# JOIN BOTHS ON SOIT 1794

1794-1954

160 YEARS

Cable address
BARTHSOHN NUERNBERG

Telephone: No. 50851/54

Telex: No. 06/2280

Hop farm Barthhof-Hallertau

Warehouse Nuernberg Glockenhofstraße 24/26 Nürnberg, July 27th, 1954 P. O. B. 331

# Hop Report 1953/54

Price levels for most important consumer goods on the world's markets were generally maintained. As far as there was no excessive production, downward trends remained within limits although trading was somewhat slower.

Economical Situation

The German balance of exchange continued its satisfactory development. About 80% of the currency in circulation are covered by gold or foreign exchange at the disposal of the Bank deutscher Länder. Efforts continue to realize the free convertibility of the D-Mark.

The lack of working capital is still much in evidence. A tax reform is under discussion, which should allow the accumulation of crisis resistant means within the German economy.

An Increased Production of beer during 1953 as compared with 1952 is shown in the following countries: Australia 3%, Bolivia 2%, Canada 4.7%, Chile 1%, Germany 11%, Finland 1.7%, Japan 10%, Luxembourg 3.4%, New Zealand 20.5%, Netherlands 13.7%, Norway 2.5%, Austria 11.2%, Saar 14.2%, Sweden 3.4%, Fhailand 20%, USA. 1.8%, Ireland 1.6%, Denmark 1%.

Production of Beer

A Lower Production in 1953 as against 1952 is to be noted in: Belgium 3.8%, France 1.3%, Italy 9.2%, Yugoslavia 38.4%, Union of South Africa 6%, South West Africa 4.8%, Turkey 7.5%, Uganda 6%.

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1 ha = 2.934 bayr. Tagwerk, 1 bayr. Tagwerk = 0.341 ha
1 ha = 2.471 acres 1 acre = 0.405 ha

1 Liter = 0.2642 gall. (USA.) 1 gall. (USA.) = 3.7835 Liter
1 hl = 100 Liter = 26.42 gall. = 0.8523 bbl. (USA.) 1 bbl. (USA.) = 31 gall. = 1.1734 hl
1 bl = 100 Liter = 26.42 gall. = 0.8523 bbl. (USA.) 1 bbl. (USA.) = 31 gall. = 1.1734 hl
1 bl = 100 Liter = 22.01 gall. = 0.6114 bbl. (Brit.) 1 bbl. (Brit.) = 36 gall. = 1.6356 hl

1 kg = 2.20462 lbs. 1 lb. = 0.45359 kg
1 shortton (sht) = 2000 lbs. = 907.185 kg
1 longton (lgt) = 2240 lbs. = 1016.048 kg

1 metr. Tonne = 20 Ztr. = 1000 kg = 1.10231 shorttons = 0.98419 longtons
1 Ztr. = 50 kg = 110.23 lbs. = 0.984 cwt. (Brit.) 1 cwt. (Brit.) = 112 lbs. = 50.8 kg = 1.016 Ztr.
1 quarter (qr) = 400 lbs. = 181.44 kg (barley) = 1 Ztr. = 0.27555 qr.
1 bushel (bu) = 48 lbs. = 21.77 kg (barley, mait) 1 Ztr. = 2.2965 bu.
DM 1. = US $ -.23809 / DM 4.20 = US $ 1. - / US $ 2.80 = DM 11.76 = £ 1. - . -
1 mm precipitations = 1 Ltr. of water per m², 1 mm = 0.04 ", 1 " = 25 mm.
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#### Production of beer 1953 1000 ыы. 1000 ьы. of 31 gall. of 31 gall. Country Country each each USA. . 92,115 Indochina 384 England Luxembourg 34,825 309 Germany West 25,308 Ecuador . . 273 4,687 \*) 29,995 Singapore\*). East 260 USSR\*) T 11,505 256 Algiers\*) Morocco<sup>\*</sup>) Belgium . 10,551 256 Bolivia . Czechoslovakia\*) 8,522 251 8,309 190 Canada . . . Egypt\*) Australia . 7,156 Indonesia\*) 187 Turkey . France . 7,108 179 Greece\*) Brazil\*) 6,392 154 French West Africa\*) Kenya\*) Portugal \*) 136 4,897 Mexico 3,590 118 Austria Columbia\*)... 3,238 114 2,983 Tunis\*) Argentine <sup>'</sup> 77 Poland\*) . 2.983 Dominican Republic\*) 60 Denmark . 2,920 Nigeria 55 Paraguay\*) . 51 lapan . . . 2.812 Gold Coast\*) 38 2,616 Ireland Moçambique\*). 38 Sweden . 2,424 Costa Rica . . 37 Switzerland . 2,013 37 Netherlands . Iran 1,561 Hong Kong \*) . Cameroons \*) . 35 New Zealand 1,525 34 Italy 1,282 South West Africa Venezuela\*). 1,108 34 Ivory Coast\*) Spain\*) . . 26 1.087 French Equatorial Africa 26 1,023 Cuba . Libanon . . . . 929 23 Finland . Ceylon 22 920 Chile . South African Union . Thailand . . 20 872 20 Peru\*) . . . . 852 Tanganyika . India . . . 14 Saar 637 Belgian Congo\*) . Martinique\*) 13 618 Uganda . 571 Norway . . . 13 490 Iceland 13 Uruguay . . Yugoslavia . . 484 Pakistan . . 9 Madagaskar . . Philippines . . 426

The above figures include 372,426 bbls. delivered taxfree to the occupation forces (1952 = 373,329 bbls.) and exports including sales against foreign currency within Germany totalling 450,640 bbls. (1952 = 357,622 bbls.)

#### **Crop 1952 (Supplement)**

Final statistical data show the following total figures of imports and exports of the hops crop 1952 for various countries during the time of September 1st, 1952, to August 31st, 1953:

								Import	Export
Germany								. 2,282,643 lbs.	9,536,879 lbs.
								. 3,126,123 "	1,122,141 "
England									8,173,444 " 14,265,085 "
USA	•	•	•	•	•	•	•	. 3,539,344 "	14,203,003 "

<sup>\*) =</sup> estimate

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The season 1952/53 ended quietly in practically all hop producing countries. The Hop Market in Germany, however, was an exception. Hallertau hops crop 1952 were quoted at DM 800.— at the beginning of 1953. This price receded until DM 450.— at the beginning of June 1953. Insistant offers for unsold stocks exerted a continual pressure on prices which fell until DM 300.— in August 1953.

Practically all stocks were in second hands. Losses were sustained by trading circles and by the *Deutsche Hopfenverkehrsgesellschaft (DHVG.)*. It has been possible to dispose of all stocks of crop 1952 before the new season, but the downward trend was a bad start for the market of crop 1953.

### **Crop 1953**

Sufficient precipitations during the winter 1952/53 increased the ground moisture. The thaw set in during the second half of February and dry and sunshiny weather in March benefitted spring work. During the Uncovering and Cutting of the hops there appeared sometimes excrescences on the root stock resulting from last year's application of insecticides without, however, impairing the growth of the plants. Ample precipitations in April together with warm weather resulted in strong and healthy growth of the plants. Cold weather during the first half of May hampered the development of the hops. This was offset by warmer weather and sufficient rain during the second half of May as well as in June and July. The often sultry weather resulted in a luxuriant growth of the hops. Bloom was irregular whereas warm and dry weather in August with occasional rains benefitted the Sizing of the cones as well as the formation of lupulin and the Ripening of the hops.

Growth of the Hop Crop 1953 in Germany

Pests and diseases appeared only sporadically. Sprayings were conscientiously applied against Downy Mildew as well as Red Spider and Aphids, although this work was sometimes hampered by waterlogged gardens.

Picking began normally and was favoured by weather conditions. The abundant precipitations in 1953 made available to the plants not only fertilizer remaining in the ground from the year before but the ample and careful fertilization during 1953 as well. A secondary growth of Burrs, which mostly came to maturity, further augmented the quantities harvested.

The unequal sizing of the cones was the consequence of the irregular blooming of the hops.

