

# HOP GROWERS of America



# 2002

## *STATISTICAL REPORT*

PRESENTED: JANUARY 30, 2003  
47<sup>TH</sup> ANNUAL HGA CONVENTION  
STEVENSON, WASHINGTON

*LIST OF TABLES*

	Page
U.S. HOP PRODUCTION BY STATE AND VARIETY 1998 – 2002	1
U.S. HOP ACREAGE BY STATE AND VARIETY 1998 – 2002	2
<u>U.S. HOP YIELDS BY STATE AND VARIETY 1998 – 2002</u>	<u>3</u>
U.S. HOP ACREAGE BY STATE 1992 – 2002	4
<u>U.S. AVERAGE HOP YIELDS 1992 – 2002</u>	<u>4</u>
U.S. HOPS: SEASON AVERAGE PRICE & TOTAL CROP VALUE	4
2002 U.S. HOP INSPECTION REPORT	5
<u>U.S. HOP LEAF, STEM &amp; SEED CONTENT PERCENTAGE 1992 – 2002</u>	<u>5</u>
IHGC AROMA ACREAGE 1998 – 2002	6
IHGC ALPHA ACREAGE 1998 – 2002	6
<u>IHGC TOTAL ACREAGE 1998 – 2002</u>	<u>7</u>
2002 WORLD HOP ACREAGE AND PRODUCTION	7
IHGC SOLD AHEAD SURVEY 2002 – 2005	12
<u>U.S. ADJUSTED SOLD AHEAD SURVEY RESULTS 1998 – 2002</u>	<u>12</u>
WORLD HOP ACREAGE & PERCENT SHARE	13
WORLD HOP PRODUCTION & PERCENT SHARE	13
<u>SEPTEMBER 1 U.S. HOP STOCKS 1982 – 2002</u>	<u>14</u>
U.S. HOP TRADE BALANCE 1992 – 2002	14
<u>U.S. &amp; GERMAN ALPHA ACID PRODUCTION 1992 – 2002</u>	<u>15</u>
WORLD ALPHA PRODUCTION & CONSUMPTION	15
U.S. HOP EXPORTS – TOP 20 DESTINATIONS FOR U.S. HOPS	16
<u>U.S. HOP EXPORTS – REGIONAL ANALYSIS</u>	<u>16</u>
U.S. HOP EXPORTS BY COUNTRY 96/97 – 00/01	17
U.S. IMPORTS OF HOPS, PELLETS & HOP EXTRACT	18
WORLD BEER PRODUCTION	19

## List of Charts

	Page
U.S. TOTAL ACREAGE 1998 - 2002	8
U.S. TOTAL PRODUCTION 1998 – 2002	8
U.S. AVERAGE YIELD PER ACRE 1998 – 2002	8
U.S. AND GERMAN ALPHA ACID PRODUCTION 1992 - 2002	9
U.S. AND GERMAN ALPHA ACID PERCENTAGE 1992 - 2002	9
U.S. & GERMAN 2002 ALPHA ACREAGE & THE % OF WORLD ALPHA ACREAGE THEY REPRESENT	10
U.S. & GERMAN 2002 ALPHA PRODUCTION & THE % OF WORLD ALPHA PRODUCTION THEY REPRESENT	10
TOP 7 VARIETIES PRODUCED IN THE U.S. AND THE PERCENTAGE OF THE CROP THEY REPRESENT	10
WORLD ALPHA PRODUCTION TREND VERSUS WORLD ALPHA CONSUMPTION TREND 1992-2002	11
COMPOSITION OF WORLD HOP ACREAGE 1998 VERSUS 2002 (ACRES)	11

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## Statistical Overview

	1992	2002	Change 92/2002	% Change 92/2002
<b>HOP PRODUCTION (POUNDS)</b>				
United States	74,337,017	58,336,600	-16,000,417	-21.5%
Germany	64,238,957	69,444,000	5,205,043	8.1%
World	268,678,019	206,031,000	-62,647,019	-23.3%
<b>IHGC AROMA ACREAGE</b>				
United States	16,454	10,931	-5,523	-33.6%
Germany	35,674	24,309	-11,365	-31.9%
World	113,380	66,617	-46,763	-41.2%
<b>IHGC ALPHA ACREAGE</b>				
United States	25,793	18,146	-7,647	-29.6%
Germany	20,953	18,820	-2,133	-10.2%
World	64,625	63,420	-1,205	-1.9%
<b>IHGC TOTAL HOP ACREAGE</b>				
United States	42,247	29,293	-12,954	-30.7%
Germany	56,627	45,318	-11,309	-20.0%
World	178,005	135,944	-42,061	-23.6%
<b>U.S. CROP QUALITY (%)</b>				
Leaf & Stem Content	0.93	0.11	-0.82	-88.2%
Seed Content	0.67	0.63	-0.04	-6.0%
<b>ALPHA ACID PRODUCTION (POUNDS)</b>				
United States	6,953,000	6,922,000	-31,000	-0.4%
Germany	3,053,000	6,505,000	3,452,000	113.1%
World	16,666,000	19,424,000	2,758,000	16.5%
<b>ALPHA ACID CONSUMPTION (POUNDS)</b>				
WORLD	17,427,000	16,810,000	-617,000	-3.5%
<b>BEER PRODUCTION (Million HL)</b>				
United States	237	232	-6	-2.4%
World	1,179	1,439	260	22.1%
<b>U.S. HOP EXPORTS (POUNDS)</b>				
Japan	430,121	1,790,000	1,359,879	316.2%
Belgium	2,476,670	4,784,000	2,307,330	93.2%
Germany	11,946,615	4,387,000	-7,559,615	-63.3%
Total	57,709,236	51,776,000	-5,933,236	-10.3%
<b>U.S. HOP IMPORTS (POUNDS)</b>				
Germany	6,783,836	5,876,000	-907,836	-13.4%
France	587,531	2,170,000	1,582,469	269.3%
Australia	734,799	562,400	-172,399	-23.5%
Total Imports	18,946,332	9,304,000	-9,642,332	-50.9%

**U.S. HOP PRODUCTION BY STATE AND VARIETY 1998 – 2002**

STATE & VARIETY	HOP PRODUCTION (POUNDS)					2002
	1998	1999	2000	2001	2002	% +/-
<b>IDAHO</b>						
Chinook	507,600	383,900	340,000	195,200	-	-
Cluster	886,300	694,600	384,700	363,400	-	-
Galena	895,700	1,049,300	971,000	823,500	-	-
Mt. Hood	15,000	22,900	106,000	38,400	-	-
Nugget	131,900	152,500	136,000	81,000	-	-
Willamette	160,700	333,000	297,600	231,500	-	-
Zeus	2,000	397,100	824,500	893,000	-	-
Other Varieties	1,932,200	1,693,700	1,870,000	1,983,300	-	-
<b>Total Idaho</b>	<b>4,531,400</b>	<b>4,734,000</b>	<b>4,929,800</b>	<b>4,609,300</b>	<b>5,519,600</b>	<b>19.75%</b>
<b>OREGON</b>						
Cascade	-	-	-	-	320,500	-
Fuggle	206,600	105,400	67,100	2/	-	-
Golding	198,900	153,500	134,600	2/	-	-
Liberty	-	-	-	-	52,800	-
Millennium	1/	1/	1/	300,700	631,900	110.14%
Mt. Hood	339,700	461,700	447,500	506,300	420,100	-17.03%
Nugget	4,875,200	4,822,700	4,989,500	5,545,300	3,996,900	-27.92%
Perle	502,800	542,000	454,300	665,300	525,700	-20.98%
Santiam	1/	1/	22,500	2/	-	-
Sterling	1/	1/	105,700	187,900	163,000	-13.25%
Willamette	3,473,200	3,284,200	3,318,000	3,463,600	2,921,500	-15.65%
Other Varieties	449,700	594,700	847,800	774,100	405,600	-47.60%
<b>Total Oregon</b>	<b>10,227,400</b>	<b>10,072,000</b>	<b>10,387,000</b>	<b>11,443,200</b>	<b>9,438,000</b>	<b>-17.52%</b>
<b>WASHINGTON</b>						
Cascade	1,785,600	1,821,100	1,798,800	1,790,400	2,125,600	18.72%
Chelan	2/	2/	2/	573,500	652,200	13.72%
Chinook	1,570,900	1,582,000	1,311,200	918,600	802,600	-12.63%
Cluster	4,975,600	2,536,300	1,875,200	1,045,600	958,100	-8.37%
Columbus/Tomahawk	9,956,500	10,628,800	11,778,000	12,253,100	10,534,800	-14.02%
Galena	9,824,300	10,615,800	9,538,200	7,345,600	6,170,300	-16.00%
Golding	89,600	51,500	39,500	55,400	30,900	-44.22%
Hallertauer	1/	2/	2/	73,600	90,700	23.23%
Horizon	97,500	332,300	395,000	414,900	474,800	14.44%
Magnum	1/	148,500	118,000	59,800	-	-
Millennium	1/	1/	2/	2,815,100	3,417,800	21.41%
Mt. Hood	371,800	426,200	420,900	376,300	136,100	-63.83%
Northern Brewer	-	-	-	124,500	193,200	-
Nugget	7,237,400	8,683,700	8,522,200	8,086,500	2,698,400	-66.63%
Perle	186,500	292,100	215,900	226,300	120,200	-46.88%
Tettnanger	226,800	129,000	2/	63,500	61,300	-3.46%
Tillicum	2/	2/	2/	677,500	402,600	-40.58%
Vanguard	2/	2/	2/	74,100	-	-
Willamette	4,628,000	4,844,200	4,888,400	4,674,400	5,025,500	7.51%
YCR5 (Warrior TM)	2/	2/	2/	2,670,100	2,099,500	-21.37%
Zeus	2/	3,480,800	5,381,800	5,834,400	6,779,100	16.19%
Other Alpha	2,632,600	2,106,300	4,162,600	281,811	362,500	28.63%
Other Aroma	220,000	222,000	374,000	224,542	160,800	-28.39%
Other	780,000	1,748,400	1,439,700	119,924	82,000	-31.62%
<b>Total Washington</b>	<b>44,791,000</b>	<b>49,649,000</b>	<b>52,260,000</b>	<b>50,779,600</b>	<b>43,379,000</b>	<b>-14.57%</b>
<b>Total United States</b>	<b>59,549,800</b>	<b>64,455,000</b>	<b>67,576,800</b>	<b>66,832,100</b>	<b>58,336,600</b>	<b>-12.71%</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.

