .. .. .	55.5	50.5	52.0	6.1	3.5	5.3	2.40	0.12	1.05
Hyderabad .. .. .	51.9	48.9	50.2	5.6	3.3	4.5	1.80	0.11	0.78
Central Provinces .. .. .	..	..	54.6	..	..	5.1	..	..	0.14
Mysore .. .. .	..	..	51.4	..	..	4.7	..	..	0.21
Average .. .. .	..	..	51.1	..	..	5.6	..	..	0.83
<i>Coromandel (including Karad)—</i>									
Madras .. .. .	56.9	43.6	50.7	13.0	3.5	5.3	7.10	0.10	1.35

Bombay	..	..	..	54.9	47.0	50.5	5.8	4.8	5.2	1.6	0.56	0.89
Hyderabad	..	..	..	52.1	49.8	50.9	4.7	4.3	4.5	1.80	0.69	1.25
Mysore	..	..	..	..	..	45.5	..	..	5.5	..	..	0.10
Average	..	..	..	..	..	50.7	..	..	5.1	..	..	1.32
<i>Red Natal (including Pollachi Red and Small Japan)—</i>												
Madras	..	..	..	50.8	47.6	48.8	6.7	5.8	6.2	6.80	1.20	3.84
Bombay	..	..	..	..	..	51.5	..	..	5.2	..	..	2.80
Central Provinces	..	..	..	..	..	54.0	..	..	5.5	..	..	0.34
Average	..	..	..	..	..	49.9	..	..	5.9	..	..	3.19
<i>Bold—</i>												
Bombay	..	..	..	52.8	45.6	49.1	6.5	4.7	4.8	3.17	0.14	0.64
Hyderabad	..	..	..	52.2	45.7	50.0	6.1	3.6	5.2	0.66	0.07	0.26
Average	..	..	..	..	..	49.5	..	..	5.0	..	..	0.51

APPENDIX XXXVI.

*Damaged, slightly damaged, shrivelled and immature and split and broken kernels, nooks and impurities in commercial samples of groundnut kernels collected from different parts of India.*

Variety and province or State.	Damaged kernels.			Slightly damaged kernels.			Shrivelled and immature kernels.			Split and broken kernels.			Nooks.			Impurities.			Total of averages under different items.
	Max. (Per cent).	Min. (Per cent).	Average (Per cent).	Max. (Per cent).	Min. (Per cent).	Average (Per cent).	Max. (Per cent).	Min. (Per cent).	Average (Per cent).	Max. (Per cent).	Min. (Per cent).	Average (Per cent).	Max. (Per cent).	Min. (Per cent).	Average (Per cent).	Max. (Per cent).	Min. (Per cent).	Average (Per cent).	
<i>Peanuts (including Khandesh and Khandesh Quality)—</i>																			
Madras .. .. .	12.5	NH	0.6	3.2	NH	0.5	15.7	0.6	6.0	53.7	NH	11.6	5.3	NH	0.5	5.5	0.1	1.4	20.6
Bombay .. .. .	10.1	NH	1.3	5.5	NH	1.8	8.0	0.8	3.5	57.8	8.8	25.6	3.5	NH	1.2	9.0	0.4	3.2	36.6
Hyderabad .. ..	15.8	NH	2.0	4.8	NH	1.5	5.4	0.4	3.1	69.6	NH	42.0	10.2	NH	1.1	12.8	0.2	3.8	53.5
Central Provinces .. .. .	..	..	NH	..	..	NH	..	..	3.0	..	..	16.4	..	..	1.1	..	..	0.4	20.9
Mysore .. .. .	..	..	NH	..	..	NH	..	..	3.0	..	..	21.4	..	..	..	..	..	1.0	25.4
Average .. .. .	..	..	1.2	..	..	1.1	..	..	4.4	..	..	25.1	..	..	0.9	..	..	2.6	35.3
<i>Coromandel (including Karad)—</i>																			
Madras .. .. .	13.3	NH	1.7	12.7	NH	1.2	20.0	NH	5.6	70.5	NH	16.0	10.5	NH	1.5	9.2	NH	1.4	27.4
Bombay .. .. .	6.6	NH	1.1	4.1	NH	1.5	8.0	1.9	4.4	43.0	5.8	23.8	3.9	NH	1.4	5.3	NH	3.2	35.4
Hyderabad .. .. .	2.7	NH	0.7	1.2	NH	0.4	9.8	1.4	4.4	40.2	1.2	12.8	1.3	NH	0.5	2.3	0.3	0.9	10.7
Mysore .. .. .	..	..	1.5	..	..	0.7	..	..	3.4	..	..	32.7	..	..	4.5	..	..	1.7	44.5
Average .. .. .	..	..	1.6	..	..	1.2	..	..	5.5	..	..	16.4	..	..	1.5	..	..	1.5	27.7

Red Natal (including Pollachi Red  
and Small Japan)—

Madras .. .. .	8.1	<i>Nil</i>	3.1	3.7	<i>Nil</i>	1.1	11.9	3.4	5.9	26.1	<i>Nil</i>	8.5	1.3	<i>Nil</i>	0.4	3.1	0.1	1.6	20.6
Bombay .. .. .	0.4	<i>Nil</i>	0.7	5.6	<i>Nil</i>	1.9	3.6	0.6	2.0	26.4	17.7	22.9	4.8	0.3	1.8	3.1	1.6	2.2	31.5
Central Provinces .. .. .	..	..	..	..	..	..	..	..	..	..	..	14.7	..	..	0.7	..	..	0.4	15.8
Average .. .. .	..	..	1.9	..	..	1.2	..	..	5.1	..	..	11.8	..	..	0.7	..	..	1.6	22.3
<b>Bold—</b>																			
Bombay .. .. .	2.6	<i>Nil</i>	0.5	3.4	<i>Nil</i>	1.1	19.0	0.7	3.7	39.4	1.3	16.5	9.5	<i>Nil</i>	1.7	8.9	<i>Nil</i>	2.4	25.9
Hyderabad .. .. .	3.1	<i>Nil</i>	0.3	2.3	<i>Nil</i>	0.4	6.5	0.7	3.0	45.4	0.8	13.1	6.5	<i>Nil</i>	0.6	5.4	0.3	1.4	19.8
Average .. .. .	..	..	0.4	..	..	0.7	..	..	3.3	..	..	14.7	..	..	1.1	..	..	1.9	22.1

## APPENDIX XXXVII.

*Note on results of experiment to determine the rate of development of free fatty acids in whole kernels, immature and shrivelled kernels, broken and split kernels, damaged kernels and nooks.*

One lot of five bags of Coromandel groundnut kernels and another lot of five bags of Peanuts, both of commercial quality, were kept in an exporter's godown at Madras under ordinary storage conditions. Similarly, a lot of 5 bags of Khandesh groundnut kernels and another lot of 5 bags Bold kernels were stored under ordinary conditions in an exporter's godown at Bombay. A sample was drawn from each of the four lots every 15 days—a record being maintained of the weather conditions during the intervening periods—and sent to Coimbatore for examination. The sampling was started in February 1939 and continued upto September 1939 so that 16 fortnightly samples were drawn from each lot, the last set of samples being drawn when the goods had been under storage for 7½ months.

Each sample, on arrival at Coimbatore, was sorted into five components, viz., (i) "wholes", i.e., fully developed sound whole kernels, (ii) "immatures", i.e., partly developed, shrivelled or immature whole kernels, (iii) "damaged", i.e., internally discoloured kernels, (iv) "splits", i.e., kernels broken into two halves or smaller pieces, and (v) nooks, i.e., pieces, ¼th or less than ¼th of a kernel. The percentage of each of the five components in each sample as well as the moisture and fatty acid content of each component was determined. The results obtained from the samples drawn from the four lots referred to above are given on pages 390 to 393. The kernels in the samples drawn in the beginning of the experiment were bright and of good colour, while those towards the end of the experiment appeared rather dull with varying degrees of insect attack, suggesting that the goods had gone out of condition.

The lot of Coromandel kernels, kept for storage at Madras, showed 4.83 per cent moisture and .63 per cent free fatty acids when the first sample was drawn in February. The free fatty acids at this time were .32 per cent in "wholes", 1.40 per cent in "nooks" and 12.63 per cent in "damaged kernels". During the two following fortnights, the weather was dry but the nights were cool and damp with heavy dew at times and the kernels gained .87 per cent moisture in a month's storage. The free fatty acids during this month increased by .19 per cent only. During the fortnight preceding the 4th sample, the weather was hot, both during day and night and the kernels lost .59 per cent moisture. The free fatty acids during this fortnight alone increased by .45 per cent. In subsequent fortnights, samples showed fluctuations in moisture content from 4.80 to 6.50 per cent, but the percentage of free fatty acids increased more or less progressively. The sample drawn after four months' storage showed 5.29 per cent moisture, i.e., a net gain of .46 per cent, that drawn after 6 months' storage showed 5.90 per cent, i.e., a net gain of 1.07 per cent, while that drawn after 7½ months' storage contained 5.72 per cent or a net gain of .89 per cent only. The free fatty acids, on the other hand, increased by .51 per cent after 2 months, 1.61 per cent after 4 months, 2.87 per cent after 6 months and 3.16 per cent after 7½ months' storage. The development of free fatty acids showed a marked difference between the different components. After 7½ months' storage, the free fatty acids increased by nearly 2 per cent in "wholes" and "immatures", 4 per cent in "splits" 12 per cent in "nooks" and as much as nearly 23 per cent in "damaged" kernels.

The lot of Peanuts at Madras behaved in a very similar way. The moisture, which was 4.76 per cent in the first sample, showed a gain in the samples drawn in the second and third weeks and a loss in the 4th fortnight's sample. In subsequent weeks, the moisture content fluctuated from 4.99 to 6.38 per cent. The free fatty acids progressively increased by .20 per cent after 2 months, .88 per cent after four months, 1.29 per cent after 6 months and 1.83 per cent after 7½ months' storage. Among the different components, the increase in free fatty acids after 7½ months' storage amounted to about 1 per cent in "wholes" and "immatures", about 6 per cent in "splits", 13 per cent in "nooks" and over 24 per cent in "damaged" kernels.

The lot of Bombay Bold stored at Bombay had 4.61 per cent moisture and .34 per cent free fatty acids when the first sample was drawn in February. The moisture generally increased when there was an increase in the humidity both during the preceding fortnight and the day of sampling, reaching over 6 per cent in 4 samples. The free fatty acids progressively increased by .31 per cent after 2 months, .64 per cent after 4 months, 1.32 per cent after 6 months and 2.05 per cent after 7½ months' storage. Among the components, as at Madras, the "damaged" kernels and "nooks" showed a considerably higher development of free fatty acids as compared with "wholes" but unlike Madras, the increase was maximum, not in the case of "damaged" kernels, but "nooks". The increase at the end of the experiment amounted to more than 1 per cent in "wholes", 2 per cent in "immatures", 4 per cent in "splits", 13 per cent in "damaged" kernels and nearly 16 per cent in "nooks".

The lot of Khandesh variety at Bombay had 4.75 per cent moisture and .64 per cent free fatty acids when the first sample was drawn. The moisture, as in the case of other varieties, varied in samples drawn at different times, reaching over 6 per cent in 3 samples. The free fatty acids progressively increased by .33 per cent after 2 months, .99 per cent after 4 months, 2.20 per cent after 6 months and 2.85 per cent after 7½ months' storage. Among the components, the free fatty acids at the end of the experiment increased by less than 1 per cent in "wholes", 2 per cent in "immatures", 7 per cent in splits, 6 per cent in damaged kernels and nearly 19 per cent in nooks.

The increase in the free fatty acids in the different varieties after different periods of storage may, therefore, be summarised as under:—

*Increase in free fatty acids in groundnut kernels of different varieties after various periods of storage at Madras and Bombay.*

	Period of storage.			
	2 months.	4 months.	6 months.	7½ months.
Coromandel—Madras .. ..	.51	1.61	2.87	3.16
Peanuts—Madras .. ..	.20	.88	1.29	1.83
Bold—Bombay .. ..	.31	.64	1.32	2.05
Khandesh—Bombay .. ..	.33	.99	2.20	2.85
Average for 4 lots .. ..	.34	1.03	1.92	2.47



The approximate increase in free fatty acids in the different lots and their different components after 7½ months' storage may be summarised as in the table below :—

*Development of free fatty acids in groundnut kernels of different varieties after 7½ months' storage at Madras and Bombay.*

	Percentage of free fatty acids.				
	Coro- mandel.	Peanuts.	Bold.	Khan- desh.	Average.
Wholes .. ..	2	1	1	1	1.25
Immatures .. ..	2	1	2	2	1.75
Splits .. ..	4	6	4	7	5.25
Damaged kernels ..	23	24	13	6	16.50
Nooks .. ..	12	13	16	19	12.00
Average for entire sample	3	2	2	3	2.5

The following conclusions may, therefore, be drawn from the results of the experiment.

1. The moisture content in groundnut kernels varies at different times during storage and appears to be affected by temperature and humidity at the place of storage.\*

2. The free fatty acids increase progressively during storage. The rate of development of free fatty acids is slow during the first two months and becomes faster as the period of storage increases. As the rate of increase also appears to be accelerated by higher temperatures, the increase during a certain length of storage will vary according to the season.

3. The "damaged" kernels and "nooks" develop fatty acids much more and considerably faster than "wholes" and "immatures". "Damaged" kernels deteriorate more quickly at Madras, while "nooks" deteriorate more rapidly at Bombay.

4. The Khandesh variety develops free fatty acids somewhat more rapidly than Bold at Bombay. The sample of Coromandel at Madras showed more increase than Peanuts owing to the former containing a higher percentage of damaged kernels specially in the later samples.

\*It may be noted that in the results obtained by examination of different samples during the experiment, the percentage of moisture in different samples was also affected by the weather conditions prevailing during the period of transit from Madras or Bombay to Coimbatore, and the interval between the arrival and analysis of the sample at Coimbatore.

It is thus essential that if quality of groundnut kernels has to be maintained during long-period storage (or transport), the "damaged" kernels, "nooks" and "splits" should be minimised as much as possible—by picking in the case of "damaged" kernels, by sieving in the case of "nooks" and use of properly adjusted decorticators for avoiding high percentage of "splits". Steps are also necessary to avoid insect pests, as they, besides otherwise deteriorating quality, help to increase the proportion of "nooks" and "damaged" kernels, which contribute to deterioration in quality.

APPENDIX XXXVII—contd.

Results of analysis of samples of groundnut kernels drawn after different periods of storage from a lot of Coromandel variety stored at Madras.

Period of storage.	Weather conditions in the preceding fortnight.	Proportion of different components in the samples.						Percentage of moisture.					Percentage of free fatty acids.						
		W.	S.	I.	D.	N.	Impurities†	W.	S.	I.	D.	N.	Entire sample	W.	S.	I.	D.	N.	Entire sample
*	Dry .. .. .	50.36	29.17	6.89	1.97	0.75	0.86	4.87	4.78	5.39	4.51	4.53	4.83	0.32	0.50	0.97	12.63	1.40	0.63
1 fort-night.	Dry; night cool and damp	61.20	28.40	5.33	2.13	0.30	2.64	5.22	5.26	6.57	5.08	4.89	5.16	0.64	0.50	1.60	17.78	1.56	1.00
2 "	Days dry; heavy dew at nights	59.61	26.64	8.52	1.75	0.31	3.17	5.74	5.88	6.91	5.72	6.21	5.70	0.51	0.59	0.69	16.80	1.78	0.82
3 "	Hot both during day and night	66.62	24.56	5.56	3.20	0.31	..	5.03	5.12	5.87	5.24	5.68	5.11	0.49	1.01	0.96	19.84	2.41	1.27
4 "	Hot and sultry .. .. .	68.06	24.16	5.71	1.26	0.17	0.64	6.60	6.47	7.42	5.99	7.55	6.50	0.70	1.23	1.46	22.10	1.81	1.14
5 "	Rainy, changes into very hot and sultry	65.51	22.27	6.64	2.49	0.12	2.97	6.30	6.21	7.80	6.22	6.82	6.19	0.83	1.45	1.87	21.99	2.86	1.54
6 "	Hot and sultry .. .. .	57.69	26.73	11.32	1.56	0.24	2.46	5.74	5.05	6.08	5.76	6.22	5.68	1.21	2.83	1.53	31.39	5.80	1.69
7 "	Very hot and warm winds during day	63.43	24.12	7.45	2.47	0.22	2.31	5.47	5.71	6.86	5.28	6.03	5.50	1.06	2.91	1.72	24.51	7.15	2.12
8 "	.....	63.05	24.78	8.26	2.26	0.19	1.46	5.17	5.51	6.55	5.14	6.22	5.29	0.97	3.36	2.05	26.96	7.51	2.24
9 "	Alternately fine and hot with occasional drizzles	66.82	22.75	6.38	2.18	0.23	1.64	5.31	5.36	6.67	5.49	5.89	5.33	1.39	3.22	2.49	26.15	7.20	2.41
10 "	Cool weather .. .. .	61.08	27.17	7.39	2.35	0.22	1.79	5.59	5.96	7.75	5.75	6.65	5.76	0.99	4.04	2.52	23.97	9.58	2.47
11 "	Cloudy with drizzles for the major part	58.95	28.52	7.37	2.73	0.19	2.24	4.68	5.10	6.06	4.78	5.54	4.80	1.09	3.74	2.76	25.69	9.07	2.63
12 "	Hot and sultry with heavy winds and passing clouds	60.78	26.58	8.71	2.18	0.43	1.32	5.73	6.11	7.30	5.79	6.99	5.90	2.53	3.81	2.38	31.45	11.85	3.50
13 "	Cloudy .. .. .	55.82	33.83	6.98	1.69	0.41	1.27	6.05	5.77	7.60	6.08	6.17	5.99	1.98	3.37	2.58	33.59	9.67	3.03
14 "	Hot .. .. .	61.02	25.84	7.91	3.04	0.43	1.76	5.63	5.75	7.27	6.27	6.34	5.71	1.83	4.02	3.82	24.40	11.99	3.25
15 "	Hot; rainy towards the end	65.80	23.78	5.70	2.41	0.21	2.10	5.60	5.92	7.27	8.31	6.56	5.72	2.49	4.58	2.89	36.01	13.06	3.79

W—"Wholes"—fully developed sound kernels. S—"Splits"—split or broken kernels. I—"Immatures"—small or partly developed kernels.

D—"Damaged"—damaged kernels. N—"Nooks"—pieces 1/8th or less than 1/8th of a kernel.

\*Sample drawn at the beginning of the experiment in February. † Impurities have been calculated by difference.

APPENDIX XXXVII—contd.

Results of analysis of samples of groundnut kernels drawn after different periods of storage from a lot of Peanut variety stored at Madras.