Weather o	lata from	the Expe	rimental	Hop Farr	n Hüll/Ha	llertau	
1953	March	April	May	June	July	August	Sept.
Precipitations per month (mm)	4	70	90	92	149	88	21
Monthly average of air temperature ©Celsius	3.4	8.8	12.6	15.3	17.7	15.1	13.1
Maxima of air temperature <sup>o</sup> Celsius	21.6	24.0	29.4	27.0	31.5	28.5	29.6
Minima of air temperature <sup>o</sup> Celsius	6.1	4.0	2.5	0.7	5.6	3.6	1.1
Monthly average of 3 relative air humidity %	70	72	72	78 .	78	78	77
Other data:						-	
Snowfall Hoarfrost Thunderstorm Storm Hail	3 days 20 " — —	9 days 2 "	2 days 5 " 2 " 1 day	2 days 2 .,, 1 day	8 days	——————————————————————————————————————	1 day

In the **Hallertau**, spring work started around March 20th and was finished by the middle of April. The hops showed strong and healthy shoots. The cold spell during the first half of May which resulted in **Snowfall** and **Nightfrost** on May 10th, retarded growth. A very heavy infestation of **Maybugs** in 1953 necessitated extensive measures of control.

## Acreage, Yield and Production 1952 and 1953

	Acreage	Yield	Production	Acreage	Yield	Production
•	1952 Acres	Pounds	1952 Pounds	1953 Acres	Pounds	1953
	1	<del></del>			<u> </u>	Pounds
Hallertau	1	1,279	15,983,350	13,919	1,986	27,645,023
Spalt	2,093	1,106	2,314,830	2,256	1,745	3,936,644
Hersbruck	1,530	1,081	1,653,450	1,846	1,523	2,810,975
Jura	227	806	182,982	356	1,268	451,392
Bavaria	16,346	1,232	20,134,612	18,377	1,896	34,844,034
Tettnang	1,557	1,395	2,171,531	1,786	1,623	2,899,159
R.H.W	558	899	501,547	675	952	642,420
Baden	49	1,471	72,090	96	1,470	141,094
	99	707				
Rheinpfalz		_1	69,996	74	1,758	130,071
Germany	18,609	1,233	22,949,776	21,008	1,840	38,656,778**
Saaz (Zatec)	•					
Auscha (Ustek)			·			
Other Districts	,					
Czechoslovakia	20,509	398	8,157,020	22,239	520	11,574,150
Alsace		1,249	3,086,440	2,545	1,862	4,739,890
Dep. Côte d'or		383	165,345	581	379	220,460
Northern France		1,685	936,955	432	2,041	881,840
Lorraine	7.4	596 .	44,092	74	745	55,115
France		1,198	4,232,832	3,632	1,624	5,897,305
Alost	531	1,785	947,978	581	1,694	984,354
Poperinghe		1,337	1,504,640	1,248	1,650	2,059,647
Vodelée	. 17	1,167	19,841	17	1,426	24,251
Belgium		1,478	2,472,459	1,846	1,662	3,068,252
	1 0 570	679	2,563,950	3,958	934	
		1	1 1			3,696,673
Backa	445	149	66,138	445	1,179	524,695
Jugoslavia		623	2,630,088	4,403	959	4,221,368
Austria	. 22	521	12,125	40	882	35,274*
Spain	707	405	286,598	741	495	366,515
Sweden		1	<u> </u>	22	927	20,393
Switzerland		1,028	15,432	20	1,460	
	1.60	· · · · · · · · · · · · · · · · · · ·				29,211
Poland	-:	669	992,070°)	1,483	803	1,190,484
USSR	6,178	892	5,511, <u>5</u> 00*)	6,178	892	5,511,500*
Continent	56,954	830	47,259,900	61,612	1,145	70,571,230
Kent	10 (70	1,429	17,833,561	12,236	1,464	17,920,422
Hants	667	1,433	955,694	671	1,336	896,280
Surrey	121	1,309	158,400	121	1,232	149,031
<u></u>	2,095	,		*		
Sussex		1,148	2,405,439	2,143	1,338	2,868,074
Hereford		1,502	7,081,947	4,608	1,285	5,921,115
Worcester	_	1,431	3,070,126	2,101	1,281	2,691,486
Other Counties	. 54	2,151	116,182	52	1,581	82,231
England	22,276	1,420	31,621,349	21,932	1,392	30,528,639
Europe	79,230	996	78,881,249	83,544	1,210	101,099,869
Washington		1,734	25,852,021	13,509	1,634	22,072,000
			16,767,967		-	
Oregon		1,309		7,095	968	6,868,000
California	9,007	1,674	15,075,055	6,272	1,532	9,608,000
Idaho	1,601	2,229	3,568,035	1,493	2,180	3,255,000
USA	38,330	1,598	61,263,078	28,369	1,473	41,803,000
Quebec	. 22			)		
Ontario	. 92	1		} 50	262	13,104
Brit. Columbia			[	934	176	1,646,400
Canada		1,502	2,500,016*)	984	1,686	1,659,504
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Tasmania	'	1,310	1,716,171	1,296	2,249	2,914,240
Victoria		1,374	342,044	275	1,996	548,800
Australia		1,320	2,058,215*	1,571	2,204	3,463,040
New Zealand	615	1,489	916,011*)	720	1,431	1,030,400
Japan		991	1,860,683	1,878	823	1,545,600
Manchuria		669			669	165,345*
<u> </u>			165,345*)		<del></del>	
Argentine		519	99,207*)		525	167,550
South-Africa	. 470	586	275,575*)	331	1,144	378,530
Total	124,185	1,192	148,019,379	117,963	1,283	151,312,838
	Histol Waishin	Man 264				

Warmer weather beginning in the middle of May with sometimes hot spells and occasional rainfalls benefitted the development of the hops. Early cut gardens in some parts had already attained half the height of the trellises and began to show laterals whereas the average height of growth was about 8 to 10 feet.

The plants were overhanging the trellises in part already in June, and late uncovered gardens had offset the delay in growth. First Burrs became noticeable in early cut gardens and were favoured by humidity and warmth.

There were considerable precipitations during the end of June/beginning of July and gardens became waterlogged in some areas. The warm, humid and sultry weather continued to accelerate the vegetative development of the plants. Burrs appeared everywhere and early uncovered gardens were not only in full Bloom at this time but already showed the first sporadic Cones. Laterals were extremely long everywhere and the growth of the plants had not yet ceased in spite of the start of the bloom. Burrs developed generally in July under high temperatures and plentiful rainfalls. The irregular weather changed to drier and warmer by the beginning of August which was favourable for the sizing of the cones. Cones and bloom appeared sometimes side by side on the vines as weather conditions continued to favour new sets of burrs. Late uncovered gardens generally showed the best development.

Picking started sporadically on August 21st, became general on August 24th and was favoured by good weather. The quality of the Hallertau hops crop 1953 was distinguished by a very fine and brilliant colour whereas the size of the cones was somewhat irregular. Light lupulin was amply present and the aroma was mild and fine. Clean picking was to be noted in general.

Plants had wintered well in the <u>District of Spalt</u> but there was some Root Rot. The Uncovering and Cutting was finished by the end of April. The plants had a good start and there were only sporadically slight damages by Fleas. The cold spell in the beginning of May retarded growth which, however, was offset by warm weather in the second half of this month. Early uncovered gardens showed already a height of 7 to 10 feet.

There were plentiful rains in June, sometimes thunderstorms and even cloud-bursts. The growth of the hops in Spalt was especially favoured by the abundant humidity. The plants had reached the height of the trellises generally by the end of June and were sometimes overhanging already at this time. Long laterals were plentiful and the general aspect of the crop was healthy. Sufficient humidity and sunshine in July were favourable for the development of Bloom and sultry weather in August benefitted the sizing of the cones.

Picking began generally on August 24th. Hot summer weather and dryness favoured the Ripening of the hops. The crop came well under cover although Pickers were sometimes scarce.

Spalt hops crop 1953 were rather uniform in size. The colour on the average was not so uniformly green as the year before but the hops showed a good content of lupulin and a fine aroma. Cleanliness of picking was not always quite satisfactory as a consequence of the abundant harvest and lack of labour.

Tettnang. The month of March was drier than normal so that spring work was quickly finished. Relieving rains in April as well as rain and warm weather in the beginning of May benefitted the plants. Control of Grubworms necessitated much work in some parts. Nightfrosts during the first half of May did no much damage, whereas hot weather during the second half of that month resulted in a luxuriant growth. The plants had reached half the height of the trellises by this time. Heavy thunderstorms resulted in considerable rainfall which turned to Hail in local areas without any great damage.