**U.S. HOP ACREAGE BY STATE AND VARIETY 1998 – 2002**

STATE & VARIETY	ACRES HARVESTED					2002
	1998	1999	2000	2001	2002	% +/-
<b>IDAHO</b>						
Chinook	384	202	170	120	-	-
Cluster	657	417	198	234	-	-
Galena	733	625	535	552	-	-
Mt. Hood	10	32	53	32	-	-
Nugget	97	89	68	54	-	-
Willamette	225	248	194	215	-	-
Zeus	1/	201	403	477	-	-
Other Varieties	1,803	1,541	1,700	1,785	-	-
<b>Total Idaho</b>	<b>3,909</b>	<b>3,362</b>	<b>3,321</b>	<b>3,469</b>	<b>3,399</b>	<b>-2.02%</b>
<b>OREGON</b>						
Cascade	-	-	-	-	217	-
Fuggle	189	98	63	2/	-	-
Golding	235	110	115	2/	-	-
Liberty	-	-	-	-	36	-
Millennium	1/	1/	1/	117	421	259.83%
Mt. Hood	225	253	250	257	243	-5.45%
Nugget	2,415	2,153	2,308	2,268	1,967	-13.27%
Perle	385	406	402	491	452	-7.94%
Santiam	1/	1/	17	2/	-	-
Sterling	1/	1/	62	91	86	-5.49%
Willamette	2,290	2,321	2,142	2,434	1,912	-21.45%
Other Varieties	268	393	460	445	243	-45.39%
<b>Total Oregon</b>	<b>6,161</b>	<b>5,822</b>	<b>5,819</b>	<b>6,103</b>	<b>5,577</b>	<b>-8.62%</b>
<b>WASHINGTON</b>						
Cascade	992	906	996	1,003	1,216	21.24%
Chelan	2/	2/	2/	317	295	-6.94%
Chinook	1,007	791	670	535	422	-21.12%
Cluster	2,605	1,321	939	534	480	-10.11%
Columbus/Tomahawk	3,999	4,374	4,594	4,915	3,663	-25.47%
Galena	5,779	5,282	5,044	4,375	3,239	-25.97%
Golding	83	35	36	45	26	-42.22%
Hallertauer	1/	2/	2/	76	76	0.00%
Horizon	130	268	316	339	337	-0.59%
Magnum	1/	99	73	42	-	-
Millennium	1/	1/	2/	1,382	1,455	5.28%
Northern Brewer					107	-
Mt. Hood	361	384	367	333	97	-70.87%
Nugget	4,793	4,195	4,597	4,109	1,288	-68.65%
Perle	296	273	275	209	124	-40.67%
Tettnanger	252	129	-	60	48	-20.00%
Tillicum	2/	2/	2/	369	194	-47.43%
Vanguard	2/	2/	2/	54	-	-
Willamette	3,922	3,364	3,563	3,571	3,639	1.90%
YCR5 (Warrior TM)	2/	2/	2/	1,370	988	-27.88%
Zeus	1/	1,520	1,994	2,186	2,265	3.61%
Other Alpha	1,408	1,048	2,363	157	203	29.30%
Other Aroma	251	206	330	163	120	-26.38%
Other	569	881	824	98	51	-47.96%
<b>Total Washington</b>	<b>26,573</b>	<b>25,076</b>	<b>26,980</b>	<b>26,339</b>	<b>20,333</b>	<b>-22.80%</b>
<b>Total United States</b>	<b>36,643</b>	<b>34,260</b>	<b>36,120</b>	<b>35,911</b>	<b>29,309</b>	<b>-18.38%</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.

**U.S. HOP YIELDS BY STATE AND VARIETY 1998 – 2002**

STATE & VARIETY	YIELDS (POUNDS PER ACRE)					2002
	1998	1999	2000	2001	2002	% +/-
<b>IDAHO</b>						
Chinook	1,322	1,900	2,000	1,627	-	-
Cluster	1,349	1,666	1,943	1,553	-	-
Galena	1,222	1,679	1,815	1,492	-	-
Mt. Hood	1,500	716	2,000	1,200	-	-
Nugget	1,360	1,713	2,000	1,500	-	-
Willamette	714	1,343	1,534	1,077	-	-
Zeus			2,046	1,872	-	-
Other Varieties	1,072	1,099	1,100	1,111	-	-
<b>Total Idaho</b>	<b>1,220</b>	<b>1,408</b>	<b>1,484</b>	<b>1,329</b>	<b>1,624</b>	<b>22.20%</b>
<b>OREGON</b>						
Cascade	-	-	-	-	1,477	-
Fuggle	1,093	1,076	1,065	2/	-	-
Golding	846	1,395	1,170	2/	-	-
Liberty	-	-	-	-	1,467	-
Millennium	1/	1/	1/	2,570	1,501	-41.60%
Mt. Hood	1,510	1,825	1,790	1,970	1,729	-12.23%
Nugget	2,019	2,240	2,162	2,445	2,032	-16.89%
Perle	1,306	1,335	1,130	1,355	1,163	-14.17%
Santiam	1/	1/	1,324	2/	-	-
Sterling	1/	1/	1,705	2,065	1,895	-8.23%
Willamette	1,517	1,415	1,549	1,423	1,528	7.38%
Other Varieties	1,678	1,513	1,843	1,740	1,669	-4.08%
<b>Total Oregon</b>	<b>1,393</b>	<b>1,730</b>	<b>1,785</b>	<b>1,875</b>	<b>1,692</b>	<b>-9.76%</b>
<b>WASHINGTON</b>						
Cascade	1,800	2,010	1,806	1,785	1,748	-2.07%
Chelan	2/	2/	2/	1,809	2,211	22.22%
Chinook	1,560	2,000	1,957	1,717	1,902	10.77%
Cluster	1,910	1,920	1,997	1,958	1,996	1.94%
Columbus/Tomahawk	2,490	2,430	2,564	2,493	2,876	15.36%
Galena	1,700	2,010	1,891	1,679	1,905	13.46%
Golding	1,080	1,470	1,098	1,231	1,188	-3.49%
Hallertauer	1/	2/	2/	968	1,193	23.24%
Horizon	1/	1,240	1,250	1,224	1,409	15.11%
Magnum	1/	1,500	1,616	1,424	-	-
Millennium	1/	2/	2/	2,037	2,349	15.32%
Mt. Hood	1,030	1,100	1,147	1,130	1,272	12.57%
Northern Brewer					1,992	-
Nugget	1,510	2,070	1,854	1,968	2,095	6.45%
Perle	630	1,070	785	1,083	969	-10.53%
Tettnanger	900	1,000	-	1,058	1,277	20.70%
Tillicum	1/	2/	2/	1,836	2,075	13.02%
Vanguard	1/	2/	2/	1,372	-	-
Willamette	1,180	1,440	1,372	1,309	1,381	5.50%
YCR5 (Warrior TM)	1/	2/	2/	1,949	2,125	9.03%
Zeus	1/	2,290	2,699	2,669	2,993	12.14%
Other Alpha	1,869	2,010	2,050	1,648	1,619	-1.76%
Other Aroma	876	1,078	1,134	1,378	1,340	-2.76%
Other	1,371	1,985	1,748	1,224	1,610	31.54%
<b>Total Washington</b>	<b>1,402</b>	<b>1,980</b>	<b>1,937</b>	<b>1,928</b>	<b>2,133</b>	<b>10.63%</b>
<b>Total United States</b>	<b>1,338</b>	<b>1,884</b>	<b>1,871</b>	<b>1,861</b>	<b>1,990</b>	<b>6.93%</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.