Period of storage.	Weather conditions in the preceding fortnight.	Proportion of different components in the samples.						Percentage of moisture.						Percentage of free fatty acids.					
		W.	S.	I.	D.	N.	Impurities†	W.	S.	I.	D.	N.	Entire sample	W.	S.	I.	D.	N.	Entire sample
*	Dry .. .. .	67.54	18.24	11.44	0.66	0.35	1.77	4.68	4.89	5.75	5.30	5.07	4.76	0.29	0.34	1.78	10.40	1.23	0.53
1 fort-night.	Dry; night cool and damp	68.26	18.01	9.50	0.86	0.30	3.07	5.52	5.08	6.92	5.60	5.12	5.40	0.22	0.33	1.52	15.66	0.69	0.49
2 "	Days dry; heavy dew at nights	70.50	17.36	6.73	0.56	0.35	4.50	6.03	5.98	7.25	6.12	5.77	5.83	0.24	0.52	0.74	21.01	1.84	0.43
3 "	Hot both during day and night	72.04	15.63	8.80	0.62	0.18	2.73	4.82	4.77	5.67	4.59	4.69	4.75	0.38	0.86	0.76	19.49	2.38	0.60
4 "	Hot and sultry .. ..	71.20	16.78	9.79	0.21	0.17	1.85	6.34	6.15	7.70	7.06	7.06	6.83	0.49	1.03	1.53	25.03	2.10	0.73
5 "	Rainy; changes into very hot and sultry.	72.14	14.78	7.76	0.87	0.17	4.58	6.21	6.20	8.03	6.52	5.65	6.07	0.63	1.88	0.83	22.21	5.06	0.03
6 "	Hot and sultry .. ..	69.50	17.22	10.16	0.45	0.16	2.51	5.95	5.56	6.53	6.19	6.06	5.79	0.67	2.30	1.36	27.52	6.65	1.13
7 "	Very hot and warm winds during day	71.83	15.48	9.46	0.49	0.12	2.62	5.45	5.76	6.68	6.04	5.98	5.48	0.72	3.43	1.23	30.66	6.55	1.32
8 "	.....	68.71	17.40	10.22	0.55	0.19	2.93	5.13	5.28	6.40	5.80	6.35	5.14	0.74	3.54	1.27	24.76	8.43	1.41
9 "	Alternately fine and hot with occasional drizzles.	69.37	16.22	9.00	0.54	0.12	2.75	5.05	5.19	6.34	6.03	6.19	5.06	0.68	2.56	1.73	28.83	7.18	1.26
10 "	Cool weather .. .. .	68.95	18.76	10.03	0.63	0.14	1.49	5.89	5.89	7.32	5.97	6.68	5.95	0.70	5.04	1.10	40.86	12.20	1.81
11 "	Cloudy with drizzles for the major part	70.89	18.75	6.78	0.53	0.18	2.87	5.08	5.11	5.82	5.33	5.53	4.99	0.87	5.34	1.64	29.56	11.80	1.91
12 "	Hot and sultry with heavy winds and passing clouds	70.96	15.29	12.23	0.40	0.29	0.83	5.30	5.72	6.77	4.61	3.79	5.49	0.79	4.81	2.88	34.41	10.28	1.82
13 "	Cloudy .. .. .	67.10	18.59	11.75	0.68	0.28	1.60	5.96	5.62	7.75	6.84	5.42	6.02	2.35	5.45	1.37	28.64	14.13	2.99
14 "	Hot .. .. .	69.02	16.96	10.36	0.48	0.14	3.05	5.67	5.62	6.89	6.48	6.74	5.62	0.74	3.61	1.47	31.77	8.71	1.44
15 "	Hot; rainy towards the end	66.70	19.59	10.60	0.41	0.20	2.50	5.92	5.40	7.40	5.66	5.81	5.83	1.19	6.07	1.98	34.97	14.31	2.37

W—"Wholes"—fully developed sound kernels. S—"Splits"—split or broken kernels. I—"Immatures"—small or partly developed kernels. D—"Damaged"—damaged kernels. N—"Nooks"—pieces 1/8th or less than 1/8th of a kernel.

\*Sample drawn at the beginning of the experiment in February. † Impurities have been calculated by difference.

APPENDIX XXXVII—contd.

Results of analysis of samples of groundnut kernels drawn after different periods of storage from a lot of Bold variety stored at Bombay.

Period of storage.	Weather conditions in the preceding fortnight.				Proportion of different components in the samples.							Percentage of moisture.						Percentage of free fatty acids.					
	Humidity		Temperature.		W.	S.	I.	D.	N.	Impurities†	W.	S.	I.	D.	N.	Entire sample	W.	S.	I.	D.	N.	Entire sample	
	Maximum.	Minimum.	Maximum.	Minimum.																			
*	80	56	87	65	74.64	15.81	6.38	0.46	0.66	2.15	4.50	5.12	6.04	5.30	4.96	4.61	0.28	0.30	0.63	8.15	0.38	0.34	
1 fortnight	86	57	90	68	74.11	16.15	6.28	0.21	0.36	2.91	4.73	4.57	5.36	4.78	4.55	4.61	0.29	0.28	0.40	8.45	0.68	0.31	
2 "	82	42	89	67	71.11	19.12	6.31	0.11	0.57	2.78	5.35	5.03	6.13	5.10	5.15	5.20	0.39	0.51	0.60	12.01	0.95	0.43	
3 "	83	63	92	69	74.74	17.37	5.26	0.12	0.42	2.09	5.18	5.23	6.61	5.29	5.67	5.16	0.57	0.82	0.84	8.17	1.93	0.63	
4 "	83	69	90	73	74.47	16.92	4.17	0.10	0.57	3.77	5.68	5.56	6.89	6.22	5.61	5.50	0.58	0.91	0.96	11.54	2.16	0.65	
5 "	82	61	91	73	73.26	20.05	4.81	0.09	0.35	1.44	4.79	5.25	6.62	5.29	5.81	4.91	0.53	1.19	0.81	23.79	3.01	0.70	
6 "	79	42	96	76	71.80	18.87	6.20	0.06	0.83	2.24	5.17	4.95	6.06	4.70	5.11	5.07	0.72	1.53	1.22	21.84	4.06	0.93	
7 "	75	64	91	79	72.18	15.05	5.87	0.10	0.60	6.20	4.99	4.95	6.10	5.60	5.70	4.75	0.71	1.71	1.04	22.06	4.59	0.88	
8 "	90	67	94	75	71.90	20.00	4.05	0.07	0.55	3.43	6.10	6.05	7.94	6.44	6.87	5.96	0.74	1.81	1.21	9.38	5.55	0.98	
9 "	91	73	91	77	69.28	22.84	5.13	0.09	0.63	2.03	5.90	6.44	8.55	7.30	6.97	6.05	0.93	2.81	1.85	18.94	6.57	1.44	
10 "	95	83	88	72	65.82	23.72	6.53	0.07	0.41	3.45	5.64	5.56	7.17	6.36	5.64	5.53	0.97	2.51	1.80	8.58	7.10	1.39	
11 "	97	80	87	74	66.00	23.75	7.55	0.07	0.65	1.98	6.30	6.22	7.87	7.00	6.98	6.28	1.03	2.98	1.61	14.56	9.24	1.59	
12 "	90	75	89	75	67.39	23.78	5.71	0.15	0.49	2.48	5.86	5.99	8.62	6.71	6.55	5.91	1.01	2.98	3.34	21.53	10.28	1.66	
13 "	94	83	87	72	70.26	20.26	5.41	0.20	0.45	3.42	6.10	6.27	8.41	7.50	6.75	6.06	1.44	4.58	2.23	17.39	12.77	2.15	
14 "	92	72	86	73	67.16	21.96	7.12	0.07	0.71	2.98	5.82	5.83	7.98	7.09	6.02	5.81	1.36	4.30	2.53	29.79	16.13	2.17	
15 "	97	73	87	73	67.36	23.16	6.32	0.12	0.76	2.28	6.35	6.07	8.34	7.44	6.86	6.27	1.50	4.50	2.95	21.30	16.90	2.39	

W—"Wholes"—fully developed sound kernels. S—"Splits"—split or broken kernels. I—"Immatures"—small or partly developed kernels.  
 D—"Damaged"—damaged kernels. N—"Nooks"—pieces 1/8th or less than 1/8th of a kernel.

\* Sample drawn at the beginning of the experiment in February. † Impurities have been calculated by difference.

APPENDIX XXXVII—*conold.*

*Results of analysis of samples of groundnut kernels drawn after different periods of storage from a lot of Khandesh variety stored at Bombay.*

Period of storage.	Weather conditions in the preceding fortnight.				Proportion of different components in the samples.						Percentage of moisture.						Percentage of free fatty acids.					
	Humidity.		Temperature.		W.	S.	I.	D.	N.	Impurities†	W.	S.	I.	D.	N.	Entire sample	W.	S.	I.	D.	N.	Entire sample
	Maxi-mum.	Mini-mum.	Maxi-mum.	Mini-mum.																		
"	80	56	87	66	68.40	22.53	4.71	1.11	0.51	2.74	4.88	4.62	6.01	5.59	4.79	4.75	0.42	0.68	0.85	13.60	1.95	0.84
1 fortnight	86	57	90	68	71.94	22.90	2.55	0.61	0.71	1.29	4.27	4.45	5.56	4.89	4.32	4.29	0.36	0.84	1.35	11.98	1.68	0.57
2 "	82	42	89	67	65.28	26.95	4.66	0.33	0.57	2.21	5.01	4.68	5.81	4.77	4.67	4.84	0.41	1.10	0.70	15.20	3.62	0.87
3 "	83	63	92	69	64.74	26.58	4.00	0.28	0.84	3.56	4.96	4.64	6.04	5.73	5.18	4.67	0.46	1.28	0.90	18.30	4.06	0.76
4 "	83	69	90	73	68.00	26.88	2.74	0.32	0.84	1.32	5.56	5.16	6.96	5.65	4.90	5.42	0.53	1.70	1.25	22.10	5.24	0.97
5 "	82	61	91	73	67.85	26.34	3.07	0.27	0.57	1.90	5.40	4.91	7.16	6.24	5.57	5.23	0.53	2.28	1.14	19.32	5.93	1.08
6 "	79	42	96	76	65.92	27.44	3.66	0.31	0.83	2.04	4.99	4.56	5.84	5.52	4.69	4.77	0.81	2.58	1.13	11.30	6.34	1.37
7 "	75	64	91	79	65.30	28.93	3.19	0.30	0.53	1.75	4.88	4.80	5.85	5.64	4.90	4.81	0.82	2.48	1.32	18.97	6.91	1.39
8 "	90	67	94	75	64.04	27.93	4.25	0.24	0.73	2.81	6.07	5.65	7.52	8.12	5.98	5.85	0.90	3.21	1.32	19.10	8.10	1.63
9 "	91	73	91	77	61.31	31.18	3.48	0.33	0.80	2.90	6.51	6.24	8.24	7.79	6.54	6.30	0.82	4.02	1.49	19.64	10.56	1.96
10 "	95	83	88	72	63.96	28.96	3.37	0.22	0.64	2.85	5.58	5.29	7.13	6.11	5.51	5.39	1.02	4.02	1.79	19.17	11.41	1.99
11 "	87	80	87	74	65.00	27.99	4.38	0.22	0.47	1.94	6.48	6.25	7.93	8.21	6.92	6.36	1.11	4.29	2.03	25.93	13.53	2.13
12 "	90	75	89	75	63.11	30.16	3.60	0.24	0.67	2.22	6.12	6.99	7.76	7.40	6.43	6.01	1.34	5.79	2.73	19.30	16.88	2.84
13 "	94	83	87	72	63.46	29.13	3.38	0.32	0.78	2.93	5.89	6.07	8.86	7.41	6.29	5.88	1.10	6.83	2.83	19.85	20.55	3.01
14 "	92	72	86	73	62.12	30.53	4.06	0.29	0.89	2.11	6.17	5.50	7.44	5.95	6.11	5.89	1.31	6.98	2.80	26.35	23.60	3.35
15 "	97	73	87	73	61.84	30.26	3.16	0.30	2.11	2.33	6.00	5.99	7.76	7.01	6.56	5.93	1.15	7.27	2.75	19.18	20.63	3.49

W—"Wholes"—fully developed sound kernels. S—"Splits"—split or broken kernels. I—"Immatures"—small or partly developed kernels.

D—"Damaged"—damaged kernels. N—"Nooks"—pieces 1/8th or less than 1/8th of a kernel.

\* Sample drawn at the beginning of the experiment in February. † Impurities have been calculated by difference.

*Comparison of terms of groundnut kernels contracts of certain associations and of the basis of admixture*

	Incorporated Oil Seed Association, London.	Exporters.		
		A.	B.	C.
Description	Dry decorticated Coromandel (or Bombay groundnut kernels, fair average quality of their description.	Decorticated by machine out of thoroughly dry unshelled nuts, new crop, fair average of the season, fully dried to the satisfaction of buyers.		
Basis ..	Pure .. ..	2% foreign matter and 2% damaged seeds.	2% foreign matter and 2% touched seeds	2% foreign matter and 2% damaged seeds.
Foreign matter ..	Buyer to get an allowance equal to the percentage of admixture. When allowance exceeds 3%, the excess of 3% shall be double.	Over 2% up to 3%—seller to pay proportionate allowance. Below 2%—buyer to pay proportionate allowance.	2% mutual ..	Over 2% up to 3% seller to pay proportionate allowance. Below 2%—buyer to pay proportionate allowance.
Nuts in shell		Free from unshelled nuts.		
Damaged .. seeds.	If kernels are not equal to fair average quality or be damaged by sea or otherwise, they are to be taken with an allowance fixed by agreement or arbitration.	2% free, over 2% up to 6%—allowance @ $\frac{1}{4}$ th of the contract price. § Over 6% up to 10%—allowance @ $\frac{1}{2}$ of the contract price.	Nothing free ..	2% free. Over 2% up to 10%—allowance @ $\frac{1}{4}$ of the contract price.

\* For " futures "

† Total of foreign matter (dirt, stones, shell, other seeds, etc.) plus such proportions of

‡ See

§ This has since been revised to

|| or Superior

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exporters, and the All-India Standard Contract in respect and scale of allowances.

Seeds Traders' Association, Ltd., Bombay.	Grain Merchants' Association, Bombay.		All-India Standard Contract.
	In force up to 1939/40 crop.	Revised with effect from 1940/41 crop.	
Bold*, Groundnut seeds. Sholapur/Barw., Kolhapur, Karad, Kathiawar and/or goods of Gujrat district	Bold, Khandesh, Madras and Karad groundnut kernels.	Types.—Same as in Standard Contract—Karad groundnuts to be classed as Bold.  Fair average quality of the above mentioned types and in thoroughly dry condition.	Types.—(i) Khandesh, (ii) Khandesh Quality (Peanuts), (iii) Bold, (iv) Kathiawar Bold, (v) Coromandel and (vi) Red Natal.
Refraction† 4% mutual. Over 4% up to 8%—proportionate allowance.  Over 8%—proportionate allowance plus cleaning charge @ Rs. 3-8-0 per 100 bags.		Refraction 4% mutual. Over 4% up to 8%—proportionate allowance. Over 8% proportionate allowance plus cleaning charge @ Rs. 3 per 100 bags.	Refraction 4% mutual. Over 4% up to 8%—proportionate allowance. Over 8%—proportionate allowance plus cleaning charge @ Rs. 3-8-0 per 100 bags.
Included in calculating retraction.			
Up to 10%—reckoned as ¼th dirt. Over 10% up to 20% reckoned as 3/8th dirt. Over 20%—rejection at buyer's option.	Up to 10%—reckoned as ¼th dirt. Over 10% up to 25% reckoned as 3/8th dirt. Over 25%—rejection at buyer's option.	Nothing free. Up to 10% by weight the amount of shell shall be calculated and reckoned as dirt. Over 10% up to 15%—1½ times the weight of shell reckoned as dirt. Over 15%—rejection at buyer's option.	Nothing free. Up to 10% by weight, the amount of shell shall be calculated and reckoned as dirt. Over 10%—rejection at buyer's option.
Nothing free. Reckoned as ¼th dirt.		2% free. Over 2% up to 4%—reckoned as ¼th dirt. Over 4% up to 10%—reckoned as ½ dirt. Over 10%—rejection at buyer's option.	2% free. Over 2% up to 4%—whole reckoned as ¼th dirt. Over 4% up to 10%—whole reckoned as ½ dirt. Over 10%—rejection at buyer's option.

trading.  
damaged kernels, shrivelled kernels, nooks, broken and splits, etc., as are reckoned as dirt.  
page 306.  
allowance @ ½ contract price.  
Bold.



## APPENDIX

Comparison of terms of groundnut kernels contracts of certain associations of admixture and

	Incorporated Oil Seed Association, London.	Exporters.		
		A.	B.	C.
Slightly damaged (touched) seeds.	If kernels are not equal to fair average quality or be damaged by sea or otherwise, they are to be taken with an allowance fixed by agreement or arbitration.	..	2% non-mutual allowance as per buyer's scale.	
Shrivelled seeds.		Nothing specified.		2% free. Over 2%—allowance @ $\frac{1}{4}$ th of the contract price.
Nooks ..		Nothing specified.		5% free. Over 5%—allowance @ $\frac{1}{4}$ th of the contract price.
Brokens or splits.		Nothing specified.		
Admixture with other varieties.	Do. ..	Khandesh variety under Coromandel contract. Up to 6%—quality allowance @ $\frac{1}{8}$ th of the contract price. Over 6% up to 10%—quality allowance @ $\frac{1}{4}$ th of the contract price.		Khandesh variety under Coromandel contract. 1% free. Over 1% up to 6%—quality allowance @ $\frac{1}{8}$ th of the contract price. Over 6% up to 10%—quality allowance @ $\frac{1}{4}$ th of the contract price. Red Natal, under Khandesh contract. 1% free. Over 1% to 10%—allowance @ $\frac{1}{4}$ th of the contract price.
Castor seed	..	Buyers entitled to reject, if traces of castor bean detected.		

† In the revised Grain Merchants' Association Contract  $\frac{1}{16}$ th part of a kernel or a part less than  $\frac{1}{8}$ th

## XXXVIII—contd.

and exporters, and the All-India Standard Contract in respect of the basis scale of allowances—contd.

