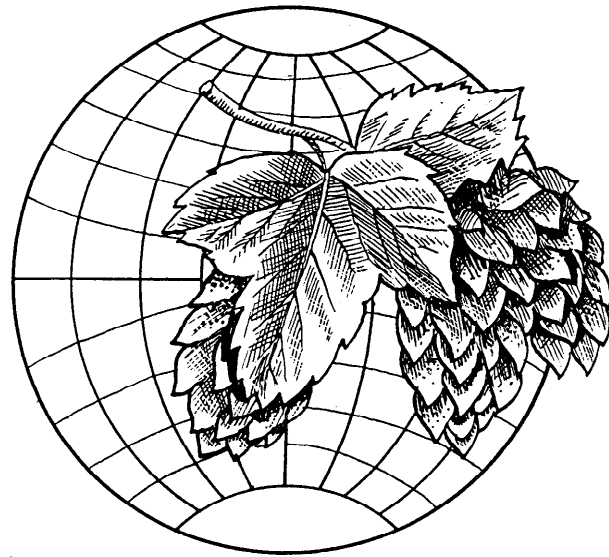


INTERNATIONAL HOP GROWERS' CONVENTION



ECONOMIC COMMISSION - SUMMARY REPORTS

VIDEO-CALL
NOVEMBER, 2020



International Hop Growers' Convention

IHGC - Economic Commission Summary Reports

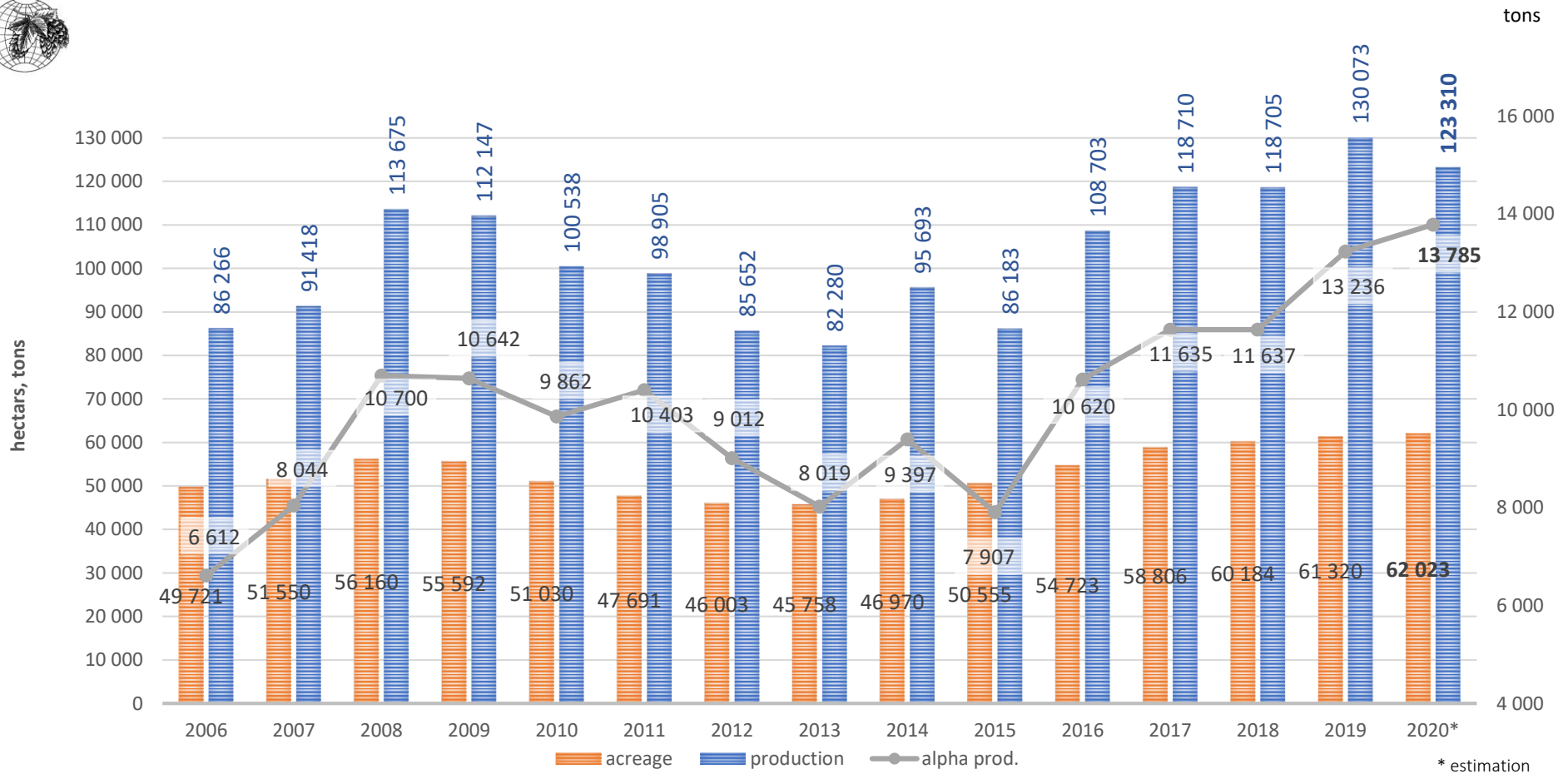
Video-Call - November 9, 2020

Country	Hop Acreage 2019 (Hectares, Ha)					Hop Production 2019 (in MT = 1.000 kg)				Alpha acid Prod. MT	Hop Acreage 2020 (Hectares, Ha) estimations					Hop Production 2020 (in MT = 1.000 kg) estimations				Alpha acid Prod. MT
	Aroma	Alpha	Hop area ¹	New	Total	Aroma	Alpha	Total	Aroma		Alpha	Hop area ¹	New	Total	Aroma	Alpha	Total	MT		
Argentina	118	56	174	0	174	188	78	266	23	127	59	186	11	186	230	101	331	28		
Australia ^o	476	176	652	48	700	1 385	260	1 645	224	548	152	700	43	743	1 478	236	1 714	255		
Austria	194	58	253	3	253	368	124	492	37	197	58	255	5	255	360	117	487	39		
Belgium	124	58	182	0	182	172	124	296	24	124	58	182	0	182	154	122	276	21		
Canada ^o	219	200	419	0	419	329	300	629	63	200	150	350	0	350	329	300	629	63		
China ^o	400	2 283	2 683	0	2 683	544	6 500	7 044	600	360	2 000	2 360	0	2 360	544	6 500	7 044	600		
Czech Republic	4 706	49	4 755	248	5 003	6 991	154	7 145	285	4 635	61	4 696	270	4 966	5 830	120	5 950	265		
France	424	42	466	39	505	728	94	822	25	413	48	460	40	500	672	95	767	31		
Germany	10 860	8 913	19 773	644	20 417	22 584	25 888	48 472	5 260	10 973	9 154	20 127	579	20 706	21 400	25 600	47 000	5 400		
Japan ^o	53	53	106	0	106	82	120	202	25	53	53	106	0	106	82	120	202	25		
New Zealand ^o	598	145	743	331	743	780	239	1 019	100	598	145	743	331	743	1 000	250	1 250	115		
Poland	636	1 020	1 656	106	1 762	1 293	2 476	3 765	317	650	1 111	1 761	30	1 791	1 155	2 262	3 417	354		
Romania	75	185	260	3	263	90	105	195	19	75	188	263	6	269	95	125	220	21		
Russia ^o	168	74	242	12	254	200	150	350	20	168	74	242	12	254	200	150	350	20		
Serbia ^o	0	0	8	0	8	0	0	16	2	0	0	8	0	8	0	0	16	2		
Slovakia ^o	129	0	129	4	133	108	0	108	5	38	0	38	0	38	42	0	42	2		
Slovenia	1 500	21	1 521	75	1 596	2 502	70	2 572	130	1 380	23	1 403	78	1 480	2 623	100	2 723	213		
South Africa ^o	73	354	427	0	427	77	677	754	75	73	354	427	0	427	77	677	754	75		
Spain	0	518	518	0	518	0	830	830	98	0	468	468	0	468	0	800	800	94		
Ukraine ^o	309	60	369	0	369	400	80	480	30	309	60	369	0	369	400	80	480	30		
UK-England	787	171	958	0	958	1 353	343	1 696	119	711	157	868	0	868	748	176	924	67		
USA	18 005	5 842	23 847	468	23 847	35 160	16 115	51 275	5 755	19 682	5 272	24 954	1 107	24 954	35 516	12 522	48 038	6 075		
IHGC	39 854	20 278	60 141	1 981	61 320	75 334	54 727	130 073	13 236	41 314	19 645	60 966	2 512	62 023	72 935	50 453	123 310	13 785		

