



# USA Hops

# 2004

## *STATISTICAL REPORT*

PRESENTED: JANUARY 27, 2004  
49<sup>TH</sup> ANNUAL HGA CONVENTION  
GLENEDEN BEACH, OREGON

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Conversions used while compiling  
the data presented in this document:

1 hectare = 2.4711 acres  
 1 acre = 0.405 hectares  
 1 kilogram = 2.2046 pounds  
 1 pound = 0.45 kilograms  
 1 metric tonne = 2204.6 pounds  
 1 hectoliter = 21.997 gallons  
 1 zentner = 110.23 pounds

Report prepared by: Douglas MacKinnon, Executive Director – Hop Growers of America, Inc.  
 Hop Growers of America, Inc., P.O. Box 9218, Yakima, WA. 98909, USA  
 Telephone (509) 248-7043 Fax: (509) 248-7044  
 Website: [www.usahops.org](http://www.usahops.org) e-mail: [doug@usahops.org](mailto:doug@usahops.org)

## Statistical Overview

	1994	2004	Change 94/2004	% Change 94/2004
<b>HOP PRODUCTION (POUNDS)</b>				
United States	74,560,000	55,203,900	-19,356,100	-25.96%
Germany	62,687,000	73,854,000	11,167,000	+17.81%
World	262,056,000	203,259,100	-58,796,900	-22.44%
<b>IHGC AROMA ACREAGE</b>				
United States	16,388	11,411	-4,977	-30.37%
Germany	33,509	23,122	-10,387	-31.00%
World	112,541	62,312	-50,229	-44.63%
<b>IHGC ALPHA ACREAGE</b>				
United States	26,005	16,608	-9,397	-36.14%
Germany	20,640	18,276	-2,364	-11.45%
World	65,319	56,229	-9,090	-13.92%
<b>IHGC TOTAL HOP ACREAGE</b>				
United States	42,405	28,020	-14,385	-33.92%
Germany	54,148	43,168	-10,980	-20.28%
World	177,859	119,943	-57,916	-32.56%
<b>U.S. CROP QUALITY (%)</b>				
Leaf & Stem Content	0.75	0.10	-0.65	-
Seed Content	0.54	0.56	+0.02	-
<b>ALPHA ACID PRODUCTION (POUNDS)</b>				
United States	8,558,257	6,393,000	-2,165,257	-25.30%
Germany	2,610,246	6,426,000	3,815,754	+146.18%
World	20,513,803	17,945,444	-2,568,359	-12.52%
<b>BEER PRODUCTION (Million HL)</b>				
United States	202.1	238	36	+17.76%
China	119.3	277	158	+132.19%
World	1041.2	1545.3	504	+48.42%
<b>U.S. HOP EXPORTS (POUNDS)</b>				
Germany	7,628,799	9,017,778	1,388,979	+18.21%
Mexico	5,567,498	8,649,165	3,081,667	+55.35%
Belgium-Luxembourg	1,515,222	8,607,057	7,091,835	+468.04%
Canada	3,271,848	5,855,691	2,583,843	+78.97%
Total	51,083,839	66,496,851	15,413,012	+30.17%
<b>U.S. HOP IMPORTS (POUNDS)</b>				
Germany	7,579,000	11,097,000	3,518,000	+46.42%
France	1,224,000	4,589,000	3,365,000	+274.92%
China	45,000	0	-45,000	-100.00%
Total Imports	12,767,000	19,799,000	7,032,000	+55.08%

**U.S. HOP PRODUCTION BY STATE AND VARIETY 2000 – 2004**

STATE & VARIETY	HOP PRODUCTION (POUNDS)					2004
	2000	2001	2002	2003	2004	% +/-
<b>IDAHO</b>						
Chinook	340,000	195,200	-	-	-	-
Cluster	384,700	363,400	-	-	-	-
Galena	971,000	823,500	-	-	-	-
Mt. Hood	106,000	38,400	-	-	-	-
Nugget	136,000	81,000	-	-	-	-
Willamette	297,600	231,500	-	-	-	-
Zeus	824,500	893,000	-	-	-	-
Other Varieties	1,870,000	1,983,300	-	-	-	-
<b>Total Idaho</b>	<b>4,929,800</b>	<b>4,609,300</b>	<b>5,519,600</b>	<b>5,266,300</b>	<b>5,165,000</b>	<b>-1.92%</b>
<b>OREGON</b>						
Cascade	-	-	320,500	-	126,800	-
Glacier	-	-	-	165,800	369,600	+122.92%
Golding	134,600	2/	-	94,600	137,400	+45.24%
Liberty	-	-	52,800	-	-	-
Millennium	1/	300,700	631,900	-	536,000	-
Mt. Hood	447,500	506,300	420,100	340,400	348,400	+2.35%
Nugget	4,989,500	5,545,300	3,996,900	3,316,400	2,866,000	-13.58%
Perle	454,300	665,300	525,700	461,800	343,800	-25.55%
Sterling	105,700	187,900	163,000	168,400	268,400	+59.38%
Willamette	3,318,000	3,463,600	2,921,500	3,045,000	3,277,200	+7.63%
Other Varieties	847,800	774,100	405,600	1,755,200	338,400	-80.72%
<b>Total Oregon</b>	<b>10,387,000</b>	<b>11,443,200</b>	<b>9,438,000</b>	<b>9,347,600</b>	<b>8,612,000</b>	<b>-7.87%</b>
<b>WASHINGTON</b>						
Cascade	1,798,800	1,790,400	2,125,600	3,833,000	2,852,500	-25.58%
Chelan	2/	573,500	652,200	458,100	498,000	+8.71%
Chinook	1,311,200	918,600	802,600	862,100	934,800	+8.43%
Cluster	1,875,200	1,045,600	958,100	861,300	913,300	+6.04%
Columbus/Tomahawk	11,778,000	12,253,100	10,534,800	7,515,800	7,745,200	+3.05%
Galena	9,538,200	7,345,600	6,170,300	5,466,400	6,355,600	+16.27%
Golding	39,500	55,400	30,900	24,600	35,600	+44.72%
Hallertauer	2/	73,600	90,700	46,900	48,600	+3.62%
Horizon	395,000	414,900	474,800	193,100	-	-
Magnum	118,000	59,800	-	-	-	-
Millennium	2/	2,815,100	3,417,800	3,142,100	2,629,000	-16.33%
Mt. Hood	420,900	376,300	136,100	47,200	54,100	+14.62%
Northern Brewer	-	124,500	193,200	114,100	142,100	+24.54%
Nugget	8,522,200	8,086,500	2,698,400	1,727,700	1,672,900	-3.17%
Perle	215,900	226,300	120,200	95,600	58,500	-38.81%
Tettnanger	2/	63,500	61,300	-	-	-
Tillicum	2/	677,500	402,600	451,100	-	-
Vanguard	2/	74,100	-	-	-	-
Willamette	4,888,400	4,674,400	5,025,500	4,855,100	4,997,800	+2.94%
YCR5 (Warrior TM)	2/	2,670,100	2,099,500	2,640,500	1,823,900	-30.93%
Zeus	5,381,800	5,834,400	6,779,100	6,775,000	9,071,900	+33.90%
Other Alpha	4,162,600	281,811	362,500	*	*	-
Other Aroma	374,000	224,542	160,800	*	*	-
Other	1,439,700	119,924	82,000	841,500	1,591,900	+89.17%
<b>Total Washington</b>	<b>52,260,000</b>	<b>50,779,600</b>	<b>43,379,000</b>	<b>39,951,200</b>	<b>41,426,900</b>	<b>+3.69%</b>
<b>Total United States</b>	<b>67,576,800</b>	<b>66,832,100</b>	<b>58,336,600</b>	<b>54,565,100</b>	<b>55,203,900</b>	<b>+1.17%</b>

SOURCE: U.S.D.A. Prepared by HGA. – 1/ unknown or none; 2/ Included in the category "other varieties" to avoid disclosure of individual operations. \*Beginning in this report, other varieties can no longer be broken down into alpha and aroma.