The plants had reached three quarters of their height by the beginning of June. There was abnormal rainfall in June and not enough sunshine for the development of the hops. Downy Mildew was more in evidence than the year before and had to be controlled. The plants reached the height of the trellises and were sometimes overhanging by the second half of June and there was an abundant growth of Laterals. Exceptionally early Burrs were sometimes noticeable.

Abundant rainfalls continued during July so that gardens on heavy soils began to suffer whereas yards on lighter soils showed better aspects. The hops were overhanging the trellises generally by the middle of July and were in full Bloom at this time. The much hoped for dry and sunshiny weather appeared only during the second half of July and favoured the Sizing of the Cones which was generally finished by the first half of August. At this time, however, there were many plants which showed bloom only. Picking began on August 24th.

The cones of the Tettnang hops were especially irregular in size and considerably greater than in 1952. The colour was sometimes not uniformly green but the aroma was mild. Cleanliness of picking was not always up to expectations.

Rottenburg, Herrenberg, Weilderstadt. The winter 1952/53 brought abundant snowfalls which continued until March. The weather then became dry and favoured spring work which began during the last decade of March. Some rainfalls under mostly dry and sunshiny weather in the beginning of May favoured the plants which showed a good and healthy aspect. Cooler weather by the middle of May resulted in local Snowfalls on higher locations. Warm weather and rainfalls during the second half of May benefitted growth. Thunderstorms with local Hail did some damage.

At this time the plants were sometimes already ten feet high. The weather became colder during the end of May/beginning of June. There were, however, sufficient rainfalls and the plants continued their good development after warmer weather began to set in again. June was warm and very rainy. The plants showed a luxuriant growth. Many gardens had already reached the height of the trellises and a very good development of laterals was noticeable. Early gardens were in full Bloom by the end of July while late varieties were in Burrs. The set of cones appeared on early varieties during the first half of August while late hops were in full bloom at that time. The dry and warm weather in August favoured the Sizing of the Cones. The harvest began on September 1st, was in full swing by September 5th and was finished by the middle of that month.

The hops were rather uniform in growth, almost throughout of green colour, of fine aroma and clean picking.

Hersbrucker Gebirge. Spring work began by the middle of March and was favoured by warm and dry weather. By the beginning of May it became evident that early uncovered gardens had considerably gained in growth. This development was retarded under cold weather in the first half of May. There were local Snowfalls but no Frost Damages. The weather turned very warm in the second half of May and the plants recuperated. Many gardens already had reached half of the height of the trellises at this time, in spite of limited rainfalls. Red Spider became dangerous at times and had to be controlled.

Cooler weather by the end of May/beginning of June was followed by a warm spell. The general aspect of the crop was not uniform; early uncovered gardens showed the best development.

Much rain fell in June but the weather was mostly warm so that the plants reached the height of the trellises and showed a remarkable growth of laterals. The first Burrs were noticeable in early gardens. High temperatures and humidity in July further favoured development and notably the growth of laterals. Burrs were general on early varieties. The set of cones in early gardens appeared by the end of July whereas late varieties at this time were in Bloom. The sultry weather continued through August. Cones appeared side by side with burrs especially on early varieties whereas late varieties showed a more uniform development. Picking began sporadically on August 19th but was general only by the beginning of September.

The quality of Hersbruck hops crop 1953 was good and cones were rather uniform in size. The colour was not as green as the year before. Lupulin was amply present. Hops were better dried than the year before but the cleanliness of picking was sometimes not up to expectations.

Crop estimate 1953

The annual official survey of the new crop resulted in an estimate of from 29,000,000 lbs./ 31,200,000 lbs. for 1953. Official figures, however, showed a final result of 38,656,778 lbs. By this even the upper limit of the estimate has been surpassed by about 24%. This result was scarcely anticipated in spite of the record growth of crop 1953.

Bitter values of crop 1953

Origin	Total resin content anhydric	Soft Resins	· %	Humu- lon	%	Lupulon Fractio of sof resin	ns %	i Hard resins	%	Bitter value Wöllmer
Hallertau	17.67	14.92	84.44	5.96	33.73	8.96	50.71	2.75	15.56	7.0
Au/Hallertau	17.63	14.05	79.70	6.22	35.29	7.83	44.41	3.58	20.30	7.1
Wolnzach/Hallertau	18.94	13.78	72.76	6.33	33.42	7.45	39.34	5.16	27.24	7.2
Mainburg/Hallertau	17.31	13.83	79.90	5.77	33.33	8.06	46.57	3.48	20.10	6.7
Spalt	16.84	13.94	82.78	5.40	32.07	8.54	50.71	2.90	17.22	6.4
Tettnang	17.17	14.79	86.14		33.84	8.98	52.30	-2.38	13.86	6.8
Württemberg	15.77	13.27	84.15	5.94	37.67	7.33	46.48	2.50	15.85	6.8
Gebirg	18.28	15.03	82.22	7.08	38.73	7.95	43.49	3.25	17.78	8.0
Jura	18.22	14.84	81.45		29.03	9.55	52.42	<b>-3.38</b>	18.55	6.4
Alsace	17.36	15.43	88.88	8.77	50.52	6.66	38.36	1.93	11.12	9.5
Saaz	14.41	12.31	85.43	4.38	30,40	7.93	55.03	2.10	14.57	5.3
Jugoslavia	17.23	15.34	88.10	7.73	43.15	7.64	45.91	1.86	10.94	8.5
English Fuggles	17:92	16.31	91.02	.2.69		13.62	76.01	1.61	8.98	4.2
US Seedless Yakima		14.02	82.86	5.86	34.63	8.16	48.23	-2.90	17.14	6.8
US Fuggles	16.60	12.93	77.89	5.03	30.30	7.90	47.59	3.67	22.11	5.9

Hop purchases crop 1953

Quotations for hops of the old crop 1952 continued to decrease constantly since the beginning of 1953, while all indications pointed more and more to a big new crop 1953. This situation did leave a considerable impression upon all circles concerned. A buyer's market was generally expected and anticipation of prices centered mostly on a basis of DM 300.—/400.— per 50 kilos. There was considerable activity at this price level during the beginning of the new season, as important demand from the home market was coupled with considerable interest for exports. About 27,500,000 lbs. had changed hands until the end of October 1953.

Quotations in the districts of Spalt and Tettnang were maintained on a level still remunerative to farmers, certain oscillations notwithstanding. Prices, however, in other districts of production, most especially in the Hallertau, showed a constant downward trend. Less active demand by the middle of October resulted in a decline of prices. This general trend continued until February 1954 with only a small interruption during the second half of November 1953. Prices tumbled to a level which constituted a new market feature since the finish of the war. Important quantities were sold on this basis, which was considerably under cost of production. Substantial purchases for shipment to the Deutsche Demokratische Republik (D. D. R.) during the first half of March 1954 coupled with a somewhat more favourable development of prices resulted in a widespread liquidation of stocks both in the Hallertau and the Hersbrucker Gebirge.

	A	ug		g	ер	te	n	вe	ì	1	_		04	eti	90	e		_	_	-	H	O.	щ	w	ılı	e	2	I	_	q	)e	26	m	le	r	1	_	_	2	aı	nu	La	ħ		_	_	_	Ŧ,	el	rı	la	r	_		_		9	Kċ	ir	2	_	_
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Development of quotations crop 1953

HALLERTAU ---- SPALT ---- TETTNANG .....

Tettnang. Purchases began actively on a basis of DM 380.—/400.— whereas by the beginning of September breweries paid up to DM 420.— so that trading circles had to observe a certain reserve. The market seemed to stabilize itself during the second half of September on the basis of DM 320.—/340.— under active purchasing, until new considerable demand made quotations rise to DM 400.— again. This top level was maintained for a short time only and it became possible to sell out this district under somewhat weakening quotations until the middle of October. Last remaining lots changed hands until the middle of November.