Seeds Traders' Association, Ltd., Bombay.	Grain Merchants' Association, Bombay.		All-India Standard Contract.
	In force up to 1939/40 crop.	Revised with effect from 1940/41 crop.	
Nothing free. Reckoned as 1/8th dirt.			Included with damaged.
..	..	2% free. Excess over 2%—reckoned as 1/8th dirt.	
5 % free. Over 5% up to 15%—reckoned as 1/8th goods. Over 15% rejection at buyer's option. Nothing	25% free. Over 25% reckoned as 1/8 dirt.  specified.	5% free. Over 5% up to 10%—excess reckoned as 1/8 dirt. Over 10%—rejection at buyer's option.  Splits, 25% free. Excess over 25%—reckoned as 1/16th dirt. Brokens, 10% free. reckoned as 1/8th dirt. Red Natal in Khandedh—5% free. Over 5% up to 10%—excess reckoned as 1/8th dirt. Over 10%—rejection at buyer's option. Red Natal in other types—2% free. Over 2% up to 5%—excess reckoned as 1/8th dirt. Over 5%—rejection at buyer's option. Any type (except Red Natal) in any other type—same as in Standard Contract.	Excess over 10%— Red Natal in any other typo—1% free. Over 1% up to 5%—excess reckoned as 1/8th dirt. Over 5%—rejection at buyer's option. Any type (except Red Natal) in any other type—5% free. Excess over 5% up to 10% to be reckoned as 1/8th dirt. Over 10%—rejection at buyer's option.
Nothing specified ..	Karad accepted under Bold.		
For more than 8 seeds in a bag, cleaning charge @ 1 anna per bag and more than 36 seeds in a bag, cleaning charge @ 2 annas per bag.			Nothing free. Buyer's option to clean at seller's expense subject to a maximum cleaning charge of 2 annas per bag.

smaller than it is termed a nook. In the Standard Contract nooks are defined as pieces 1/8th or of a kernel.

APPENDIX XXXIX.

Copy of a form used for recording weightment of bags and analysis of samples of groundnut kernels.

PORT PASS.

Running No. \_\_\_\_\_ Date \_\_\_\_\_ Godown No. \_\_\_\_\_ Basket No. \_\_\_\_\_

Quality Corp Station No. of Bags Invoice No. B/R No. Date of B/R

Wagon No. Tra. Wna. No. No. of Bags S/Agency B/R Advice No.

Despatch No. Purchase No. Bags No. = Bags No. = Bags. Total No. of Bags.

Date Unloaded Wagon No. Godown No. of bags Quality Crop

Short delivered by Railway Bags. Damaged In transit Bags. Nature of damage.

Weighment Gross.						Refraction.					H. O. Remarks.		
No.	Lb.	Dec.	No.	Lb.	Dec.	Dirt. Dead seeds.	Age- ncy. rt. %	Po- al. %	Fin- ance. %	Toler- ance. %	Allow- ance. %		
1			21										Total Damaged. Touched. Shrivelled.
2			22			Total. Less. Dirt basis. Recoverable.							
3			23				Total. Less. Dirt basis. Recoverable.						
4			24			Total. Less. Dirt basis. Recoverable.							
5			25				Total. Less. Dirt basis. Recoverable.						
6			26			Total. Less. Dirt basis. Recoverable.							
7			27				Total. Less. Dirt basis. Recoverable.						
8			28			Total. Less. Dirt basis. Recoverable.							
9			29				Total. Less. Dirt basis. Recoverable.						
10			30			Total. Less. Dirt basis. Recoverable.							
11			31				Total. Less. Dirt basis. Recoverable.						
12			32			Total. Less. Dirt basis. Recoverable.							
13			33				Total. Less. Dirt basis. Recoverable.						
14			34			Total. Less. Dirt basis. Recoverable.							
15			35				Total. Less. Dirt basis. Recoverable.						
16			36			Total. Less. Dirt basis. Recoverable.							
17			37				Total. Less. Dirt basis. Recoverable.						
18			38			Total. Less. Dirt basis. Recoverable.							
19			39				Total. Less. Dirt basis. Recoverable.						
20			40			Total. Less. Dirt basis. Recoverable.							
							Special Allowance.						
Av. Nett Wgt. p. bag lb. _____						Broken. Nooks. Peanuts. Dryage. Quality. Smell. Weevilled.							Godown Re- marks.
Lb. _____													
Total Nett Wgt. _____													
Cwt. lb.													
Despatch Wgt. lb. _____ p. bag. _____													
Weighed by _____													
Sampled by _____													
Godown Superintendent _____						Condition of gunnies _____							
Passed by _____						Gunny allowance per 100 = Rs. _____							

## APPENDIX XL.

*Note on the experiment of drawing samples of groundnut kernels by alternative methods.*

Samples of groundnut kernels were drawn by the following 3 methods.

*Method 1.*

10 per cent bags from a consignment were picked out with a minimum of 5 bags and a maximum of 10 bags. These bags were laid horizontally and their seams cut open. From the contents of each bag 3 scoops were taken out—one from the bottom, another from the middle and a third from the top. The quantities so taken from the different bags were put in one container and formed the basis of the sample to be analysed. The whole sample was cleaned for dirt. For further analysis 100 tolas were taken out with small scoops from the cleaned sample. From these 100 tolas, damaged kernels, slightly damaged kernels, split and broken kernels and nocks were separated and weighed.

*Method 2.*

5 per cent of the bags were taken for sampling. The bags were placed lengthwise and the seams cut open. 3 scoops were taken from each bag, one from each of the extremities of the bags and the third from the centre. The weight of the sample was more than 100 tolas.

*Method 3.*

5 per cent of the bags were taken for sampling. The bags were cut open and the contents heaped. 6 scoops were drawn from each bag and mixed. From this, 13 small scoops were drawn and a sample of 100 tolas taken.

Samples in triplicate were drawn by each of the three methods from ten lots, so that 90 samples in all were drawn. Each sample was tested for the undermentioned 7 items :—

- (i) Dirt, (ii) damaged kernels, (iii) touched kernels, (iv) split kernels,
- (v) broken kernels, (vi) nocks, and (vii) shrivelled kernels.

The results obtained from the 90 samples are given on pages 400 to 402.

These results were statistically analysed for variance and the following conclusions drawn.

“Of the seven factors examined, dirt per cent, damaged seeds per cent, split per cent, and shrivel per cent gave fairly low sampling errors. The lots in almost all the cases showed significant variation. Of the three methods examined, method 1 gave almost the lowest sampling variation and may be considered the best from the point of view of consistency of the samples. Between method 2 and method 3, there is not much to choose.”

## APPENDIX XL—contd.

Results of analysis of groundnut samples drawn by different methods.

## Method No. 1.

Particulars.	Dirt.	Damaged kernels.	Touched kernels.	Split kernels.	Broken kernels.	Nooks.	Shrivelled kernels.	Remarks.
	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	
<i>Lot No. 1.</i>								
1st sample ..	1.14	2.40	0.50	63.00	5.70	3.40	2.90	
2nd sample ..	0.96	3.30	0.20	63.10	7.80	4.10	2.90	
3rd sample ..	1.25	3.10	0.30	62.30	5.90	3.10	3.70	
<i>Lot No. 2.</i>								
1st sample ..	1.89	2.90	0.10	59.40	3.60	2.80	3.40	
2nd sample ..	2.05	2.10	0.10	58.90	4.10	3.20	3.50	
3rd sample ..	1.95	2.30	..	57.90	3.00	2.50	3.70	
<i>Lot No. 3.</i>								
1st sample ..	1.81	3.00	0.60	37.80	6.20	2.00	1.80	
2nd sample ..	1.62	2.10	0.10	39.40	6.00	1.50	1.90	
3rd sample ..	1.61	3.10	..	39.10	8.60	2.70	1.80	
<i>Lot No. 4.</i>								
1st sample ..	1.82	1.80	0.20	20.50	4.20	1.40	3.00	
2nd sample ..	2.01	1.70	0.40	19.10	5.80	1.50	3.00	
3rd sample ..	2.18	1.70	0.20	17.00	3.20	1.30	3.10	
<i>Lot No. 5.</i>								
1st sample ..	1.05	2.50	0.10	30.30	4.00	1.10	2.90	
2nd sample ..	1.20	3.00	0.30	31.20	3.20	0.80	2.40	
3rd sample ..	1.21	2.40	0.20	27.10	3.30	1.00	2.90	
<i>Lot No. 6.</i>								
1st sample ..	1.66	4.00	0.30	41.00	4.50	7.90	2.40	
2nd sample ..	1.47	4.00	..	39.10	4.50	7.10	2.30	
3rd sample ..	1.46	4.30	1.10	34.20	5.30	6.20	2.50	
<i>Lot No. 7.</i>								
1st sample ..	1.68	3.00	0.20	37.90	2.40	2.00	2.50	
2nd sample ..	1.47	3.40	..	32.10	3.70	2.40	2.50	
3rd sample ..	1.53	2.70	0.30	38.90	3.90	1.70	2.30	
<i>Lot No. 8.</i>								
1st sample ..	1.90	2.80	..	37.10	3.30	4.20	2.00	
2nd sample ..	1.77	3.10	0.10	34.60	2.50	3.90	1.80	
3rd sample ..	1.80	2.50	..	36.50	2.70	4.40	2.10	
<i>Lot No. 9.</i>								
1st sample ..	0.57	2.90	..	38.60	5.20	3.00	2.40	
2nd sample ..	0.62	2.50	0.10	35.40	5.20	2.50	2.90	
3rd sample ..	0.59	1.90	0.50	42.30	4.40	1.90	2.40	
<i>Lot No. 10.</i>								
1st sample ..	2.46	2.90	..	17.30	1.80	0.70	4.60	
2nd sample ..	2.00	1.90	0.30	17.80	1.50	0.50	3.60	
3rd sample ..	2.03	2.10	0.20	17.80	1.50	0.90	3.70	

## APPENDIX XI—contd.

Results of analysis of groundnut samples drawn by different methods—contd.  
Method No. 2.

Particulars.	Dirt.	Damaged kernels.	Touched kernels.	Split kernels.	Broken kernels.	Nooks.	Shrivelled kernels.	Remarks.
	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	
<i>Lot No. 1.</i>								
1st sample ..	1.49	2.70	0.70	55.30	9.20	5.20	2.70	
2nd sample ..	1.66	2.80	0.20	58.20	8.80	4.00	2.50	
3rd sample ..	1.19	3.20	0.30	62.00	5.80	4.60	3.40	
<i>Lot No. 2.</i>								
1st sample ..	2.21	3.00	0.20	57.80	4.00	4.00	3.00	
2nd sample ..	1.90	1.90	0.20	57.20	3.30	2.70	2.60	
3rd sample ..	1.92	2.40	..	58.50	3.70	2.70	3.40	
<i>Lot No. 3.</i>								
1st sample ..	1.27	3.20	0.30	41.10	3.90	3.20	1.80	
2nd sample ..	1.79	2.20	0.20	44.20	6.10	2.30	1.80	
3rd sample ..	1.80	2.80	0.10	38.90	8.40	0.40	1.70	
<i>Lot No. 4.</i>								
1st sample ..	2.17	1.90	0.20	16.80	4.00	1.10	2.80	
2nd sample ..	2.02	1.60	0.20	19.90	5.30	1.60	2.80	
3rd sample ..	1.88	1.90	0.10	20.20	4.20	1.40	3.20	
<i>Lot No. 5.</i>								
1st sample ..	1.27	2.40	0.30	32.00	3.70	0.50	2.40	
2nd sample ..	0.91	3.00	0.20	32.00	3.20	0.90	2.40	
3rd sample ..	1.13	2.30	0.30	32.10	2.90	0.50	2.70	
<i>Lot No. 6.</i>								
1st sample ..	1.35	3.60	0.40	33.40	4.90	4.50	2.60	
2nd sample ..	1.39	4.20	0.10	37.30	5.80	6.40	2.20	
3rd sample ..	1.58	4.00	1.00	39.50	6.70	6.00	2.30	
<i>Lot No. 7.</i>								
1st sample ..	1.52	3.10	0.40	39.00	3.40	3.70	2.20	
2nd sample ..	1.67	3.20	0.60	38.50	3.20	2.70	2.10	
3rd sample ..	1.45	2.50	0.50	41.40	3.80	2.50	2.20	
<i>Lot No. 8.</i>								
1st sample ..	1.70	2.20	..	42.00	8.30	1.20	2.00	
2nd sample ..	1.53	2.90	0.40	36.80	4.40	2.70	2.40	
3rd sample ..	1.59	2.20	0.10	42.40	4.60	2.20	1.90	
<i>Lot No. 9.</i>								
1st sample ..	0.60	2.40	0.20	37.40	4.80	2.70	1.70	
2nd sample ..	0.98	2.20	0.20	35.70	2.70	0.90	2.60	
3rd sample ..	0.87	2.00	0.30	34.40	4.90	0.50	2.20	
<i>Lot No. 10.</i>								
1st sample ..	2.72	2.50	0.20	16.30	1.60	1.70	4.90	
2nd sample ..	2.36	1.90	0.20	18.50	1.50	2.50	3.70	
3rd sample ..	2.39	2.00	0.10	20.50	2.00	1.40	3.60	

## APPENDIX XI—concl'd.

Results of analysis of groundnut samples drawn by different methods—concl'd.

Method No. 3.

Particulars.	Dirt.	Damaged kernels.	Touched kernels.	Split kernels.	Broken kernels.	Nooks.	Shrivelled kernels.	Remarks.
	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	(Per cent).	
<i>Lot No. 1.</i>								
1st sample ..	1.68	3.20	0.30	59.00	5.40	5.80	2.60	
2nd sample ..	1.27	3.00	0.10	62.50	5.20	3.30	2.20	
3rd sample ..	1.30	2.90	0.30	55.40	6.50	4.20	3.50	
<i>Lot No. 2.</i>								
1st sample ..	1.53	2.70	0.30	58.50	3.50	3.00	4.00	
2nd sample ..	1.61	2.50	0.30	58.40	4.40	1.40	3.10	
3rd sample ..	2.00	1.80	0.30	54.90	3.20	1.70	3.50	
<i>Lot No. 3.</i>								
1st sample ..	1.61	2.60	0.40	43.30	8.20	0.90	1.90	
2nd sample ..	1.46	3.00	..	41.10	6.00	1.10	1.70	
3rd sample ..	1.58	2.90	0.20	41.60	6.20	0.80	1.90	
<i>Lot No. 4.</i>								
1st sample ..	1.81	2.00	0.20	18.00	5.10	1.00	2.40	
2nd sample ..	1.90	1.90	..	18.20	5.50	0.80	2.60	
3rd sample ..	2.26	1.50	0.20	20.30	4.00	1.00	2.50	
<i>Lot No. 5.</i>								
1st sample ..	1.21	2.80	0.20	29.40	3.70	0.90	2.20	
2nd sample ..	1.40	3.40	0.30	31.40	2.10	2.00	2.90	
3rd sample ..	1.23	2.00	0.30	30.50	1.90	0.70	2.80	
<i>Lot No. 6.</i>								
1st sample ..	1.69	3.70	..	36.50	6.50	4.40	2.10	
2nd sample ..	1.65	3.40	0.30	38.00	4.70	4.00	2.40	
3rd sample ..	1.34	4.20	0.30	41.70	5.10	7.10	2.50	
<i>Lot No. 7.</i>								
1st sample ..	1.45	3.20	0.20	37.00	3.00	2.40	2.30	
2nd sample ..	1.56	4.00	..	36.80	3.30	2.50	2.30	
3rd sample ..	1.41	2.60	0.40	36.50	3.10	1.50	1.70	
<i>Lot No. 8.</i>								
1st sample ..	1.89	2.40	..	34.60	3.10	2.80	2.00	
2nd sample ..	1.86	3.00	0.30	38.70	3.20	3.20	2.30	
3rd sample ..	1.63	2.50	0.20	38.10	3.50	5.20	1.70	
<i>Lot No. 9.</i>								
1st sample ..	0.64	3.20	0.30	40.20	6.20	2.60	2.30	
2nd sample ..	0.87	2.40	..	36.30	5.10	1.80	2.20	
3rd sample ..	0.73	2.40	0.30	41.50	6.80	2.00	2.40	
<i>Lot No. 10.</i>								
1st sample ..	2.26	2.00	0.20	18.30	2.00	1.70	3.80	
2nd sample ..	2.82	2.30	..	15.10	1.50	1.80	3.50	
3rd sample ..	2.29	2.20	..	18.50	1.70	0.90	3.50	

APPENDIX XLI

*Extracts from the Incorporated Oil Seed Association Contract for Coromandel groundnut kernels to the United Kingdom.*

\* \* \* \* \*  
 Coromandel groundnut kernels (dry decorticated), *vis.*, \_\_\_\_\_ tons say \_\_\_\_\_  
 tons (of 2,240 lb. each) shipment from a port or ports on the Coromandel Coast and/or  
 Bombay as per Bill or Bills of Lading, dated or to be dated \_\_\_\_\_ by  
 steamer or steamers direct or indirect with or without transhipment via Sues Canal.  
 At \_\_\_\_\_ per ton of 2,240 lb. net, delivered sound, ~~on~~ ship, in  
 \_\_\_\_\_, including the usual 2½ lb. B twill bags and/or 2½ lb. heavy  
 O bags at sellers' option at an allowance to the buyers of one-half penny per bag.  
 \* \* \* \* \*

*Warranty.*

2. The kernels are warranted to be of the fair average quality of their description at the time of shipment, to be decided by the standard average of the Incorporated Oil Seed Association for the month in which the kernels are shipped. In the event of no standard average being made by the Incorporated Oil Seed Association the arbitrators (or umpire) shall decide what is the fair average quality. The Incorporated Oil Seed Association's charges in respect of standards to an amount not exceeding one shilling for every 100 tons or part thereof of the above quantity to be equally divided between buyers and sellers.  
 \* \* \* \* \*

*Declaration of shipment.*

3. Appropriation giving steamer's name, date of Bill or Bills of Lading and approximate weight shall be made by sellers in Europe (or their agents) not later than 14 days from the date of the Bill of Lading.  
 \* \* \* \* \*

*Payment.*

4. Payment to be made in London, on vessels reporting in \_\_\_\_\_ by net cash, in exchange for shipping documents and/or delivery order (the latter to be countersigned by banker, shipbroker, Captain or Mate if so required) and policy or policies of insurance effected with approved underwriters and/or approved letter of insurance (claims payable in London). Interest at 5 per cent or at Bank of England rate if over 5 per cent at 10 A.M. on day of payment, to be allowed for unexpired portion of prompt of 21 days from vessel's reporting.  
 \* \* \* \* \*

*Strikes, etc.*

5. Should the sellers be prevented from delivering the kernels sold, or the buyers from taking delivery, by reason of riots, strikes or lockouts at the place named for delivery, the time for delivery and payment shall be extended until the operation of the causes preventing delivery has ceased. Buyers to pay interest at half Bank of England rate for said extension.  
 \* \* \* \* \*

*Discharge, sampling and analysis.*

6. Buyers to provide craft to take delivery when the vessel is ready to discharge and the authorised people at the port of discharge shall be ordered to weigh all the bags, and 2 sound and undamaged bags in every 100 bags shall be emptied to ascertain the tare (said bags being weighed together); they shall also be ordered to sort the kernels, damaged and sweepings, if any, to be taken by buyers with allowances as provided in Clause 8; all charges for weighing, taring, sorting and classifying to be for buyers' account. All loose collected and sweepings to be shared *pro rata* by receivers.  
 \* \* \* \* \*

The authorised people shall be ordered to take average sample of the bulk out of the bags emptied for taring, and to seal and forward it to the Incorporated Oil Seed Association, who upon such sample shall determine, by analysis, the percentage of admixture contained therein.  
 \* \* \* \* \*

*Basis of admixture.*

7. The basis shall be pure groundnut kernels and the buyer shall receive an allowance equal to the percentage of admixture. When the Association allowance exceeds 3 per cent, the excess of 3 per cent shall be doubled.  
 \* \* \* \* \*

*Quality and condition.*

8. Should the kernels on arrival not prove equal to above warrants, by sea or otherwise damaged or out of condition, this contract is not to be void, but the kernels, as well as the sweepings, are to be taken with an allowance to be fixed by agreement or by arbitration as provided under Clauses 9 and 15.  
 \* \* \* \* \*

*Notice of arbitration.*

9. Notice of arbitration as to quality, with name of arbitrator, to be given by party claiming arbitration within 31 days of the Standard for the month being made or of the date of any public notice by the Incorporated Oil Seed Association that the Standard will be made.  
 \* \* \* \* \*



**Cancellation.**

10. This Contract is to be void as regards any portion shipped that may not arrive by the vessel or vessels declared against this Contract and also if shipment or delivery be prevented by hostilities, prohibition of export or blockade.