**U.S. HOP ACREAGE BY STATE 1992 – 2002 (IN ACRES)**

YEAR	WASHINGTON	OREGON	IDAHO	TOTAL
1992	30,366	7,900	4,000	42,266
1993	31,239	7,900	3,961	43,100
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

SOURCE: USDA. Prepared by HGA

**U.S. AVERAGE HOP YIELDS 1992 - 2002**

YEAR	POUNDS PER ACRE			
	WASHINGTON	OREGON	IDAHO	TOTAL U.S.
1992	1,881	1,479	1,387	1,759
1993	1,884	1,500	1,375	1,767
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

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) -----					
1987	\$1.32	\$1.78	\$2.74	\$1.51	50,048	\$75,578
1988	\$1.36	\$1.64	\$1.09	\$1.40	54,696	\$76,415
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

SOURCE: USDA. Prepared by HGA



**2002 HOP INSPECTION REPORT**

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

YEAR	WASHINGTON (%)	OREGON (%)	IDAHO (%)	TOTAL (%)
1998	215,726 (0.11)	51,739 (0.21)	21,217 (0.09)	288,682 (0.12)
1999	235,356 (0.06)	50,281 (0.21)	21,729 (0.05)	307,366 (0.08)
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)

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

	0%	1%	2%	3%	4%	5%	6%	7%	TOTAL
WA	199,622	12,826	1,138	50	-	-	-	-	213,676
OR	37,535	5,152	3,551	952	-	-	-	-	47,190
ID	26,388	701	200	-	-	-	-	-	27,289
Total	263,585	18,679	4,889	1,002	-	-	-	-	288,155
% of Total	91	07	02	<1	-	-	-	-	100

TABLE 3. Number of Bales in Each Seed Category

	0%	1%	2%	3%	4%	5%	6%	7%	TOTAL
WA	158,132	36,214	9,778	5,745	1,917	1,208	682	-	213,767
OR	17,581	10,565	4,314	2,544	3,825	3,483	1,890	2,988	47,190
ID	26,954	335	-	-	-	-	-	-	27,289
Total	202,667	47,114	14,092	8,289	5,742	4,691	2,572	2,988	288,155
% of Total	70	16	5	3	2	2	1	1	100

SOURCE: USDA. GIPSA. Federal Grain Inspection Service

**U.S. HOP LEAF, STEM & SEED CONTENT PERCENTAGE 1992 – 2002**

Year	WASHINGTON	OREGON	IDAHO	U.S. AVERAGE %	
	Leaf & Stem	Leaf & Stem	Leaf & Stem	Leaf & Stem	Seed Content
1992	0.96	1.62	1.02	0.93	0.67
1993	0.71	1.16	0.87	0.79	0.91
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

SOURCE: USDA Federal Grain Inspection Service. Prepared by HGA

**IHGC AROMA ACREAGE 1998 – 2002**

COUNTRY	AROMA ACREAGE (IN ACRES)					2002 % +/-
	1998	1999	2000	2001	2002	
Australia	148	10	9	7	7	0.00%
Belgium	217	199	185	126	158	25.40%
Bulgaria	259	N/A	222	222	190	-14.41%
China	No Data	237	237	464	464	0.00%
Czech Rep.	14,321	14,614	14,693	13,825	13,662	-1.18%
Germany	29,205	26,202	25,612	25,360	24,309	-4.14%
France	1,733	1,802	1,809	1,837	1,886	2.67%
New Zealand	346	387	429	452	484	7.08%
Poland	3,654	3703	3,580	3,333	2,647	-20.58%
Portugal	0	0	0	0	0	-
Russia	2,494	3,111	2,681	1,741	1,363	-21.71%
Slovakia	1,111	864	864	864	864	0.00%
Slovenia	4,649	4,214	4,138	3,857	4,005	3.84%
Spain	0	0	0	0	0	-
UK - England	3,835	3,246	2,797	2,896	2,647	-8.60%
Ukraine	4,049	2,380	2,370	2,617	2,160	-17.46%
USA	12,015	10,928	10,807	10,756	10,931	1.63%
Yugoslavia	449	449	321	321	321	0.00%
South Africa	No Data	0	0	0	0	-
Austria	No Data	No Data	No Data	0	519	-
IHGC Total	78,485	72,346	70,754	68,679	66,617	-3.00%

SOURCE: IHGC November 2002 Report

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

**IHGC ALPHA ACREAGE 1998 – 2002**

COUNTRY	ALPHA ACREAGE (IN ACRES)					2002 % +/-
	1998	1999	2000	2001	2002	
Australia	1,447	2,069	1,997	1,923	2,072	7.75%
Belgium	435	428	427	457	459	0.44%
Bulgaria	691	N/A	641	679	400	-41.09%
China	No Data	10,133	10,592	11,160	12,314	10.34%
Czech Rep.	99	177	355	417	304	-27.10%
Germany	17,163	17,459	17,995	18,780	18,820	0.21%
France	128	133	125	123	109	-11.38%
New Zealand	516	501	511	521	519	-0.38%
Poland	1,481	1,728	1,851	2,099	2,778	32.35%
Portugal	0	158	103	94	91	-3.19%
Russia	790	938	1,079	778	612	-21.34%
Slovakia	0	0	0	0	0	#DIV/0!
Slovenia	123	74	172	235	247	5.11%
Spain	2,040	1,962	1,906	1,906	1,802	-5.46%
UK - England	1,570	2,054	1,859	1,790	1,790	0.00%
Ukraine	889	647	740	840	980	16.67%
USA	24,326	23,330	25,597	24,541	18,146	-26.06%
Yugoslavia	993	990	792	793	741	-6.56%
South Africa	No Data	1,214	1,172	1,205	1,220	1.24%
Austria	No Data	No Data	No Data	0	17	-
IHGC Total	52,691	63,995	67,914	68,341	63,420	-7.20%

SOURCE: IHGC November 2002 Report

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

**IHGC TOTAL ACREAGE 1998 – 2002**

COUNTRY	TOTAL ACREAGE (IN ACRES)					2002
	1998	1999	2000	2001	2002	% +/-
Australia	1,595	2,079	2,007	1,931	2,128	10.20%
Belgium	652	627	612	602	617	2.49%
Bulgaria	951	741	864	938	590	-37.10%
China	No Data	10,370	10,829	11,884	13,930	17.22%
Czech Rep.	15,215	15,735	15,839	15,000	14,735	-1.77%
Germany	46,376	45,181	45,915	46,965	45,318	-3.51%
France	1,968	2,012	2,011	2,015	2,009	-0.30%
New Zealand	862	888	940	973	1,002	2.98%
Poland	5,136	5,432	5,432	5,556	5,424	-2.38%
Portugal	0	158	103	94	91	-3.19%
Russia	3,304	4,152	3,918	2,716	2,128	-21.65%
Slovakia	1,111	864	864	864	864	0.00%
Slovenia	4,958	4,500	4,614	4,462	4,484	0.49%
Spain	2,040	2,085	2,029	1,906	1,802	-5.46%
UK - England	5,640	5,301	4,828	5,035	4,681	-7.03%
Ukraine	5,309	3,293	4,098	4,642	4,390	-5.43%
USA	36,341	34,260	36,404	35,891	29,293	-18.38%
Yugoslavia	1,442	1,439	1,137	1,185	1,217	2.70%
South Africa	No Data	1,214	1,172	1,235	1,234	-0.08%
Austria	No Data	No Data	No Data	563	555	-1.42%
IHGC Total	132,900	140,331	143,616	144,457	135,944	-5.89%

SOURCE: IHGC November 2002, 2000, 1999, 1998, 1997 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.