**U.S. HOP ACREAGE BY STATE AND VARIETY 2000 – 2004**

STATE & VARIETY	ACRES HARVESTED					2004
	2000	2001	2002	2003	2004	% +/-
<b>IDAHO</b>						
Chinook	170	120	-	-	-	-
Cluster	198	234	-	-	-	-
Galena	535	552	-	-	-	-
Mt. Hood	53	32	-	-	-	-
Nugget	68	54	-	-	-	-
Willamette	194	215	-	-	-	-
Zeus	403	477	-	-	-	-
Other Varieties	1,700	1,785	-	-	-	-
<b>Total Idaho</b>	<b>3,321</b>	<b>3,469</b>	<b>3,399</b>	<b>3,429</b>	<b>3,253</b>	<b>-5.13%</b>
<b>OREGON</b>						
Cascade	-	-	217	-	91	-
Glacier	-	-	-	245	243	-0.82%
Golding	115	2/	-	95	105	+10.53%
Liberty	-	-	36	-	-	-
Millennium	1/	117	421	-	264	-
Mt. Hood	250	257	243	217	215	-0.92%
Nugget	2,308	2,268	1,967	1,529	1,286	-15.89%
Perle	402	491	452	450	259	-42.44%
Sterling	62	91	86	84	222	+164.29%
Willamette	2,142	2,434	1,912	2,224	2,175	-2.20%
Other Varieties	460	445	243	904	247	-72.68%
<b>Total Oregon</b>	<b>5,819</b>	<b>6,103</b>	<b>5,577</b>	<b>5,748</b>	<b>5,107</b>	<b>-11.15%</b>
<b>WASHINGTON</b>						
Cascade	996	1,003	1,216	2,120	1,422	-32.92%
Chelan	2/	317	295	180	201	+11.67%
Chinook	670	535	422	453	492	+8.61%
Cluster	939	534	480	430	449	+4.42%
Columbus/Tomahawk	4,594	4,915	3,663	2,738	3,029	+10.63%
Galena	5,044	4,375	3,239	2,856	3,417	+19.64%
Golding	36	45	26	22	36	+63.64%
Hallertauer	2/	76	76	53	46	-13.21%
Horizon	316	339	337	135	-	-
Magnum	73	42	-	-	-	-
Millennium	2/	1,382	1,455	1,386	1,124	-18.90%
Mt. Hood	367	333	97	32	39	+21.88%
Northern Brewer	-	97	107	65	65	+0.00%
Nugget	4,597	4,109	1,288	918	807	-12.09%
Perle	275	209	124	104	47	-54.81%
Tettnanger	-	60	48	-	-	-
Tillicum	2/	369	194	194	-	-
Vanguard	2/	54	-	-	-	-
Willamette	3,563	3,571	3,639	3,645	3,542	-2.83%
YCR5 (Warrior TM)	2/	1,370	988	1,242	793	-36.15%
Zeus	1,994	2,186	2,265	2,333	2,903	+24.43%
Other Alpha	2,363	157	203	*	*	-
Other Aroma	330	163	120	*	*	-
Other	824	98	51	586	970	+65.53%
<b>Total Washington</b>	<b>26,980</b>	<b>26,339</b>	<b>20,333</b>	<b>19,492</b>	<b>19,382</b>	<b>-0.56%</b>
<b>Total United States</b>	<b>36,120</b>	<b>35,911</b>	<b>29,309</b>	<b>28,669</b>	<b>27,742</b>	<b>-3.23%</b>

SOURCE: U.S.D.A. Prepared by HGA. - 1/ unknown or none; 2/ Included in the category "other varieties" to avoid disclosure of individual operations. \*Beginning in this report, other varieties can no longer be broken down into alpha and aroma.

**U.S. HOP YIELDS BY STATE AND VARIETY 2000 – 2004**

STATE & VARIETY	YIELDS (POUNDS PER ACRE)					2004
	2000	2001	2002	2003	2004	% +/-
<b>IDAHO</b>						
Chinook	2,000	1,627	-	-	-	-
Cluster	1,943	1,553	-	-	-	-
Galena	1,815	1,492	-	-	-	-
Mt. Hood	2,000	1,200	-	-	-	-
Nugget	2,000	1,500	-	-	-	-
Willamette	1,534	1,077	-	-	-	-
Zeus	2,046	1,872	-	-	-	-
Other Varieties	1,100	1,111	-	-	-	-
<b>Total Idaho</b>	<b>1,484</b>	<b>1,329</b>	<b>1,624</b>	<b>1,536</b>	<b>1,588</b>	<b>+3.39%</b>
<b>OREGON</b>						
Cascade	-	-	1,477	-	1,393	-
Glacier	*	*	-	677	1,521	+124.67%
Golding	1,170	2/	-	996	1,309	+31.43%
Liberty	-	-	1,467	-	-	-
Millennium	1/	2,570	1,501	-	2,030	-
Mt. Hood	1,790	1,970	1,729	1,569	1,620	+3.25%
Nugget	2,162	2,445	2,032	2,169	2,229	+2.77%
Perle	1,130	1,355	1,163	1,026	1,327	+29.34%
Sterling	1,705	2,065	1,895	2,005	1,209	-39.70%
Willamette	1,549	1,423	1,528	1,369	1,507	+10.08%
Other Varieties	1,843	1,740	1,669	1,942	1,370	-29.45%
<b>Total Oregon</b>	<b>1,785</b>	<b>1,875</b>	<b>1,692</b>	<b>1,626</b>	<b>1,686</b>	<b>+3.69%</b>
<b>WASHINGTON</b>						
Cascade	1,806	1,785	1,748	1,808	2,006	+10.95%
Chelan	2/	1,809	2,211	2,545	2,482	-2.48%
Chinook	1,957	1,717	1,902	1,903	1,900	-0.16%
Cluster	1,997	1,958	1,996	2,003	2,034	+1.55%
Columbus/Tomahawk	2,564	2,493	2,876	2,745	2,557	-6.85%
Galena	1,891	1,679	1,905	1,914	1,860	-2.82%
Golding	1,098	1,231	1,188	1,118	989	-11.54%
Hallertauer	2/	968	1,193	885	1,057	+19.44%
Horizon	1,250	1,224	1,409	1,430	-	-
Magnum	1,616	1,424	-	-	-	-
Millennium	2/	2,037	2,349	2,267	2,339	+3.18%
Mt. Hood	1,147	1,130	1,272	1,475	1,387	-5.97%
Northern Brewer	-	1,284	1,992	1,755	2,191	+24.84%
Nugget	1,854	1,968	2,095	1,882	2,073	+10.15%
Perle	785	1,083	969	919	1,245	+35.47%
Tettnanger	-	1,058	1,277	-	-	-
Tillicum	2/	1,836	2,075	2,325	-	-
Vanguard	2/	1,372	-	-	-	-
Willamette	1,372	1,309	1,381	1,332	1,411	+5.93%
YCR5 (Warrior TM)	2/	1,949	2,125	2,126	2,300	+8.18%
Zeus	2,699	2,669	2,993	2,904	3,125	+7.61%
Other Alpha	2,050	1,648	1,619	*	*	-
Other Aroma	1,134	1,378	1,340	*	*	-
Other	1,748	1,224	1,610	1,436	1,641	+14.28%
<b>Total Washington</b>	<b>1,937</b>	<b>1,928</b>	<b>2,133</b>	<b>2,050</b>	<b>2,137</b>	<b>+4.24%</b>
<b>Total United States</b>	<b>1,871</b>	<b>1,861</b>	<b>1,990</b>	<b>1,903</b>	<b>1,990</b>	<b>+4.57%</b>

SOURCE: U.S.D.A. Prepared by HGA. – 1/ unknown or none; 2/ Included in the category "other varieties" to avoid disclosure of individual operations. \*Beginning in this report, other varieties can no longer be broken down into alpha and aroma.

**U.S. HOP ACREAGE BY STATE 1994 – 2004 (IN ACRES)**

YEAR	WASHINGTON	OREGON	IDAHO	TOTAL
1994	30,375	8,000	4,037	42,412
1995	30,621	8,641	3,927	43,189
1996	31,678	8,486	3,997	44,161
1997	31,080	8,352	3,870	43,302
1998	26,573	6,161	3,909	36,643
1999	25,076	5,822	3,362	34,260
2000	26,980	5,819	3,321	36,120
2001	26,339	6,103	3,469	35,911
2002	20,333	5,577	3,399	29,309
2003	19,492	5,748	3,429	28,669
2004	19,382	5,107	3,253	27,742

SOURCE: USDA. Prepared by HGA

**U.S. AVERAGE HOP YIELD 1994 – 2004**

YEAR	POUNDS PER ACRE			
	WASHINGTON	OREGON	IDAHO	TOTAL U.S.
1994	1,800	1,715	1,527	1,758
1995	1,930	1,595	1,520	1,826
1996	1,820	1,383	1,400	1,698
1997	1,796	1,625	1,417	1,729
1998	1,686	1,660	1,159	1,625
1999	1,980	1,730	1,408	1,884
2000	1,937	1,785	1,484	1,871
2001	1,928	1,875	1,329	1,861
2002	2,133	1,692	1,624	1,990
2003	2,050	1,626	1,536	1,903
2004	2,137	1,686	1,588	1,990