\* \* \* \* \*

**Default.**

11. In default of fulfilment of contract by either party the other party at his discretion shall, after giving notice in writing, have the right to sell or purchase, as the case may be, against the defaulter who shall make good the loss, if any, on such sale or purchase on demand.

\* \* \* \* \*

**Arbitration.**

15. All disputes from time to time arising out of this Contract, including any question of Law appearing in the proceedings, whether arising between the parties hereto, or between one of the parties hereto, and the Trustee in Bankruptcy of the other party, shall be referred to arbitration according to the Rules appended to this Contract.

\* \* \* \* \*

**Summary of Arbitration Rules.**

I. Disputes shall be referred to arbitration in London, each party appointing one arbitrator. Arbitrators shall have the power if and when they disagree to appoint an umpire, whose decision is to be final.

II. Arbitration fees to be paid by the party against whom the decision is given, except when allowances are fixed by arbitration on country damaged or on seed damaged during the voyage; in such cases the fees to be equally divided, also in other cases, where, in the opinion of the referees they should be so treated. All arbitration allowances for inferior quality shall be stated in percentages and in multiples of  $\frac{1}{4}$  per cent (one quarter per cent), minimum  $\frac{1}{2}$  per cent (one-half per cent).

III. In the event of one of the parties refusing or neglecting to appoint an arbitrator or the arbitrators not agreeing to an award or appointing an umpire, or in case an arbitrator or umpire dies or refuses to act, or becomes incapable of acting, and the party with whom his appointment originally rested omits to appoint a substitute, the Executive Committee shall, upon application by either of the disputing parties and payment of necessary fees, appoint an arbitrator or arbitrators, or umpire to fill the vacancy or vacancies.

IV. All awards by arbitrators or an umpire shall be in writing and they shall have power to award the costs of and connected with the reference.

V. In case either party shall be dissatisfied with the award, a right of appeal shall lie to the Committee of Appeal of the Incorporated Oil Seed Association provided the necessary notice is given in time and the fees paid.

VI. The appeal shall be determined by a Board of Appeal consisting of four members of the Committee of Appeal of the Association. No member of the Committee of Appeal who has an interest in the matter in dispute or who has acted as arbitrator or umpire in the case and no member of the same firm or company to which either of the arbitrators or the umpire shall belong shall vote on the question of the appointment of members of the Board of Appeal or shall be appointed a member of the Board of Appeal.

VII. The parties to an arbitration or an appeal to the Committee of Appeal shall not be represented or appear by Counsel or Solicitor unless specially permitted, at the sole discretion of the arbitrators, or umpire.

VIII. The Board of Appeal shall confirm the award appealed from unless not less than three of the members of the Board of Appeal decide to vary such award.

IX. No award by arbitrators or an umpire shall be questioned or invalidated on the ground of their being not qualified or eligible unless objection is made in writing before the commencement of hearing.

X. Any notice may be delivered personally or left at the place where the party is carrying on business.

## APPENDIX XLII.

Copy of an exporter's contract (fixed) for purchase of groundnut kernels in Madras.

..... Limited.

Machine Shelled Groundnuts.

Contract No..... Season.....

Sold by.....(of address).....  
(hereinafter called the sellers) to Messrs.....  
through their Agency at.....(hereinafter called the  
buyers).....(decorticated by Machine out of thoroughly  
dry Unshelled nuts) of.....pounds each net at Rs.....  
per candy of.....pounds net on the following terms and conditions :—

1. The seed to be new crop only, i.e., of season.....and fully dried to the satisfaction of Buyers. In other respects quality to be fair average of the Season, free from stones, unshelled nuts and damaged seeds and the goods not to contain more than 2 per cent admixture of foreign matters and 2 per cent damaged seeds (i.e., black, brown, yellowish and reddish)
  - (a) for any percentage of foreign matters above 2 per cent and up to 3 per cent Sellers to pay a proportionate allowance to buyers,
  - (b) for any percentage of foreign matters below 2 per cent buyers to pay Sellers a proportionate allowance,
  - (c) for any percentage of damaged seeds above 2 per cent and up to 6 per cent Sellers to pay allowance to Buyers at  $\frac{1}{4}$  (one-fourth) of the contract price : over 6 per cent and up to 10 per cent at  $\frac{1}{2}$  (one-half) of the contract price,
  - (d) for any percentage of "Khandesh" variety up to six per cent contained in the goods delivered under this contract Sellers to pay quality allowance to Buyer at  $\frac{1}{8}$  (one-eighth) of the contract price over six per cent and up to ten per cent at  $\frac{1}{4}$  (one-fourth) of the contract price.
2. Delivery to be completed between the..... and.....  
at Buyers' Godown at.....
3. Payment to be made by buyers to the extent of.....  
per cent of the value of each lot as delivered by sellers and passed by buyers. The balance to be paid after completion of the whole of.....under this contract.
4. Should sellers fail to complete delivery of the above.....or any portion thereof within the time above fixed for the completion of the delivery thereof buyers have the following options :—
  - (a) To buy anywhere on the day next following the due date of this contract ; or if they are unable to buy on that day so soon thereafter as may with reasonable despatch be possible at the market rate ruling on the day of purchase on sellers' account and at sellers' risk without any previous notice to sellers the undelivered quantity and to recover from sellers all loss and damages (if any) sustained by reason of sellers' failure to perform this contract.
  - (b) To recover from sellers the difference between the rate in this contract and the market rate ruling at Madras or at any other place where buyers are able to buy the goods, quality and condition of which are to their satisfaction, on the day next following the due date of the contract.
5. Buyers are at liberty without any request from the sellers to extend the time for delivery either for the whole or any portion of the above.....not delivered, by written notice sent to the sellers at their above-mentioned address, which extension, if made, shall be without prejudice to any of the other terms of the contract.

6. The acceptance by Buyers at any time of a quantity less than that contracted for shall not, unless expressly so stated in writing signed by both parties, be taken to cancel the contract as to the balance of the quantity purchased.
7. Should the whole or any portion of the goods to be delivered under this contract be in any respect not in accordance with the stipulations of the clause 1, Buyers shall have the option of rejecting such goods or of accepting the same with an allowance to be fixed by them.
8. Buyers are entitled to reject tenders in case any Castor beans are detected, whether on examination of the goods upcountry or on arrival at the port, even though the quality and condition of the goods be otherwise up to standard.
9. In the event of the rejection of any goods in exercise of the right or option arising under or conferred by this contract, Buyers shall, notwithstanding such rejection and without prejudice thereto and their right thereon, be entitled to retain the goods so rejected until refund by Sellers of all the amounts advanced to Sellers and all charges incurred by Buyers on such goods is made and if within 10 days from service of written notice of such retention sent to Sellers at their above-mentioned address Sellers shall not refund such advance and/or charges to Buyers, the Buyers shall be entitled without further notice to sell the goods so retained either by Public Auction or Private Sale and to receive the said proceeds thereof and apply the same to the re-payment of such amounts and charges due to or incurred and damages sustained by them.
10. Sellers agree to abide by the results found by Buyers'..... Agency..... as the quality, condition, weight and refraction as well as allowance, if any, to be made to buyers in respect thereof, whether Sellers or their representative is present or not at the time of the said..... Agency examining sellers' deliveries there. Buyers are not obliged to give nor are sellers entitled to demand any notice of the time when such examination is to be made.
11. Should buyers have any claim which may be due to them by sellers under this or any other contract they shall be entitled to retain any moneys to the extent of the claim and shall be entitled to appropriate the same against the claim.
12. The above options shall be in addition to and not by way of modification or in curtailment of any rights which Buyers may have by law by reason of Sellers' failure to perform this contract.
13. As a guarantee for the due fulfilment of this contract sellers have deposited with buyers the sum of Rs.....
14. Sellers may provide their own new 2 Twill bags 44" X 26½" 2½ lb., in exchange from buyers of any equal number of empty bags of the same quality and description.
15. Prohibition of export from any particular district or native or foreign territory does not relieve the Sellers from the obligation of duly fulfilling this contract.
16. Any notice by the buyers under this contract may be served upon the Sellers either personally or by sending it through the post in a letter addressed to the Sellers at their above-mentioned address. If sent by post it shall be deemed to have been served at the time when the letter containing the same would have been delivered in the ordinary course of post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and posted.

17. Anything besides plain signatures written in any language but English on this contract shall be null and void and shall not be construed in any way as part of the terms or conditions of this contract.

18. Payments will be made in Silver or Currency Notes at buyers' option.

.....  
.....Agency.

Terms and conditions accepted.

For Agent.

Seller.

Dated

19 .

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APPENDIX XLIII.

Copy of an exporter's unfixed contract for purchase of groundnut kernels in Madras.

..... Limited.  
Machine Shelled Groundnuts.

Unfixed Contract No..... Season.....

Sold by.....(of address).....  
(hereinafter called the sellers) to Messrs.....  
through their Agency at.....(hereinafter called the buyer)  
.....(decorticated by Machine out of thoroughly  
dry Unshelled nuts) of.....pounds each net as  
delivered at Buyers' godowns at.....at a price to be  
fixed as per the following stipulations and under the following terms and condi-  
tions :—

*Stipulations.*

A. The price must be fixed in writing by Sellers within.....days  
from the date of Contract and is to be the limit which Buyers.....  
Sub-Agency have in hand on the day on which Sellers declare in writing that  
the price to be fixed. If Sellers do not fix the price within.....days  
from the date of contract, the price of this contract will be the limit which  
Buyers.....Sub-Agency have in hand on the.....  
day of.....19 .

B. The Sellers have the right to fix the price subject to clause A on any one  
day but only to the extent of such quantity as Buyers.....Sub-  
Agency may have instructions to buy on the day Sellers declare in writing that  
they want the price fixed.

C. Advances made by the Buyers before the price has been fixed will not  
exceed 80 per cent of the limit Buyers.....Sub-Agency have in  
hand on the day of the advance. If the market value decreases Buyers may  
demand from Sellers refund sufficient to keep the net amount advanced within  
the said margin.

D. If Sellers, upon demand, fail to make sufficient refund as aforesaid  
the Buyers shall have the right to fix the contract price on the basis of the  
market value which for the purpose of this clause shall be the limit which  
Buyers.....Sub-Agency have in hand on the day of demand or  
at Buyers' option on any day up to and including the third day subsequent  
thereto. Such price shall be final and binding on Sellers.

*Terms and conditions of sale.*

Same as under fixed contracts (See Appendix XLII).

.....19 .

Messrs.....,  
.....Agency,  
.....

Dear Sirs,

Unfixed Contract No..... Dated.....  
For.....  
.....Shelled Groundnuts.....

With reference to  $\frac{my}{our}$  above contract  $\frac{I}{we}$  now hereby beg to accept, fix  
and confirm today the price of Rs.....  
per.....delivered free at  
your godowns at.....

Accepted.

Yours faithfully,

For.....  
.....Agency,  
For Agent.

Buyers.

Sellers.

## APPENDIX XLIV.

*Copy of a contract used by an oil mill for purchasing groundnut kernels.*

Dated the.....19 .

Contract No.....

Buyers.....

Sellers.....

*Description.*—Machine decorticated groundnut seeds of season..... fair average quality of season, free from stones unshelled nuts and damaged seeds and fully dried to the entire satisfaction of the buyers.

*Quantity.*—.....

*Time of delivery.*—.....

*Place of delivery.*—.....

*Price Rs.*..... per candy of 531 English lb. nett.

*Admixture of dirt.*—2 per cent free non-mutual.

*Admixture of damaged seeds.*—2 per cent free non-mutual.

*Packing.*—The goods to be packed in buyers gunnies supplies to sellers from..... and each bag to contain 177 lb. nett (seeds).

*Basis.*—The goods not to contain more than 2 per cent refraction and 2 per cent damaged.

(a) for any percentage of refraction above 2 per cent and up to 4 per cent sellers to pay proportionate allowance to buyers. If above 4 per cent buyers have the option to reject or fix any allowance, buyers may think necessary,

(b) for any percentage of damaged seeds above 2 per cent and up to 3 per cent sellers to pay allowance to buyers at  $\frac{1}{4}$  of the contract price. If over 3 per cent buyers have the option to reject or fix any allowance.

Sellers agree to abide by the results found by buyers' representative at the time of examination of goods either at buyers or sellers godowns as to condition, quality, weight, percentage of admixture and allowances in respect thereof.

*Breach of contract.*—Should seller fail to complete delivery within the stipulated time buyers have the option.

(1) to cancel the contract,

or (2) to buy anywhere on the day next following the due date or as soon as possible at the market rate ruling on the day of purchase on sellers account and risk without any previous notice the undelivered quantity and to recover from the seller all losses and damages, if any, sustained by reason of sellers' failure to perform this contract,

or (3) to merely recover from the seller the difference between the contract rate and market rate on the day following the due date of the contract.

or (4) to extend the time of delivery by notice (without any request from seller) sent to seller at their above-mentioned address, which extension, if made, shall be without prejudice to any of the other terms of the contract.

*Remarks.*—The acceptance by buyers at any time of a quantity less than that contracted for shall not, unless expressly so stated in writing signed by both parties, be taken to cancel the contract as to the balance of the quantity purchased.

If the buyers reject any goods the sellers should replace the rejected quantity within the due date of the contract.

The above options shall be in addition to and not by way of modification or in curtailment of any rights which buyers may have by law.

All terms and conditions accepted.

Buyers

Sellers

## APPENDIX XLV.

*Copy of a contract form of the Grain Merchants' Association, Bombay.*  
(Rail and delivery terms).

Contract No.....

Bombay, the.....19 .

Broker

Messrs.....

Bombay.

Dear Sirs,

We have this day  $\frac{\text{sold to}}{\text{bought from}}$  you.....  
tons .....1 per cent more or less, of.....

bags ..... of the current season at Rs.....and 1 Dokada Dharmada per cwt. net weight delivered at Railway Station, Bombay, or at buyer's godown.

*Bagging.*—New Calcutta No. 2 Twills or heavy C bags, weight not less than 2½ lb. each. In case of godown delivery, bagging shall be the same as for rail delivery.

*Delivery.*—.....seller's option. Buyer shall not be obliged to accept tender of less than 100 bags at a time. Buyers shall have option to refuse railway receipts if not tendered 9 days before the due date of the contract.

In event of the contract being for more than 50 tons, every 50 tons to be regarded as under a separate contract.

*Refraction.*—.....per cent reciprocal.

*Payment.*—Advance and final payment shall be made according to the rules of general terms and conditions.

*Brokerage.*—½ per cent to be paid by sellers. The goods under this contract to be delivered to Messrs.....

This contract is subject to the general terms and conditions of the Grain Merchants' Association's delivery contract, of which the parties admit to have knowledge and notice and which terms and conditions shall be deemed to be incorporated in and to form part of this contract.

Yours faithfully,

Seller's signature.....  
Buyer's

Broker's signature.....

*Summary of some of the important conditions under Rail and Delivery Terms.*

1. Buyers shall pay 90 per cent advance against railway receipt or delivery receipt.
2. If an advance has been paid to the seller, the buyer shall keep only 10 per cent of the bags for sampling and weighment in the presence of the seller.
3. If advance has not been paid to the seller, all the bags shall be kept and the seller will have the option to have the whole lot weighed in his presence.
4. The sample for refraction and quality, when advance has been paid, shall be drawn from 10 bags taken out of the 10 per cent bags kept (see 2). When advance has not been paid, the 10 bags for sampling shall be taken out of the whole lot. The bags shall be alternately arranged vertically and horizontally.
5. Basis of refraction—4 per cent mutual.
6. If a sample is drawn by surveyors, buyer's surveyor shall draw the sample by inserting the hand 5 times and seller's surveyor by inserting the hand once.
7. In the case of contracts for Ready railway receipts, the same shall be handed to the buyer within 4 days, in default of which the buyer may buy against the seller or cancel the contract.
8. In the case of contracts for Ready goods, the seller shall give delivery within 8 days, failing which the buyer may buy against the seller or cancel the contract.
9. In the case of godown delivery, buyers shall pay a charge of annas 12 per ton.
10. If a lot is rejected, the seller shall refund the advance and remove the goods within 5 days.

## APPENDIX XLVI.

*Copy of a contract form of the Grain Merchants' Association, Bombay.  
(Bazar Terms).*

Contract No.....

Broker.....

Bombay, dated.....

Buyer.....

Seller.....

We have this day  $\frac{\text{sold to}}{\text{bought from}}$  you.....(quantity)  
.....(Description of goods) crop of the year 19 at  
Rs.....(in words)  
per.....to be delivered.....per cent more or less  $\frac{\text{to}}{\text{by}}$  you  
according to the conditions written below and on the reverse, by.....  
of.....19 .

This contract is made according to the rules of the Grain Merchants' Association and is binding on both parties.

Dated.....

Seller's  
Buyer's signature.....

*Summary of conditions on the reverse.*

1. Each party intends to and agrees to give and take delivery of the goods mentioned in the contract.
2. The buyer shall arrange for the weighment of goods.
3. New bags will be weighed with goods.
4. Refraction 4 per cent mutual.
5. Seller will not allow goods to be sampled with a spear.
6. Seller will not pay anything in cash or kind to sampler, bill clerk, etc.
7. Buyer shall pay brokerage.
8. Buyer shall, in settling the accounts with the seller, pay *dharwad* at one *dokada* per cwt. or 1 anna per candy over the price stated in the contract.