Spalt. In the beginning of the season, purchasing was difficult as farmers asked about DM 400.—. Trade was slow for this reason and only small quantities were sold during the first half of September under slowly falling quotations on the basis of DM 340.—/360.—. Farmers were somewhat more ready to sell by the middle of September on the basis of DM 320.—/340.— so that trading rapidly became active. Parallel to the situation in the district of Tettnang, the market experienced an increase at the close of the month and prices reached DM 350.— which

quotation remained valid during October. More than 90% of the crop had been sold and officially weighed until October 19th.

There was no regular market activity in Spalt as well as in Tettnang for lack of hops by the middle of October. In Spalt, trading became slow at this time as last remaining lots changed into second hands on a basis of DM 300.—/320.—.

Hallertau. Trading activities opened sluggishly by the end of August at prices about DM 300.—. This level remained practically unchanged until the middle of September after a light initial upward movement. After this date quotations maintained their downward trend in spite of active trading and reached DM 260.—/280.— by the end of September 1953, DM 240.—/260.— in mid-October and fell until DM 200.—/220.— at the end of October. After an almost complete standstill of trading until the middle of November, when prices reached the lowest level of DM 120.—/140.—, quotations firmed and reached DM 190.— by the end of the month under more active demand. After that prices decreased again gradually in December 1953 as well as during January/February 1954. Demand increased on this level so that the district was sold out with the exception of small lots until the end of March 1954.

Hersbrucker Gebirge. First lots changed hands in the beginning of September on a basis of DM 270.—/280.— but trade was very slow as the harvest was drawn out until the middle of September. At that time farmers consigned most lots to commission houses as they did not want to sell in the expectation of higher prices. Trade became active only about the end of September when prices were already down to DM 220.—/240.—. Reflecting lower quotations in the Hallertau, prices had to recede during October and reached DM 160.—/170.— by the end of that month. Considerable stocks in hands of commission houses influenced quotations further as demand became constantly less active and prices reached a level of DM 110.—/130.— by the end of November. Occasional increases in demand have only resulted in insignificant changes of this basis.

Wurttemberg. The distance in location between this small district of production and the big Bavarian centers of hop growing made itself adversely felt. Producers in Wurttemberg maintained too strongly their ideas of prices in spite of insignificant demand, so that there was practically no trading until the end of September. Slow activity became noticeable only by the middle of October on a price level of DM 210.—/230.—. Demand remained slack and prospective purchasers were inclined to cover their needs in the Hallertau at attractive quotations. Prices were forced down and as farmers had practically no possibility of storage, part of existing stocks were taken over by a newly established cooperative. It has been possible to dispose of practically all stocks until March 1954 when last lots were sold at DM 130.—/140.—. There are only insignificant remaining quantities.

#### Nürnberg Market

Trading activities on the Nürnberg market were somewhat limited in 1953. Daily decreasing quotations restrained local dealers as purchasing from farmers was generally more attractive. This refers especially to Hallertau hops whereas the situation was somewhat different for Hersbruck, Spalt and Wurttemberg hops. According to quality the following prices remained relatively stable since the end of March 1954: Hallertau DM 170.—/210.—, Tettnang DM 260.—/300.—, Hersbruck DM 130.—/145.—, Wurttemberg DM 130.—/145.—.

#### Market Survey

It will be understandable that the movement of crop 1953, which was about 70% bigger than crop 1952, has not been possible without difficulties. About two thirds of the crop could be disposed of at prices which were still acceptable to farmers. More than 100,000 cwts., however, had to be sold under cost of production. This situation had last been experienced in 1931. The German hop industry has turned from a seller's market to a buyer's market during the season 1953/54.

The excess of crop 1953 had to find channels into export as the home breweries were not in a position to take over these quantities. Exports increased about 70% and it has thus been possible to move the bulk of the German hop crop 1953.

It may be estimated that most home breweries are amply covered for their necessities so that a strong demand from German breweries may scarcely be expected even if the coming crop 1954 should be less ample. If moderate prices should continue to prevail it may be quite possible to dispose of considerable hop quantities in the future as well as during the last season.

This possibility and the expectation that record hop crops as in 1953 are not going to repeat themselves may have induced German hop farmers to limit reductions in acreage.

The disappointing development of prices for crop 1953 increased activities for a marketing agreement by farmers. The Union of European Hop Farmers as top organisation of all hop farmers' unions in Western Europe went as far as demanding a coordination of the whole European hop production and the creation of national marketing agreements. It seems scarcely possible, however, that either one or the other of these measures will be realised under present economical conditions.

Marketing Agreement

On September 8th, 1953, the D. H. V. G. (Deutsche Hopfenverkehrs-Gesellschaft) requested receivership to avoid bankruptcy. The Court of Nuremberg denied this application on October 8th and bankruptcy proceedings were opened.

D. H. V. G.

The final reason within the chain of events which resulted in the failure of the D.H.V.G. may have been the fact that this organisation purchased considerable quantities of hops at high prices in September 1952 and did not take advantage of sales' possibilities in time. The falling market until the new crop 1953 resulted in sensible losses.

The bankruptcy proceedings have not yet come to a close. The new warehouse of the D.H.V.G. which was completed in August 1952 has been sold to a department store and is no longer available for the processing of hops.

In order to avoid market pressures by offers for excess quantities of hops there have been organised socalled sales' cooperatives in various German districts of production, which are united under the name of Genossenschaftliche Hopfenverwertungszentrale m.b.H., Nürnberg. Present informations indicate that these cooperatives intend to trade with German hop dealers exclusively. A state's guarantee of DM 1,500,000.— has been requested from the Bavarian Government in order to ensure the functioning of this organisation. The future development of this movement remains to be seen.

Sales' Co-operatives

Mainburg in the Hallertau had been selected as the site for the planned new institute by the Union of Hop Farmers. Total expenses for the new construction were set at about DM 650,000.—. This amount was expected to be covered by a special levy of DM 5.— per 50 kilos on hops crop 1953 to be paid by farmers. This levy, however, has been deviated in the autumn of 1953 in favour of the new sales' cooperatives. Plans for a new institute, therefore, appear to have been shelved for the time being.

New Institute for Hop Research

According to a letter of the Ministry of Finances, dated April 14th 1954, (IVS 4216—124/53) sales of processed hops by farmers are now subject to the general rate of 4%.

Turnover Tax

According to the same letter, the rate of 1% is to be applied if dealers only re-kiln, re-sulphur, re-pack or put into drums processed hops purchased from local dealers. The rate of 4%, however, has to be paid if hops are re-cleaned, re-picked or sulphured.

After discussion with farmers' representatives, the Bundes-Ernährungsministerium discontinued export controls for hops. Export licences, therefore, are no longer required for hops according to a decree No. III B — Z 2524 — 448/53 of the Ministry of Finances, dated September 16th, 1953.

Export Licences

Only limited quantities of hops crop 1953 were imported in view of the abundant home crop. Imports from September 1st, 1953 to April 30th, 1954 were as follows:

German Hop Imports Crop 1953

Belgium												6,834	lbs.
France				•							•	41,006	"
Great Brit	ain	•									•	3,086	,,
Italy												12,787	,,
Jugoslavia	١.		•				•			٠		2,645	,,
Netherlan	ds			•.		•	•	• .	. •			27,337	ņ
Czechoslo	vak	ia										166,447	,,
USA	•	•	•		•	•						27,558	"
Total .			•						•		٠.	287,700	lbs.