^o Since no country updates were available, figures from Video-Call in August 2020 were used.

¹ Acreage without new hop areas

Difference Σ 2020-2019	1 460	-633	825	531	703	-2 399	-4 274	-6 763	549
Difference Σ 2020-2015	9 498	2 917	12 322	-2 330	11 468	27 425	9 780	37 127	5 878
Difference Σ 2020-2010	17 001	-6 320	10 688	1 705	11 745	35 322	-12 472	22 772	3 923



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IHGC-Economic Committee: November 2020 - Video-Call

Country:
Argentina

Hop Area (Ha = Hectares)	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	118	127	9	7,6
Alpha	56	59	3	5,4
Total	174	186	12	6,9

New Hop Area (Ha)	Year N-1 2019	Year N 2020 (estimate)
Aroma	0	9
Alpha	0	2
Total	0	11

TOTAL Hop Area (Ha)	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	118	127	9	7,6
Alpha	56	59	3	5,4
Total	174	186	12	6,9

Production MT=Metric Tons	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	188	230	42	22,3
Alpha	78	101	23	29,5
Total	266	331	65	24,4

Difference accounts to poor yield due to frosts.
Estimation inc. Indep. Growers and ABI

Yield MT/Ha	Year N-1 2019	Year N 2020 (estimate)	Difference %
Aroma	1,59	1,81	13,7
Alpha	1,39	1,71	22,9
Total	1,53	1,78	16,4

Difference accounts to poor yield due to frosts.

Alpha Prod. Metric Tons	Year N-1 Metric Tons	2019 Av. Contents %	Year N Metric Tons (estimate)	2020 Av. Contents %	Difference Metric Tons	N-(N-1) Av. Contents %
Aroma	13,2	7,5	16,1	7,0	2,9	22,3
Alpha	9,4	12,5	12,1	12,0	2,8	29,5
Total	22,5		28,2		5,7	25,3

Main Varieties (Ha = Hectares)	Year N-1 Total Acreage	Year N Total Acreage	Difference	Year N-1 Alpha %	Year N Alpha %	Difference N-(N-1)
Aroma	No precise public data available					
Cascade						
Willamette						8
Trafal						11
Mapuche						8
Patagonia Red Brand						7
Nahuel						12
						5
Alpha	No precise public data available					
Nugget						
Bullion						12
Victoria						11
						13

International Hop Growers' Convention

IHGC-Economic Committee: November 2020 - Video-Call

Country:
Argentina

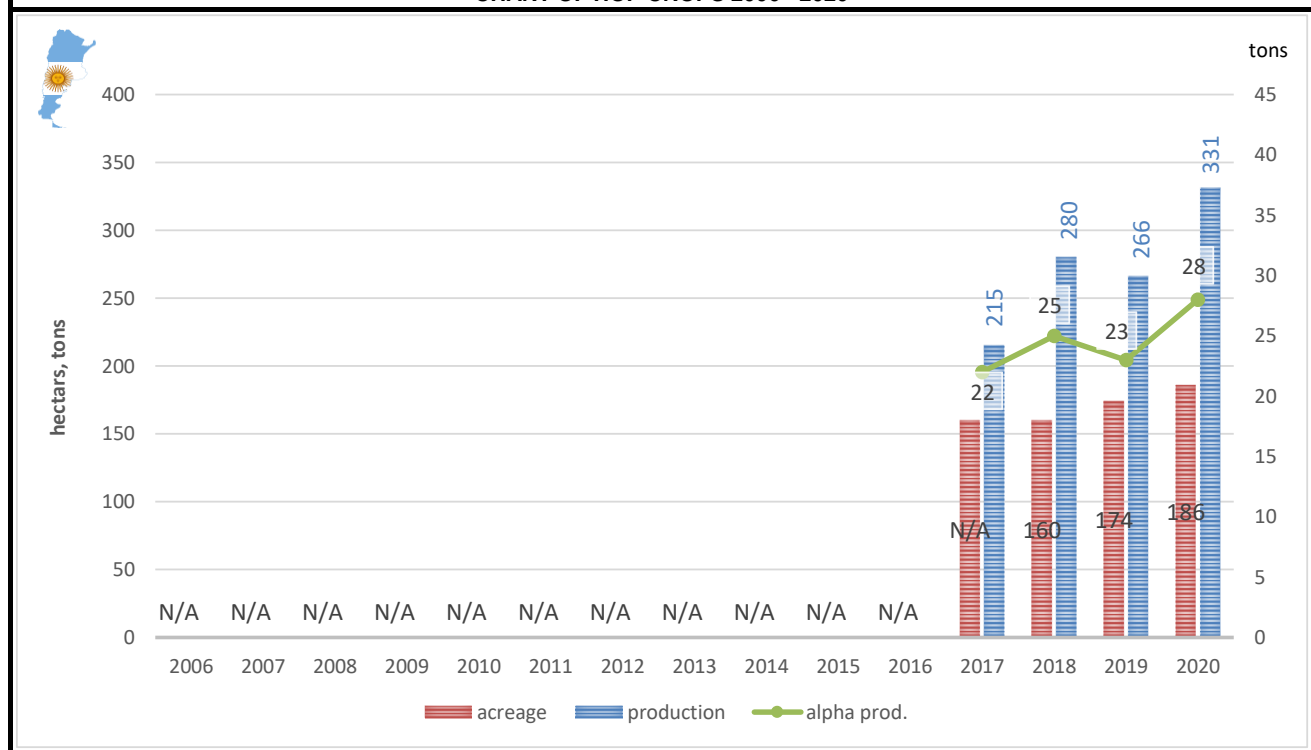
Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N						

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops				
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops	n/d	n/d	18-28		Premium Craft market*
Alpha Hops			18-21,5		Premium Craft market*
Average Price					
Contract Prices					
Aroma Hops			13,5		ABI
Alpha Hops			13,5		ABI
Average Price			13,5		ABI
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE					

* Depending on grower/processor and quality.