SOURCE: USDA. Prepared by HGA

**U.S. HOPS: SEASON AVERAGE PRICE & TOTAL CROP VALUE**

Marketing Year	SEASON AVERAGE PRICE				U.S. Production (Pounds x 1,000)	Total Crop Value (x 1,000)
	Washington	Oregon	Idaho	U.S.		
	----- (\$ / pound) -----					
1989	\$1.33	\$1.58	\$1.26	\$1.38	59,326	\$81,583
1990	\$1.44	\$1.63	\$1.50	\$1.48	56,855	\$84,178
1991	\$1.68	\$1.71	\$1.59	\$1.68	69,155	\$115,997
1992	\$1.72	\$1.86	\$1.69	\$1.74	74,337	\$129,096
1993	\$1.72	\$1.95	\$1.77	\$1.76	76,144	\$133,965
1994	\$1.77	\$1.96	\$1.79	\$1.81	74,560	\$134,701
1995	\$1.68	\$1.90	\$1.61	\$1.71	78,852	\$135,087
1996	\$1.63	\$1.81	\$1.49	\$1.65	74,970	\$123,530
1997	\$1.60	\$1.68	\$1.41	\$1.60	74,872	\$119,840
1998	\$1.64	\$1.98	\$1.55	\$1.69	59,548	\$100,728
1999	\$1.63	\$2.04	\$1.61	\$1.69	64,455	\$109,099
2000	\$1.82	\$2.19	\$1.78	\$1.87	67,576	\$126,217
2001	\$1.81	\$2.15	\$1.59	\$1.91	66,832	\$123,843
2002	\$1.95	\$2.13	\$1.58	\$1.94	58,336	\$113,413
2003	\$1.91	\$2.32	\$1.62	\$1.90	54,565	\$103,727
2004	\$1.85	\$2.31	\$1.60	\$1.90	55,203	\$104,798

SOURCE: USDA. Prepared by HGA



**2004 HOP INSPECTION REPORT**

TABLE 1. Total Number of Bales Inspected – Weighted Average of Leaf &amp; Stem in Parenthesis

YEAR	WASHINGTON (%)	OREGON (%)	IDAHO (%)	TOTAL (%)
2000	249,607 (0.11)	52,163 (0.23)	22,851 (0.01)	324,621 (0.12)
2001	250,454 (0.08)	57,321 (0.14)	22,568 (0.04)	330,343 (0.09)
2002	213,676 (0.07)	47,190 (0.32)	27,289 (0.04)	288,155 (0.11)
2003	194,751 (0.07)	46,738 (0.12)	25,802 (0.02)	267,291 (0.08)
2004	182,727 (0.08)	42,636 (0.28)	25,121 (0.01)	250,484 (0.10)

TABLE 2. Number of Bales in Each Leaf &amp; Stem Category

	0%	1%	2%	3%	4%	5%	6%	7%	TOTAL
WA	169,373	12,788	566	0	0	0	0	0	182,727
OR	31,643	10,299	647	47	0	0	0	0	42,636
ID	24,838	283	0	0	0	0	0	0	25,121
Total	225,854	23,370	1,213	47	0	0	0	0	250,484
% of Total	90	9	<1	<1	0	0	0	0	-

TABLE 3. Number of Bales in Each Seed Category

	0%	1%	2%	3%	4%	5%	6%	7+%	TOTAL
WA	139,101	25,270	8,687	4,489	1,712	1,087	812	1,589	182,727
OR	18,632	11,688	4,075	2,655	1,200	1,169	1,060	2,157	42,636
ID	24,008	373	271	469	0	0	0	0	25,121
Total	181,741	37,331	13,033	7,593	2,912	2,256	1,872	3,746	250,484
% of Total	73	15	5	3	1	1	1	1	-

SOURCE: USDA. GIPSA. Federal Grain Inspection Service

**U.S. HOP LEAF, STEM & SEED CONTENT PERCENTAGE 1994 – 2004**

Year	WASHINGTON	OREGON	IDAHO	U.S. AVERAGE %	
	Leaf & Stem	Leaf & Stem	Leaf & Stem	Leaf & Stem	Seed Content
1994	0.62	1.12	0.99	0.75	0.54
1995	0.73	1.02	0.97	0.80	0.62
1996	0.48	1.14	0.69	0.60	0.55
1997	0.52	0.64	0.66	0.55	1.15
1998	0.11	0.21	0.09	0.12	0.54
1999	0.06	0.21	0.05	0.08	1.15
2000	0.11	0.23	0.01	0.12	1.18
2001	0.08	0.14	0.04	0.09	1.06
2002	0.07	0.32	0.04	0.11	0.63
2003	0.07	0.12	0.02	0.08	0.50
2004	0.08	0.28	0.01	0.10	0.56

SOURCE: USDA Federal Grain Inspection Service. Prepared by HGA

**IHGC AROMA ACREAGE 2000 – 2004**

COUNTRY	AROMA ACREAGE (IN ACRES)					2004 % +/-
	2000	2001	2002	2003	2004	
Australia	9	7	7	7	7	+0.00%
Belgium	185	126	158	84	86	+2.38%
Bulgaria	222	222	190	178	178	+0.00%
China	237	464	464	464	464	+0.00%
Czech Rep.	14,693	13,825	13,662	13,980	13,227	-5.39%
Germany	25,612	25,360	24,309	22,269	23,122	+3.83%
France	1,809	1,837	1,886	1,857	1,717	-7.54%
New Zealand	429	452	484	580	635	+9.48%
Poland	3,580	3,333	2,647	2,222	2,193	-1.31%
Portugal	0	0	0	0	0	-
Russia	2,681	1,741	1,363	869	748	-13.92%
Slovakia	864	864	864	864	865	+0.12%
Slovenia	4,138	3,857	4,005	3,699	3,623	-2.05%
Spain	0	0	0	0	0	-
UK - England	2,797	2,896	2,647	2,094	2,043	-2.44%
Ukraine	2,370	2,617	2,160	2,560	1,882	-26.48%
USA	10,807	10,756	10,931	12,491	11,411	-8.65%
Serbia - Montenegro	321	321	321	321	116	-63.86%
South Africa	0	0	0	0	0	-
<b>IHGC Total</b>	<b>70,754</b>	<b>68,679</b>	<b>66,617</b>	<b>65,035</b>	<b>62,318</b>	<b>-4.18%</b>

SOURCE: IHGC November 2003 Report

Numbers may not total exactly due to rounding and standard/metric conversions.

**IHGC ALPHA ACREAGE 2000 – 2004**

COUNTRY	ALPHA ACREAGE (IN ACRES)					2004 % +/-
	2000	2001	2002	2003	2004	
Australia	1,997	1,923	2,072	1,077	1,317	+22.3%
Belgium	427	457	459	449	393	-12.47%
Bulgaria	641	679	400	368	368	+0.00%
China	10,592	11,160	12,314	13,467	11,234	-16.58%
Czech Rep.	355	417	304	437	506	+15.8%
Germany	17,995	18,780	18,820	18,610	18,276	-1.79%
France	125	123	109	86	91	+5.8%
New Zealand	511	521	519	472	408	-13.56%
Poland	1,851	2,099	2,778	3,284	3,285	+0.03%
Portugal	103	94	91	91	91	+0.00%
Russia	1,079	778	612	612	524	-14.38%
Slovakia	0	0	0	0	0	-
Slovenia	172	235	247	259	227	-12.36%
Spain	1,906	1,906	1,802	1,802	1,680	-6.77%
UK - England	1,859	1,790	1,790	1,444	1,237	-14.34%
Ukraine	740	840	980	1,494	1,218	-18.47%
USA	25,597	24,541	18,146	16,007	16,608	+3.75%
Serbia - Montenegro	792	793	741	602	491	-18.44%
South Africa	1,172	1,205	1,220	1,242	1,242	+0.00%
<b>IHGC Total</b>	<b>67,914</b>	<b>68,341</b>	<b>63,420</b>	<b>61,827</b>	<b>56,229</b>	<b>-9.05%</b>

SOURCE: IHGC November 2003 Report

Numbers may not total exactly due to rounding and standard/metric conversions.