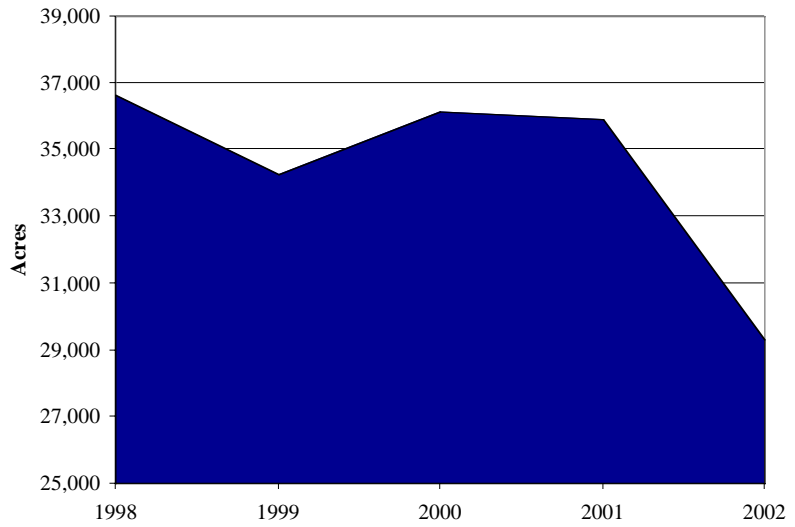
**2002 WORLD HOP ACREAGE AND PRODUCTION**

COUNTRY	HOP ACREAGE (acres)				HOP PRODUCTION (pounds)			
	AROMA	ALPHA	TOTAL	NEW	AROMA	ALPHA	TOTAL	Alpha MT.
Australia	7.4	2,071.6	2,128.4	49.4	5,732.0	5,250,916.3	5,256,648.2	316.9
Belgium	158.0	459.3	617.3	0.0	137,787.5	826,725.0	964,512.5	43.0
Bulgaria	190.1	400.0	590.1	0.0	203,705.0	462,966.0	667,993.8	28.9
China	464.2	12,313.6	13,930.9	1,153	810,190.5	30,423,480	31,233,670	1,423.1
Czech Rep.	13,661.7	303.7	14,735.8	770.4	13,084,301	584,219.0	13,668,520	10.8
Germany	24,308.6	18,819.8	45,318.5	2,190	37,478,200	31,966,700	69,444,900	2,951.0
France	1,886.4	108.6	2,009.9	14.8	3,228,857.2	188,493.3	3,417,350.5	43.8
New Zealand	484.0	518.5	1,002.5	0.0	902,342.8	1,046,523.6	1,948,866.4	95.3
Poland	2,646.9	2,777.8	5,424.7	0.0	1,763,680.0	2,204,600.0	3,968,280.0	76.0
Portugal	0.0	91.4	91.4	0.0	0.0	125,662.2	125,662.2	5.5
Russia	1,363.0	612.3	2,128.4	153.1	577,164.3	392,859.7	970,024.0	56.6
Slovakia	864.2	0.0	864.2	0.0	771,610.0	0.0	771,610.0	12.2
Slovenia	4,004.9	246.9	4,484.0	232.1	4,298,970.0	551,150.0	4,850,120.0	151.0
Spain	0.0	1,802.5	1,802.5	0.0	0.0	293,432.3	293,432.3	13.3
UK - England	2,646.9	1,790.1	4,681.5	244.4	3,256,194.2	2,592,609.6	5,848,803.8	242.0
Ukraine	2,160.5	980.2	4,390.1	1,249	1,543,220.0	661,380.0	2,204,600.0	48.9
USA	10,930.9	18,145.7	29,293.8	217.3	16,049,488	40,862,261	56,911,749	3,140.0
Yugoslavia	321.0	740.7	1,217.3	155.6	278,881.9	1,079,151.7	1,358,033.6	35.1
South Africa	0.0	1,219.8	1,234.6	14.8	0.0	2,126,336.7	2,126,336.7	117.5
Austria	518.5	17.3	555.6	19.8	634,924.8	17,636.8	652,561.6	20.6
2002 IHGC Totals	66,098.8	63,402.5	135,945	6,444	84,390,324	121,640,789	206,031,113	8,810.9
2001 IHGC Totals	69,306.2	67,802.5	143,128	6,019	84,242,616	130,055,526	213,555,192	8,289.3

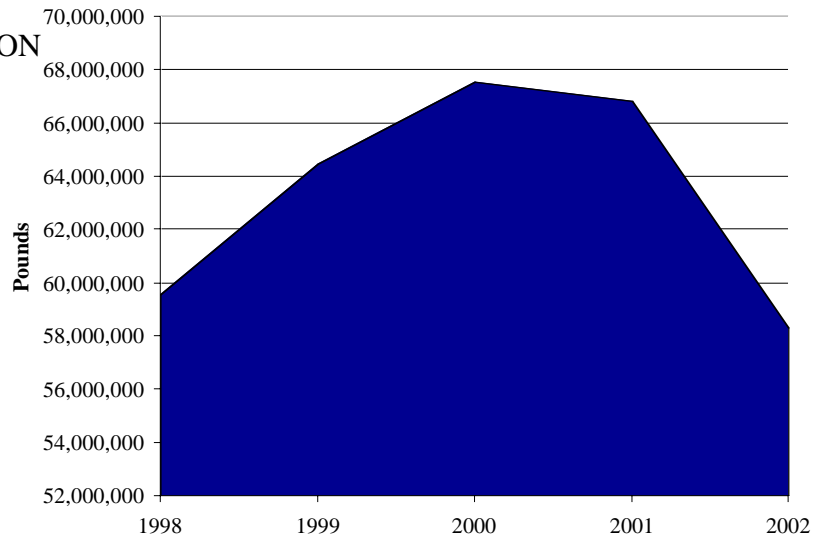
SOURCE: November 2002 IHGC Report

\*Includes approximately 270 metric tons of alpha acid destroyed by fire in Yakima.  
 Numbers may not total exactly due to rounding and standard/metric conversions.