CHART OF HOP CROPS 2006 - 2020*



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

No significant commercial production

	Year N-1	Year N 2020
O-Hop Area (Ha)	n/a	n/a
O-Production (MT)	n/a	n/a

Main O-varieties

International Hop Growers' Convention

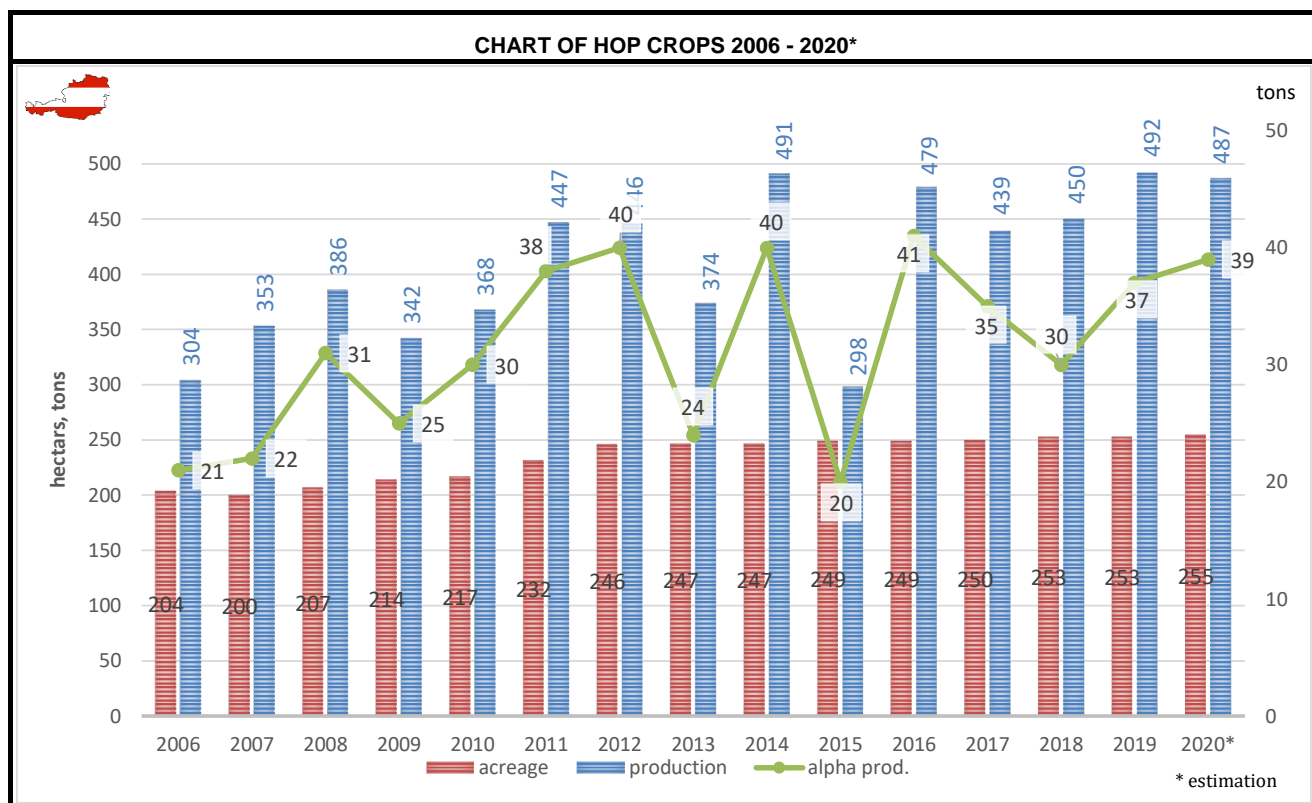
IHGC-Economic Committee: November 2020 - Video-Call

Country:
Austria

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons	480	450	425	390	150	50
% Crop / Year N	99	95	89	82	32	11

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops		0,1	0	0,1
% unsold Hops		0	0	0

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops	7,4	7,5	7,5	0	
Alpha Hops	7,5	7,6	7,4	-2,6	
Average Price					
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE					



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020
O-Hop Area (Ha)	12	13
O-Production (MT)	19,00	18,00

Main O-varieties
 Tradition Spalter Select
 Malling

Country, Date:

Member Organization(s):

International Hop Growers' Convention

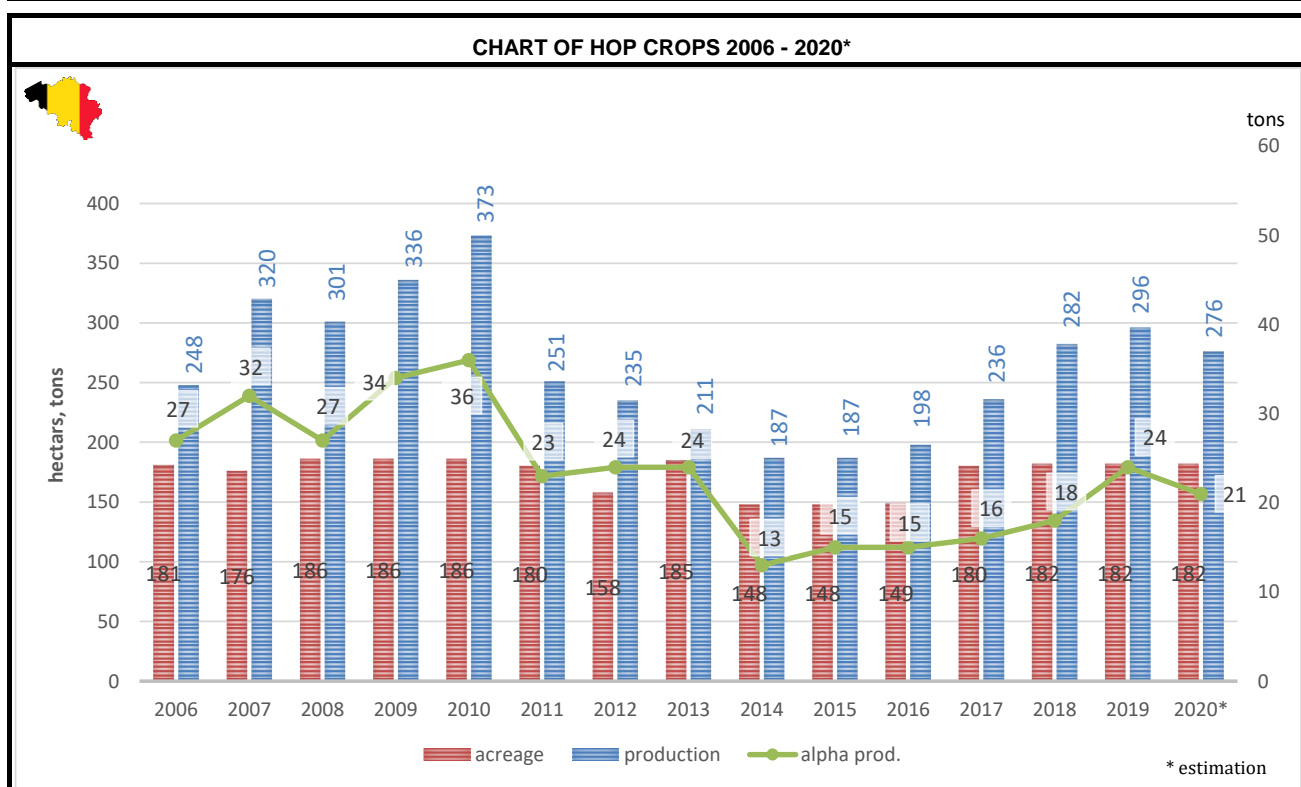
IHGC-Economic Committee: November 2020 - Video-Call

Country: Belgium

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N						

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops				
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE					



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020
O-Hop Area (Ha)	15,1	15,1
O-Production (MT)	20,30	25,10