Exp			n Hops Crop 193 — April 1954	953	
Belgium Denmark Finland France Greece Great Britain Iceland Italy Canary Islands Luxembourg Netherlands Norway Austria Portugal Rumania Saar Sweden Switzerland Triest Hungary EUROPE Argentine Bolivia Brazil Brit. West India Canada Chile Columbia Costa Rica Ecuador Guatemala Mexico Peru Uruguay USA.	Sep 924,168 838,850 114,419 883,824 66,138 227,735 5,512 551,370 7,055 166,227 1,164,029 270,063 1,173,068 84,657 203,925 101,632 781,090 572,535 8,377 154,322 274,473 25,353 192,241 24,692 14,109 33,510 400,135 220 6,614 3,527 1,102 20,282 48,502 3,715,192	8,298,996	b. f	13,228 14,330 59,524 78,925 44,092 882 15,652 2,205 6,613 11,905 6,173 2,645 3,307 24,251 19,841 2,205 36,376 37,478 154,322 81,791 14,550 73,854 198,194 6,614 31,746 69,886 14,330 113,316	8,298,996 4,925,297 283,732 854,503 1,543
c. f	4,759,952	8,298,996	Total		14,364,071

Unit Size of Farms

A survey about the unit size of hop farms in the district of Hersbrucker Gebirge has been published by the Farmers Union as follows:

County	Hop- Acreage acres	Number of Hop Yards	Average acreage of Hop Yards acres	Average of total agri- cultural acreage per farm acres	Hop acreage per farm	Hop acreage in % of total agricultural acreage
Hersbruck Lauf Erlangen Forchheim Nürnberg-Land Pegnitz Sulzbach-Rosenberg	574.95 667.76 131.85 88.23 44.08 18.68 3.33	1294 1305 234 164 123 40 7	0.44 0.51 0.56 0.54 0.35 0.46 0.47	17.12 18.31 20.00 27,75 20.70 27.97 30.64	1.06 1.01 0.84 0.67 0.52 0.57 0.67	6.13 5.64 4.22 2.41 2.47 2.02 2.18
District HersbruckerGebirge	1,528.88	3167	0.48	18.95	0.81	4,37

This compilation shows that farms are generally small and the hop acreage is only a limited part of the farms. This is a very sound economical basis for hop production. It is especially remarkable, however, that the average size of hop gardens is under 0.6 acres which makes mechanization rather difficult.

The acreage in Bavaria has been verified according to a decree of the Bayerische Staatsministerium fuer Ernährung, Landwirtschaft und Forsten No. 6108a 40, dated March 6th, 1953. Figures for other districts are those utilized for the official crop estimate 1953. Hop acreage in Germany 1953 was as follows:

District	1939	• .	1953	
District	Acreage	Existing acreage	Additional acreage	Total
Hallertau Spalt Hersbruck Jura Tettnang*) Aischgrund Other Districts	11,317 acres 2,276 " 2,118 " 200 " - 200 ", 1)	12,516 acres 2,063 " 1,544 " 230 " 22 " 12 " 18 "	1,403 acres 193 " 302 " 126 " 5 " —	13,919 acres 2,256
Bavaria Wurttemberg-RHW. Tettnang **) Baden Rheinland-Pfalz Other Districts	16,111 acres 1,223 " 1,636 " 440 " 150 "	16,405 acres 561 " 1,522 " 79 " 70 " 15 "	2,029 acres 114 " 237 " 17 " 4 "	18,434 acres 675  ,, 1,759  ,, 96  ,, 74  ,, 15  ,,
Total	19,560 acres	18,652 acres	2,401 acres	21,053 acres

<sup>\*)</sup> areas in Bavaria

The small acreage outside of Bavaria and not within a recognized district of production is composed by 2.5 acres each in the counties of Bitburg, Landau and Speyer (Rheinland-Pfalz) as well as 2.5 acres in the district of Aachen and 5 acres in the district of Detmold (Nordrhein-Westfalen).

The reliability of figures relating to hop acreage in Germany has been questioned from many sides in consequence of the record crop 1953. In the following table we have compared the yields per acre according to the highest crop estimate and actually attained results according to official weighings. For this compilation, the existing acreage has been considered as fully bearing and the new plantings as making half a crop:

Divisi	Yield po	er acre
District	Upper limit of estimate	Actual Yield
Hallertau Spalt Hersbrucker Gebirge Jura Tettnang Wurttemberg-RHW. Pfalz Baden	1,670 lbs. 1,430	2,100 lbs. 1,830 " 1,650 " 1,515 " 1,740 " 1,040 " 1,740 " 1,605 "

This table shows that yields attained are within the scope of practical results. It has been not too rare that hop yards in the Hallertau brought yields extremely above average up to 2,900/3,100 lbs. per acre. Under these circumstances, acreages according to statistics published up to now may be considered susceptible to small adjustments only.

Acreage 1954. Authorities decided in Bonn on October 1 st, 1953 that the hop acreage is not to be increased in 1954. Existing acreages have been distributed among the different Länder as follows:

Bavaria							٠		٠	18,433 acres
Wurttemberg/Baden	١.	•	٠		•			٠		2,471 ,,
Rheinland/Pfalz .		٠	•	•	•	•		•		77 "
										20.981 acres

Acreage in full bearing may be expected to be 21,000 acres in 1954. New plantings are practically non-existent and subject to approval according to § 8 of the decree dated March 19th, 1951 (BGBl. 1 S 227).

<sup>\*\*)</sup> except areas in Bayaria

<sup>1) 1938</sup> 

Deutsche Demokratische Republik DDR. Hop growing in the DDR. continues to progress. Radiating from the University of Jena, where the first experiments were conducted, the cultivation of hops has spread into the valley of the river Saale. Further new plantings are reported from the district of Nimbschen, Saxony.

No data are available about the acreage and yields of the hop gardens. It seems that hop growing has reached certain proportions already, but it is said that yields are not yet satisfactory. Hop growing exacts utmost efforts throughout the season and it is only to be expected that difficulties will arise during the introduction of this culture.

Deliveries of German hops to breweries within the DDR. have been considerably increased as against the year before.

Shipments of hops from Western Germany to the DDR. had been set at a value of DM 9,000,000.— for the year 1954 according to the agreement dated December 18th, 1953 (Bundesanzeiger Nr. 247 of December 23rd, 1953). About DM 6,000,000.— of this amount have been utilized for hops crop 1953. Contracts totalling 960,000 lbs. have been signed in September 1953 during the Leipzig Fair and in December 1953. Deliveries against these contracts had already been made and additional orders for about 165,000 lbs. were placed in February/March 1954.

In contrast to last year there are no more public bids for hops. Export licences are now subject to the situation of the clearing with the DDR., according to a decree of December 31st, 1953 (Bundesanzeiger Nr. 4 dated January 7th, 1954).

Czechoslovakia

The winter of 1952/53 was mild and brought sufficient precipitations to increase soil moisture. Spring work was done during April under good weather conditions. Cool weather and Frosts at the beginning of May with occasional snowfalls retarded growth which, however, was able to develop satisfactorily under warm weather during the second half of May and June.

Fleas were frequent in some parts where control measures were late. Dusting against this pest has been done from airplanes later on. Aphids as well as Red Spider were effectively controlled with modern sprayings. Downy Mildew found good conditions during the warm and humid weather in 1953 so that control became necessary.

The plants reached the height of the trellises at the beginning of July. At this time the weather turned somewhat drier, although cooler at the same time, so that Burrs as well as Bloom were retarded in late uncovered gardens. Early uncovered gardens were in full bloom already in mid-July. In general, the plants had offset earlier retardation of growth and the general aspect of the gardens was more uniform. Growth was luxuriant in part and the hops were overhanging the trellises. Laterals were relatively plentiful. Sprayings against Aphids as well as Downy Mildew had to continue. The general stand of the crop was judged to be better in Auscha and Raudnitz than in Saaz.

Picking began somewhat later than usual. Yields were greater than the year before. Hops are handled centrally and paid according to classification in 7 grades at prices of Kc. 1,300.— to Kc. 2,300.— per 50 kilos. Quantities delivered over and above the prescribed minimum yield receive a bonus from Kc. 100.— to Kc. 400.— for the three best grades.

In consequence of the general record harvest in Europe, exports of Czechoslovakian hops have been somewhat retarded but these hops nevertheless obtained the highest prices in the world market. The whole crop was sold out by the end of March 1954.

Jugoslavia

The hops had wintered well in the district of Sanntal (Slovenia). Spring work began in April under dry weather, and rain fell only by the end of that month. Weather conditions were similar to the general European situation so that the hops grew very well under intermittent rainfall and sunshine. Some Frost Damage in May was offset by later development. Precipitations were distributed as follows:

ſ	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	93	39	1.7	71	111	120	108	159.8	169	93.6	34	18 mm

Preventive sprayings against Downy Mildew were effected two or three times on the average. Aphids appeared in some districts by the end of May and had to be controlled. The hops reached the height of the poles by the end of June/beginning of July and showed a luxuriant overhang. Late uncovered gardens did not show such a good growth but had numerous shorter laterals. Some appearance of Red Spider was noted shortly before harvest.