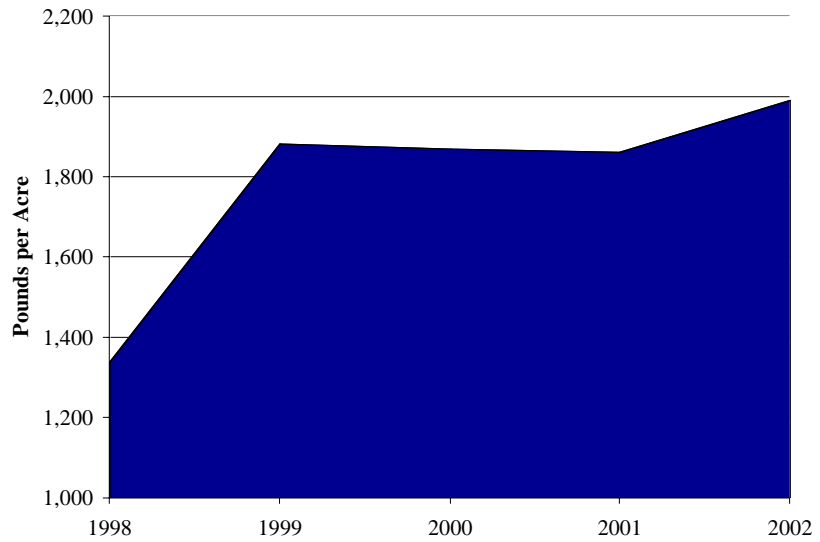
U.S. TOTAL ACREAGE  
1998 - 2002



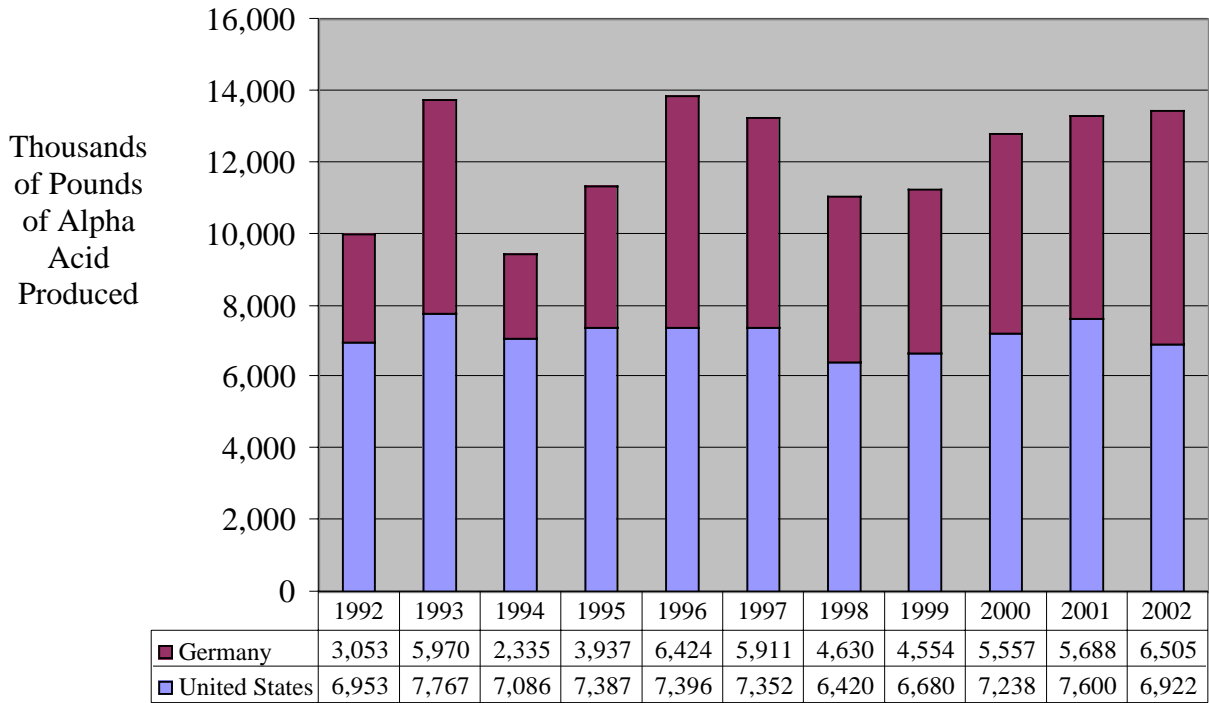
U.S. TOTAL PRODUCTION  
1998 - 2002



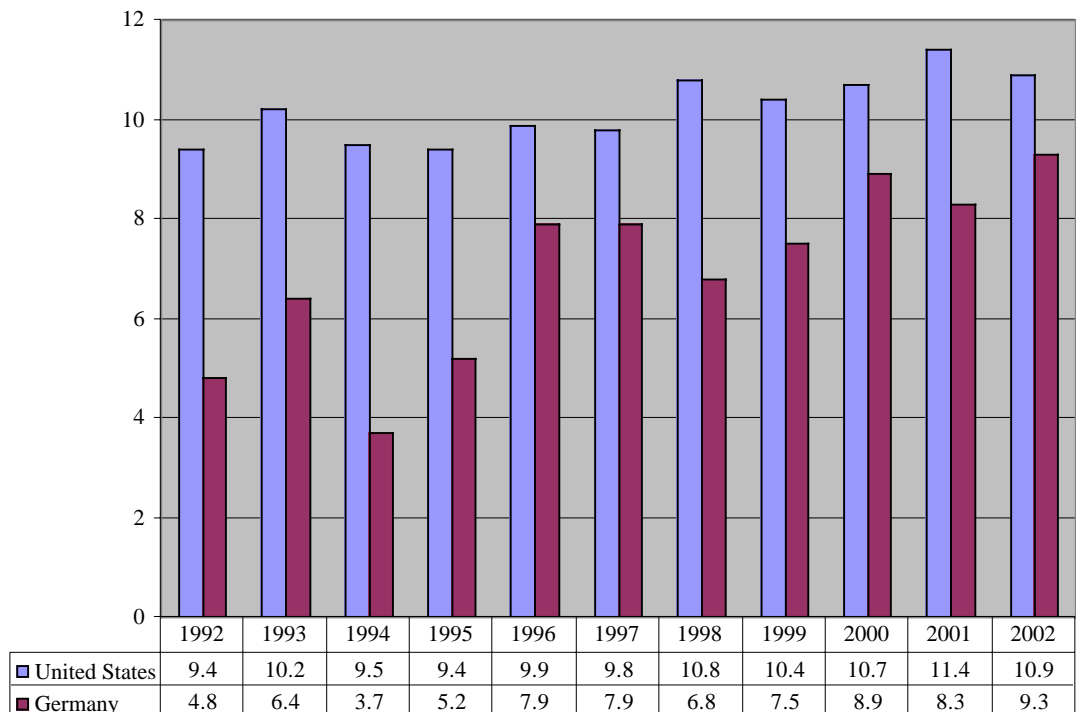
U.S. AVERAGE YIELD  
PER ACRE 1998 - 2002



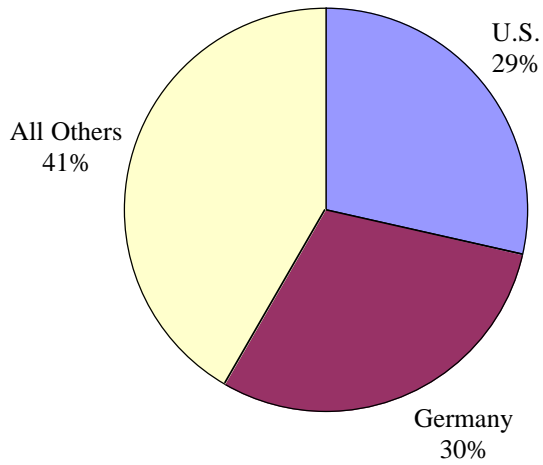
U.S. and German Alpha Acid Production 1992 - 2002



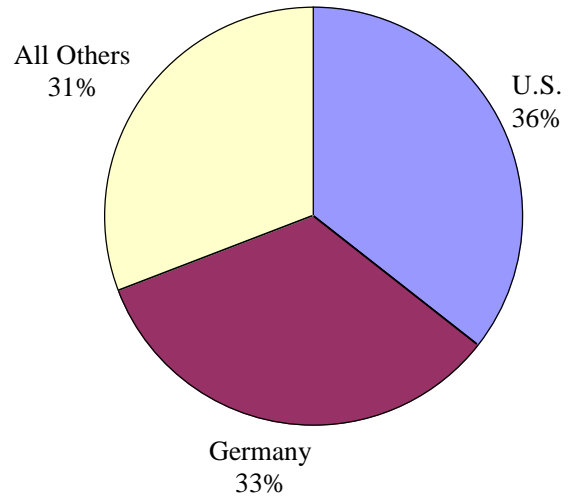
U.S. and German Average Alpha Acid Percentage 1992 - 2002