Main O-varieties

Golding	Pilgrim	Cascade
WGV	Challenger	Fuggle

Country, Date:
Belgium, 05.11.2020

Member Organization(s): **VZW Hop Joris Cambie**

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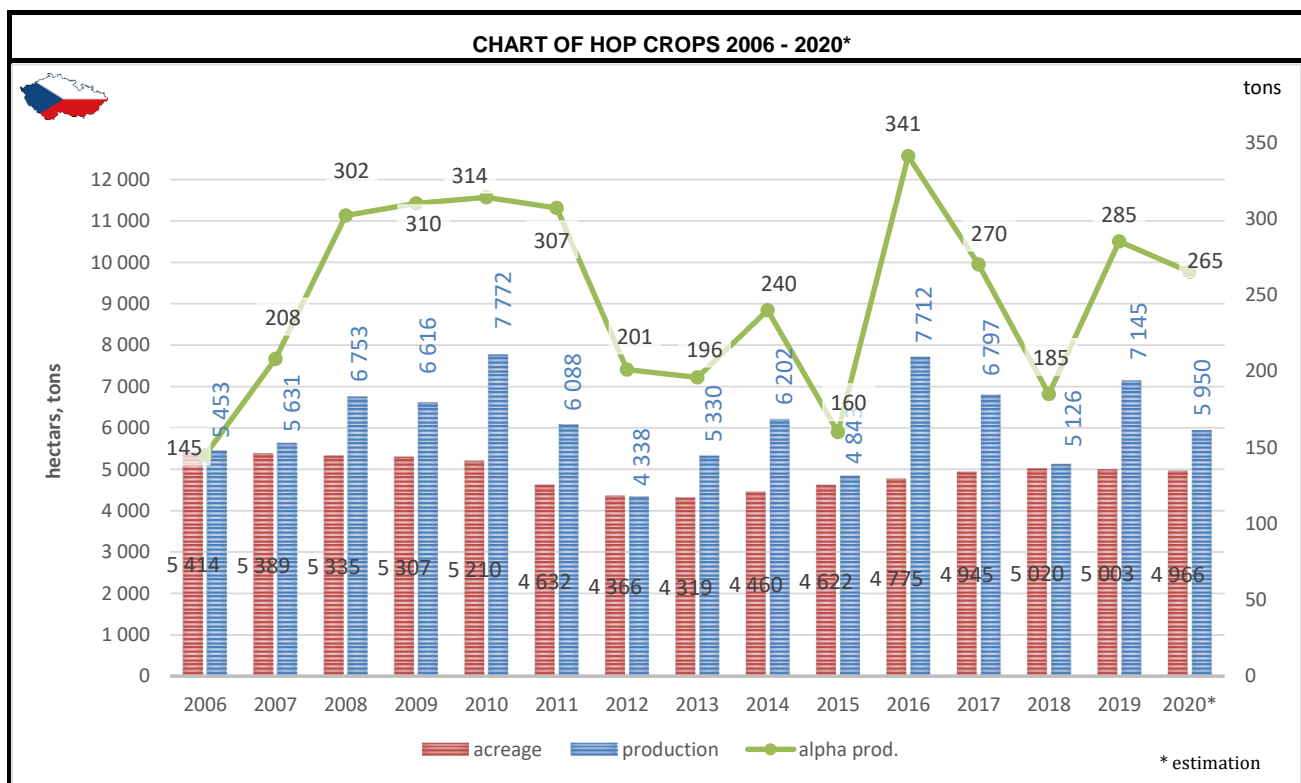
IHGC-Economic Committee: November 2020 - Video Call

Country: Czech Republic

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N	100	100	100	90	85	70

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops				
% unsold Hops				0

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops	7,3	7,8			farmer price
Alpha Hops	5,0	5,2			farmer price
Average Price					
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE					



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020
O-Hop Area (Ha)	10,55	10,55
O-Production (MT)	12,00	5,00

Main O-varieties
Saaz
Premiant

Country, Date:
02.11.2020

Member Organization(s):
Hop Growers Union of the Czech Rep.

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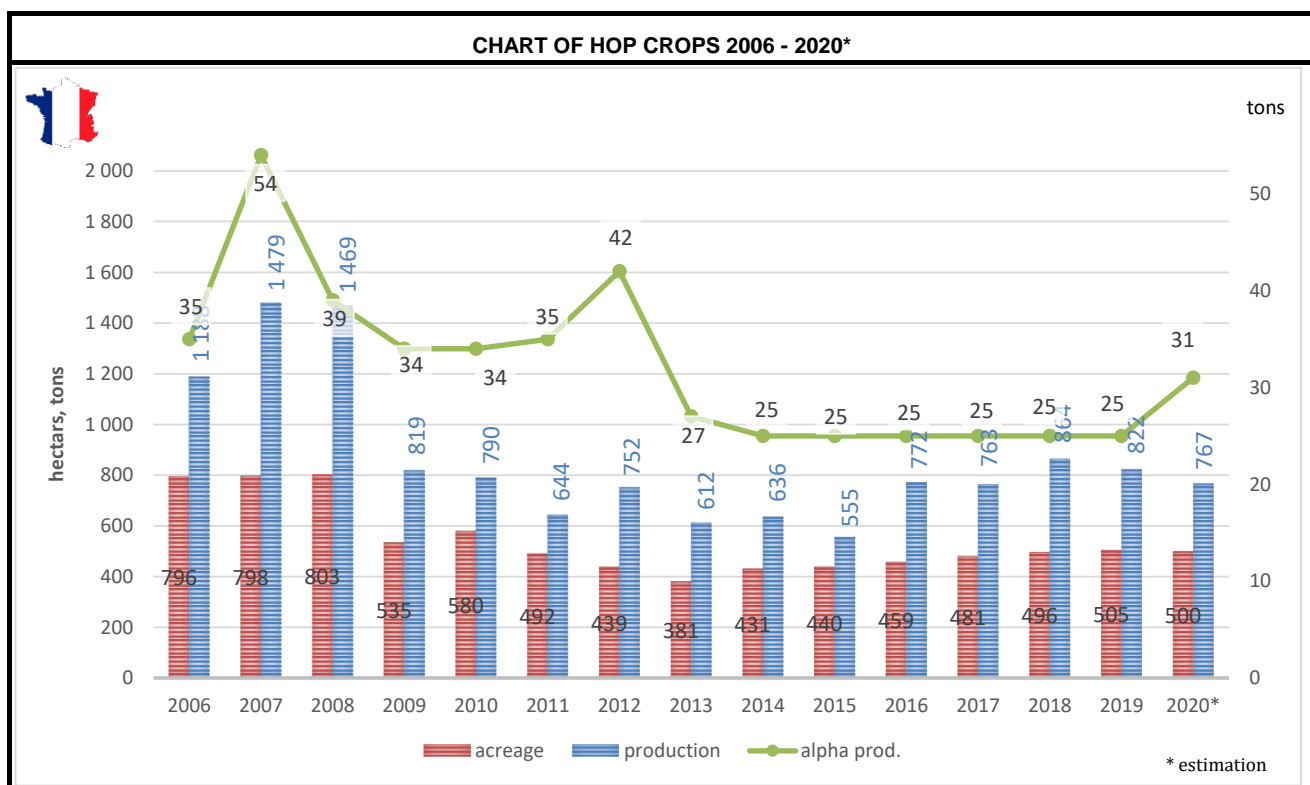
IHGC-Economic Committee: November 2020 - Video-Call

Country: France

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N	95	90	80	70	60	60

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops		15		
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE		6,50-8,00 €/kg	6,00-8,00 €/kg		



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020
O-Hop Area (Ha)	19,2	30
O-Production (MT)	28,10	30,00