**IHGC TOTAL ACREAGE 2000 – 2004**

COUNTRY	TOTAL ACREAGE (IN ACRES)					2004
	2000	2001	2002	2003	2004	% +/-
Australia	2,007	1,931	2,128	1,084	1,323	+22%
Belgium	612	602	617	533	487	-8.63%
Bulgaria	864	938	590	546	546	+0.00%
China	10,829	11,884	13,930	13,931	11,697	-16.04%
Czech Rep.	15,839	15,000	14,735	14,417	14,420	+0.02%
Germany	45,915	46,965	45,318	40,879	43,168	+5.60%
France	2,011	2,015	2,009	1,943	1,944	+0.05%
New Zealand	940	973	1,002	1,052	1,042	-0.95%
Poland	5,432	5,556	5,424	5,506	5,478	-0.51%
Portugal	103	94	91	91	91	+0.00%
Russia	3,918	2,716	2,128	1,481	1,370	-7.49%
Slovakia	864	864	864	864	865	+0.12%
Slovenia	4,614	4,462	4,484	3,958	3,982	+0.61%
Spain	2,029	1,906	1,802	1,802	1,680	-6.77%
UK - England	4,828	5,035	4,681	3,538	3,354	-5.20%
Ukraine	4,098	4,642	4,390	4,054	3,616	-10.80%
USA	36,404	35,891	29,293	28,499	28,020	-1.68%
Serbia - Montenegro	1,137	1,185	1,217	923	607	-34.24%
South Africa	1,172	1,235	1,234	1,242	1,242	+0.00%
<b>IHGC Total</b>	<b>143,616</b>	<b>144,457</b>	<b>135,944</b>	<b>126,862</b>	<b>119,943</b>	<b>-5.45%</b>

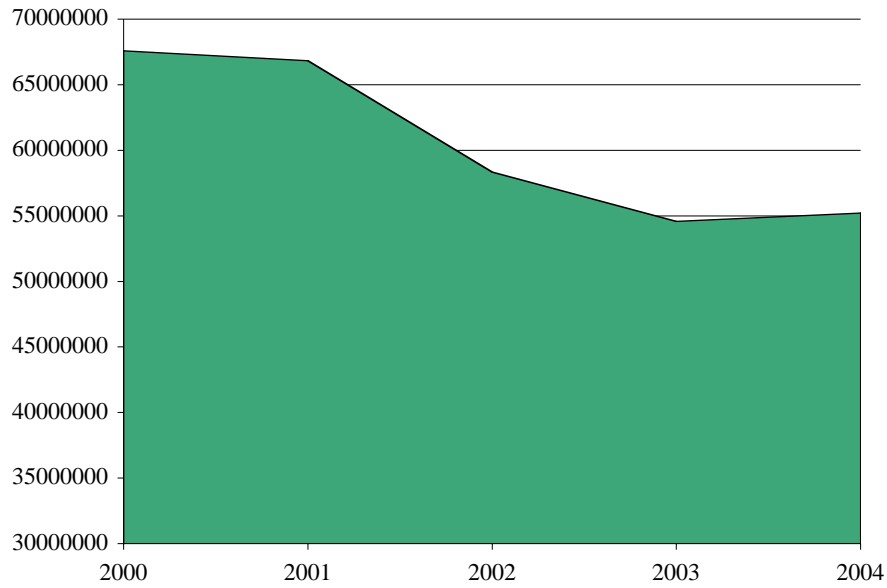
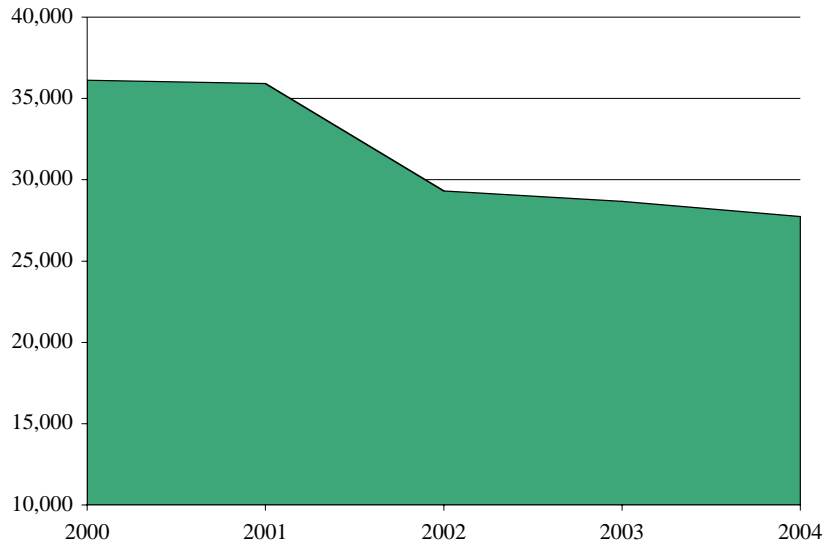
SOURCE: IHGC November 2003, 2002, 2000, 1999 Reports, IHGC Total Acreage includes baby acreage (not included in separate aroma and alpha tables. Numbers may not total exactly due to rounding and standard/metric conversions.

**2004 WORLD HOP ACREAGE AND PRODUCTION**

COUNTRY	HOP ACREAGE (acres)				HOP PRODUCTION (pounds)			
	AROMA	ALPHA	TOTAL	NEW	AROMA	ALPHA	TOTAL	Alpha MT.
Australia	7	1,317	1,323	0	4,400	3,146,000	3,150,400	174
Belgium	86	393	487	7	99,200	771,600	870,800	34.2
Bulgaria	178	368	546	0	216,100	496,000	712,100	32.6
China	464	11,234	11,697	0	661,400	25,220,600	25,882,000	759
Czech Rep.	13,227	506	14,420	687	13,117,400	771,600	13,889,000	250
Germany	23,122	18,276	43,168	1,771	39,682,800	34,171,300	73,854,100	2915
France	1,717	91	1,944	136	2,444,900	130,100	2,577,200	30.5
New Zealand	635	408	1,042	0	989,900	756,200	1,746,500	64.5
Poland	2,193	3,285	5,478	0	2,645,500	3,527,400	6,172,900	185.75
Portugal	0	91	91	0	0.0	125,700	125,700	5.5
Russia	748	524	1,370	99	381,400	368,200	749,600	17
Slovakia	865	0	865	0	776,000	0	776,000	14
Slovenia	3,623	227	3,982	131	4,563,500	698,900	5,262,400	204
Spain	0	1,680	1,680	0	0.0	3,115,100	3,115,100	153.7
UK - England	2,043	1,237	3,354	74	1,995,200	1,530,000	3,525,200	208
Ukraine	1,882	1,218	3,616	516	1,713,000	1,086,900	2,799,800	59.5
USA	11,411	16,608	28,020	0	16,732,900	38,805,400	55,538,300	2900
Serbia - Montenegro	116	491	607	0	186,000	398,000	584,000	12.1
South Africa	0	1,242	1,242	0	0.0	2,198,000	2,198,000	121
<b>2004 IHGC Totals</b>	<b>62,318</b>	<b>56,229</b>	<b>119,943</b>	<b>3,421</b>	<b>45,791,259</b>	<b>117,317,000</b>	<b>203,529,100</b>	<b>8,140.35</b>

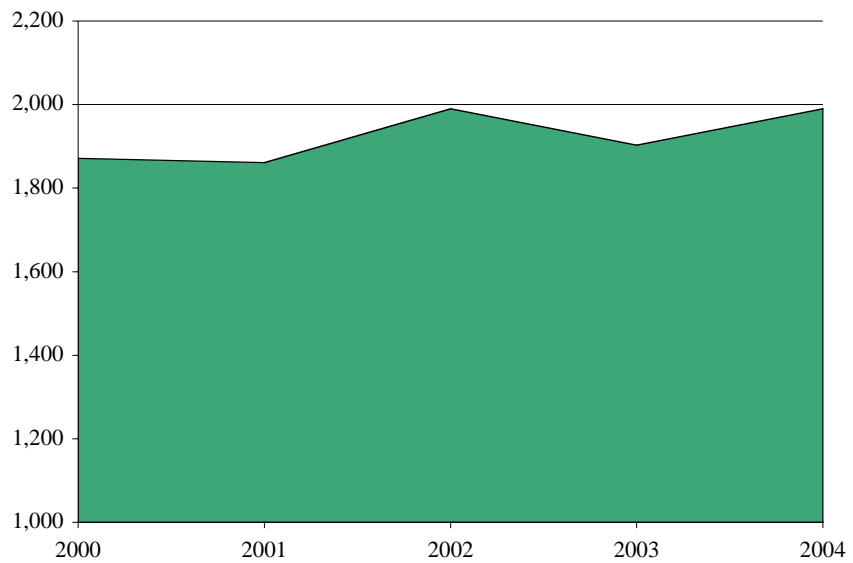
SOURCE: November 2004 IHGC Report. Some errors were corrected during preparation of this report. Numbers may not total exactly due to rounding and standard/metric conversions.