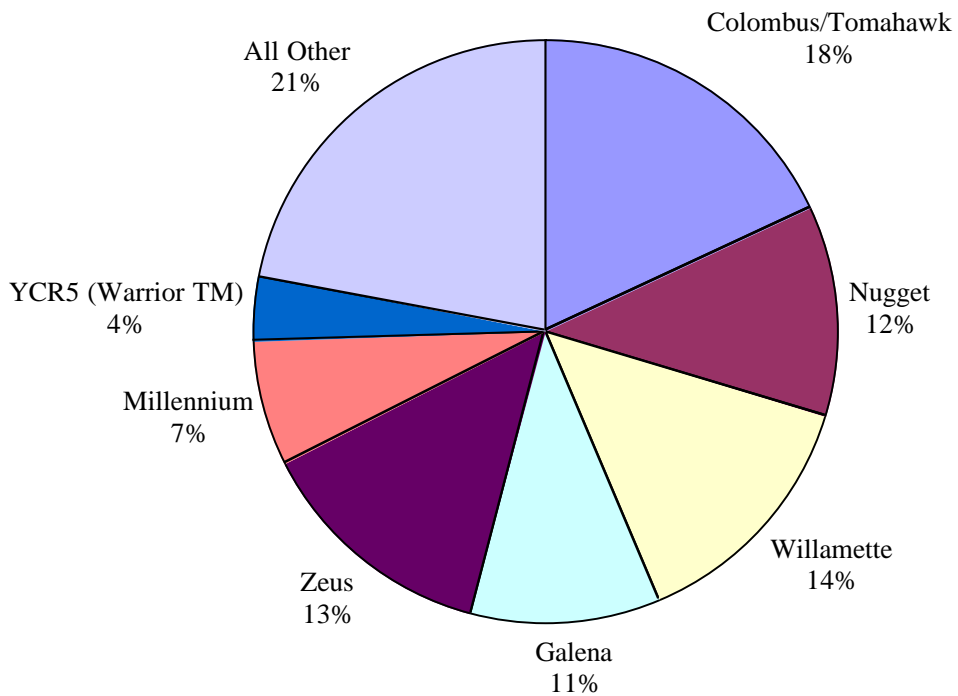
U.S. & GERMAN 2002 ALPHA ACREAGE & THE % OF WORLD ALPHA ACREAGE THEY REPRESENT



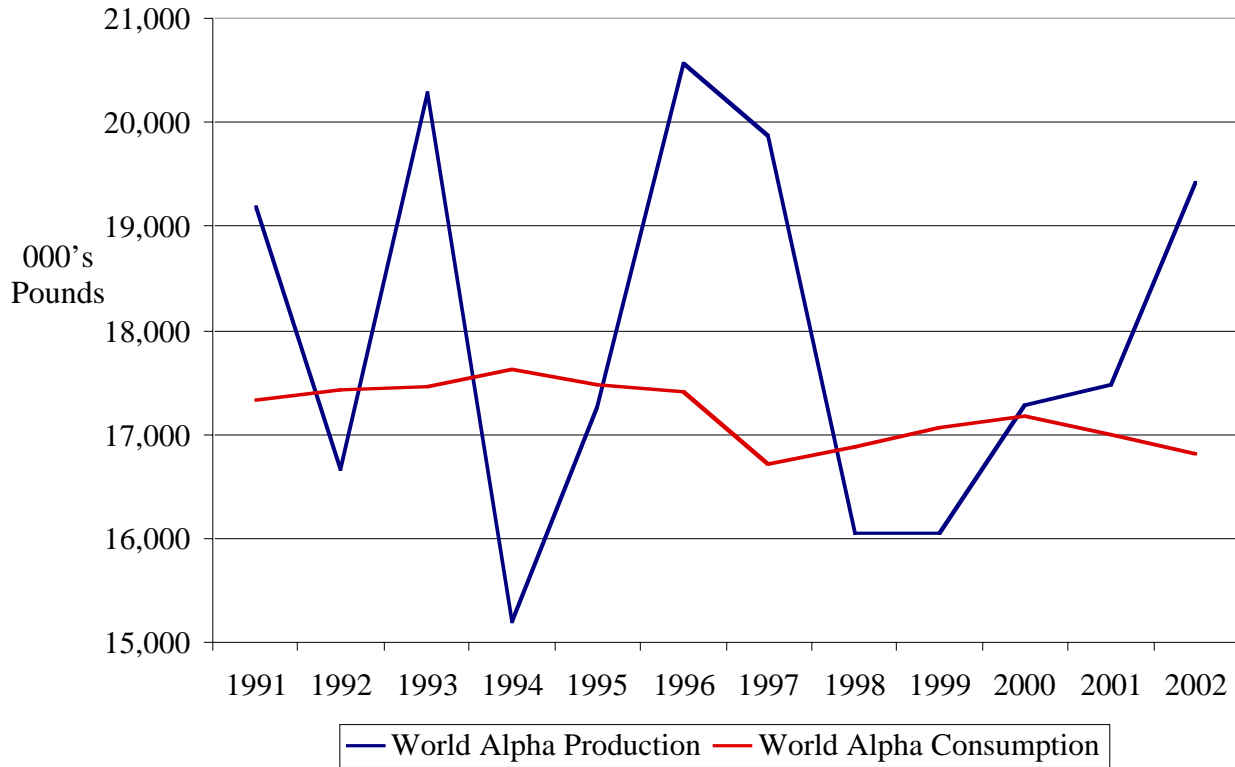
U.S. & GERMAN 2002 ALPHA PRODUCTION & THE % OF WORLD ALPHA PRODUCTION THEY REPRESENT



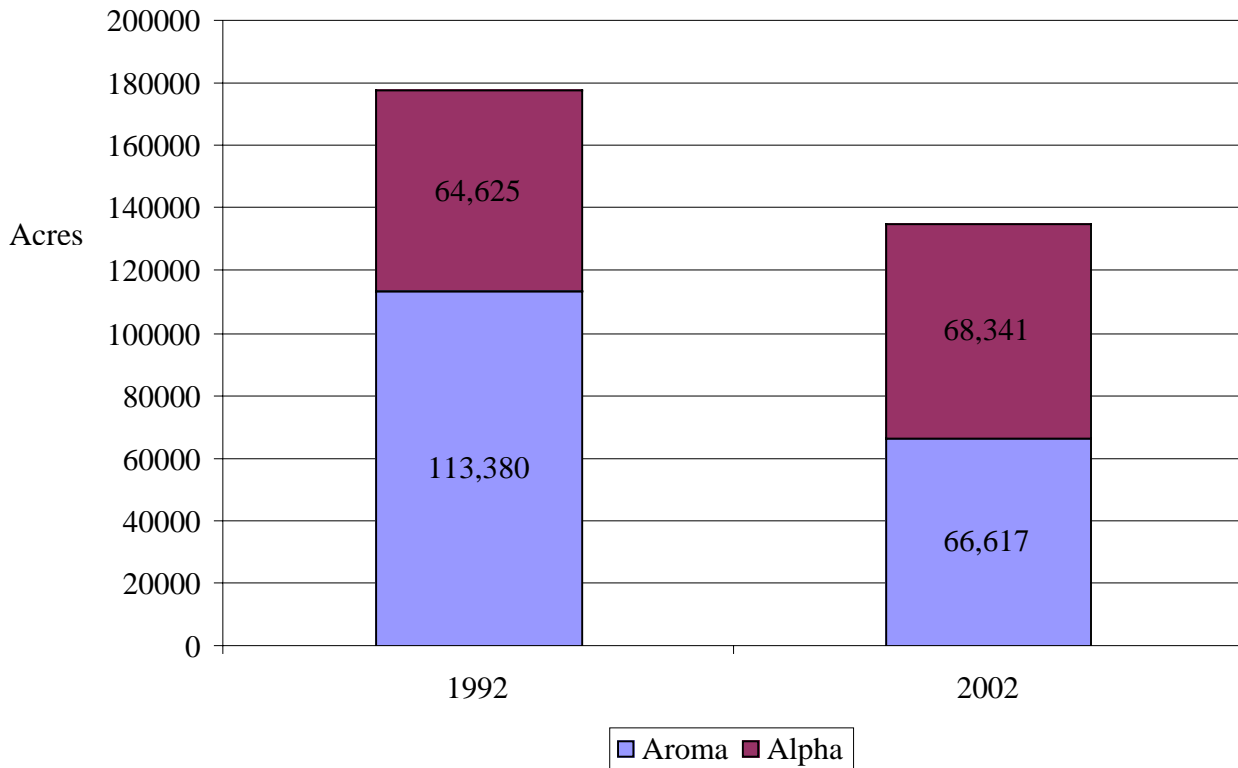
TOP 7 VARIETIES PRODUCED IN THE U.S. AND THE % OF THE CROP THEY REPRESENT



**WORLD ALPHA PRODUCTION TREND VERSUS  
WORLD ALPHA CONSUMPTION TREND 1992-2002**



**COMPOSITION OF WORLD HOP ACREAGE  
1992 VERSUS 2002 (IN ACRES)**



***IHGC SOLD AHEAD SURVEY 2003 – 2006 (as reported in November 2002)***

COUNTRY	2002 Production (Pounds)	(Pounds contracted, % based on 2002 production)			
		2003	2004	2005	2006
Australia	5,256,648.2	No Data	No Data	No Data	No Data
Belgium	964,512.5	96,451	77,161	No Data	No Data
Bulgaria	667,993.8	No Data	No Data	No Data	No Data
China	31,233,670	No Data	No Data	No Data	No Data
Czech Rep.	13,668,520	11,754,927	8,884,538	No Data	No Data
Germany	69,444,900	38,889,144	29,861,307	24,305,715	13,888,980
France	3,417,350.5	3,314,830	341,735	No Data	No Data
New Zealand	1,948,866.4	1,286,252	1,188,809	915,967	643,126
Poland	3,968,280.0	3,293,672	No Data	No Data	No Data
Portugal	125,662.2	98,017	98,017	No Data	No Data
Russia	970,024.0	758,559	485,012	No Data	No Data
Slovakia	771,610.0	617,288	617,288	No Data	No Data
Slovenia	4,850,120.0	2,910,072	2,425,060	1,940,048	1,940,048
Spain	293,432.3	278,761	278,761	No Data	No Data
UK - England	5,848,803.8	2,924,402	1,462,201	877,321	No Data
Ukraine	2,204,600.0	No Data	No Data	No Data	No Data
USA*	56,911,749	31,870,579	18,780,877	14,227,937	1,707,352
Yugoslavia	1,358,033.6	No Data	No Data	No Data	No Data
South Africa	2,126,336.7	2,126,337	2,126,337	2,126,337	2,126,337
Austria	652,561.6	No Data	No Data	No Data	No Data
<b>TOTAL IHGC</b>	<b>206,031,113</b>	<b>100,219,291</b>	<b>66,627,102</b>	<b>44,393,325</b>	<b>20,305,843</b>
<b>IHGC Contracted</b>		<b>48.64%</b>	<b>32.34%</b>	<b>21.55%</b>	<b>9.86%</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 1998 - 2002***

REPORT YEAR (2002)	REPORT YEAR PRODUCTION	Percent Sold Ahead Based on Report Year Production				
		(2002)	(2003)	(2004)	(2005)	(2006)
1998	59,549,800	122%	84%	70%	40%	13%
1999	64,455,000	81%	63%	42%	32%	10%
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%

- The U.S. Sold Ahead survey was issued in March 2002 using crop production figures from the previous year (in this case 2001). 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)**