APPENDIX XLVII.

Copy of a contract form of the Grain Merchants' Association, Bombay, for trading in "futures" in Bold groundnut kernels.

(Bazar Terms).

Contract No.....

Bombay, dated.....19 ..

Broker.....

Seller

Buyer .....

We have today            sold to            bought from you.....Khandis of groundnuts Bold (from Sholapur, Barsi, Kolhapur, Kathiawar, Gujarat and Karad districts) Crop of the year 19.....at Rs.....per Khandi, besides Dharmada of one anna per Khandi according to the terms mentioned below :-

*Bagging.*—New Calcutta 2 Twills or heavy C quality, weight not less than 2½ lb. each. Bags to be reckoned as goods.

*Delivery.*—Buyer to receive delivery and take weightment at seller's godown. The goods of one contract will be delivered at the same godown. Contracts in excess of 100 Khandis will be considered as separate contracts for every 100 Khandis.

*Refraction.*—4 per cent mutual.

*Delivery.*—From 1st to.....of (month).....(year) (seller's option).

*Brokerage.*—½ per cent to be paid by buyer.

This contract is subject to the general terms and conditions as settled by the Grain Merchants' Association's "futures" contract for groundnut kernels Bold, in accordance with which the goods will be delivered|received. The parties admit that they have knowledge and notice of the above-mentioned terms, which shall be deemed to be incorporated in and to form a part of this contract. In case of any disputes arising out of this contract, it shall be settled in accordance with the rules and regulations of the Grain Merchants' Association, and the results will be binding upon both the parties.

There will be no addition to this contract and addition, if any, will be void.

This contract cannot be cancelled under any condition.

Buyer's \_\_\_\_\_ Signature.....

Seller's \_\_\_\_\_ Signature.....

Broker's Signature.....

## APPENDIX XLVIII.

*Handpicked Selected Groundnut Grading and Marking Rules.*

1. *Short title and application.*—(1) These rules may be called the Handpicked Selected Groundnut Grading and Marking Rules, 1939.

(2) They shall apply to groundnuts grown in India.

2. *Grade designations.*—Grade designations to indicate the quality of handpicked selected groundnuts grown in India are set out in column 1 of Schedules I and II annexed to these rules.

3. *Definition of quality.*—The quality indicated by the grade designations is set out against such designations, in columns 2 to 4 of Schedule I in respect of handpicked selected groundnut kernels and in columns 2 to 4 of Schedule II in respect of handpicked selected groundnuts in shell.

4. *Grade designation marks.*—The grade designation mark shall consist of a label, bearing a design (consisting of an outline map of India in conjunction with the word AGMARK) resembling that set out in Schedule III, specifying the grade designation and of the following colour :—

Grade designation.	Colour of label.
Handpicked selected groundnut kernels .. Special Bold No. 1 ..	White.
,, ,, No. 2 ..	Red.
,, ,, No. 3 ..	Blue.
Bold No. 1 ..	Yellow.
,, No. 2 ..	Green.
Handpicked selected groundnuts in shell ..	Bold .. White.

5. *Methods of marking.*—The grade designation mark label shall be securely attached to each bag in a manner approved by the Agricultural Marketing Adviser. In addition to the grade designation mark the following particulars shall also be clearly marked :—

(a) Crop year.

(b) Net weight.

6. *Method of packing.*—(1) Graded handpicked selected groundnut kernels shall be packed in New " B. Twill " bags containing 182 lb. net each.

(2) Graded handpicked selected groundnuts in shell shall be packed in New " B. Twill " bags containing 82 lb. net.

(3) Each bag shall contain handpicked selected groundnuts of the crop specified and of one grade designation only.

## APPENDIX XLVIII—contd.

## SCHEDULE I.

(See Rules 2 and 3.)

*Grade designations and definition of quality of handpicked selected groundnut kernels.*

Grade designations. 1	Quality characteristics.		Condition. 4
	Number of kernels per ounce.* 2	Broken, skinned and damaged kernels.* 3	
Special Bold No. 1	32/34	Not more than 1 oz. (2.43 tolas in a bag).	Handpicked selected groundnut kernels shall be dry and reasonably uniform in size, free from dirt, stones, nuts in shell or other foreign matter.
" " No. 2	34/36		
" " No. 3	36/38		
Bold No. 1	38/40		
" No. 2	40/42		

\* As determined on a representative sample.

## SCHEDULE II.

(See Rules 2 and 3.)

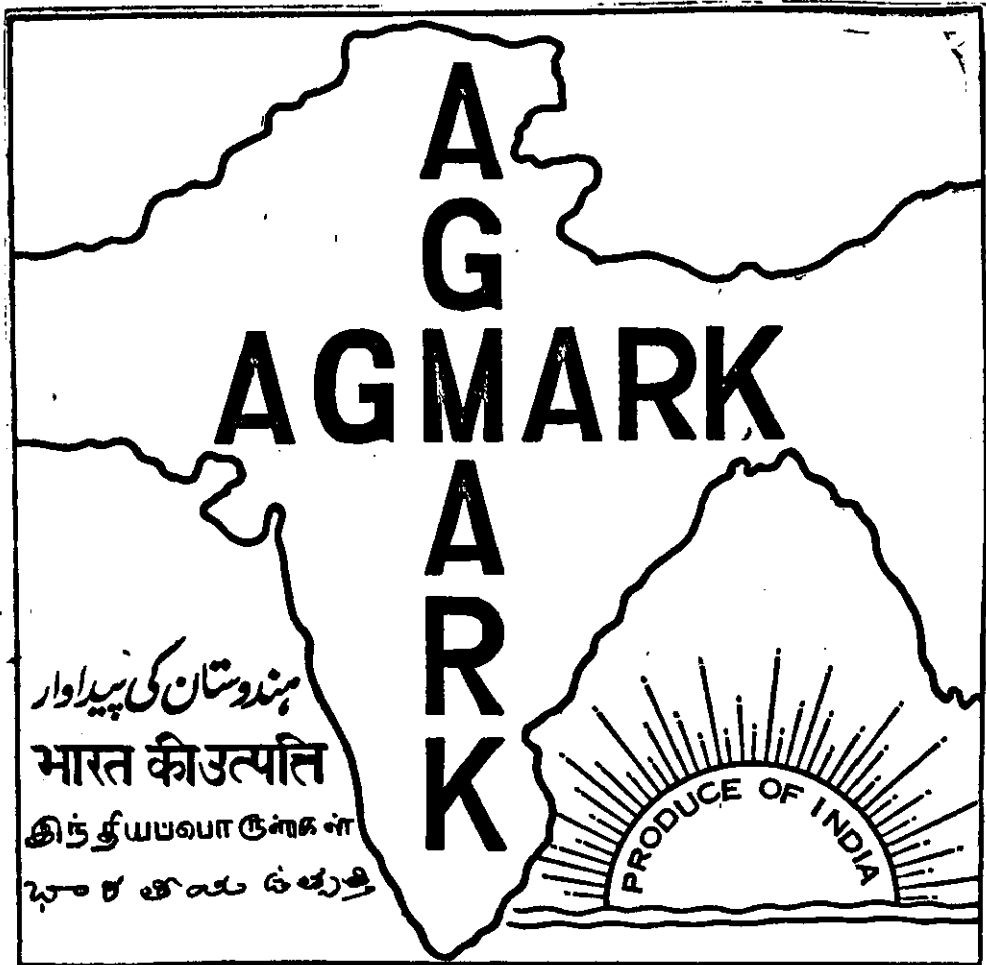
*Grade designations and definition of quality of handpicked selected groundnuts in shell.*

Grade designations. 1	Quality characteristics.		Condition. 4
	Number of nuts per ounce.* 2	Discoloured, damaged, empty* and broken nuts. 3	
Bold . . . .	13/14	Not more than one per cent by weight.	Handpicked selected groundnuts in shell shall be dry and reasonably uniform in size with outwardly two well defined sections in each nut, free from stones, dirt or other foreign matter. The shell shall be clean, bright and of whitish colour.

\* As determined on a representative sample.

APPENDIX XLVIII—*continued.*  
SCHEDULE III.  
(See Rule 4.)

*Grade designation mark for bags of handpicked selected groundnut kernels and groundnuts in shell.*



## APPENDIX

## Approximate returns on stocks of groundnut kernels

	Coromandel kernels at Madras.				
	Nov., 1933 to Aug., 1934.	Nov., 1934 to Aug., 1935.	Nov., 1935 to Aug., 1936.	Nov., 1936 to Aug., 1937.	Nov., 1937 to Aug., 1938.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Average November price per maund.	3 9 5	4 4 10	5 5 4	5 12 8	4 9 4
Average January price per maund.	3 3 2	5 12 7	5 11 9	6 6 5	4 3 1
Average February price per maund.	3 1 6	6 5 6	5 7 6	5 12 0	4 1 0
Average May price per maund	3 5 3	6 7 2	5 8 1	5 10 11	4 6 9
Average August price per maund	3 14, 1	6 0 7	6 10 6	5 5 9	4 2 9
Premium obtained in January over November price.	(-) 0 6 3	1 7 9	0 6 5	0 9 9	(-) 0 6 3
Cost of carrying* from November to January (2 months).	0 1 5	0 1 7	0 1 11	0 2 0	0 1 8
Net gain (+) or loss (-) ..	(-) 0 7 8 (13.4%)	(+) 1 6 2 (32.2%)	(+) 0 4 6 (5.3%)	(+) 0 7 9 (8.4%)	(-) 0 7 11 (10.8%)
Premium obtained in February over November price.	(-) 0 7 11	2 0 8	0 2 2	(-) 0 0 8	(-) 0 8 4
Cost of carrying* from November to February (3 months).	0 2 5	0 2 9	0 3 4	0 3 8	0 2 11
Net gain (+) or loss (-) ..	(-) 0 10 4 (18.0%)	(+) 1 13 11 (43.6%)	(-) 0 1 2 (1.4%)	(-) 0 4 4 (4.7%)	(-) 0 11 3 (15.3%)
Premium obtained in May over November price.	(-) 0 4 2	2 2 4	0 2 9	(-) 0 1 9	(-) 0 2 7
Cost of carrying* from November to May (6 months).	0 3 11	0 4 7	0 5 4	0 5 9	0 4 9
Net gain (+) or loss (-) ..	(-) 0 8 11 (14.1%)	(+) 1 13 9 (43.2%)	(-) 0 2 7 (3.0%)	(-) 0 7 6 (8.1%)	(-) 0 7 4 (10.0%)
Premium obtained in August over November price.	0 4 8	1 11 9	1 5 2	(-) 0 6 11	(-) 0 6 7
Cost of carrying* from November to August (9 months).	0 5 3	0 5 11	0 7 0	0 7 4	0 6 4
Net gain (+) or loss (-) ..	(-) 0 0 7 (1.0%)	(+) 1 5 10 (31.7%)	(-) 0 14 2 (16.6%)	(+) 0 14 3 (15.4%)	(-) 0 12 11 (17.6%)

\*Includes godown rent, interest at 5 per cent, loss in value Norm.—The figures in brackets represent percentages of Novem

**APPENDIX I.**

*Approximate returns on stocks of groundnuts in shell and kernels at several assembling markets in different provinces and States.*

	Coromandel kernels at Cuddapah.	Khandesh nuts in shell at Raichur.	Bold kernels at Gulbarga.	Bold kernels at Barsi.	Khandesh nuts in shell at Dhulia.	Nuts in shell at Malkapur.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Average November price per maund ..	3 12 7 (a)	2 12 3(b)	3 9 2 (c)	4 6 0 (d)	3 11 4 (b)	3 6 11 (e)
„ January „ „ ..	4 2 4	3 2 8	4 4 5	4 7 1	4 0 6	4 1 3
„ February „ „ ..	4 5 3 } (f)	3 3 6 } (g)	3 15 4 } (h)	4 0 8 } (i)	3 15 2 } (j)	3 15 11
„ May „ „ ..	4 7 5	3 1 8	3 12 7	4 4 9	4 2 9	4 0 7
„ August „ „ ..	4 14 9	3 2 3	4 8 3	5 1 0	4 0 11	4 3 3
Premium obtained in January over November price.	0 5 9	0 6 5	0 11 3	0 1 1	0 5 2	0 10 4
Cost of carrying* from November to January (2 months).	0 1 2	0 2 8	0 1 1	0 1 4	0 3 8	0 3 6
Net gain (+) or loss (—) .. ..	(+)0 4 7 (7.7%)	(+)0 3 9 (8.5%)	(+)0 10 2 (17.8%)	(—)0 0 3 (0.4%)	(+)0 1 6 (2.5%)	(+)0 6 10 (12.4%)
Premium obtained in February over November price.	0 8 8	0 7 3	0 6 2	0 0 8	0 3 10	0 9 0

Cost of carrying* from November to February (3 months).	0 2 1	0 4 0	0 2 1	0 2 6	0 5 3	0 5 2
Net gain (+) or loss (—) .. ..	(+)0 6 7 (10.9%)	(+)0 3 3 (7.3%)	(+)0 4 1 (7.1%)	(—)0 1 10 (2.6%)	(—)0 1 5 (2.4%)	(+)0 3 10 (6.4%)
Premium obtained in May over November price.	0 10 10	0 5 5	0 3 5	(—)0 1 3	0 7 5	0 9 8
Cost of carrying* from November to May (6 months).	0 3 4	0 6 3	0 3 3	0 3 10	0 8 1	0 8 1
Net gain (+) or loss (—) .. ..	(+)0 7 6 (12.4%)	(—)0 0 10 (1.9%)	(+)0 0 2 (0.3%)	(—) 0 5 1 (7.3%)	(—)0 0 8 (1.1%)	(+)0 1 7 (2.9%)
Premium obtained in August over November price.	1 2 2	0 6 0	0 15 1	0 11 0	0 5 7	0 12 4
Cost of carrying* from November to August (9 months).	0 4 3	0 7 6	0 4 1	0 4 7	0 9 9	0 9 10
Net gain (+) or loss (—) .. ..	(+)0 13 11 (23.0%)	(—)0 1 6 (3.4%)	(+)0 11 0 (19.2%)	(+)0 6 5 (9.2%)	(—)0 4 2 (7.0%)	(+)0 2 6 (4.6%)

(a) Average 1933 to 1935.

(b) Average 1932 to 1936.

(c) Average 1932 to 1935.

(d) Average 1933 to 1937.

(e) Average 1933 to 1936.

(f) Average 1934 to 1936.

(g) Average 1933 to 1937.

(h) Average 1933 to 1936.

(i) Average 1934 to 1936.

(j) Average 1934 to 1937.

\*Includes godown rent, interest at 5 per cent, loss in value of gunnies, gain or loss in weight and deterioration in quality.

NOTE.—The figures in brackets represent percentages of November price.

## APPENDIX LI.

*Rates of railway freight on groundnuts on different railway systems in India.*  
(In force on 1st January, 1940).

Railway.	General classification and freight rate per maund per mile.	Conditions for exceptions and variations.	Classification and freight rate per maund per mile under conditions mentioned in previous column.
Bengal Nagpur .. ..	Class 2C (at 54 pie) R. R.	Nuts in shell and kernels in wagon loads (300 maunds on B. G. and 160 maunds on M. G. or N. G.) L.	Class 2A at 46 pie R. R. Class 2 at 42 pie O. R.
Bombay, Baroda and Central India.	Do.	Kernels in wagon loads (450 maunds on B. G. and 200 maunds on M. G. or N. G.) L. Nuts in shell in wagon loads (300 maunds on B. G. and 160 maunds on M. G. or N. G.) L.	Class 1 at 38 pie O. R. Class 2A at 46 pie R. R. Class 2 at 42 pie O. R.
Great Indian Peninsula ..	Do.	Kernels in wagon loads (charged at carrying capacity of wagon) L.	Class 1 at 38 pie O. R.
✓ Madras and Southern Maharashtra.	Do.	Nuts in shell and kernels in wagon loads (300 maunds on B. G. and 160 maunds nuts in shell or 200 maunds kernels on M. G.) L.	Class 2 at 42 pie O. R.
H. E. H. The Nizam's State	Do.	Nuts in shell and kernels in wagon loads (300 maunds nuts in shell or 400 maunds kernels on B. G. and 160 maunds nuts or 200 maunds kernels on M. G.) L.	Class 2 at 42 pie O. R.
Mysore State .. ..	Do.	Nuts in shell and kernels in wagon loads (160 maunds on M. G.) L.	Class 2 at 42 pie O. R.
South Indian .. ..	Do.	Nuts in shell and kernels ..	Class 4 at 62 pie R. R.

NOTE.— L. = Loading and unloading by senders and consignees.

B.G. = Broad gauge.

R. R. = Railway risk.

M.G. = Metro gauge.

O. R. = Owner's risk.

N.G. = Narrow gauge.

Source.—Compiled from Goods Tariff No. 23 published by the Indian Railway Conference Association.



## APPENDIX III

*Average rates (approximate) of freight on groundnut kernels from Madras to the United Kingdom.*

(Per ton of 20 cwt.).

Months.	1933-34	1934-35	1935-36	1936-37	1937-38	1938-39
	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
April ..	21 3	22 6	18 0	25 0	30 0	25 0
May ..	22 6	21 9	18 0	25 0	32 6	23 0
June ..	22 6	22 6	18 0	25 0	32 6	22 6
July ..	22 6	21 3	16 0	25 0	32 6	22 6
August ..	22 6	21 6	18 0	25 0	32 6	22 6
September ..	22 6	22 6	17 0	25 0	32 6	25 0
October ..	22 6	22 6	20 0	25 0	32 6	24 0
November ..	22 6	22 6	20 0	25 0	32 6	25 0
December ..	25 0	22 6	20 0	25 0	32 6	25 0
January ..	25 0	22 6	22 6	27 6	30 0	25 0
February ..	23 9	22 6	24 0	30 0	28 9	22 6
March ..	25 0	22 6	24 6	30 0	28 9	25 0
Annual average	23 2	22 3	19 8	26 0	31 6	23 11

By courtesy of Messrs. Best & Co., Madras.

*Average rates (approximate) of freight on groundnut kernels from Bombay to the United Kingdom.*

(Per ton of 14 cwt.).