U.S. TOTAL  
ACREAGE  
2000 - 2004

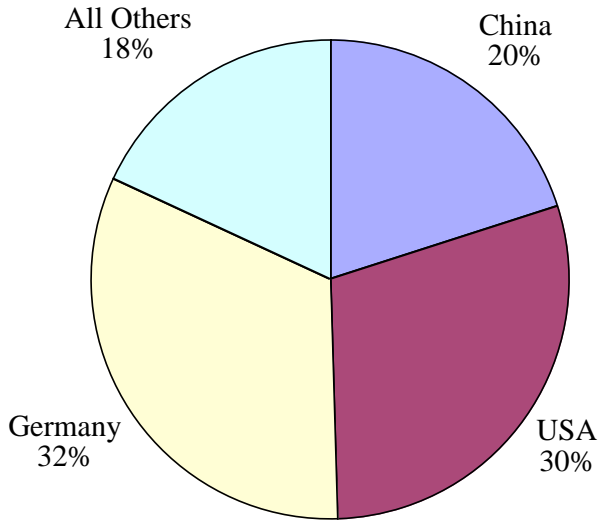


U.S. TOTAL  
PRODUCTION  
2000 - 2004

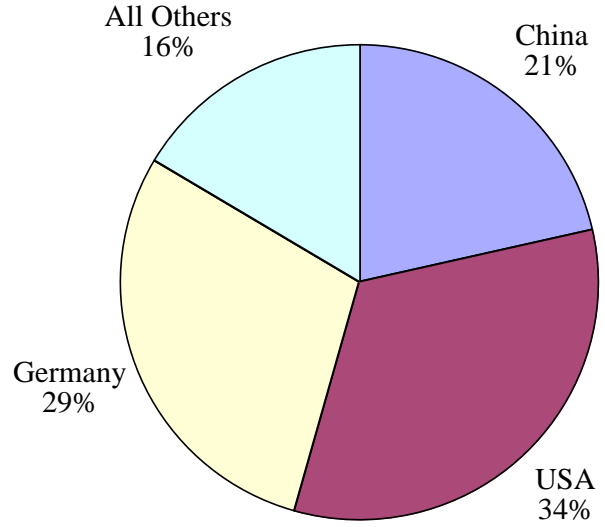
U.S.  
AVERAGE  
YIELD  
PER ACRE  
2000 - 2004



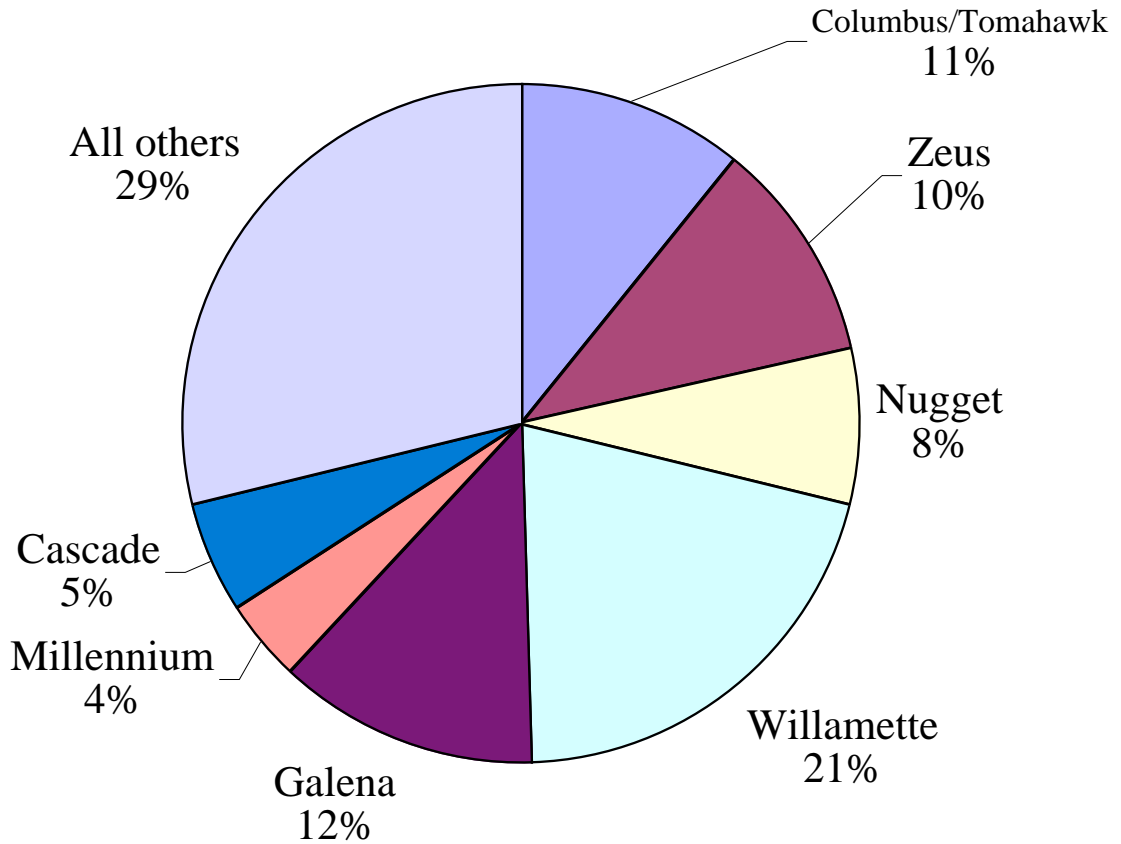
2004 ALPHA ACREAGE FOR THE 3 LARGEST PRODUCERS & THE % OF WORLD ALPHA ACREAGE THEY REPRESENT



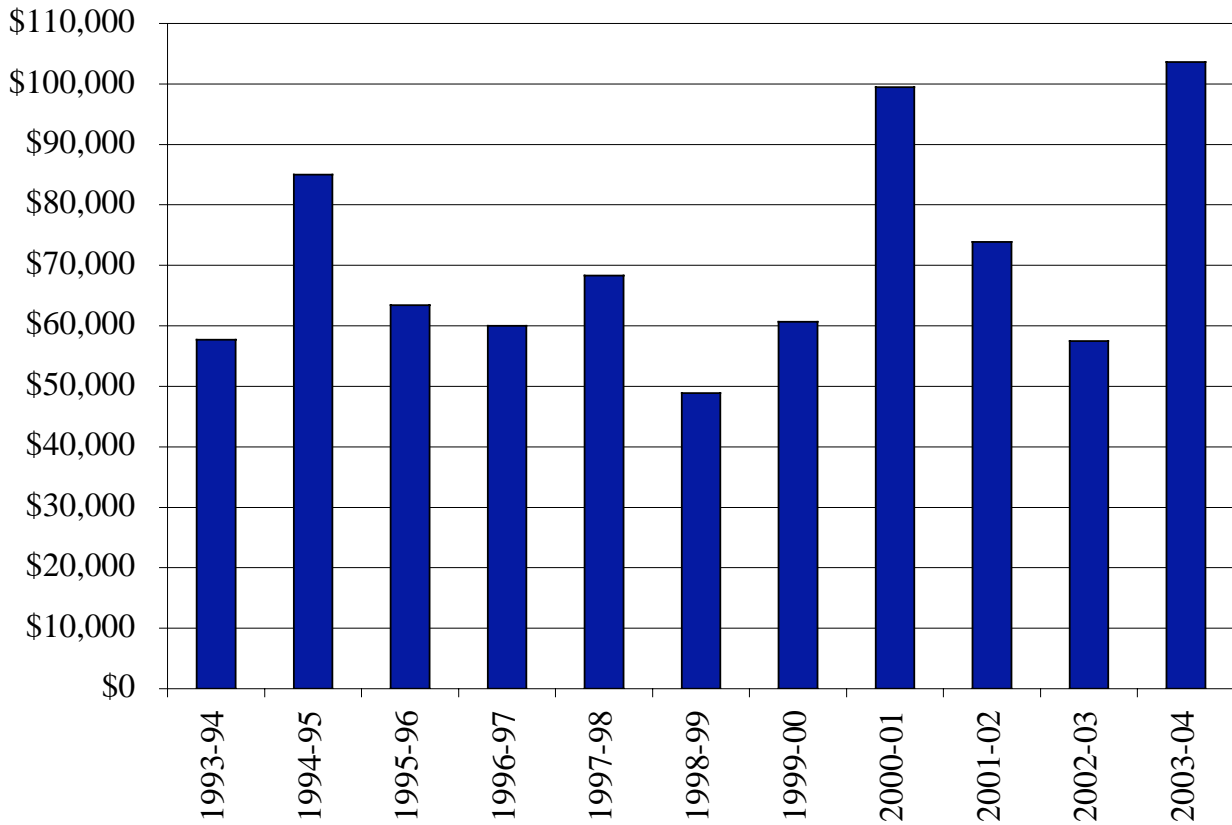
ALPHA HOP PRODUCTION FOR THE 3 LARGEST PRODUCERS & THE % OF WORLD ALPHA HOP PRODUCTION THEY REPRESENT