<b>COUNTRY</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>
Germany	56,875 25%	54,189 25%	54,078 25%	53,897 26%	52,830 30%	48,638 33%	45,177 32%	45,915 32%	46,965 33%	45,318 33%
England	8,332 4%	7,863 4%	7,781 4%	7,843 4%	7,764 4%	6,047 4%	5,636 4%	4,828 3%	5,035 3%	4,681 3%
Czech/Slovak	28,663 12%	28,169 13%	27,601 13%	25,587 13%	20,411 12%	15,091 10%	15,842 11%	16,703 12%	15,864 11%	14,735 11%
Europe (rest)	57,948 25%	52,541 24%	48,674 23%	41,500 20%	32,447 18%	25,840 17%	24,844 17%	25,682 18%	24,679 17%	23,616 17%
USA	43,100 19%	42,412 19%	43,189 20%	44,161 22%	43,301 24%	36,673 25%	34,260 24%	36,404 25%	35,891 25%	29,309 22%
China	19,800 9%	19,800 9%	17,300 8%	16,300 8%	12,355 7%	10,556 7%	10,556 7%	10,829 7%	11,884 8%	13,930 10%
World (rest)	14,977 7%	14,677 7%	14,557 7%	14,250 7%	7,645 4%	6,577 4%	6,530 5%	3,255 2%	4,139 3%	4,364 3%
World Totals	229,695	219,651	213,180	203,538	176,753	149,422	142,845	143,616	144,457	135,944

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

<b>COUNTRY</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>
Germany	93,626 31%	62,687 24%	75,224 27%	81,571 29%	74,957 30%	68,166 33%	60,462 29%	62,709 30%	68,343 32%	69,444 34%
England	12,364 4%	10,709 4%	9,106 3%	11,250 4%	9,433 4%	7,209 3%	6,945 3%	6,082 3%	6,019 3%	5,849 3%
Czech/Slovak	23,243 8%	22,642 9%	24,136 9%	24,141 9%	18,105 7%	11,751 6%	14,771 7%	10,815 5.1%	14,669 7%	13,668 7%
Europe (rest)	49,564 16%	40,258 15%	41,235 15%	35,819 13%	29,533 12%	24,857 12%	25,904 13%	23,174 11%	22,704 11%	18,178 9%
USA	76,144 25%	74,560 28%	78,852 28%	74,971 27%	74,872 30%	59,548 29%	64,455 31%	67,576 32%	66,832 31%	58,336 28%
China	29,762 10%	38,500 15%	35,275 13%	35,274 13%	26,786 11%	26,581 13%	26,455 13%	33,152 15%	29,786 14%	31,224 15%
World (rest)	19,865 7%	12,700 5%	17,762 6%	17,538 6%	12,566 5%	8,823 4%	7,685 4%	7,937 4%	8,114 4%	9,332 5%
World Totals	304,568	262,056	281,590	280,563	246,252	206,935	206,677	211,445	215,639	206,031

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

**SEPTEMBER 1 U.S. HOP STOCKS 1982 – 2002**

(000's Pounds)			
Year	Brewer	Dealer / Grower	TOTAL
1982	43,740	2,090	47,030
1983	56,700	3,000	61,080
1984	60,480	6,256	68,096
1985	58,130	10,930	70,460
1986	60,630	8,930	70,950
1987	62,430	6,580	70,630
1988	49,090	9,160	60,000
1989	43,200	8,500	51,700
1990	46,810	5,080	51,890
1991	45,200	9,000	54,200
1992	46,270	9,980	56,250
1993	45,520	12,540	58,060
1994	47,070	15,930	63,000
1995	42,800	13,100	55,900
1996	47,000	11,700	58,700
1997	44,500	17,500	62,000
1998	41,000	14,000	55,000
1999	39,500	14,500	54,000
2000	37,500	10,500	48,000
2001	38,000	16,000	54,000
2002	30,000	35,000	65,000

SOURCE: USDA NASS. Prepared by HGA.

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

**U.S. HOP TRADE BALANCE**

Year	Value of Hop Imports <sup>1</sup>	Value of U.S. Hop Exports <sup>2</sup>	TRADE SURPLUS
	----- (x US\$1.000) -----		
1991-92	\$41,226	\$103,914	\$62,688
1992-93	\$23,661	\$108,275	\$84,614
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

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 1992–2002**

YEAR	UNITED STATES		GERMANY	
	Pounds** (x 1,000)	Avg Alpha*	Pounds (x 1,000)	Avg. Alpha
1992	6,953	9.4	3,053	4.8
1993	7,767	10.2	5,970	6.4
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

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.

**WORLD ALPHA PRODUCTION & CONSUMPTION 1992 - 2002**

ALPHA PRODUCTION			ALPHA CONSUMPTION (thousands of pounds)			Estimated Accumulated Surplus/Deficit Worldwide** (thousands of pounds)
Pounds (x 1,000)			Alpha Dosage	Alpha	Surplus/ Deficit	
Year	World Total	Year	grams alpha / hl	Consumption*		
1991	19,191	1992	6.7	17,333	1,858	-402
1992	16,666	1993	6.5	17,427	-762	-1,164
1993	20,278	1994	6.3	17,458	2,820	1,656
1994	15,207	1995	6.2	17,627	-2,420	-764
1995	17,260	1996	6.0	17,475	-215	-979
1996	20,576	1997	5.7	17,403	3,172	2,194
1997	19,867	1998	5.6	16,715	3,151	5,345
1998	16,055	1999	5.5	16,882	-827	4,518
1999	16,045	2000	5.5	17,054	-1,009	3,290
2000	17,273	2001	5.5	17,171	103	2,798
2001	17,478	2002	5.4	17,000	478	3,276
2002	19,424	2003	5.3	16,810	2,614	5,890

SOURCE: IHGC, 2002 Hop Merchant Reports, Prepared by HGA \* Consumption estimated by calculating averages from both Steiner and Barth report projections. Production is at harvest values and includes hops lost to fire. \*\*Estimated accumulated surplus/deficit DOES NOT include alpha destroyed by fires to more accurately reflect potential real world surpluses. HGA subtracted the following numbers for the alpha adjustment: 1999: 220,000 pounds lost, 2000: 595,000 pounds lost.

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

SEPTEMBER 2001 – AUGUST 2002 (Pounds)						
COUNTRY		CONES	PELLETS	EXTRACT Hop Equiv= X*4	TOTAL	PERCENT OF TOTAL
1	Mexico	174,826	242,067	7,457,789	7,874,682	15.21%
2	Canada	109,790	1,299,844	4,399,540	5,809,174	11.22%
3	Belgium-Luxembourg	55,116	1,371,494	3,357,195	4,783,805	9.24%
4	Germany	73,193	1,003,984	3,310,457	4,387,635	8.47%
5	Brazil	393,084	1,607,609	1,510,606	3,511,298	6.78%
6	United Kingdom	309,308	792,120	1,878,336	2,979,764	5.76%
7	Venezuela	80,469	162,701	2,218,730	2,461,899	4.75%
8	Korea	0	52,911	2,075,870	2,128,781	4.11%
9	Japan	817,253	500,449	472,671	1,790,372	3.46%
10	Colombia	392,422	139,112	1,208,132	1,739,666	3.36%
11	Australia	14,991	10,141	1,604,963	1,630,096	3.15%
12	Hong Kong	0	193,345	1,340,409	1,533,754	2.96%
13	Netherlands	33,069	19,842	1,348,346	1,401,256	2.71%
14	Dominican Republic	0	21,826	1,302,489	1,324,315	2.56%
15	Nigeria	0	0	1,252,224	1,252,224	2.42%
16	Russia	0	255,736	443,570	699,305	1.35%
17	Thailand	0	30,644	668,441	699,085	1.35%
18	Phillipines	0	36,156	580,256	616,412	1.19%
19	Ireland	13,889	63,493	433,869	511,251	0.99%
20	Vietnam	0	0	328,047	328,047	0.63%
	Sub total	2,467,411	7,803,473	37,191,939	47,462,823	91.67%
	All Other Countries	79,366	642,646	3,591,767	4,313,780	8.33%
	<b>TOTAL EXPORTS</b>	<b>2,546,777</b>	<b>8,446,119</b>	<b>40,783,706</b>	<b>51,776,603</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			
	1998 - 1999	1999 - 2000	2000-2001	2001-2002
EUROPE	37%	37%	33%	30%
NORTH AMERICA	25%	22%	22%	26%
SOUTH AMERICA	17%	18%	19%	19%
ASIA	9%	16%	17%	15%
CARIBBEAN	5%	4%	5%	4%
ALL OTHERS	7%	3%	4%	6%