Picking began sporadically on August 15th, was in full swing on August 20th and finished already on September 5th as there was no scarcity of pickers. Weather conditions during harvest were good. The quality of the crop was estimated as 55% prime, 42% medium and only 3% off-grade.

All hops are handled by the Co-operative. Quotations follow the trend of world markets. Crop 1953 was rapidly sold out.

The Styrian hops crop 1953 were not so light-green as in 1952 and the cones were not so uniform as the year before. Fine lupulin of mild aroma was amply present.

After a mild winter, hops were off to a slow start in the spring of 1953 as March was cool and dry and April cool with some rains. Precipitations are indicated as follows:

District	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Alost Poperinghe	21.0 17.8	74.9 45.7	6.4 4.4					76.8 54.3				32.2mm 39.8mm

The summer was not only very rainy but generally rather cool. Downy Mildew had to be controlled regularly. On the average 12—15 sprayings were applied. Pests were efficiently controlled by modern sprayings.

The plants reached the height of the trellises generally by the end of June and showed a luxuriant growth. Tettnang and Hallertau plants brought well sized and ripened cones while Fuggles showed smaller cones in consequence of the elimination of the male plants. Picking began on September 1st and was finished within about three weeks under generally good weather conditions. A big crop was harvested and even new gardens brought more than half of a full yield.

Labour was plentiful in **Alost.** About 75% of hop yards in this district are planted with Hallertau vines. The crop was sold rather rapidly.

About two thirds of the hop yards in **Poperinghe** contain Hallertau vines while Fuggles comprise about one fourth of the acreage. Pickers were reluctant to handle these latter gardens.

In Poperinghe, prices for type Hallertau hops set in on the basis of bfrs. 3,300.— at the beginning of September and were practically maintained until October. From then on, quotations continued to fall and stood at bfrs. 1,800.— per 50 kilos by March 1954. There were abt. 20% of the crop unsold in Poperinghe at that date.

The following quantites of crop 1953 have been imported from September 1st, 1953 to March 31st, 1954:

France	11,023 " 1,127,212 " 92,593 " 61,729 "	b. f
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The following exports are indicated for the time from September 1st, 1953 to March 31st, 1954:

In Alsace, development of Downy Mildew was checked by dry spring weather. Preventive sprayings against this disease were effected 6—8 times. Generally, the weather was more humid then the year before as shown by the following table:

Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
9.1	47.3	7	57.3	56.1	183.7	159.3	30.4	51.6	22.1	10.8	23.4 mm

On the average, the plant showed a rapid and healthy growth. Red Spider was especially noticeable and had to be controlled continually. The plants reached the height of the trellises by the beginning of July and showed a good overhang.

Belgium

France

Picking began as usual on the first monday in September and was protracted by reason of the abundant crop. The quality of the Alsace hops was very good. Bitter values were higher than the year before but the colour was somewhat less green and cones were somewhat irregular.

The crop was estimated as about 50% first and 50% second quality. Trading circles purchased about one third of the total crop at prices of ffrs. 20,000.—/ffrs. 22,500.— per 50 kilos. All other hops were taken over by the Alsatian Co-operative which made a part-payment of ffrs. 12,000.—. Another instalment in June brought payments up to ffrs. 13,000.—/ffrs. 16,000.— according to quality. Disposal of these hops has not yet been fully effected.

In Flanders development of the hop gardens was subject to cold weather from April until mid-June. Pests were limited but **Downy Mildew** was a serious danger after June so that 15—20 sprayings had to be applied. The general stand of the crop was still somewhat irregular by the end of July but the harvest was plentiful. **Picking** went on from the end of August until September 20th under fine weather. Cones were smaller in size than normal but the colour was good and there were less seeds than formerly. The quality of the crop is estimated at 20% choicest, 60% prime and 20% medium.

Prices set in on a basis of ffrs. 20/22,000.— per 50 kilos at the beginning of September, but only abt. 25% of the crop were sold until October when quotations were down to ffrs. 15,000.—/ffrs. 20,000.—. Bigger quantities could be sold at receding prices so that only abt. 20% of the crop remained unsold by the beginning of March 1954. Quotations at that date were abt. ffrs. 8,500.—/12,000.—.

The elimination of male plants in this district has shown good results. Yields per acre are somewhat smaller than formerly as cones now are smaller in size. Another improvement in hop growing is being expected from an increased planting of type Hallertau hops which are imported from Belgium.

Hop Exports from France during the calendar year 1953 were as follows:

Destination	Jan. — June 1953 lbs.	July—Dec. 1953 lbs.	1953 Total lbs.
Western Germany Austria Denmark Spain Finland Italy Netherlands Sweden Switzerland Turkey Benelux Deutsche Demokratische Republik Argentine Brazil USA. French East Africa French West Africa Algiers New-Caledonia French Indochina Madagascar French Morocco Martinique Spanish Africa	154,322 1,102 77,602 17,637 9,039 40,344 — 7,937 220 5,511 146,606 220 254,852 22,046 9,039 9,480 30,203 1,543 228,397 882 20,723 4,630 6,614	7,716 1,102 97,884 13,007 7,275 3,527 5,953 154,984 276,898 220 54,895 4,189 441 6,834 1,543	7,716 155,424 1,102 175,486 30,644 9,039 47,619 3,527 13,890 220 5,511 301,590 220 531,750 22,046 9,259 64,375 34,392 1,543 228,838 7,716 20,723 6,173 6,614
Total	1,048,949	636,468	1,685,417

The following quantities have been imported during the calendar year 1953.

3 1	•		•	
Countries		Jan. — June 1953 lbs.	July—Dec. 1953 lbs.	1953 Total lbs.
Western Germany Great Britain Czechoslowakia Jugoslavia USA. Total		973,331 6,393 2,646 92,152 625,445 1,699,967	108,467 13,448 19,400 122,135 263,450	1,081,798 6,393 16,094 111,552 747,580 1,963,417

It has to be reported that, as a protection of the home production in France, the import of hops from Germany was limited to origins Spalt, Tettnang and Hallertau. Customs authorities verified this by examination of seal and certificates of hop shipments.

Hop gardens in the **Muehlviertel** area have now reached the acreage of 12 acres (of which 7 acres new gardens). Some damage was caused by intense Frost in May. Downy Mildew appeared extensively under the sultry weather during the summer of 1953 and was not sufficiently controlled by reason of lack of experience. On the average only 8 sprayings were applied. The hops reached the height of the trellises by the end of May and showed a good overhang. The **Set of Cones**, however, sometimes appeared only on the top third of the vines.

Picking began on August 19th and was finished on September 8th under good weather conditions. The total harvest amounted to 12,125 lbs. (1010 lbs. per acre). Both the colour and the quality of the hops had been impaired by **Downy Mildew**. About one third of the hops was estimated as medium quality, the rest as off-grade.

The Austrian brewing industry has agreed to accept home grown hops during the next 15 years, up to a quantity of 50 tons = 110,000 lbs.

Hops are delivered to breweries through a co-operative. Payment is effected on the basis of a calculated quotation based on prices for foreign hops on October 15th of each year. German and Czechoslovakian quotations account for 30% of the price. The remaining 40% are being calculated according to prices for Yugoslavian, Belgian, French, English and eventually American hops. Prices are somewhat graduated for variations in quality.

Styria. About 10 acres are planted to hops in this district.

In this country, too, the record growth of hops all over Europe has been experienced. A crop of 29,211 lbs. was harvested on the somewhat increased area of 17 acres (1.80 acres new gardens). Rainfalls were distributed as follows:

1	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	.15	30	4	64	88	180	140	46	56	31	13	26 mm

The plants reached the height of the trellises on June 30th and developed a luxuriant coverhang. There were, however, practically no cones on the lower third of the vines. Picking went on from August 24th until September 15th. The hops were good in colour and the quality was estimated as good-medium. The coarse conformation of the cones of crop 1953 was notable in Switzerland as well. All hops were taken over by sponsoring breweries at prices from 1951.—1952.—1953.—1953.—1955

Growth of the hops suffered under cold weather and Frost during the first half of May followed by hot and dry weather until harvest. Precipitations 1953 were rather scarce:

Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
28	26	18	28	33	16	47	50	48	14	24	33 mm

Preventive sprayings against Downy Mildew were effected 5 times. Red Spider had to be controlled and shortly before harvest there occurred a strong attack by Aphids and Red Spider. The plants reached the height of the trellises by the end of June and showed only little overhang. Bloom was plentiful but yield was smaller than expected in consequence of the dryness. Hops type "Svalöf" were harvested from August 20th/26th and brought well sized cones of fine colour and good quality. Hops type Saaz were gathered in from September 7th/22nd and were better than the year before, although cones were not uniform.