Months.	1933-34	1934-35	1935-36	1936-37	1937-38	1938-39
	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
April ..	21 0	17 3	17 3	20 0	30 3	19 0
May ..	21 0	17 0	17 0	16 9	32 0	19 0
June ..	22 0	17 0	16 9	16 0	31 0	17 6
July ..	22 0	17 0	17 0	16 0	31 0	18 0
August ..	22 0	18 3	13 3	16 0	32 0	18 0
September ..	18 6	19 0	15 6	18 0	34 6	18 0
October ..	17 0	19 0	24 0	19 0	35 6	19 0
November ..	18 0	18 0	26 0	21 3	34 3	20 0
December ..	19 0	18 6	21 0	30 6	30 6	17 0
January ..	20 0	18 0	21 0	33 0	25 3	17 0
February ..	21 0	18 3	21 0	32 0	23 0	17 0
March ..	18 6	18 0	21 0	30 3	23 0	18 0
Annual average (per ton of 14 cwt.).	20 0	17 11	19 3	22 5	30 2	18 2
Annual average (per ton of 20 cwt.).	23 7	25 7	27 6	32 0	43 1	25 11

By courtesy of Messrs. British India Steam Navigation Co., Ltd., Bombay.

## APPENDIX LIII.

*Average annual prices of groundnut kernels, groundnut oil and groundnut cake at Bombay and Calcutta and millers' margin (including cost of crushing) per maund of groundnut oil manufactured.*

## Bombay.

Year.	Price of 10 maunds groundnut kernels.	Price of 4 maunds groundnut oil.	Price of 6 maunds groundnut cake.	Difference of the price of 4 maunds oil and 6 maunds cake over price of 10 mds. groundnut kernels.	Margin per maund of groundnut oil.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1933-34 ..	38 12 0	33 8 8	11 0 6	5 13 2	1 7 4
1934-35 ..	42 8 0	37 2 4	10 11 6	5 5 10	1 5 6
1935-36 ..	57 5 6	49 7 8	11 6 6	3 10 8	0 14 8
1936-37 ..	63 12 0	52 8 4	14 6 0	3 2 4	0 12 7
1937-38 ..	51 10 8	45 5 8	13 1 0	6 12 0	1 11 0
Average ..	50 12 10	43 9 9	12 2 4	4 15 3	1 3 10

## Calcutta.

1933-34 ..	42 1 4	38 12 0	11 15 0	8 9 8	2 2 5
1934-35 ..	49 7 8	40 3 4	11 1 6	1 13 2	0 7 3
1935-36 ..	62 8 10	53 15 4	12 1 6	3 8 0	0 14 0
1936-37 ..	62 15 6	54 9 4	14 12 0	6 5 10	1 9 6
1937-38 ..	56 14 0	53 2 8	13 11 0	9 15 8	2 7 11
Average ..	54 12 8	48 2 2	12 11 5	6 0 11	1 8 3

APPENDIX LIV.

Average monthly wholesale prices of groundnut oil at Madras.  
(Per maund).

Months.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. .. .	11 7 0	15 6 3	8 12 3	6 12 10	12 15 5	11 11 4	12 3 6	7 4 6	7 1 8
May .. .. .	10 7 11	14 13 8	8 13 7	7 6 6	13 7 0	11 9 4	12 0 3	7 8 6	8 1 11
June .. .. .	10 0 8	13 5 4	10 11 10	7 6 6	13 1 11	12 8 6	11 14 3	7 5 6	8 11 1
July .. .. .	10 9 6	13 9 8	10 4 7	7 5 2	12 13 5	12 6 2	12 0 3	7 8 0	8 3 7
August .. .. .	11 1 1	13 2 0	9 11 4	7 11 1	13 1 4	12 9 0	11 7 11	7 5 8	8 8 0
September .. .. .	10 7 11	12 7 3	8 9 7	..	11 12 8	13 0 5	10 13 2	7 2 10	9 7 3
October .. .. .	11 10 4	11 11 10	7 15 9	9 14 11	..	12 0 11	10 5 4	7 4 5	9 7 7
November .. .. .	11 11 0	11 0 5	8 5 8	8 13 9	..	11 11 4	9 7 1	6 12 1	10 10 0
December .. .. .	11 9 0	10 10 4	7 5 8	10 0 3	..	12 3 3	9 3 6	7 9 5	11 6 8
January .. .. .	13 0 11	11 12 4	7 3 11	12 10 9	12 6 0	12 2 11	8 10 3	7 7 7	10 12 11
February .. .. .	15 12 10	10 13 10	6 15 1	13 9 3	11 13 7	11 14 3	8 0 5	7 3 4	10 7 6
March .. .. .	16 14 5	10 1 0	7 5 6	12 9 11	11 9 8	11 13 3	7 15 1	7 3 2	10 12 6
Annual average ..	12 1 1	12 6 6	8 8 3	9 7 9	12 9 0	12 2 3	10 5 5	7 4 11	9 7 7

Note.—The prices are for *chekku* oil from April 1931 to December 1931 and from January 1934 to August 1934, while those for other months are for expeller oil.

APPENDIX LV.

Average monthly wholesale prices of groundnut oil at Bombay.  
(Per maund).

Months.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. .. .	8 11 10	7 9 9	13 1 2	11 12 10	13 5 1	8 0 10	7 6 6
May .. .. .	9 4 2	7 13 2	13 11 5	12 1 3	13 3 1	7 14 7	8 14 9
June .. .. .	9 2 5	7 3 1	13 7 3	12 13 0	12 12 9	8 2 9	9 5 2
July .. .. .	8 15 6	7 1 5	12 8 4	13 12 2	12 13 9	8 0 10	8 11 7
August .. .. .	8 7 2	7 12 8	12 13 9	14 4 6	11 14 1	7 7 9	8 15 9
September .. .. .	8 7 8	8 7 8	11 12 10	14 4 3	11 5 6	7 7 9	10 3 10
October .. .. .	8 2 6	9 6 4	12 9 10	12 15 8	11 4 3	7 8 0	10 8 0
November .. .. .	8 1 4	9 5 11	12 3 5	12 9 10	10 10 5	7 10 0	12 0 6
December .. .. .	7 10 11	9 14 8	12 4 5	12 18 6	9 15 2	8 3 6	12 10 9
January .. .. .	7 7 3	13 11 11	12 3 5	13 4 1	9 3 5	7 11 5	11 11 10
February .. .. .	7 8 0	13 2 4	11 11 4	12 15 2	8 7 2	7 8 3	11 2 6
March .. .. .	7 5 7	12 8 4	11 10 10	13 3 7	8 7 2	7 9 3	11 3 9
Annual average ..	8 4 4	9 8 1	12 8 2	13 1 2	11 1 10	7 12 5	10 3 11

NOTE.—The annual averages will be found to be slightly different from those given on page 292 which have been worked out from prices received from another source.

SOURCE.—Compiled from prices quoted in "Times of India".

APPENDIX LVI

Average monthly wholesale prices of groundnut oil (loose ex-mill) at Calcutta.  
(Per maund).

Months.	1931-32.	1932-33.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. .. .	12 10 0	15 12 0	10 8 0	8 0 0	14 0 0	13 2 0	14 4 0	10 8 0	9 5 0
May .. .. .	12 0 0	15 10 0	10 10 0	8 6 0	14 10 0	12 8 0	14 0 0	10 0 0	9 4 0
June .. .. .	11 8 0	15 6 0	10 8 0	8 8 0	14 4 0	13 0 0	14 4 0	9 8 0	9 8 0
July .. .. .	11 12 0	15 8 0	10 8 0	9 0 0	13 0 0	13 6 0	14 2 0	9 8 0	9 13 0
August .. .. .	12 8 0	14 10 0	10 4 0	8 10 0	13 12 0	14 10 0	14 6 0	9 6 0	10 3 0
September .. .. .	12 0 0	14 8 0	10 8 0	9 0 0	13 10 0	14 14 0	14 4 0	9 4 0	11 11 0
October .. .. .	13 0 0	14 0 0	9 8 0	9 12 0	14 0 0	13 14 0	14 0 0	9 4 0	11 5 0
November .. .. .	13 12 0	12 12 0	9 10 0	10 6 0	13 8 0	13 4 0	13 8 0	9 2 0	12 2 0
December .. .. .	12 12 0	12 8 0	8 6 0	10 10 0	13 8 0	12 12 0	13 0 0	9 2 0	11 4 0
January .. .. .	12 12 0	12 12 0	8 14 0	12 6 0	12 6 0	14 4 0	11 8 0	9 0 0	11 0 0
February .. .. .	13 10 0	12 8 0	8 6 0	12 10 0	12 14 0	14 0 0	11 4 0	9 0 0	9 0 0
March .. .. .	17 0 0	11 12 0	8 10 0	13 6 0	12 6 0	14 2 0	11 0 0	9 5 0	11 12 0
Annual average ..	12 15 0	13 15 8	9 11 0	10 0 10	13 7 10	13 10 4	13 4 8	9 6 7	10 8 3

Source.—Merchants' records.

## APPENDIX LVII.

*Copy of a contract used by a vegetable products factory for purchasing groundnut oil.*

Dated \_\_\_\_\_ 19 .

Contract No. \_\_\_\_\_.

Messrs. \_\_\_\_\_

I|We have this day sold to you \_\_\_\_\_ tons groundnut oil at  
Rs. \_\_\_\_\_ per \_\_\_\_\_

Delivery.— \_\_\_\_\_

Weightment.—To be made at buyer's factory.

Quality.—Pure unadulterated groundnut oil free from water and dirt and in accordance with Tariff "A" for deliveries from 15th November to 14th May and in accordance with Tariff "B", for deliveries from 15th May to 14th November. The F. F. A., (as per cent oleic acid) contents and the colour reading shall be determined by the buyer's laboratory. The buyer shall have the right to refuse acceptance of any groundnut oil delivered against this contract which contains water or is impure, or adulterated or has been treated with chemicals, earth, carbon, or other bleaching agents.

The methods to be employed for determination of colour readings and for the preparation of samples are laid down overleaf and form also part of the contract.

If the seller does not agree with the findings of the buyer's laboratory, the dispute shall be settled by arbitration in the manner prescribed overleaf.

*Tariff A.*

Not exceeding 1 per cent f. f. a.—free.

Above 1 per cent and not exceeding 1.5 per cent f. f. a.—the seller shall pay a rebata equal to the percentage excess.

Above 1.5 per cent and not exceeding 1.75 per cent f. f. a.—the seller shall pay a rebate equal to  $1\frac{1}{2}$  times the excess.

Above 1.75 per cent and not exceeding 2 per cent f. f. a.—the seller shall pay a rebate equal to twice the excess.

Above 2 per cent f. f. a.—oil will be refused.

*Tariff "A" Colour.*

Oil colour to be defined by the method described overleaf.

Oil stated to be lighter in colour than or equal to standard solution 30 shall be free of rebate.

Oil stated to be of deeper colour than standard solution 30 may be either accepted or rejected at the buyer's option, but if accepted the seller shall pay rebate according to the following scale :—

If colour of oil compared with standard solutions was found to be		Rebate per quarter of 28 lb.
Deeper than	Lighter than or equal to	
30	35	3 pie.
35	40	9 ..
40	..	Oil refused.

**Tariff B.**

Not exceeding 1.5 per cent f. f. a.—free.

Above 1.5 per cent and not exceeding 2 per cent f. f. a.—the seller shall pay a rebate equal to the percentage excess.

Above 2 per cent and not exceeding 2.25 per cent f. f. a.—the seller shall pay a rebate equal to  $1\frac{1}{2}$  times the excess.

Above 2.25 per cent and not exceeding 2.5 per cent f. f. a.—the seller shall pay a rebate equal to twice the excess.

Above 2.5 per cent f. f. a.—oil will be refused.

**Tariff " B " Colour.**

Oil colour to be defined by the method described overleaf.

Oil stated to be lighter in colour than or equal to standard solution 35 shall be free of rebate.

Oil stated to be of deeper colour than standard solution 35 may be either accepted or rejected at the buyer's option, but if accepted the seller shall pay rebate according to the following scale :—

If colour of oil compared with standard solutions was found to be		Rebate per quarter of 28 lb.
Deeper than	Lighter than or equal to	
35	40	3 piec.
40	45	9 „
45	..	Oil refused.

**Delivery terms.**—Should the seller fail to deliver the oil within the specified period of the contract, then the buyer has the option either to cancel the contract, or to buy on behalf of the seller the contracted quantity or any undelivered quantity which is still outstanding against the contract, and any difference between the purchase price of this oil and the price of the original contract will have to be borne by the original seller.

**Brokerage.**— $\frac{1}{2}$  per cent to be paid by sellers.

**Payment.**—On the third day after delivery less  $\frac{1}{2}$  per cent discount. Payment will be made on the 3rd day provided the buyer's laboratory test shows that the delivery conforms to the terms of this contract. Should the delivery fail to conform to buyer's standards as regards absence of water, or purity or f. f. a. and/or colour or adulteration or has been found to be treated with chemicals, earth, carbon, or any other bleaching agents, no payment will be made and the supplier must remove the oil within 24 hours of the arrival of the oil at the buyer's factory at his risk and supply new oil within the period of and in accordance with the terms of this contract.

Yours faithfully,

Seller's signature.

*Summary of method for determination of colour, preparation of samples, and the manner of arbitration described on the reverse of the contract form.*

1. *Method for determination of the colour.*—Colour is compared with the colour of bichromate solutions prepared by dissolving pure potassium bichromate in distilled water, 25 mgms. potassium bichromate are dissolved in 100 c. c. distilled water, for standard colour solution 25, 30 mgms. in 100 c. c. distilled water, for standard colour solution 30 and so on. The oil for examination (which should be free from visible impurities and, if necessary, filtered) and the standard solutions for comparison are filled into bottles of similar material and dimensions.

2. *Preparations of samples.*—(1) The buyer may draw a sample from the drums delivered at his site.

(2) If the sample conforms to buyer's standards, all the drums of the lot are emptied in the presence of the seller's representative, into a tank and a sample taken. The sample is filled into 4 bottles of 2 oz. capacity and sealed with the seals of both parties.

(3) If the sample drawn by the buyer does not conform to his standards, the buyer shall draw a sample in the presence of seller's representative from some or all the drums and fill 4 bottles of 2 oz. capacity.

(4) In the case of railway tank wagon, a sample will be drawn in the presence of the seller's representative and 4 bottles of 2 oz. capacity filled.

(5) Should seller's representative be not present at the time the samples are drawn, the buyer shall draw the sample independently.

(6) The four samples are allocated, (i) one for the seller, (ii) one for the buyer, (iii) one for the Chemical Examiner, if required, and (iv) one for the final arbitration, if required.

3. *Arbitration.*—(1) When buyer's analysis is disputed, one sealed sample is sent to the Chemical Analyser to the Government.

(2) If the analysis of the Chemical Analyser differs from the buyer's analysis by 0.05 per cent or less in respect of f. f. a. and/or 5 units or less in respect of colour, the buyer's analysis is accepted, and the seller pays the fees of the Chemical Analyser.

(3) If the analysis of the Chemical Analyser differs from the buyer's analysis by more than 0.05 per cent in respect of f. f. a. and/or by more than 5 units in respect of colour or the buyer and seller fail to agree mutually to accept the analysis of the Chemical Analyser, either party has the right, to resort to arbitration through the appointed arbitrator. If the analysis of the Chemical Analyser is mutually accepted or arbitration is not sought, it forms the basis of payment. The fees are paid by the buyer or seller according as the rebate calculated on the basis of the Chemical Analyser's analysis is less or more than the rebate calculated on the basis of the buyer's analysis.

(4) If the arbitrator's analysis differs from the buyer's analysis by not more than 0.05 per cent f. f. a. and/or not more than 5 units in respect of colour then the buyer's analysis remains the basis for rebate and the seller pays the fees of both the arbitrator and the Chemical Analyser. If the arbitrator's analysis differs by more than 0.05 in respect of f. f. a. and/or by more than 5 units in respect of colour from the buyer's analysis, then the arbitrator's analysis is accepted as the basis for payment. The fees of the Chemical Analyser and arbitrator are paid by the buyer or the seller according as the rebate calculated on the basis of the arbitrator's analysis is less or more than the rebate calculated on the basis of the buyer's analysis.

(5) If the oil found by the Chemical Analyser is to exceed the allowed contents of f. f. a. or strength of colour as laid down, or is to contain water or to be impure or treated with chemicals, etc., the buyer's rejection is upheld and the seller pays the fees of the Chemical Analyser. If the oil is found by the Chemical Analyser to be within the limits of Tariffs A or B (whichever is ruling at the time of delivery) in respect of f. f. a. and colour and to be free from water, pure and not treated with chemicals, etc., then the buyer shall have the option, (i) either to accept the statement of the Chemical Analyser and the



oil, when offered again and pay the fees of the Analyser, together with the normal removal and replacement fees of the oil, if any, or (ii) resort to arbitration through the medium of the appointed arbitrator.

(6) If the oil is found by the arbitrator to exceed the allowed contents of f. f. a. or strength of colour as laid down or to contain water or to be impure or treated with chemicals, etc., then the rejection of the oil by the buyer is upheld and the seller pays the fees of both arbitrator and the Chemical Analyser. If the oil is found by the arbitrator to be within the limits of Tariffs A or B, whichever is ruling at the time of delivery, in respect of f. f. a. and colour and to be free from water, pure and not treated with chemicals, etc., the buyer shall accept the oil, when offered again, in accordance with the terms of this contract and shall pay the fees of both the arbitrator and the Chemical Analyser, together with the normal removal and replacement fees of the oil, if any.

## APPENDIX LVIII.

*Copy of an oil mill's contract for selling groundnut oil.*

Dated the \_\_\_\_\_ 19 \_\_\_\_ .

Sale Contract No. \_\_\_\_\_

Sold to \_\_\_\_\_

Quantity \_\_\_\_\_

Description \_\_\_\_\_

Price \_\_\_\_\_

Delivery \_\_\_\_\_

*Terms and conditions.*

1. This contract will be suspended during the continuance of any stoppage of the mills or any interruption from fires, explosions, epidemics of sickness, shortage or failure of industrial water supply, collapse of buildings, breakdowns, strikes, labour disputes or combination of workmen or other unforeseen circumstances.

2. The facts of such occurrences as well as the resumption of work at these mills will be notified within a reasonable time by the seller to the buyers, should such delays affect deliveries under this contract and the buyers shall have no claim on the sellers in the event of late deliveries resulting in consequence of such delays.

3. Goods will be despatched at "Owners risk rate" if available, unless special instructions to the contrary are given.

4. Sellers accept no responsibility in the event of last delivery due to non-supply of railway wagons.

5. Should the goods under this contract be hereafter liable to any form of Government duty or charge, such duty or charge shall be for buyers account.

6. Unless expressly stated otherwise a delay in delivery time of a few days will not entitle the buyers to cancel this contract.

7. Interest at 12 per cent will be charged on all overdue account. The goods after due date shall lie at the sole risk of the buyer.