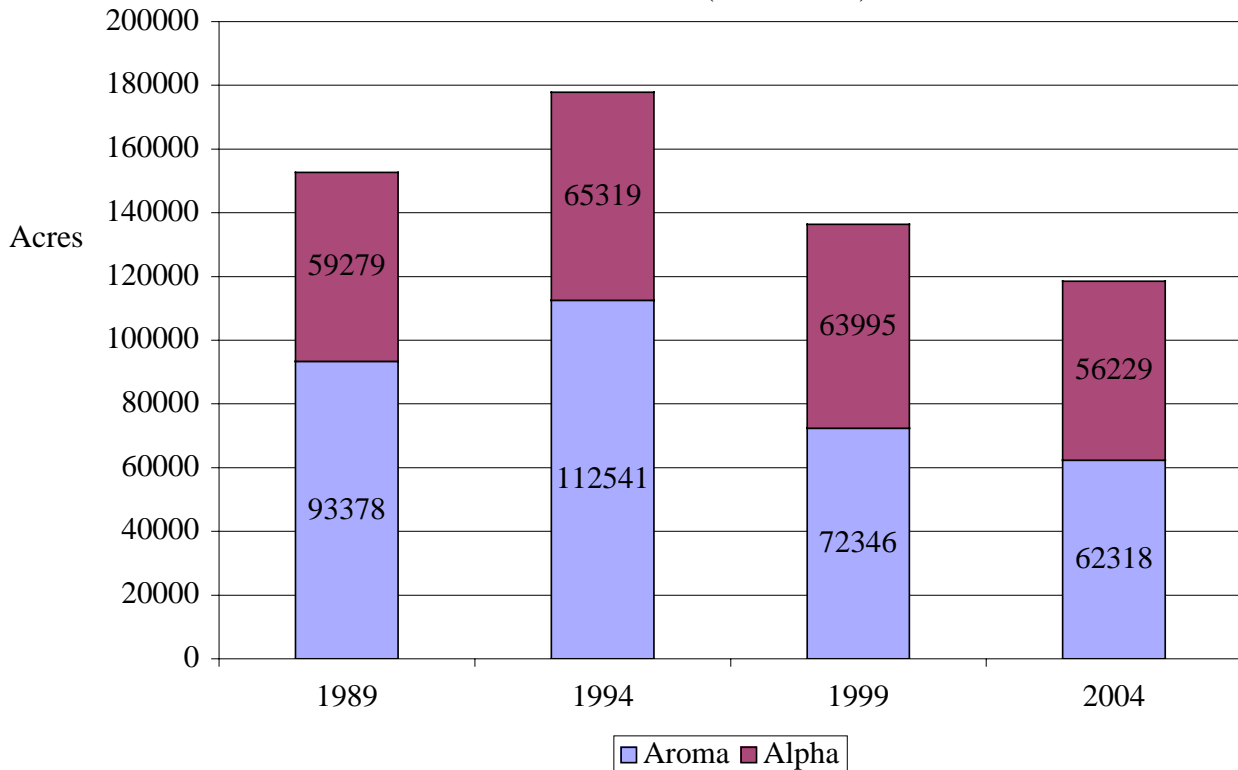
SEVEN MOST WIDELY-PLANTED VARIETIES PRODUCED IN THE U.S. AND THE % OF THE TOTAL AMERICAN ACREAGE THEY REPRESENT



1993-94 – 2003-04 U.S. HOP TRADE SURPLUS



COMPOSITION OF WORLD HOP ACREAGE  
1989 VERSUS 2004 (IN ACRES)



**IHGC SOLD AHEAD SURVEY 2004 – 2009 (as reported in November 2004)**

COUNTRY	(Pounds contracted, % based on 2004 production)						
	2004 Production (Pounds)	2004	2005	2006	2007	2008	2009 & Beyond
Australia	3,150,400	-	-	-	-	-	-
Belgium	870,800	170,415	142,858	54,674	-	-	-
Bulgaria	712,100	418,874	418,874	-	-	-	-
China	25,882,000	5,291,040	-	-	-	-	-
Czech Rep.	13,889,000	13,889,000	8,333,400	5,555,600	-	-	-
Germany	73,854,100	38,254,219	31,305,320	17,290,677	8,289,296	5,767,233	1,933,434
France	2,577,200	2,447,106	440,920	286,598	-	-	-
New Zealand	1,746,500	1,660,063	1,256,622	870,817	94,797	-	-
Poland	6,172,900	5,291,040	-	-	-	-	-
Portugal	125,700	99,207	-	-	-	-	-
Russia	749,600	264,552	352,736	-	-	-	-
Slovakia	776,000	661,380	551,150	551,150	-	-	-
Slovenia	5,262,400	3,683,680	2,631,200	1,315,600	1,052,480	526,240	-
Spain	3,115,100	2,810,865	-	-	-	-	-
UK - England	3,525,200	3,172,680	2,115,120	1,233,820	881,300	-	-
Ukraine	2,799,800	-	-	-	-	-	-
USA	55,538,300	44,076,576	28,130,696	19,157,974	11,880,589	-	-
Serbia - Montenegro	584,000	584,000	584,000	-	-	-	-
South Africa	2,198,000	2,235,464	2,182,554	2,182,554	-	-	-
<b>TOTAL IHGC</b>	<b>203,529,100</b>	<b>125,010,161</b>	<b>78,445,450</b>	<b>48,499,464</b>	<b>22,198,462</b>	<b>6,293,473</b>	<b>1,933,434</b>
<b>IHGC Contracted</b>		<b>61.42%</b>	<b>38.54%</b>	<b>23.89%</b>	<b>10.90%</b>	<b>3.09%</b>	<b>0.94%</b>

SOURCE: IHGC. USDA. Prepared by HGA, -/ information not reported to IHGC

Numbers may not total exactly due to rounding and standard/metric conversions.

\* Information originally reported in Sold Ahead Survey, March 2002, U.S. production estimate updated to reflect actuals.

**U.S. ADJUSTED SOLD AHEAD SURVEY RESULTS 2000 – 2004**

REPORT YEAR (2003)	REPORT YEAR PRODUCTION	Percent Sold Ahead Based on Report Year Production				
		N	N+1	N+2	N+3	N+4
2000	67,576,800	90%	64%	43%	32%	12%
2001	66,832,100	72%	45%	35%	25%	4%
2002	58,336,600	76%	56%	33%	25%	3%
2003	54,565,100	74%	49%	34%	18%	N/A
2004	55,203,900	79%	51%	34%	21%	N/A

- The U.S. Sold Ahead survey was issued in March 2004 using crop production figures from the previous year (in this case 2003). In hindsight, to provide a more accurate picture of the actual percentage of the crop contracted, these figures must be adjusted once the current year's production has been measured.
- The U.S. Sold Ahead percentages listed above include both alpha and aroma hops. Aroma varieties are typically contracted at a much higher level than alpha hops.

**WORLD HOP ACREAGE & PERCENT SHARE (acres)**

COUNTRY	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Germany	54,078	53,897	52,830	48,638	45,177	45,915	46,965	45,318	40,879	43,168
	25%	26%	30%	33%	32%	32%	33%	33%	32%	36%
England	7,781	7,843	7,764	6,047	5,636	4,828	5,035	4,681	3,538	3,354
	4%	4%	4%	4%	4%	3%	3%	3%	3%	2.7%
Czech	27,601	25,587	20,411	15,091	15,842	16,703	15,864	14,735	14,417	14,420
	13%	13%	12%	10%	11%	12%	11%	11%	11%	12%
Europe (rest)	48,674	41,500	32,447	25,840	24,844	25,682	24,679	23,616	22,217	20,666
	23%	20%	18%	17%	17%	18%	17%	17%	18%	17.2%
USA	43,189	44,161	43,301	36,673	34,260	36,404	35,891	29,309	28,669	28,020
	20%	22%	24%	25%	24%	25%	25%	22%	23%	23.3%
China	17,300	16,300	12,355	10,556	10,556	10,829	11,884	13,930	13,931	11,697
	8%	8%	7%	7%	7%	7%	8%	10%	11%	9.7%
World (rest)	14,557	14,250	7,645	6,577	6,530	3,255	4,139	4,364	3,211	3,607
	7%	7%	4%	4%	5%	2%	3%	3%	3%	3%
World Totals	213,180	203,538	176,753	149,422	142,845	143,616	144,457	135,944	126,862	119,943