Main O-varieties
Strisselspalt
Aramis

Country, Date:
November 2, 2020

Member Organization(s):

AGPH

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IHGC-Economic Committee: November 2020 - Video-Call

Country:
Germany

Hop Area (Ha = Hectares)	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	10 860	10 973	113	1,0
Alpha	8 913	9 154	241	2,7
Total	19 773	20 127	354	1,8

New Hop Area (Ha)	Year N-1 2019	Year N 2020 (estimate)
Aroma	362	362
Alpha	282	217
Total	644	579

TOTAL Hop Area (Ha)	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	11 222	11 335	113	1,0
Alpha	9 195	9 371	176	1,9
Total	20 417	20 706	289	1,4

Production MT=Metric Tons	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	22 584	21 400	-1 184	-5,2
Alpha	25 888	25 600	-288	-1,1
Total	48 472	47 000	-1 472	-3,0

Yield MT/Ha	Year N-1 2019	Year N 2020 (estimate)	Difference %
Aroma	2,0	1,9	-6,2
Alpha	2,8	2,7	-3,0
Total	2,4	2,3	-4,4

Alpha Prod.	Year N-1	2019	Year N	2020	Difference	N-(N-1)
Metric Tons	Metric Tons	Av. Contents	Metric Tons	Av. Contents	Metric Tons	Av. Contents
		%	(estimate)	%		%
Aroma	1 248	5,5	1 300	6,1	52,0	0,5
Alpha	4 012	15,5	4 100	16,0	88,0	0,5
Total	5 260	10,9	5 400	11,5	140,0	0,6

Main Varieties (Ha = Hectares)	Year N-1 Total Acreage	Year N Total Acreage	Difference	Year N-1 Alpha %	Year N Alpha %	Difference N-(N-1)
Aroma						
Perle	3 148	3 297	149	6,7	7,4	0,7
Hall.Tradition	2 770	2 870	100	5,4	6,3	0,9
Hersbrucker	918	904	-14	2,5	3,3	0,8
Hallertauer	678	671	-7	4,1	4,5	0,4
Tettninger	732	718	-14	3,8	4,3	0,5
Spalter Select	611	608	-3	4,4	5,2	0,8
Saphir	492	449	-43	3,3	4,2	0,9
Mand. Bavaria	298	278	-20	7,9	8,6	0,7
North. Brewer	279	266	-13	8,1	9,1	1,0
Amarillo	206	178	-28			
Spalter	118	113	-5	3,9	4,7	0,8
Alpha						
Herkules	6 554	6 717	163	16,2	16,6	0,4
Hall. Magnum	1 954	1 918	-36	12,3	14,2	1,9
Hall.Taurus	228	211	-17	16,1	15,5	-0,6
Nugget	123	123	0	10,6	11,0	0,4
Polaris	275	340	65	19,4	20,6	1,2

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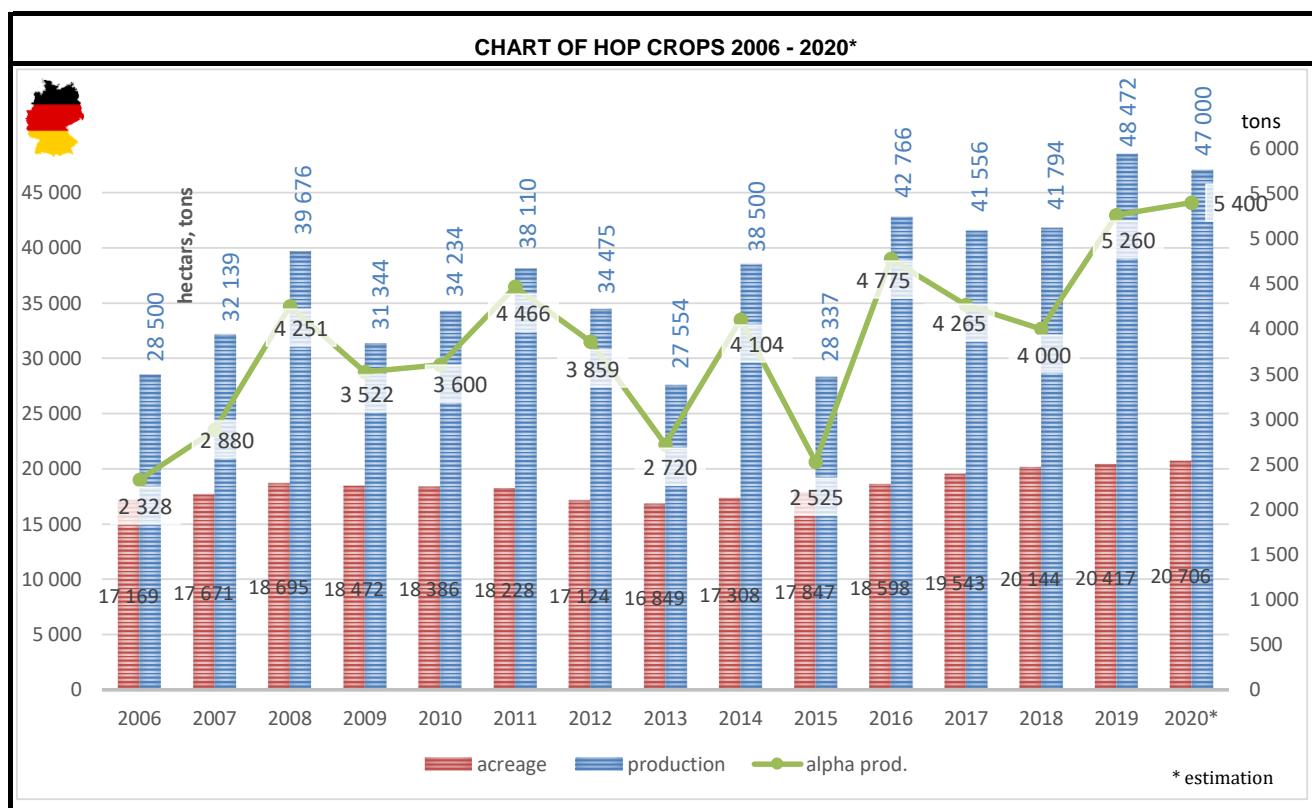
IHGC-Economic Committee: November 2020 - Video-Call

Country:
Germany

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons	43 506	41 097	40 113	37 186	33 056	30 908
% Crop / Year N	93	87	85	79	70	66

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops		0,00	0,00	0,00
% unsold Hops		0	0	0

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops	7,86	9,26		17,80	Farmer Price
Alpha Hops	7,59	10,24		34,90	Farmer Price
Average Price	7,77	9,69		24,70	Farmer Price
Contract Prices					
Aroma Hops	6,02	6,36		5,60	Farmer Price
Alpha Hops	4,84	5,26		8,70	Farmer Price
Average Price	5,37	5,75		7,10	Farmer Price
Average Prices					
Aroma Hops	6,23	6,83		9,60	Farmer Price
Alpha Hops	4,97	5,8		16,70	Farmer Price
AVERAGE	5,58	6,28		12,50	Farmer Price



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020
O-Hop Area (Ha)	140	170
O-Production (MT)	190	230