The acreage stands unchanged at 22 acres. All hops are taken over by sponsoring breweries and prices are the same as for Hallertau hops.

Hop cultivation in Spain has been increased by abt. 20% in 1953 against the year before. The expansion of acreage was effected mostly in the district of León with some increases in the district of Asturias-Santander. There has been no expansion of acreage in Galicia as the acreage in this district already corresponds to present possibilities. The cultivation of hops has not yet brought the expected commercial results in the district of Vasco-Navarra, so that no increases are contemplated there. General extension of the hops acreage in Spain is set at abt. 15% for 1954.

Crop 1953 did not bring the expected yield by reason of unfavourable weather. Aphids as well as Downy Mildew were successfully controlled. The total crop was 366,515 lbs. of which 88.5% were estimated as prime, 8.5% as medium and only 3.0% as off-grade. Sales to breweries are effected at Pesetas 100.—per kilo.

Existing warehouses were enlarged and new presses have been erected, so that the capacity of the plants now corresponds to prospective yields.

Austria

Switzerland

Sweden

Spain

#### England

Sufficient rainfall especially in April and July brought good possibilities for the growth of the hops, after March had been too dry. It was necessary to spray conscientiously against Aphids whereas Downy Mildew became notable sporadically only at the close of the growing season. The crop was so rich that most farmers left some hops unpicked after their quota had been reached.

Rainfalls were distributed as follows:

District	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.
Kent	1.09	1.22	0.21	2.44	1.90	1.50	2.83	1.82	3.10 inches
Worcester	0.46	1.36	1.12	2.53	2.79	1.97	3.31	4.20	2.49 inches

Picking went on from August 25th until October 4th under generally good weather conditions. The harvested crop was of better quality, on the average, than during the preceding years because of selective picking. The hops were well ripened and of greenish-yellow colour with higher bitter values than in former years. The preserving value of the hops was higher than in 1952.

About three quarters of the English crop consists of Fuggles hops of which 50% were estimated as prime quality, 40% as medium and 10% as off-grade. The last quarter of the crop is made up mostly of Goldings and Goldings varieties as well as a number of new types, some of which are in good demand.

Lack of pickers results in always more widespread use of picking machines. Experiences gathered during the preceding years will make for continually improved results.

The average price for producers was established at £ 27.10.— per cwt. (DM 318.50 per 50 kilos). All picked hops were sold under the existing marketing agreement.

	•	_	Hops Crop 1953 3 — April 1954	
Australia Belgium Brit. Honduras Canada Ceylon Denmark Germany (East and Fiji-Islands Finland Gold Coast Hong Kong India Iraq Eire Jamaica Channel Islands Kenya Federation of Ma Malta and Gozo c. f	d West)	711 " 2 " 2,087 " 83 " 49 " 3,965 " 17 " 678 " 98 " 157 " 89 " 33,653 " 13 " 327 " 215 " 15 "	Mauritius Netherlands Nyassaland Northern Rhodesia Austria Pakistan Pacific Islands Sierra Leone Singapore Sudan Union of South Africa Southern Rhodesia Sweden Switzerland Tanganyika Trinidad USA.	50,855 cwts.  1 " 164 ", 5 ", 220 ", 92 ", 49 ", 5 ", 13 ", 13 ", 402 ", 447 ", 71 ", 11 ", 19 ", 6 ", 5 ",

The following demands have been registered for crop 1954: Home consumption: 215,000 cwts. = 218,440 Ztr. (1953: 222,109.5 cwts. = 225,663 Ztr.) Export: 10,943 cwts. = 11,118 Ztr. (1953: 15,366.5 cwts. = 15,613 Ztr.)

California. After warm weather with light rainfall had stimulated growth in February 1953, the hop gardens in Sonoma and Mendocino suffered under cold and wet weather during March and April. There were interruptions in growth noticeable in many gardens which weakened and in part destroyed the plants. Growth was hampered furthermore by Downy Mildew which appeared in April. About two thirds of the crop in this district were lost. Some gardens were somewhat better, especially where picking was late the year before. All gardens which were picked by hand in 1952 brought good crops. This seems to indicate that the hops were weakened by machine picking to such an extent that the plants could not resist the adverse weather during the spring of 1953. Rains were distributed as follows:

-	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	6.74	0.08	3.17	3.91	0.57	0.97		0.17	_	1.31	4.64	0.96 inches

USA.

Sprayings against Downy Mildew were only effected 2 or 3 times on the average. The hops in normally developed gardens reached the height of the trellises abt. 10 days later than usual. Weaker vines developed considerably later and generally did only reach the blooming stage with no cones resulting.

Picking began on September 1st, about 8 days later than usual. Weather during the harvest was good and warm and there were only occasional rains.

About two thirds of the crop were estimated as medium quality with few prime lots while the rest was off-grade. On the average cones were smaller than normal.

Sacramento hops developed normally under generally good weather conditions. Downy Mildew was limited to some especially susceptible locations. Preventive control measures were applied against Red Spider. Rainfalls were distributed as follows:

Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
3.51	0.21	1.42	2.69	0,52	0.61		0.67		0.18	1.79	0.56 inches

It is to be noted that the exceptional precipitations in August 1953 were caused only by a sudden storm. All rainfalls in August during more than 20 years together did not bring so much rain as noted in August 1953 alone.

The hops reached the height of the trellises between the 5th and 10th of June and showed good overhang. Picking was in full swing on August 10th, and finished during the first days of September. The whole harvest is mechanized. Weather during picking was good. The quality of the crop was judged to be medium to prime with only a small proportion off-grade.

Western Oregon. Growth of the hops was especially slow in 1953 as the nights were cooler than normal. Considerable rainfalls in May caused a strong attack of Downy Mildew. As far as this disease was not controlled there was practically no crop especially on late varieties whereas well tended gardens brought average yields. Precipitations were as follows:

Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
15.40	4.87	4.95	1.58	3.76	1.34		1.65	1.59	3.06	6.99	7.80 inches

Sprayings against Downy Mildew were effected about 10 times on the average, whereas many farmers sprayed up to 25 times. Both sprayings and dustings are applied.

Hops reached the height of the trellises generally during the second week of June and showed good overhang. A considerable part of the hops on the lower part of the vines did not ripen.

Picking began generally on August 18th and was finished on September 10th. The harvest is almost completely mechanized. Weather during picking time was sometimes rainy. The formation of the cones showed insufficient ripeness. The major part of the crop was of medium quality in consequence of the unfavourable weather conditions during the spring which hampered growth and sometimes resulted in secondary growth which brought only half-developed cones until harvest time.

Eastern Oregon and Idaho. The weather was cooler than usual during April and May so that the vegetative development was retarded. A better growth started only by the beginning of June. There was no damage by Downy Mildew. A rather heavy infestation of Aphids and Red Spider at the beginning of vegetation was controlled by sprayings and dustings. Precipitations in 1953 are indicated as follows:

Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
3.35	1.49	0.92	1.52	2.59	1.22		0.12	0.02	0.11	1.31	1.15 inches

Sprayings against Downy Mildew are not in practice. The hops reached the height of the trellises by mid-June and showed a good overhang. Cones ripened throughout the length of the vine. Picking began on August 25th and was finished by September 22nd. The harvest is fully mechanized. The weather during picking time was favourable. The colour and quality of the hops was about equal to that of crop 1952. About 80 % of the hops were of prime quality, 15 % medium and 5 % off-grade.

Washington. The weather was generally favourable in the district of Yakima. Warm days and cold nights in early summer resulted in considerable dew on the hops. Precipitations during 1953 totalled 8.39 inches. There is no Downy Mildew in this district under these dry weather conditions.

The height of the trellises was reached by mid-June and the hops were overhanging the trellises. Picking began on August 23rd and was finished on September 25th. There was no handpicking anymore in Yakima in 1953.