**WORLD HOP PRODUCTION & PERCENT SHARE (pounds x 1,000)**

COUNTRY	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Germany	75,224	81,571	74,957	68,166	60,462	62,709	68,343	69,444	55,115	73,854
	27%	29%	30%	33%	29%	30%	32%	34%	30%	36.3%
England	9,106	11,250	9,433	7,209	6,945	6,082	6,019	5,849	4,202	3,525
	3%	4%	4%	3%	3%	3%	3%	3%	2%	1.7%
Czech	24,136	24,141	18,105	11,751	14,771	10,815	14,669	13,668	11,219	13,889
	9%	9%	7%	6%	7%	5.1%	7%	7%	6%	6.8%
Europe (rest)	41,235	35,819	29,533	24,857	25,904	23,174	22,704	18,178	20,388	23,745
	15%	13%	12%	12%	13%	11%	11%	9%	11%	11.6%
USA	78,852	74,971	74,872	59,548	64,455	67,576	66,832	58,336	54,565	55,200
	28%	27%	30%	29%	31%	32%	31%	28%	30%	27%
China	35,275	35,274	26,786	26,581	26,455	33,152	29,786	31,224	30,662	25,882
	13%	13%	11%	13%	13%	15%	14%	15%	17%	12.7%
World (rest)	17,762	17,538	12,566	8,823	7,685	7,937	8,114	9,332	8,013	7,095
	6%	6%	5%	4%	4%	4%	4%	5%	4%	3.5%
World Totals	281,590	280,563	246,252	206,935	206,677	211,445	215,639	206,031	184,164	203,259

SOURCE: USDA, IHGC, Merchant Reports. Prepared by HGA



**MARCH 1 & SEPTEMBER 1 U.S. HOP STOCKS 1986 – 2004**

Year	MARCH 1			SEPTEMBER 1		
	Brewer	Dealer / Grower	TOTAL	Brewer	Dealer / Grower	TOTAL
1986	72,240	17,680	89,920	60,630	8,930	70,950
1987	72,860	15,640	88,500	62,430	6,580	70,630
1988	66,980	15,590	82,570	49,090	9,160	60,000
1989	56,630	23,870	80,500	43,200	8,500	51,700
1990	57,850	18,790	76,640	46,810	5,080	51,890
1991	56,950	18,370	75,320	45,200	9,000	54,200
1992	55,470	17,860	73,330	46,270	9,980	56,250
1993	55,800	27,200	83,000	45,520	12,540	58,060
1994	58,200	32,600	90,800	47,070	15,930	63,000
1995	57,900	31,400	89,300	42,800	13,100	55,900
1996	55,900	25,500	81,400	47,000	11,700	58,700
1997	53,000	26,000	79,000	44,500	17,500	62,000
1998	50,500	25,000	75,500	41,000	14,000	55,000
1999	50,000	25,000	75,000	39,500	14,500	54,000
2000	43,500	21,000	64,500	37,500	10,500	48,000
2001	44,500	22,500	67,000	38,000	16,000	54,000
2002	45,000	44,000	89,000	30,000	35,000	65,000
2003	41,000	41,000	82,000	34,000	35,000	69,000
2004	37,000	48,000	85,000	30,000	31,000	61,000

SOURCE: USDA NASS. Prepared by HGA.

-/ included in dealer stocks to avoid disclosure of individual operations.

**U.S. HOP TRADE BALANCE 1993 - 2003**

Year	Value of Hop Imports <sup>1</sup>	Value of U.S. Hop Exports <sup>2</sup>	TRADE SURPLUS
	----- (x US\$1,000) -----		
1993-94	\$40,668	\$98,400	\$57,732
1994-95	\$41,415	\$126,400	\$84,985
1995-96	\$41,856	\$105,304	\$63,448
1996-97	\$39,232	\$99,245	\$60,013
1997-98	\$29,273	\$97,603	\$68,330
1998-99	\$28,733	\$77,615	\$48,882
1999-00	\$28,916	\$89,623	\$60,707
2000-01	\$21,874	\$121,315	\$99,441
2001-02	\$24,060	\$97,912	\$73,852
2002-03	\$31,803	\$89,301	\$57,498
2003-04	\$19,799	\$123,453	\$103,655

SOURCE USDA Hop Market News. Prepared by HGA

1/ Import price is defined generally as market value in foreign country excluding import duties, ocean freight and marine insurance

2/ Export price is value of exportation based on selling price, inland freight, insurance and other charges to port.

**U.S. & GERMAN ALPHA ACID PRODUCTION 1994–2004**

YEAR	UNITED STATES		GERMANY	
	Pounds** (x 1,000)	Avg Alpha*	Pounds (x 1,000)	Avg. Alpha
1994	7,086	9.5	2,335	3.7
1995	7,387	9.4	3,937	5.2
1996	7,396	9.9	6,424	7.9
1997	7,352	9.8	5,911	7.9
1998	6,420	10.8	4,630	6.8
1999	6,680	10.4	4,554	7.5
2000	7,238	10.7	5,557	8.9
2001	7,600	11.4	5,688	8.3
2002	6,922	10.9	6,505	9.3
2003	6,393	11.7	4,023	7.2
2004	6,393	11.5	6,426	8.7

SOURCE: Hop Merchants. Prepared by HGA. \* U.S. figures were converted to comparable EBC October/November figures for more accurate comparison by making an 8% adjustment downward in alpha values. Average figures calculated by taking total alpha produced divided by total pounds produced. U.S. and German figures from 1998-2000 have been revised using this method. \*\*All figures are total production, which includes estimates of alpha acid produced but later destroyed by fire.

**U.S. HOP EXPORTS – TOP 20 DESTINATIONS FOR U.S. HOPS**

SEPTEMBER 2003 – AUGUST 2004 (000's Pounds)						
	COUNTRY	CONES	PELLETS	EXTRACT	TOTAL	PERCENT OF TOTAL
1	Germany	1,216,950	1,428,594	6,372,234	9,017,778	13.6%
2	Mexico	9,480	591,940	8,047,745	8,649,165	13.0%
3	Belgium-Luxembourg	661	3,244,760	5,361,636	8,607,057	12.9%
4	Canada	62,170	1,234,367	4,559,154	5,855,691	8.8%
5	United Kingdom	505,299	411,823	3,223,154	4,140,276	6.2%
6	Brazil	33,290	2,176,180	1,157,866	3,367,337	5.1%
7	Thailand	0	326,725	1,896,855	2,223,580	3.3%
8	Colombia	10,362	481,709	1,694,912	2,186,983	3.3%
9	Venezuela	0	22,928	2,072,343	2,095,271	3.2%
10	Netherlands	3,968	29,983	1,755,759	1,789,711	2.7%
11	Hong Kong	0	265,877	1,387,147	1,653,024	2.5%
12	China	5,291	120,372	1,378,328	1,503,992	2.3%
13	Australia	42,770	21,385	1,369,510	1,433,664	2.2%
14	Dominican Republic	16,976	0	1,331,590	1,348,566	2.0%
15	Korea	0	240,745	1,107,601	1,348,346	2.0%
16	Nigeria	0	0	1,332,472	1,332,472	2.0%
17	Russia	0	840,622	253,972	1,094,594	1.6%
18	Chile	0	26,676	858,920	885,596	1.3%
19	Argentina	83,555	212,525	546,746	842,826	1.3%
20	Japan	464,734	240,304	127,868	832,905	1.3%
	Sub total	2,455,506	11,977,921	46,600,376	61,033,802	91.8
	All Other Countries	121,695	1,008,834	4,332,519	5,463,048	8.2%
	<b>TOTAL EXPORTS</b>	<b>2,577,201</b>	<b>12,986,755</b>	<b>50,932,895</b>	<b>66,496,851</b>	<b>100%</b>

SOURCE: U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Statistics. Prepared by HGA

**U.S. HOP EXPORTS – REGIONAL ANALYSIS**

REGION	PERCENT OF TOTAL U.S. HOP EXPORTS			
	2000-2001	2001-2002	2002-2003	2003-2004
EUROPE	33%	30%	32%	39.8%
NORTH AMERICA	22%	26%	25%	21.8%
SOUTH AMERICA	19%	19%	15.6%	18.4%
ASIA	17%	15%	18.4%	13.7%
CARIBBEAN	5%	4%	4%	2.6%
ALL OTHERS	4%	6%	4%	3.7%

SOURCE: U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Statistics. Prepared by HGA