Main O-varieties
HAT/PER/SSE

Country, Date:
Germany

04.11.2020

Member Organization(s):
gez. Krieglmeier

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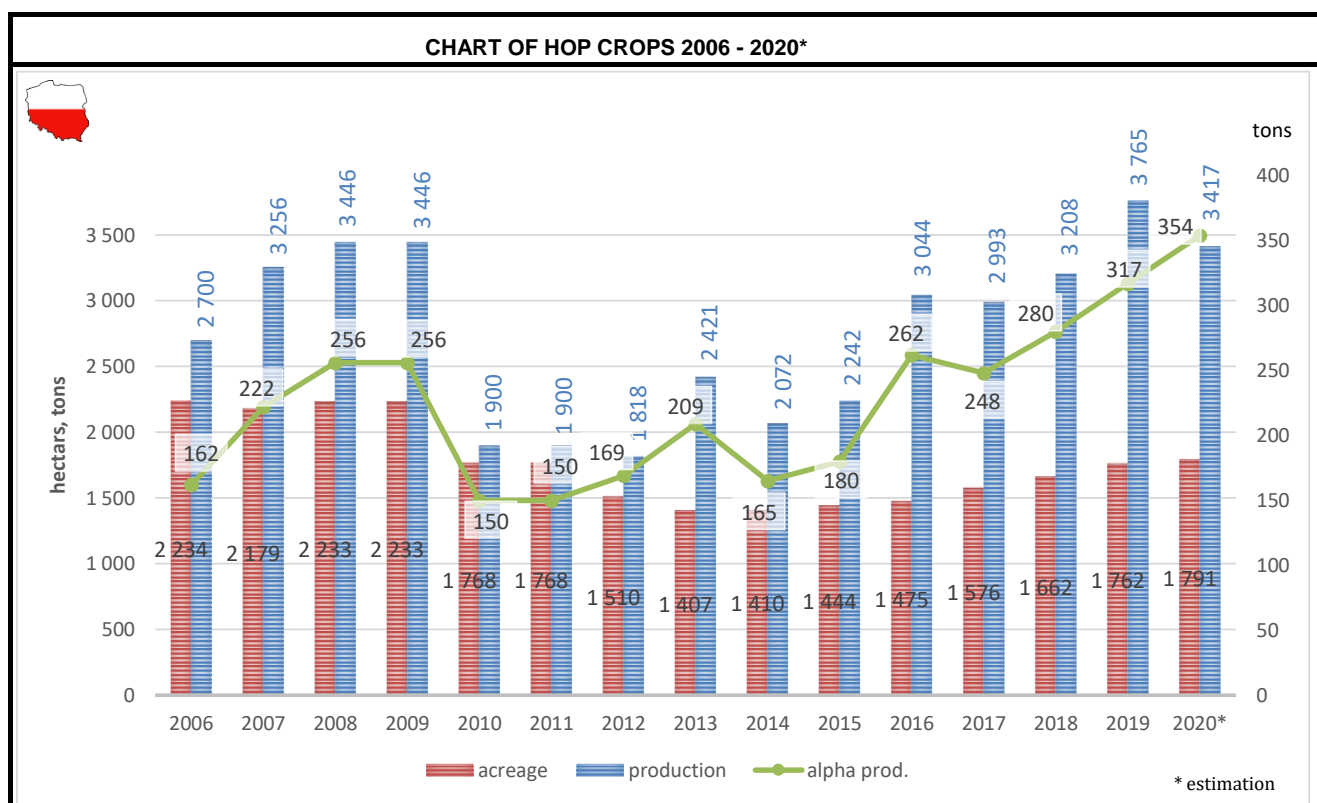
IHGC-Economic Committee: November 2020 - Video-Call

Country: Poland

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N	85	75	50	30	30	

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops				
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops	4,65	4,9			Farmers price
Alpha Hops	5,81	5,9			Farmers price
Average Price	5,23	5,4			Farmers price
Contract Prices					
Aroma Hops	4,65	4,65	4,6		Farmers price
Alpha Hops	4,19	4,19	4,4		Farmers price
Average Price	4,42	4,42	4,5		Farmers price
Average Prices					
Aroma Hops	4,65	4,77			Farmers price
Alpha Hops	5	5,1			Farmers price
AVERAGE	4,83	4,91			Farmers price



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

Overall 680 hop growers in Poland. Average size of plantations is 2,6 ha. Marynka (MAR) is not calculated in average alphas for bitter varieties. Numbers in report come from official report from Ministry of Agriculture in Poland (excluding estimations).

	Year N-1	Year N 2020		Main O-varieties		
O-Hop Area (Ha)	9,5	11,5	(2ha in conversion)	HMG	MAR	PUL
O-Production (MT)	11,00	11,00		MGN	CAS	

Country, Date: 02.11.2020 Poland

Member Organization(s): Jan Szalas ZPPCh

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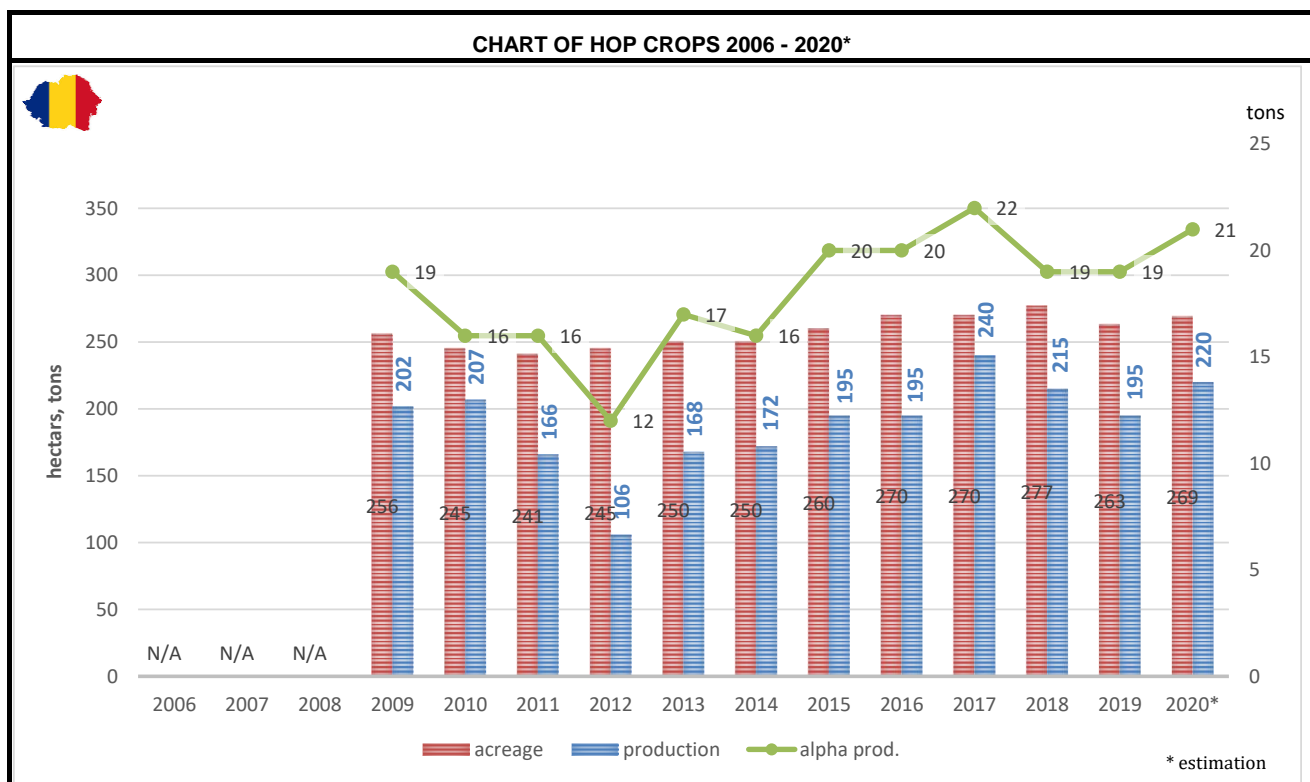
IHGC-Economic Committee: November 2020 - Video-Call