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

## U.S. HOP EXPORTS 97/98 – 01/02 (Pounds x 1,000)

COUNTRY	'97-'98	'98-'99	'99-'00	'00-'01	'01-'02
Canada	3,329	3,256	3,762	5,914	5,809
Mexico	5,619	5,630	5,244	7,515	7,875
Costa Rica	55	27	21	181	176
El Salvador	0	163	7	35	154
Guatemala	7	109	75	57	152
Honduras	21	123	4	81	0
Nicaragua	109	0	49	12	-
Dominican Republic	451	1,300	1,332	2,357	1,324
Jamaica	0	52	161	160	115
Trinidad and Tobago	21	159	7	59	84
Argentina	809	631	768	677	475
Bolivia	353	214	122	38	0
Brazil	4,589	3,209	4,045	6,369	3,511
Chile	170	201	142	159	240
Colombia	2,162	613	799	1,975	1,739
Ecuador	281	108	376	313	233
Peru	263	439	394	159	115
Uruguay	95	43	40	8	4
Venezuela	1,256	783	466	1,306	2,462
Belgium	1,104	1,547	3,096	5,262	4,784
Denmark	60	189	104	249	2
Finland	68	75	247	70	3
France	1,510	288	485	550	83
Germany	4,088	3,669	4,734	6,273	4,387
Hungary	0	391	0	0	0
Ireland	881	939	438	1,054	511
Italy	0	103	178	289	254
Netherlands	754	851	1,631	2,405	1,401
Portugal	510	291	470	143	6
Russia	179	422	399	159	699
Spain	123	60	35	65	62
Switzerland	157	113	31	270	213
United Kingdom	3,499	3,413	2,496	3,277	2,980
Nigeria	116	321	40	1,310	1,252
South Africa	0	66	33	6	0
China	614	66	444	356	205
Hong Kong	1,364	487	1,357	1,924	1,534
Japan	1,020	1,509	1,289	1,778	1,790
Korea	393	126	948	1,850	2,129
Malaysia	152	173	236	206	138
Philippines	653	855	910	850	616
Singapore	52	75	166	107	150
Taiwan	686	0	0	1	7
Australia	512	803	706	1,409	1,630
Sri Lanka	41	66	4	31	0
Thailand	532	532	779	1,270	699
<b>SUB TOTAL</b>	<b>38,665</b>	<b>34,531</b>	<b>39,084</b>	<b>58,585</b>	<b>50,003</b>
<b>ALL OTHERS</b>	<b>757</b>	<b>1,432</b>	<b>1,746</b>	<b>2,894</b>	<b>1,773</b>
<b>TOTAL</b>	<b>39,422</b>	<b>35,963</b>	<b>40,830</b>	<b>61,479</b>	<b>51,776</b>

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 & HOP EXTRACT (Pounds x 1,000)****CONES<sup>1</sup>**

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Yugo	Other	Total
1992-93	227	0	472	1,102	1,810	567	2,919	0	518	4	110	0	7,729
1993-94	265	0	628	0	1,931	1,082	6,228	300	602	28	0	5	11,069
1994-95	280	0	536	0	1,892	1,177	5,974	0	240	62	13	20	10,194
1995-96	328	0	234	0	278	1,345	7,665	209	237	152	0	68	10,516
1996-97	340	0	185	0	317	1,378	6,607	2	97	159	0	119	9,204
1997-98	7	0	203	0	170	1,283	4,652	2	2	112	0	0	6,431
1998-99	85	44	0	0	130	1,402	6,389	2	0	35	0	2	8,089
1999-00	2	0	2	0	663	1,774	5,760	31	0	205	0	11	8,450
2000-01	0	26.7	0	0	69.2	2,313	3,409	1.9	0	97.6	0	0	5,919
2001-02	0	0	0	-	110	2,159	4,349	4.4	0	136	34	0	6,810

**PELLETS**

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Yugo	Other	Total
1992-93	9	0	0	0	7	0	831	340	4	79	0	0	1,270
1993-94	0	0	0	0	53	0	1,634	150	0	201	0	0	2,038
1994-95	4	0	0	42	9	47	1,605	410	0	357	0	2	2,476
1995-96	0	0	0	42	15	0	1,642	294	0	450	0	0	2,443
1996-97	0	0	0	0	90	0	2,438	560	0	441	0	31	3,560
1997-98	181	0	0	0	99	0	2,892	514	0	410	0	99	4,195
1998-99	202	0	0	0	44	0	1,426	304	0	223	0	23	2,222
1999-00	220	0	0	0	2	0	1,675	580	20	106	0	0	2,603
2000-01	1,006	0	0	0	12.3	0	1,296	601	0	163	10	0	3,090
2001-02	562	0	0	0	69	0	1,402	38	0	240	4	0	2,316

**TOTAL EXTRACT – HOP EQUIVALENT (Actual x 4)**

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Yugo	Other	Total
1992-93	0	0	18	0	0	0	44	0	0	203	0	0	265
1993-94	0	0	0	0	0	0	26	0	0	53	0	0	79
1994-95	0	0	0	0	0	0	0	0	0	97	0	0	97
1995-96	0	0	0	0	0	0	133	0	0	17	0	18	168
1996-97	35	0	0	0	0	0	71	0	0	35	0	0	141
1997-98	0	0	0	0	0	0	335	0	0	9	0	0	344
1998-99	0	0	0	0	0	0	6	0	0	105	0	0	111
1999-00	0	0	0	0	0	0	7	27	0	526	0	0	560
2000-01	0	7	0	0	0	10	125	18	0	35	0	1	197
2001-02	0	7	0	0	0	10.6	125	17.6	0	15.8	0	0.8	177

**TOTAL HOP IMPORTS**

Mktg Yr	Aust	Belg	Canada	China	Czech	France	Gemany	NZ	Poland	U.K.	Yugo	Other	Total
1992-93	236	0	490	1,102	1,817	567	3,794	340	522	286	110	0	9,264
1993-94	265	0	628	0	1,984	1,082	7,888	450	602	282	0	5	13,186
1994-95	284	0	536	42	1,901	1,224	7,579	410	240	516	13	22	12,767
1995-96	328	0	234	42	293	1,345	9,440	503	237	619	0	86	13,127
1996-97	375	0	185	0	408	1,378	9,116	562	97	635	0	150	12,906
1997-98	187	0	203	0	269	1,283	7,879	516	2	531	0	99	10,970
1998-99	287	44	0	0	174	1,402	7,821	306	0	363	0	25	10,422
1999-00	222	0	2	0	665	1,774	7,442	638	20	837	0	11	11,614
2000-01	1007	34	0	0	82	2,324	4,831	621	0	296	10	1	9,205
2001-02	562.4	7	0	0	179	2,170	5,876	60	0	392	38	0.8	9,304

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.

**WORLD BEER PRODUCTION 1992, 1997-2002 (MILLION HL)**

	1992	1997	1998	1999	2000	2001	2002
Germany	115.4	114.8	108.3	112.8	110.4	108.5	109.0
Great Britain	54.8	59.1	55.7	57.9	55.3	56.8	56.8
Russia	50.0	25.2	38.9	45.9	60.5	65.0	70.0
Spain	24.3	24.9	24.7	25.9	26.5	27.7	28.0
Netherlands	20.4	24.7	24.5	24.5	25.1	25.2	25.3
France	20.8	19.5	19.4	19.8	18.9	18.9	18.9
Poland	12.6	18.8	22	22.5	23.5	24.1	24.2
Czech Republic	21.9	18.6	18.4	17.9	18.0	17.9	17.5
Belgium	14.4	14.2	14.2	14.2	14.7	15.0	15.1
Italy	11.7	11.5	12.5	12.1	12.6	12.6	12.4
Austria	9.8	9.4	8.4	8.9	8.8	8.6	8.8
Denmark	9.4	9.2	7.5	8	7.5	7.2	7.2
USA	237.3	236.4	238	236.5	233.0	231.0	231.5
Brazil	55.0	88.2	89.2	88.6	90.0	83.0	85.0
Mexico	44.7	51.9	56.9	57.3	60.3	63.5	65.0
Canada	19.2	22.4	22.81	22.9	23.0	23.2	23.2
Colombia	17.0	20.0	18.4	16.5	16.5	16.0	16.0
Venezuela	15.0	17.2	18.1	17.1	15.5	15.8	16.5
Argentina	9.5	12.1	12	13	12.6	12.3	12.4
China	120.0	170.0	180.0	180.0	210.0	225.0	231.2
Japan	69.0	67.7	71.5	71.5	71.0	71.2	70.5
South Korea	18.0	16.7	13.8	13.8	18.6	18.6	19.0
Philippines	14.0	13.5	12.5	12.4	12.2	12.0	12.0
South Africa	23.0	25.0	25.7	25.7	24.5	24.5	24.0
Australia	18.1	17.3	17.8	17.6	17.2	17.2	17.2
Nigeria	7.0	4.3	1.1	1.1	6.0	6.7	6.8
New Zealand	3.8	3.2	4.2	3.2	3.0	3.0	3.1
All Other Countries	143.1	54.9	187.5	197.0	200.2	226.6	229.4
<b>WORLD TOTALS:</b>	<b>1179.2</b>	<b>1,170.7</b>	<b>1,324</b>	<b>1,344.6</b>	<b>1,395.4</b>	<b>1,420.7</b>	<b>1,439.3</b>

SOURCE: Barth & Steiner Reports. Prepared by HGA  
\*estimate

***THANK YOU***

Hop Growers of America would like to thank the many companies and government agency employees that provided the information presented in the 2002 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