**WORLD BEER PRODUCTION 1998-2004 (MILLION HL)**

	1998	1999	2000	2001	2002	2003	2004*
Germany	108.3	112.8	110.4	108.5	109.0	105.5	104.5
Great Britain	55.7	57.9	55.3	56.8	56.8	58	58.0
Russia	38.9	45.9	60.5	65.0	70.0	75.6	83.0
Spain	24.7	25.9	26.5	27.7	28.0	29.7	29.7
Netherlands	24.5	24.5	25.1	25.2	25.3	25.1	25.2
France	19.4	19.8	18.9	18.9	18.9	18.1	18.1
Poland	22	22.5	23.5	24.1	24.2	27.3	28.0
Czech Republic	18.4	17.9	18.0	17.9	17.5	17.9	18.1
Belgium	14.2	14.2	14.7	15.0	15.1	15.7	15.9
Italy	12.5	12.1	12.6	12.6	12.4	13.7	13.0
Austria	8.4	8.9	8.8	8.6	8.8	8.9	9.0
Denmark	7.5	8	7.5	7.2	7.2	8.3	8.2
USA	238	236.5	233.0	231.0	231.5	238	238
Brazil	89.2	88.6	90.0	83.0	85.0	83.0	90.0
Mexico	56.9	57.3	60.3	63.5	65.0	66.4	66.0
Canada	22.81	22.9	23.0	23.2	23.2	23.0	23.3
Colombia	18.4	16.5	16.5	16.0	16.0	15.5	15.0
Venezuela	18.1	17.1	15.5	15.8	16.5	13.2	13.2
Argentina	12	13	12.6	12.3	12.4	13.2	13.2
China	180.0	180.0	210.0	225.0	231.2	254.6	277.5
Japan	71.5	71.5	71.0	71.2	70.5	65.0	70.0
South Korea	13.8	13.8	18.6	18.6	19.0	20.0	19.2
Philippines	12.5	12.4	12.2	12.0	12.0	12.2	12.3
South Africa	25.7	25.7	24.5	24.5	24.0	25.3	25.5
Australia	17.8	17.6	17.2	17.2	17.2	17.3	17.3
Nigeria	1.1	1.1	6.0	6.7	6.8	7.0	7.5
New Zealand	4.2	3.2	3.0	3.0	3.1	3.1	3.1
All Other Countries	187.5	197.0	200.2	226.6	229.4	235.9	243.5
WORLD TOTALS:	1,324	1,344.6	1,395.4	1,420.7	1,439.3	1,496.5	1,545.3

SOURCE: Steiner Guidelines for Hop Buying 2004.

\*estimate

## U.S. HOP EXPORTS 99/00 – 03/04 (Pounds x 1,000)

COUNTRY	'99-'00	'00-'01	'01-'02	'02-'03	'03-'04
Canada	3,762	5,914	5,809	5,614	5,856
Mexico	5,244	7,515	7,875	7,042	8,649
Costa Rica	21	181	176	131	165
El Salvador	7	35	154	130	29
Guatemala	75	57	152	160	112
Honduras	4	81	0	80	61
Nicaragua	49	12	-	11	24
Dominican Republic	1,332	2,357	1,324	1,478	1,349
Jamaica	161	160	115	74	106
Trinidad and Tobago	7	59	84	30	40
Argentina	768	677	475	363	843
Bolivia	122	38	0	176	121
Brazil	4,045	6,369	3,511	2,973	3,367
Chile	142	159	240	351	886
Colombia	799	1,975	1,739	1,866	2,187
Ecuador	376	313	233	448	236
Peru	394	159	115	195	496
Uruguay	40	8	4	23	22
Venezuela	466	1,306	2,462	1,260	2,095
Belgium	3,096	5,262	4,784	4,952	8,607
Denmark	104	249	2	0	114
Finland	247	70	3	189	200
France	485	550	83	100	365
Germany	4,734	6,273	4,387	4,287	9,018
Hungary	0	0	0	0	105
Ireland	438	1,054	511	349	317
Italy	178	289	254	284	57
Netherlands	1,631	2,405	1,401	1,747	1,790
Portugal	470	143	6	7	2
Russia	399	159	699	404	1,095
Spain	35	65	62	73	25
Switzerland	31	270	213	4	77
United Kingdom	2,496	3,277	2,980	3,402	4,140
Nigeria	40	1,310	1,252	775	1,332
South Africa	33	6	0	67	109
China	444	356	205	664	1,504
Hong Kong	1,357	1,924	1,534	1,702	1,653
Japan	1,289	1,778	1,790	1,092	833
Korea	948	1,850	2,129	2,663	1,348
Malaysia	236	206	138	243	218
Philippines	910	850	616	747	825
Singapore	166	107	150	120	244
Taiwan	0	1	7	0	0
Australia	706	1,409	1,630	724	1,434
Sri Lanka	4	31	0	4	30
Thailand	779	1,270	699	1,700	2,224
SUB TOTAL	39,084	58,585	50,003	48,705	64,310
ALL OTHERS	1,746	2,894	1,773	1,796	2,187
TOTAL	40,830	61,479	51,776	50,501	66,497

SOURCE: U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Statistics. Prepared by HGA  
Numbers may include minor rounding errors between standard/metric conversions.

## U.S. IMPORTS OF HOPS, PELLETS &amp; HOP EXTRACT (Pounds x 1,000)

CONES<sup>1</sup>

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Other	Total
1994-95	280	0	536	0	1,892	1,177	5,974	0	240	62	20	10,194
1995-96	328	0	234	0	278	1,345	7,665	209	237	152	68	10,516
1996-97	340	0	185	0	317	1,378	6,607	2	97	159	119	9,204
1997-98	7	0	203	0	170	1,283	4,652	2	2	112	0	6,431
1998-99	85	44	0	0	130	1,402	6,389	2	0	35	2	8,089
1999-00	2	0	2	0	663	1,774	5,760	31	0	205	11	8,450
2000-01	0	26.7	0	0	69.2	2,313	3,409	1.9	0	97.6	0	5,919
2001-02	0	0	0	-	110	2,159	4,349	4.4	0	136	0	6,810
2002-03	0	0	0	0	50	2,210	3,577	0.6	0	183	0	6,020
2003-04	0	0	0	0	121.6	3,457	3,306	17	0	186.8	29.7	7,118

## PELLETS

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Other	Total
1994-95	4	0	0	42	9	47	1,605	410	0	357	2	2,476
1995-96	0	0	0	42	15	0	1,642	294	0	450	0	2,443
1996-97	0	0	0	0	90	0	2,438	560	0	441	31	3,560
1997-98	181	0	0	0	99	0	2,892	514	0	410	99	4,195
1998-99	202	0	0	0	44	0	1,426	304	0	223	23	2,222
1999-00	220	0	0	0	2	0	1,675	580	20	106	0	2,603
2000-01	1,006	0	0	0	12.3	0	1,296	601	0	163	0	3,090
2001-02	562	0	0	0	69	0	1,402	38	0	240	0	2,316
2002-03	912	0	0	915	43	0	1,923	205	0	166	520*	4,732
2003-04	1,419	0	4	0	132.7	1,110	7,503	826	2	457	5	11,458.7

## TOTAL EXTRACT - HOP EQUIVALENT X 4

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Other	Total
1994-95	0	0	0	0	0	0	0	0	0	97	0	97
1995-96	0	0	0	0	0	0	133	0	0	17	18	168
1996-97	35	0	0	0	0	0	71	0	0	35	0	141
1997-98	0	0	0	0	0	0	335	0	0	9	0	344
1998-99	0	0	0	0	0	0	6	0	0	105	0	111
1999-00	0	0	0	0	0	0	7	27	0	526	0	560
2000-01	0	7	0	0	0	10	125	18	0	35	1	197
2001-02	0	7	0	0	0	10.6	125	17.6	0	15.8	0.8	177
2002-03	95	322	0	0	0	3.5	271.6	0	0.9	0	0	693
2003-04	0	909	0	0	0	21	288	0	0	2.2	0	1,222

## TOTAL

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Other	Total
1994-95	284	0	536	42	1,901	1,224	7,579	410	240	516	22	12,767
1995-96	328	0	234	42	293	1,345	9,440	503	237	619	86	13,127
1996-97	375	0	185	0	408	1,378	9,116	562	97	635	150	12,906
1997-98	187	0	203	0	269	1,283	7,879	516	2	531	99	10,970
1998-99	287	44	0	0	174	1,402	7,821	306	0	363	25	10,422
1999-00	222	0	2	0	665	1,774	7,442	638	20	837	11	11,614
2000-01	1007	34	0	0	82	2,324	4,831	621	0	296	1	9,205
2001-02	562.4	7	0	0	179	2,170	5,876	60	0	392	0.8	9,304
2002-03	95	322	0	915	93	2,213	5,772	206	0.9	345	1,451	11,445
2003-04	1,419	910	4	0	254	4,589	11,097	843	2	646	34.7	19,799

SOURCE: U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Statistics. Prepared by HGA  
Numbers may include minor rounding errors between standard/metric conversions.

\* This represents 519,632 pounds from Spain that were extracted in the United States and then sent back to Europe.

*THANK YOU*

Hop Growers of America would like to thank the many companies and government agency employees that provided the information presented in the 2004 statistical report. Without your assistance, this publication would not be possible.

Conversions used while compiling  
the data presented in this document:

1 hectare = 2.4711 acres  
1 acre = 0.405 hectares  
1 kilogram = 2.2046 pounds  
1 pound = 0.45 kilograms  
1 metric tonne = 2204.6 pounds  
1 hectoliter = 21.997 gallons  
1 zentner = 110.23 pounds