Country:
Romania

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons	280	300	320	330	340	350
% Crop / Year N	100	100	100	100	100	100

Unsold Hops (MT) : Crop Year (N-1)	2020	Aroma	Alpha	Total
= Unsold Hops				
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE					



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020	Main O-varieties
O-Hop Area (Ha)			
O-Production (MT)			

Country, Date:
3 NOV 2020

Member Organization(s):
Acatiu Mora

International Hop Growers' Convention

IHGC-Economic Committee: November 2020 - Video-Call

Country:

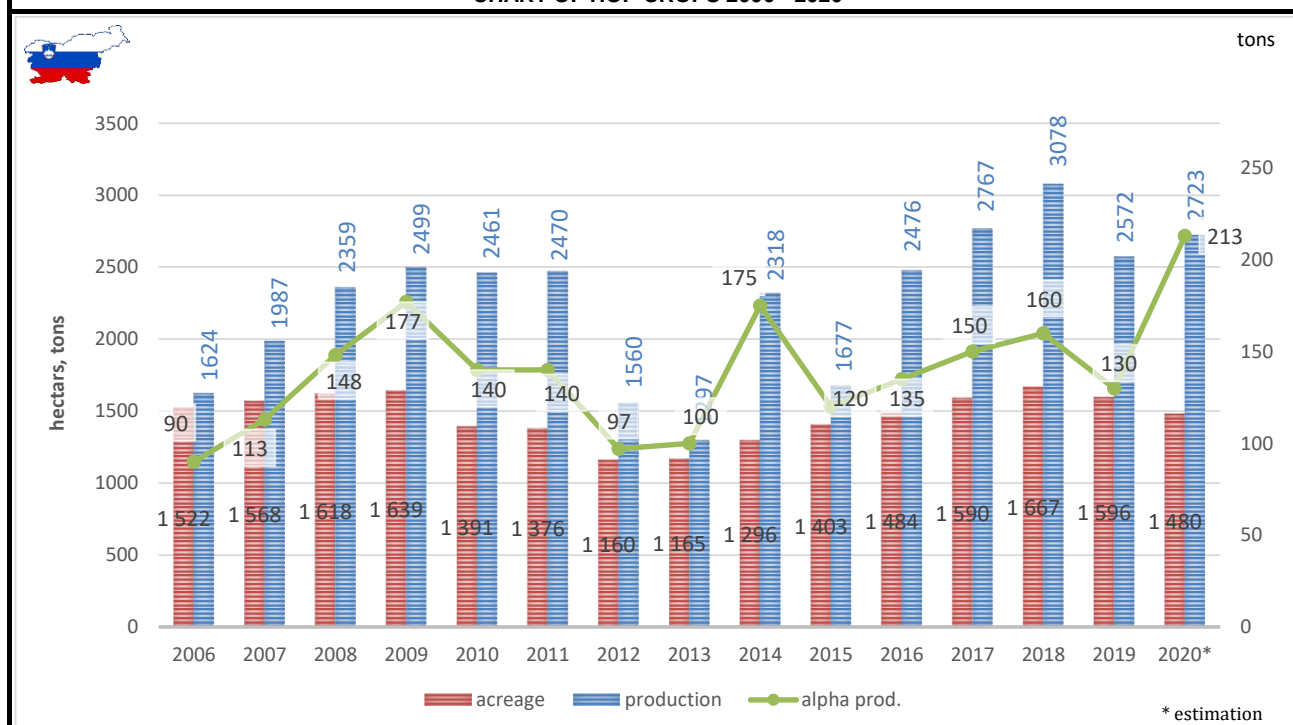
Slovenia

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N	90	80	75	70	N.A.	N.A.

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops				
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Average Prices	7	7,5			
Aroma Hops					
Alpha Hops					
AVERAGE					

CHART OF HOP CROPS 2006 - 2020*



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

Overall is a good crop. In terms of quality, it's above the 10-year average. There were good weather conditions, enough precipitation and favourable temperatures during the growing season.

	Year N-1	Year N 2020
O-Hop Area (Ha)	1	1
O-Production (MT)		

Main O-varieties

Styrian Gold

Country, Date:
Slovenia, November 4, 2020

Member Organization(s):
Hop Growers of Slovenia /
Hmezad exim / Inbarco

International Hop Growers' Convention

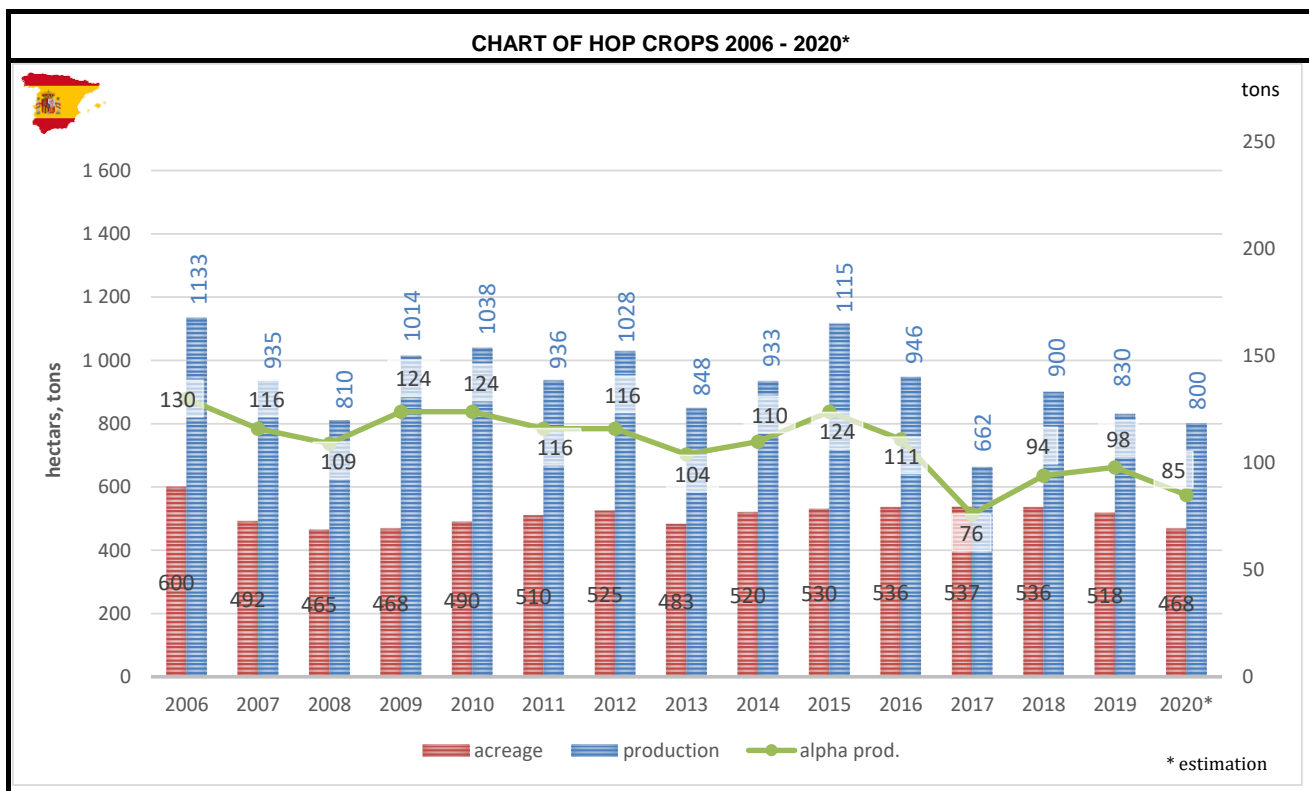
IHGC-Economic Committee: November 2020 - Video-Call