8. Should the buyers fail to pay sellers invoice on due date, the sellers may, but shall not be bound to insure the said goods against fire at the expense of the buyers and may with or without notice to the buyers at the option of the seller, resell the goods on the buyer's account and risk either by public auction or private contract and at such time or times and place or places as the seller in his absolute discretion think desirable. In the event of resale the buyers shall forthwith pay to seller the amount of any loss or deficiency that may arise from such resale and shall also pay all costs, charges and expenses incurred in or about such resale waiving all claims to any advantage thereon. If at any time during the period of this contract the buyer becomes insolvent or bankrupt, the seller shall have the right to close the contract forthwith or re-sell the goods and all losses arising out of either auction shall be for account of the buyer.

9. The seller shall not be responsible for late or non-arrival of goods in consequence of "Force Majeure".

10. All contracts, deliveries, payments, and, etc., made or requiring to be made in respect of this contract, shall be deemed to have been so made at \_\_\_\_\_ only for all purposes of jurisdiction to prefer claims, and file suits, etc.

## APPENDIX LIX.

*Edible Oils Grading and Marking Rules.*

1. *Short title and application.*—(1) These rules may be called the Edible Oils Grading and Marking Rules, 1939.

(2) They shall apply to edible vegetable oils produced in India.

2. *Grade designations.*—Grade designations to indicate the quality of edible oils are set out in column 1 of Schedules I—III annexed to these rules.

3. *Definition of quality.*—The quality indicated by the grade designations is set out against such designations in columns 2 to 10 of the Schedules I—III annexed to these rules.

4. *Grade designation marks.*—(1) The grade designation mark, to be used on small containers, shall consist of a round label of the design and colour set out in Schedule IV, specifying the name of the oil and the grade designation.

(2) The grade designation mark to be used on 40/45 gallon drums or similar containers shall consist of the word AGMARK on a lead seal.

5. *Method of marking.*—The grade designation mark shall be securely affixed to each container in a method approved by the Agricultural Marketing Adviser.

6. *Method of packing.*—Only clean new containers or sound clean returnable 40/45 gallon drums shall be used for packing, and these shall be securely closed and sealed.

7. *Special conditions of Certificate of Authorisation.*—In addition to the conditions specified in rule 4 of the Agricultural Produce (Grading and Marking) (General) Rules, 1937, the conditions set out in Schedule V shall be conditions of every Certificate of Authorisation issued for the purposes of these rules.

APPENDIX LIX—contd.

SCHEDULE II.

(See Rules 2 and 3).

Grade designations and definition of quality for groundnut oil (edible).

Grade designations.	Physical and chemical characteristics.								Description and appearance.
	Refining.	Colour.	Refractive Index at 40°C.	Specific Gravity at 15.5°/15.5°C.	Unsaponifiable matter.	Acid value.	Saponification value.	Iodine value (Wijs' method).	
1	2	3	4	5	6	7	8	9	10
Special (Refined)	Shall be refined by a process of clarification (by treatment with alkali and filtering through charcoal or Fuller's earth) and deodorising with steam. No chemical bleaching agents shall be used.	Not deeper than equivalent to 5 yellow units on a Lovibond colour scale when measured through a one inch cell.	1.4631 to 1.4646	.916 to .919	Not more than 0.8%	Not more than 0.5	188 to 196	85 to 99	<i>Description:—</i> Groundnut oil (edible) shall be the oil obtained by a process of expression (not extraction) from groundnuts free from admixture with other oils or any other substances.
Special	May or may not be refined as for Special (Refined).	Not deeper than equivalent to a combination of 1 red and 10 yellow units on a Lovibond colour scale when measured through a one inch cell.	1.4631 to 1.4646	.916 to .919	Not more than 0.8%	Not more than 2	188 to 196	85 to 99	<i>Appearance:—</i> Groundnut oil (edible) shall be clear*, free from sediment and other insoluble matter.
Grade A	May or may not be refined as for Special (Refined).	Not deeper than equivalent to a combination of 1 red and 25 yellow units on a Lovibond colour scale when measured through a one inch cell.	1.4626 to 1.4646	.916 to .920	Not more than 1%	Not more than 8.	188 to 196	85 to 99	


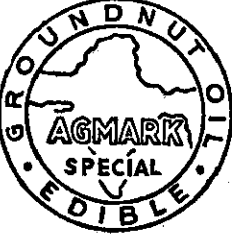
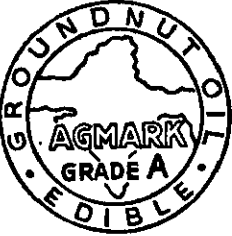
\* A sample shall be considered clear if it does not show any turbidity by keeping at 20°C, for 24 hours.

APPENDIX LIX—contd.

SCHEDULE IV.

(See Rule 4).

(b) Grade designation mark for tins of groundnut oil (edible).

Grade designations.	Design of the label.	Colour of the label.
Special (Refined) . . . . .		White.
Special . . . . .		Red.
Grade A . . . . .		Blue.

APPENDIX LIX—*conold.*

## SCHEDULE V.

*(See Rule 7).**Special conditions of Certificate of Authorisation.*

(a) An authorised packer shall be equipped with suitable plant for the expression of edible vegetable oils, and tanks for the storage of oils.

(b) If an authorised packer crushes more than one type of oilseeds on the same premises, adequate precautions shall be taken to avoid the mixing of different oils and oilseeds.

(c) An authorised packer shall provide and maintain laboratory equipment and staff, as approved by the Agricultural Marketing Adviser, for the analysis of samples of edible oils and shall maintain proper records of the analysis of samples.

(d) All instructions regarding methods of sampling and analysis, sealing and marking of containers and the maintenance of records, etc., which may be issued from time to time by the Agricultural Marketing Adviser, shall be strictly observed.

(e) A sample of oil, drawn in a manner prescribed by the Agricultural Marketing Adviser, from each filling of a storage tank or railway tank wagon of oil, shall be forwarded to such Central Control Laboratory, as may be directed from time to time. If the packing of oil from a storage tank is not completed within 7 days of drawing the sample, a fresh sample shall be drawn on the 8th day and after every seven days thereafter and sent to the control laboratory.

(f) Each tin or drum shall be filled with oil from one storage tank or tank wagon only.

(g) Each container of oil shall, soon after being filled, be marked in a manner approved by the Agricultural Marketing Adviser (plainly or in code) with the name of the grading station and a number indicating the tank filling from which the oil was drawn.

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NOTE.—Schedules I, III, IV (a) and IV (c) which relate to mustard oil and  $\frac{1}{2}$  oil, have been omitted.

APPENDIX LX.

Prices of groundnut cake in the first week of every month at Bombay.  
(Per maund).

Months.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. .. .	1 15 2	1 3 5	1 10 11	1 14 9	2 9 1	2 0 11	2 2 7
May .. .. .	2 1 6	1 7 6	1 14 7	1 15 8	2 4 5	2 1 6	2 3 7
June .. .. .	1 15 9	1 7 6	1 15 9	1 15 8	2 3 10	2 2 8	2 3 11
July .. .. .	2 3 3	1 8 1	1 14 7	2 6 2	2 3 3	2 6 9	2 5 8
August .. .. .	2 0 3	2 0 3	1 15 2	2 9 1	2 5 0	2 5 0	2 5 8
September .. .. .	1 13 4	1 15 2	2 0 3	2 12 7	2 4 5	2 3 3	2 3 3
October .. .. .	1 12 8	1 14 8	2 0 3	2 7 11	2 0 11	2 2 1	2 4 4
November .. .. .	1 12 8	1 13 4	1 15 2	2 9 1	2 0 11	2 0 6	2 3 3
December .. .. .	1 11 9	2 0 10	1 14 11	3 7 4	1 15 8	2 4 2	2 2 4
January .. .. .	1 10 4	2 3 3	1 15 8	2 12 0	1 15 1	2 4 2	2 0 6
February .. .. .	1 8 9	2 2 9	1 13 7	2 10 3	2 1 6	2 2 1	1 14 7
March .. .. .	1 7 3	1 10 4	1 14 7	2 3 10	2 1 6	2 2 1	1 13 5
Annual average ..	1 13 5	1 12 7	1 14 9	2 7 8	2 2 10	2 2 11	2 2 7

Source.—“Times of India”, Bombay.

APPENDIX LXI.

Average monthly prices of groundnut cake at Calcutta.  
(Per maund).

Months.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
April .. .. .	2 4 0	1 9 4	2 1 6	2 0 0	2 10 6	1 14 9	2 1 0
May .. .. .	2 4 0	1 8 0	2 1 0	2 0 0	2 9 0	2 2 6	2 3 0
June .. .. .	2 8 0	1 8 0	2 0 0	2 0 0	2 8 0	2 3 6	2 3 3
July .. .. .	2 1 4	1 8 0	1 15 0	2 2 6	2 8 0	2 5 0	2 3 6
August .. .. .	2 0 0	1 12 0	1 15 0	2 8 6	2 7 9	2 2 3	2 3 0
September .. .. .	2 0 0	2 0 0	1 15 0	2 8 0	2 6 0	2 0 6	2 5 0
October .. .. .	1 15 0	2 0 0	2 2 6	2 7 0	2 5 0	2 0 6	2 5 0
November .. .. .	2 0 0	2 0 0	2 0 6	2 10 0	2 1 3	2 0 0	2 4 0
December .. .. .	2 0 0	2 0 0	2 0 0	2 15 3	2 0 0	2 1 0	2 7 6
January .. .. .	1 10 5	2 0 0	2 0 6	2 15 3	2 1 0	2 4 3	2 1 6
February .. .. .	1 10 0	2 3 0	2 0 0	2 13 0	1 14 9	2 3 6	2 1 9
March .. .. .	1 9 0	2 3 0	2 0 0	2 8 9	1 14 6	2 1 3	1 15 0
Annual average ..	1 15 10	1 13 7	2 0 3	2 7 4	2 4 6	2 1 11	2 3 2

Source.—“ Commerce ” and “ The Indian Trade Journal ”.



## APPENDIX LXII.

*Extract from the London Cattle Food Trade Association contract for imported feeding cakes and meals.*

*Quality.*—At time of loading to be fair average of the season's shipment. To contain not less than \_\_\_\_\_ per cent of oil and albuminoids combined, and not more than \_\_\_\_\_ per cent of sand and/or silica.

Should the whole or any portion not turn out equal to warranty the goods must be taken at an allowance to be agreed or settled by arbitration as provided below except that for any deficiency of oil and albuminoids there shall be allowances to buyers at the following rates, *viz.*, 1 per cent of the contract price for each of the first 3 units of deficiency, under the guaranteed percentage; 2 per cent of the contract price for the fourth and fifth units and 3 per cent of the contract price for each unit in excess of five and proportionately for any fraction thereof. For any excess of sand and/or silica there shall be an allowance of \_\_\_\_\_ per cent of the contract price for each unit of excess and proportionately for any fraction thereof. Should the cake and/or meal contain over 5 per cent of sand and/or silica the buyer is entitled to reject the goods, in which case the contract shall be null and void for such quantity rejected.

The goods are warranted free from castor seed husk; but should the analysis show a percentage of castor seed husk not exceeding .005 per cent the buyer shall not be entitled to reject the goods but shall accept them with the following allowances; 2*sh.* 6*d.* per ton not exceeding .001 per cent, 3*sh.* 9*d.* per ton not exceeding .002 per cent, and 5*sh.* per ton not exceeding .005 per cent. Should the first analysis show the goods free from castor seed and/or castor seed husk such analysis shall be final, but in the event of the first analysis showing castor seed husk to be present a second sample may be analysed at the request of either party and the mean of the two analyses shall be taken as final. Should the parcel contains castor seed husk in excess of .005 per cent buyers shall be entitled to reject the parcel, in which case the contract shall be null and void for such quantity rejected.

\* \* \* \* \*

## APPENDIX LXIII.

*Extract from the Hamburg Cattle Food Trade Association General Arrival contract No. III-A (Indian oilcakes).*

When sales are made on type sample slight variations in colour and grinding are not to be objected to. Where no uniformity of colour and grinding is provided for, goods of fair average contract quality are to be accepted as good delivery. In the case of oilcakes, reasonable breakage is not to be objected to.

In the event of castor seed being found, even if only in traces buyers are entitled to either reject the goods or to accept them with allowance.

Should buyers avail themselves of the right of rejection they are entitled to a refund of quay charges, reception charges, lighterage and loss of interest. The presence of castor seed is proved if shown by any one analysis even though another test may show a different result. Sellers, however, are entitled to claim from buyers that the remains of the sample on the strength of which the presence of castor seed has been found, are to be re-sealed by the Analytical Chemist and that this sample is to be held at the disposal of sellers for a second analysis with regard to the quantity of castor seed contained. The mean of the results thus obtained is to form the basis for final adjustment.

Should buyers agree to take delivery of the goods even if containing castor seed, sellers have to grant to buyers the following allowance according to the quantity of castor seed present :—

	Per cent.
2 per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.002
2½ per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.005
3½ per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.008
4½ per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.02
5½ per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.05
7½ per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.08
9 per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.10
11 per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.25
15 per cent of the contract price if the presence of castor seed does not exceed .. .. .	0.50

In the event of deficiency of oil and albuminoids sellers have to allow buyers : 1 per cent for each per cent of deficiency upto 3 per cent ; 2 per cent for each further per cent of deficiency if the deficiency amounts from 3 per cent to 5 per cent : 3 per cent for each further per cent of deficiency if the deficiency exceeds 5 per cent.

The presence of sand up to 2½ per cent is not to be objected to. Goods containing from 2½ per cent to 5 per cent are to be accepted by buyers against an allowance. The allowance to be 1 per cent of the purchase price for each per cent in excess of 2½ per cent. If the presence of sand is in excess of 5 per

cent buyers are entitled to reject the goods and to demand refund of the expenses, incurred for quay charges, reception charges, lighterage and loss of interest.

\* \* \* \* \*

Should the analysis show an under-test of oil and albuminoids of 10 per cent or more, buyers have the right either to receive the goods at the allowance provided for or to reject them, in which latter event all expenses shall be for sellers' account.

Should the goods be inferior in quality or in contents to contract warranty buyers shall not be entitled to reject but shall take delivery and pay for them in accordance with the contract. The amount of the damages for inferior quality and/or of the allowances for inferior contents shall then be determined by arbitration.

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## APPENDIX LXIV.

*Copy of an exporter's contract for purchasing groundnut cake.*

\_\_\_\_\_, Limited.

*Oil cake contract.*

Contract between \_\_\_\_\_, Limited (\_\_\_\_\_) through their agency at \_\_\_\_\_ (hereinafter called the "Buyers") and \_\_\_\_\_ (hereinafter called the "Sellers"), whereby the Buyers agree to buy and the Sellers agree to sell the following.

*Terms.*—On Pass.

*Quantity.*— \_\_\_\_\_ tons (in words) \_\_\_\_\_ only, 1 per cent more or less, of \_\_\_\_\_.

*Quality.*—Decorticated groundnuts cake \_\_\_\_\_ light colour.

*Basis.*—Guaranteed to be in sound condition and to contain not less than 55 per cent albuminoids and oil and not more than 2½ per cent sand and free of any other foreign matter and free from surface mould.

*Price.*—At Rs. \_\_\_\_\_ (in words) Rupees \_\_\_\_\_ per ton net without gunnies.

*Delivery.*— \_\_\_\_\_.

*Sampling.*—Goods to be sampled at the Buyers' Port Godowns on arrival, and the sample to be analysed in Bombay for percentage of oil, albuminoids and sand.

Samples to be drawn and sealed in three sample bags, original, duplicate and triplicate. The original sample to be analysed in Messrs. \_\_\_\_\_, Limited, laboratory. In case of dispute the duplicate sample to be submitted to a recognised analyst for analysis the result of which shall be final and binding upon both parties.

The triplicate sample to be kept aside for submission to the Bombay Chamber of Commerce for arbitration in case of dispute as regards allowances claimed by the Buyers for quality and/or colour.

*Allowances.*—Every 1 per cent and upto 5 per cent deficiency in oil and albuminoids, and every 1 per cent excess and upto 5 per cent sand to be deducted at 1.25 per cent of the contract price per unit.

Goods containing sand in excess of 5 per cent or over 5 per cent deficiency of albuminoids and oil may be rejected at Buyers' option.

*Payment.*—90 per cent of the value of the goods against railway receipt and the balance after receipt of the port weights and Bombay analysis results.

Anything besides plain signatures written in any language but English on this contract shall be null and void and shall not be construed in any way as part of the terms or conditions of this contract.

For \_\_\_\_\_, Limited,  
\_\_\_\_\_ Agency,

for Agent.

Sellers' signature.

*General conditions.*

1. In case of failure to deliver whole or part of this contract through any cause whatsoever including rejection of the goods in exercise of any right or option under this contract, Buyers shall have the option of :

- (a) Either to cancel the undelivered portion of this contract, or
- (b) To hold the Sellers liable for the difference between the contract rate and the price at which cake of the same description and quality as contracted for may be obtained in the market, on the due date of this contract.

2. The goods should be despatched to \_\_\_\_\_ at Seller's expense and risk by rail from any station. Railway receipt to be made out in the name of \_\_\_\_\_, Limited, as consignors and consignees. If the railway receipts are made out in the name of \_\_\_\_\_, Limited, as consignors and consignees and the goods are not delivered at \_\_\_\_\_, Limited godowns, the sellers shall refund to the buyers the cost of extra expenses incurred for bringing the goods to their godowns.

3. In case the first analysis shows deficiency of oil and aluminoids and/or excess sand and the sellers do not agree to pay the allowance demanded by buyers the second sample provided, the sellers so desire, will be sent for an independent analysis but the fees for such an analysis will be borne by sellers irrespective of whether the percentage of oil and albuminoids and/or sand is found to be as guaranteed in the contract.

4. In the event of the rejection of any goods, the buyers without any prejudice to any other terms of their contract shall give the sellers' notice to the effect that if within ten days from the delivery of such notice sellers fail to refund the amount advanced by buyers and expenses incurred against goods tendered but eventually rejected, buyers shall be at liberty without further notice to sellers to sell the goods tendered and to receive the sale proceeds thereof against the amount advanced.

5. In the event of the collected amount out of the sale proceeds of the goods tendered and rejected, not being sufficient to cover the amount of advance paid to sellers, buyers shall hold the sellers responsible to pay the balance outstanding amount.

6. In case sellers wish the duplicate sample to be analysed by an independent chemist or submit the triplicate sample to the Chamber of Commerce they must notify buyers to this effect within 48 hours from receipt of their analysis report. Failure to do so will entitle buyers to take their own analysis as the basis for settlement or at their option, to submit the duplicate sample to an independent analyst.

7. Buyers shall not be obliged to keep any lot intact, after weighment and after the sample for analysis and colour have been drawn in the manner described above.

8. All disputes will be settled by arbitration through the Bombay Chamber of Commerce.

9. Under no circumstances can the sellers claim impossibility of performance or *force majeure* for not fulfilling this contract.