The weather during the harvest was good. The quality of crop 1953 was only a little lower than the year before. The crop was estimated as 30% prime quality, 50% medium and 20% off-grade.

#### Acreage USA.

Farmers reduced acreage more than 25% as against 1952, after the marketing agreement in the USA, was discontinued on June 30th, 1953. The bulk of the crop was reduced more than 30%, as compared to 1952, and brought about the same quantity as had been "salable" in 1952.

Seedless qualities were sold out until the spring of 1954 with the exception of small remaining lots, whereas there was less demand for seeded hops.

# Hop Imports USA.

Hop Imports USA. Crop September 1953— February 1	
Country	lbs
Belgium/Luxembourg Canada Germany Great Britain Jugoslavia Netherlands Total	6,358 2,975 3,231,248 527 1,443,953 38,581 4,723,642

# Hop Exports USA.

Belgium/Luxembourg	lbs.	Country	lbs.	Country
Belgium/Luxembourg	4,704,676	b. f	22,050	Angola
Congo         33,184         Indonesia         1           Bolivia         55,083         Jamaica         1           Brazil         593,396         Mexico         2,12           Canada         1,534,691         Mozambique         2,12           Canal Zone         15,164         Nicaragua         1           Ceylon         48,000         Netherlands         1           Chile         383,648         Norway         1           Columbia         1,367,586         Panama         4           Costa Rica         6,614         Peru         16           Cuba         127,915         Philippine Islands         9           Denmark         171,332         Portugal         1           Dominican Republic         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         3           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	. 45,760			
Bolivia	. 5,79 <del>0</del>	Indonesia		
Brazil         593,396         Mexico         2,12           Canada         1,534,691         Mozambique         2,12           Canal Zone         15,164         Nicaragua         1           Ceylon         48,000         Netherlands         1           Chile         383,648         Norway         1           Columbia         1,367,586         Panama         4           Costa Rica         6,614         Peru         16           Cuba         127,915         Philippine Islands         9           Denmark         171,332         Portugal         1           Dominican Republic         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         3           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	10,000	lamaica		
Canada         1,534,691         Mozambique         15,164         Nicaragua         15,164         Norway         15,164         Norway         16,164         Norway         17,164         Norway         16,164         Norway         17,164         Norway         17,164         Norway         17,164         Norway         17,164         Norway         17,164         Norway	2,125,483	Mexico		Brazil
Canal Zone         15,164         Nicaragua         15,164         Netherlands         15,164         Netherlands         15,164         Netherlands         15,164         Netherlands         15,164         Norway         15,164         Netherlands         15,164         Norway         15,164         Norway         15,164         Norway         15,164         Norway         16,164         Norway         17,164         Norway         17,164         Norway         17,164         Norway         17,164         Norway         17,164         Norway         17,164         Norway <td< td=""><td>2,250</td><td>Mozambique</td><td></td><td>Canada</td></td<>	2,250	Mozambique		Canada
Chile         383,648         Norway         4           Columbia         1,367,586         Panama         4           Costa Rica         6,614         Peru         16           Cuba         127,915         Philippine Islands         9           Denmark         171,332         Portugal         1           Dominican Republic         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         7           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	6,767		15,164	Canal Zone
Columbia         1,367,586         Panama         4           Costa Rica         6,614         Peru         16           Cuba         127,915         Philippine Islands         9           Denmark         171,332         Portugal         1           Dominican Republic         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         7           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	18,189	Netherlands		Ceylon
Costa Rica         6,614         Peru         16           Cuba         127,915         Philippine Islands         9           Denmark         171,332         Portugal         1           Dominican Republic         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         5           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	5,622	Norway	383,648	Chile
Cuba         127,915         Philippine Islands         9           Denmark         171,332         Portugal         1           Dominican Republic         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         5           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	45,16	Panama	1,367,586	
Denmark         171,332         Portugal         1           Dominican Republic         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         5           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	. 161,34	Peru	6,614	Costa Rica
Dominican Republic.         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         5           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	90,359	Philippine Islands .	127,915	Cuba
Dominican Republic.         15,904         Salvador         8           Ecuador         112,712         Union of South Africa         11           Formosa         22,046         Switzerland         5           French Morocco         6,614         Uruguay         8           French Pacific Islands         2,030         Venezuela         18	.   11,038	Portugal	171,332	Denmark
Ecuador112,712Union of South Africa11Formosa22,046SwitzerlandFrench Morocco6,614Uruguay8French Pacific Islands2,030Venezuela18	. 88,842	Salvador	15,904	Dominican Republic.
Formosa		Union of South Africa		
French Morocco . 6,614 Uruguay	71,430	Switzerland		Formosa
French Pacific Islands 2,030 Venezuela 18	80,21	Uruguay		French Morocco
			2,030	French Pacific Islands
	10,000	Other Countries	29,725	Guatemala
1,000	7,781,96	Total		Haiti

#### Argentine

During the Harvest in March 1954 it resulted that yields per acre in all three districts of production were higher than the year before.

Mar del Plata. Hop yards developed normally under favourable weather conditions until about one month before picking. From this time on, strong and hot winds hampered the normal development of the cones. There were no diseases or pests.

Sierra de la Ventana. The hops suffered under dryness during the last two months before harvest. There were neither insects nor diseases.

Rio Negro. Hop yards in this district showed the usual very good development. Diseases continued to be absent but there was a light attack of Red Spider in a few gardens.

The total crop of the Argentine amounts to 167,550 lbs. on an area of 319 acres (of which 72 acres new gardens).

Growth 1954 in Germany

Hallertau. Inclement weather continued until the middle of April. Spring work was begun during the first days of April and finished by the second half of that month. Some Root Rot was noticeable when the hops were uncovered and cut. This disease was rather widespread in some areas. The weather was generally cool during April but there were ample precipitations which somewhat offset the insufficient winter moisture. Growth was healthy on the average, although the weather during May was irregular. Preventive sprayings were applied against Downy Mildew as well as pests. The weather became warmer during the first half of June and benefitted the good and healthy development of the plants after welcome rainfalls. The appearance of Grubworms required attention.

**Spalt.** Spring work set in by the beginning of April and was interrupted by rain and snowfall during the middle of that month. Warmer weather in May improved the development and in June the plants had already offset part of their retarded growth. Generally hop yards showed a healthy aspect. Preventive sprayings against pests and diseases have been applied.

**Tettnang.** There were only insignificant precipitations during March and temperatures were low. The uncovering and cutting of the hops began normally and was not hampered by weather conditions.

More rain than normal during April increased soil moisture. Weather in May was cool and disagreeable with ample precipitations and occasional Hails. The unstable weather continued until June. The vegetative development of the hops was retarded as compared with former years and warmer weather was very necessary for the development of the plants.

Hersbrucker Gebirge. Soil moisture decreased as a consequence of insufficient precipitations during the winter months. Spring work started at the beginning of April and was hampered by precipitations. Root Rot was noticeable in some gardens. The weather in May continued cool to cold, after a passing warmer spell in the beginning of this month, and the plants showed retarded growth. There were insufficient precipitations in May but welcome rains fell by the beginning of June.

**Wuerttemberg.** Spring work was finished by the middle of April in spite of interruptions by unfavourable weather. The weather continued from cool to cold with occasional **Nightfrosts** until May. A warm spell in mid-May was very welcome for the development of the hops but the weather soon became changeable again and was irregular until June so that growth was slower than normal.

The general development of the hops in Germany is about ten days to a fortnight later than normal, by reason of the cool and adverse weather during the spring and early summer of 1954. The general aspect of the plants, however, is healthy and retarded growth may be quickly recuperated as soon as warmer weather begins to prevail.

JOH. BARTH & SOHN

The compilation of this report has been made possible in many instances by data supplied from observers in many countries, which is hereby gratefully acknowledged.

# Hop farm "BARTHHOF"



The hop farm "BARTHHOF" is situated on the heaviest soils within the center of the HALLERTAU and is one of the biggest producers of hops in Germany. A yield of 2,450 lbs. per acre in 1953, well above average, was achieved by the application of modern farming methods. These hops receive the seal of WOLNZACH or AU.

Friends are cordially invited and always welcome to inspect the farm and its installations.