Country:
Spain

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N						

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops				
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE					



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020	Main O-varieties
O-Hop Area (Ha)			
O-Production (MT)			

Country, Date:
SPAIN, 09/11/20

Member Organization(s):
LÚPULOS DE LEON

International Hop Growers' Convention

IHGC-Economic Committee: November 2020 - Video-Call

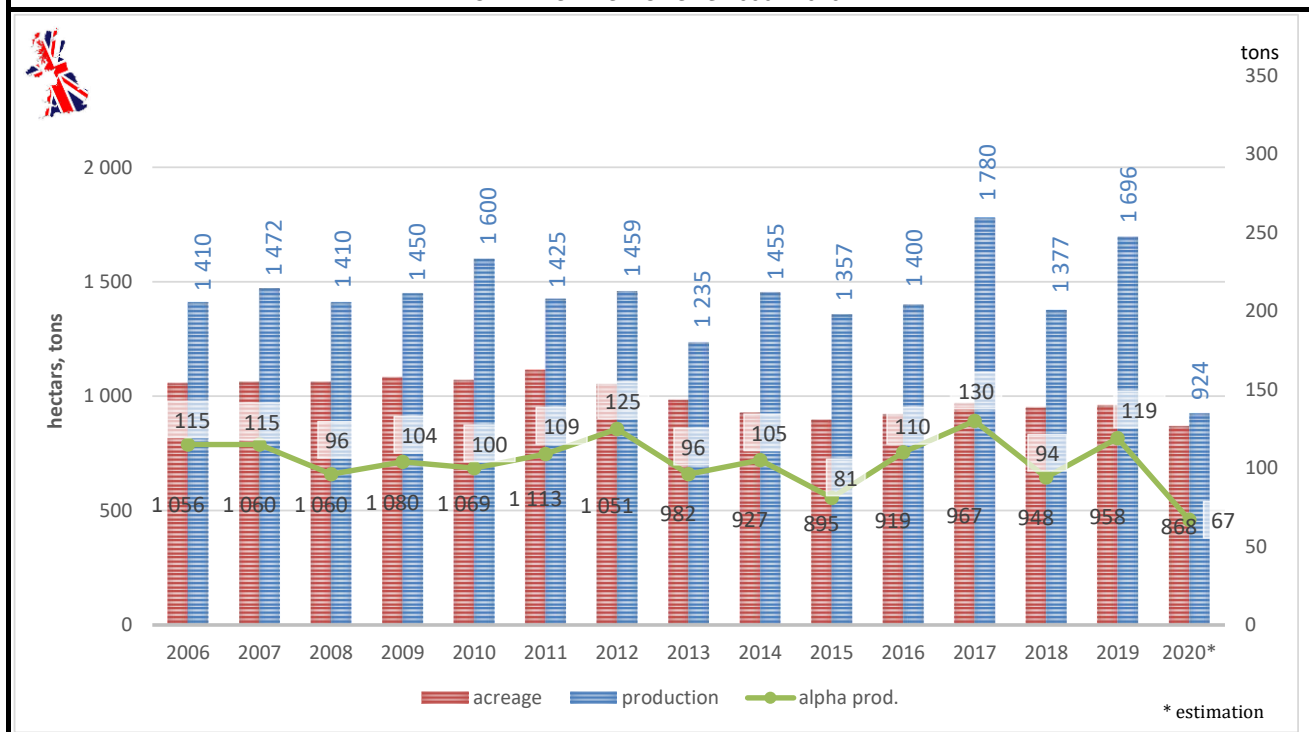
Country:
UK

Contract	Year N	Year N+1	Year N+2	Year N+3	Year N+4	Year N+5
Situation	2020	2021	2022	2023	2024	2025
Metric tons						
% Crop / Year N	70	40	25	14	10	

Unsold Hops (MT) : Crop Year (N-1)	2019	Aroma	Alpha	Total
= Unsold Hops		0	0	
% unsold Hops				

Hop Prices Euro / Kg	Year (N-2) 2018	Year (N-1) 2019	Year (N) 2020	% Diff. N vs. (N-1)	Kind of Price
Spot Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Contract Prices					
Aroma Hops					
Alpha Hops					
Average Price					
Average Prices					
Aroma Hops					
Alpha Hops					
AVERAGE					

CHART OF HOP CROPS 2006 - 2020*



COMMENTS ON HOP PRODUCTION AND MARKET SITUATION / ORGANIC HOPS

	Year N-1	Year N 2020
O-Hop Area (Ha)	4,2	5,95
O-Production (MT)	1,80	2,20

Main O-varieties

Sovereign
Merlin

Country, Date:
05.11.2020

Member Organization(s):
British Hop Association

International Hop Growers' Convention

IHGC-Economic Committee: November 2020 - Video-Call

Country:

USA

Hop Area (Ha = Hectares)	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	18 005	19 682	1 677	9,3
Alpha	5 842	5 272	-570	-9,8
Total	23 847	24 954	1 107	4,6

New Hop Area (Ha)	Year N-1 2019	Year N 2020 (estimate)
Aroma		
Alpha		
Total		

TOTAL Hop Area (Ha)	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	18 005	19 682	1 677	9,3
Alpha	5 842	5 272	-570	-9,8
Total	23 847	24 954	1 107	4,6

Production MT=Metric Tons	Year N-1 2019	Year N 2020 (estimate)	Difference N - (N-1)	Difference %
Aroma	35 160	35 516	356	1,0
Alpha	16 115	12 522	-3 593	-22,3
Total	51 275	48 038	-3 237	-6,3

Yield MT/Ha	Year N-1 2019	Year N 2020 (estimate)	Difference %
Aroma	1,95	1,80	-7,6
Alpha	2,76	2,38	-13,9
Total	2,15	1,93	-10,5

Alpha Prod.	Year N-1	2019	Year N	2020	Difference	N-(N-1)
Metric Tons	Metric Tons	Av. Contents	Metric Tons	Av. Contents	Metric Tons	Av. Contents
		%	(estimate)	%		%
Aroma						
Alpha						
Total	5 755	11,2	6 075	12,6		

Main Varieties (Ha = Hectares)	Year N-1 Total Acreage	Year N Total Acreage	Difference	Year N-1 Alpha %	Year N Alpha %	Difference N-(N-1)
Aroma						
Amarillo®, VGXP01	874	855	-19			
Cascade	2 137	1 618	-519			
Centennial	1 468	1 166	-302			
Chinook	958	775	-183			
Citra®, HBC 394	3 656	4 533	877			
El Dorado®	389	650	261			
Mosaic®, HBC 369	1 710	2 250	540			
Sabro™, HBC 438	274	476	202			
Simcoe®, YCR 14	1 766	1 675	-91			
Other PNW Aroma	3 550	4 701	1 151			
Non-PNW Aroma	869	983	114			
Total Aroma	17 651	19 682	2 031			
Alpha						
Apollo™	238	310	72			
CTZ	2 608	2 545	-63			
Eureka™	172	282	110			
Galena	166	98	-68			
Nugget	475	375	-100			
Pahto® HBC 682	839	875	36			
Summit™	434	259	-175			
Super Galena™	223	228	5			
Other PNW Alpha	296	191	-105			
Non-PNW Alpha	97	109	12			
Total Alpha	5 548	5 272	-276			