## GLOSSARY OF VERNACULAR TERMS.

## A

<i>Adat (arhat)</i>	..	..	Commission charged and the business carried on by commission agents.
<i>Adholi</i>	..	..	Bombay dry measure equal to 2 seers.
<i>Adpao</i>	..	..	1/8th of a seer (2 <i>chhataks</i> ).
<i>Annawari</i>	..	..	System of expressing the outturn of crops in terms of annas.
<i>Arhatya (adatya)</i>	..	..	Commission agent.
<i>Asarh</i>	..	..	The fourth month of Hindu calendar (June-July).
<i>Ashwin</i>	..	..	The seventh month of Hindu calendar (September-October).
<i>Atli</i>	..	..	A local unit of weight equivalent to 200 lb.

## B

<i>Baisakh</i>	..	..	The second month of Hindu calendar (April-May).
<i>Bania (baniya)</i>	..	..	Village merchant who primarily trades in agricultural produce, but who is generally the village financier.
<i>Bara</i>	..	..	Big.
<i>Batas</i>	..	..	System of giving part of the produce as rent to the landlords.
<i>Batta</i>	..	..	Discount.
<i>Baya</i>	..	..	A weighman or measurer.
<i>Beopari</i>	..	..	A trader; an itinerant merchant.
<i>Bhadbhunja</i>	..	..	A grain parcher.
<i>Bhadon</i>	..	..	The sixth month of Hindu calendar (August-September).
<i>Bhishti</i>	..	..	Waterman or water carrier.
<i>Bhovar</i>	..	..	A rough cloth spread in carts for transporting produce in bulk. (See <i>gona</i> and <i>palli</i> ).
<i>Boja</i>	..	..	Literally load; a unit of sale.
<i>Brahmans</i>	..	..	A community among Hindus.

## C

<i>Chaitra</i>	..	..	The first month of Hindu calendar (March-April).
<i>Charbini</i>	..	..	Animal fat.
<i>Chhatak</i>	..	..	1/16th part of a seer.
<i>Chekku</i>	..	..	A primitive arrangement for the extraction of oil, largely used in villages. Also called a <i>ghani</i> or <i>kolhu</i> .
<i>Chettians</i>	..	..	A community of Hindus in South India engaged in business, generally banking.
<i>Chhota</i>	..	..	Small.
<i>Chidwa</i>	..	..	An edible preparation made by mixing parboiled or beaten rice with roasted gram, groundnut kernels and dry fruits.
<i>Cholam</i>	..	..	A millet <i>Sorghum vulgare</i> .
<i>Chutney</i>	..	..	A kind of sauce.
<i>Cumba</i>	..	..	A millet also called <i>barra</i> .

## D

<i>Dalat</i>	..	..	..	A broker ( <i>dalali</i> is brokerage).
<i>Dana</i>	..	..	..	Grain.
<i>Daroga</i>	..	..	..	A market supervisor.
<i>Darshani hundi</i>	..	..	..	A sight draft.
<i>Deorhi</i>	..	..	..	One and a half times; system of loan in which one and half times the quantities (of seed) borrowed are refunded.
<i>Dhari</i>	..	..	..	A five seer weight, also called <i>panseri</i> .
<i>Dharmada</i>	..	..	..	A deduction for charity.
<i>Dokada</i>	..	..	..	Half anna (term used in Bombay grains and oilseeds trade).

## G

<i>Ghani</i>	..	..	..	See <i>chekku</i> .
<i>Ghughru</i>	..	..	..	Literally round small balls. The term is applied to peanuts in some areas.
<i>Gona</i>	..	..	..	See <i>bhovar</i> .
<i>Gorakshan</i>	..	..	..	Cow protection.
<i>Gowshala</i>	..	..	..	An institution providing shelter for old, decrepit and invalid cows.
<i>Gulabi</i>	..	..	..	Rose colour.
<i>Gunj</i>	..	..	..	A grain market.
<i>Gur</i>	..	..	..	Unrefined sugar.

## H

<i>Hakwai</i>	..	..	..	A confectioner.
<i>Hamal</i>	..	..	..	A (market) labourer (see <i>palledar</i> ).
<i>Hamalge</i> <i>Hamwali</i> }	..	..	..	Wages charged by <i>hamal</i> .
<i>Hundebar</i>	..	..	..	A clearing or forwarding agent (also called station <i>dala</i> and <i>marfatia</i> ).
<i>Hsi-zon</i>	..	..	..	Burmese name for <i>chekku</i> .
<i>Hat</i>	..	..	..	A periodical market (see <i>shandy</i> and <i>painth</i> ).
<i>Hundi</i>	..	..	..	A bill of exchange or draft (see <i>darshani hundi</i> and <i>muddati hundi</i> ).

## I

<i>Inam</i>	..	..	..	Literally reward. An inam village is a village exempt from payment of land revenue.
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## J

<i>Jagir</i>	..	..	..	Jagir areas are areas in feudatory territory.
<i>Jawar</i>	..	..	..	Vernacular name for Coromandel kernels in Hyderabad.
<i>Jowar</i>	..	..	..	A millet (see <i>cholam</i> ).

## K

<i>Kahar</i> .. ..	.. ..	A menial servant for cleaning utensils.
<i>Kachcha</i> .. ..	.. ..	Literally "raw" and "unfinished". The word has a wide range of meanings, e.g., a <i>kachcha</i> road is an unmetalled road. <i>Kachcha arhatya</i> is a trader of small means dealing in agricultural produce before it is bagged or made ready for final sale.
<i>Kalam</i> .. ..	.. ..	A unit of sale.
<i>Kardi</i> .. ..	.. ..	Safflower seed.
<i>Khalsa</i> .. ..	.. ..	Khalsa areas are areas in State territory.
<i>Khandi (Khandy, Candy)</i> .. ..	.. ..	A unit of sale, standing for varying weights in different areas.
<i>Kharif</i> .. ..	.. ..	Autumn crop.
<i>Kirana</i> .. ..	.. ..	Spices.
<i>Kolhu</i> .. ..	.. ..	See <i>chekku</i> .
<i>Kudum</i> .. ..	.. ..	A liquid measure which may vary from 2 to 10 Madras measures.

## L

<i>Lal</i> .. ..	.. ..	Red.
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## M

<i>Mamools</i> .. ..	.. ..	Customary charges.
<i>Mandi</i> .. ..	.. ..	A market.
<i>Mansi</i> .. ..	.. ..	A unit of sale.
<i>Map</i> .. ..	.. ..	Bombay dry measure equal to 2 maunds.
<i>Marfatia</i> .. ..	.. ..	See <i>hundekari</i> .
<i>Markal</i> .. ..	.. ..	A measure equivalent to 4 Madras measures.
<i>Masur</i> .. ..	.. ..	A lentil.
<i>Mota</i> .. ..	.. ..	Fat.
<i>Mowha</i> .. ..	.. ..	An oilseed.
<i>Muccadam</i> .. ..	.. ..	Labour contractors and middlemen who look after handling, trading and clearing, etc., of goods.
<i>Muccadamage</i> .. ..	.. ..	Muccadam's charge.
<i>Muddati hundi</i> .. ..	.. ..	A bill of exchange drawn for a definite period.
<i>Munim</i> .. ..	.. ..	A clerk.

## N

<i>Najrana</i> .. ..	.. ..	Premium paid for an "option".
<i>Note batta</i> .. ..	.. ..	Discount for payment in silver in lieu of currency notes.
<i>Nozibu</i> .. ..	.. ..	A 14 oz. size condensed milk tin equal to 1/8th of a <i>pye</i> measure in Burma. (See <i>pye</i> ).

## O

<i>Olock</i> .. ..	.. ..	1/8th of a Madras measure.
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## P

<i>Painth</i> .. ..	.. ..	A periodical market (see <i>hat</i> or <i>shandy</i> ).
<i>Palla</i> .. ..	.. ..	A unit of sale common in Hyderabad.



<i>Palledar</i> .. ..	..	..	A (market) labourer.
<i>Palledari</i> .. ..	..	..	Wages charged by <i>palledar</i> .
<i>Palli</i> .. ..	..	..	See <i>bhovar</i> .
<i>Panseri</i> .. ..	..	..	A weight equivalent to 5 seers.
<i>Patnam</i> .. ..	..	..	Madras measure holding 82½ oz. of water. Also called <i>pucca padi</i> .
<i>Peyali</i> .. ..	..	..	Bombay dry measure equal to 4 seers.
<i>Pidda guntaka</i> .. ..	..	..	A type of big harrow.
<i>Pikhta</i> .. ..	..	..	A unit of weight in Burma (also known as viss).
<i>Pittai</i> .. ..	..	..	Space for parking carts.
<i>Poorbi</i> .. ..	..	..	Literally eastern. The term is applied to the indigenous variety of groundnuts grown in parts of the United Provinces.
<i>Pons</i> .. ..	..	..	The ninth month of Hindu calendar (November-December).
<i>Pucca</i> .. ..	..	..	Literally true or mature or real. A <i>pucca arhatya</i> is a commission agent and wholesaler.
<i>Padi</i> .. ..	..	..	A liquid measure.
<i>Purnima</i> .. ..	..	..	Full moon day.
<i>Putti</i> .. ..	..	..	A unit of sale indicating a varying number of Madras measures.
<i>Pye</i> .. ..	..	..	1/16th of a standard basket in Burma.

## R

<i>Rabi</i> .. ..	..	..	Spring crop.
<i>Ryotwari (Raiyatwari)</i> .. ..	..	..	System of land tenure in which the revenue is assessed by the State on the occupants of small holdings.

## S

<i>Sadhu</i> .. ..	..	..	A religious mendicant.
<i>Sahukar</i> .. ..	..	..	A money-lender.
<i>Satta</i> .. ..	..	..	A unit of sale common in Mysore.
<i>Sawai</i> .. ..	..	..	One and a quarter times; system of loans in which one and a quarter times (of seed) borrowed has to be refunded.
<i>Shandy</i> .. ..	..	..	A periodical market (see <i>hat</i> and <i>paithi</i> ).
<i>Shravan</i> .. ..	..	..	The fifth month of Hindu calendar (July-August).
<i>Shroffs</i> .. ..	..	..	Indigenous bankers.
<i>Soap</i> .. ..	..	..	A shallow tray made of iron, bamboo or wicker-work.

## T

<i>Tale quale</i> .. ..	..	..	A system of purchase in which the buyer gives his offer on seeing the goods.
<i>Taluk</i> .. ..	..	..	A sub-division in a district.
<i>Tanki</i> .. ..	..	..	A unit of sale for oil in the Central Provinces.
<i>Teji mandi</i> .. ..	..	..	Literally, <i>teji</i> =dearness, <i>bull</i> option; and <i>mandi</i> =cheapness, <i>bear</i> option; <i>teji mandi</i> =a double option, i.e., to buy or sell.



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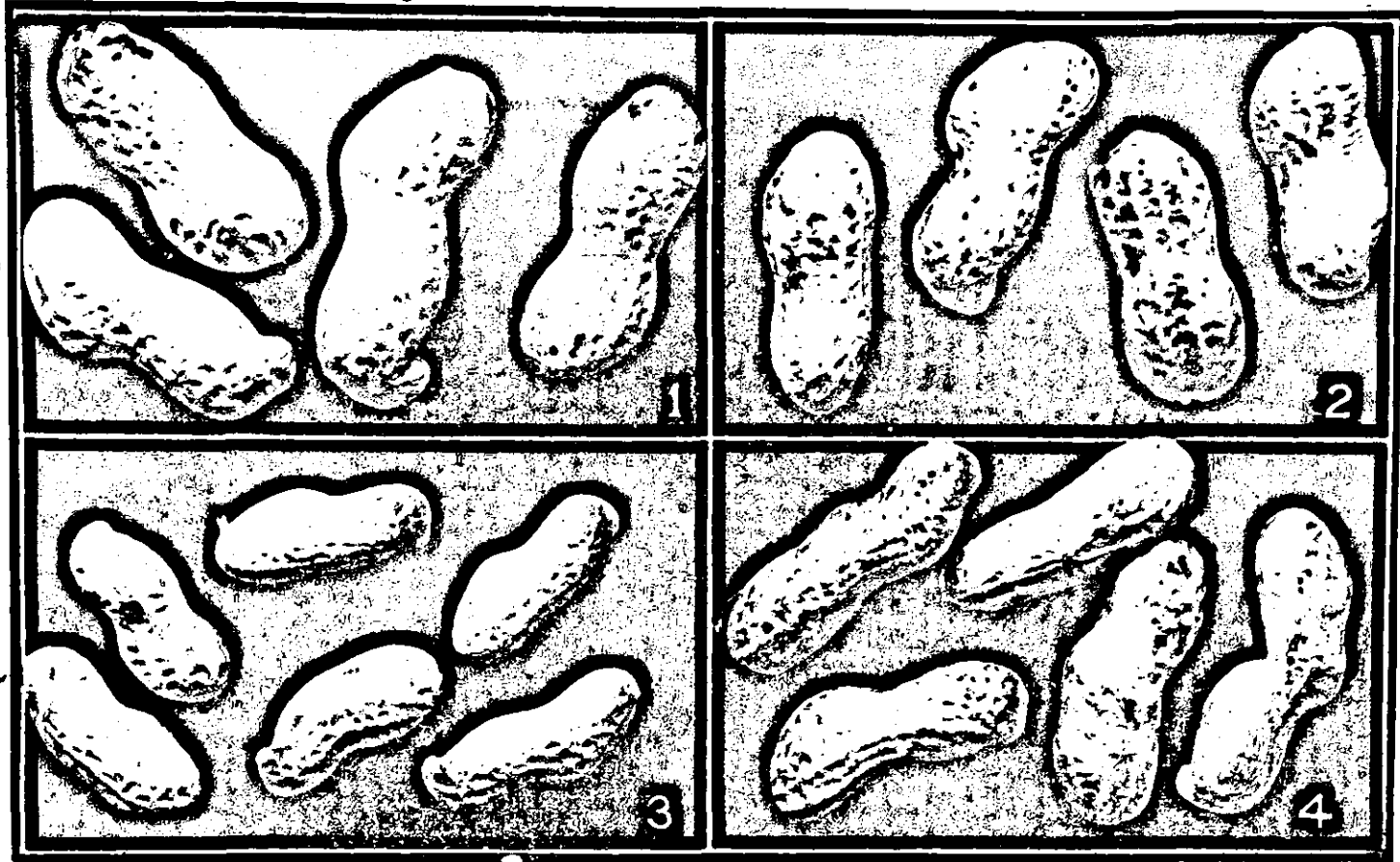


GROUNDNUT PLANT (TRAILING OR SPREADING TYPE).

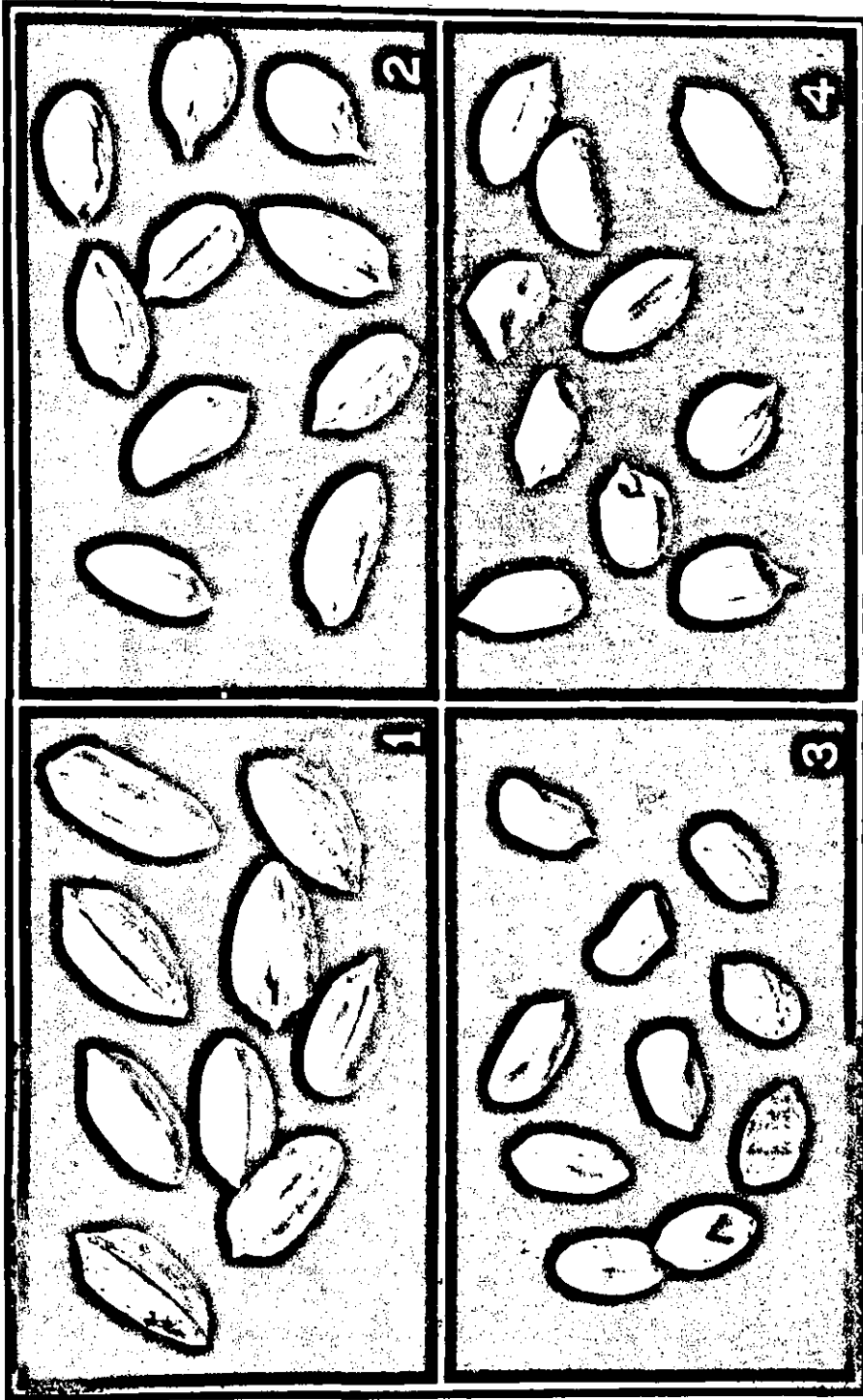
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GROUNDNUT PLANT (ERECT OR BUNCH TYPE).



COMMERCIAL VARIETIES OF GROUNDNUTS IN SHELL.  
1. Kathiawar Bold. 2. Bold. 3. Coromandel. 4. Karad.



COMMERCIAL VARIETIES OF GROUNDNUT KERNELS.  
1. Kathiwar Bold. 2. Bold. 3. Coromandel. 4. Karad.