



# HAWAII BANANAS

## ANNUAL SUMMARY

FREQUENCY: Annual

RELEASE: July 25, 2001

### 2000 HAWAII BANANA OUTPUT CONTINUES SETTING RECORD GROWTH

Hawaii banana production reached a record breaking **29.0** million pounds in 2000, up 4.5 million pounds from the previous year and the fourth consecutive year of increase, according to the Hawaii Agricultural Statistics Service (HASS). Maturing Cavendish variety acreage on Hawaii and Honolulu counties was the main reason for heavier yields and higher utilization. Hawaii Apple bananas also experienced increases in acreage and output. Banana Bunchy Top Virus (BBTV) control and eradication efforts were ongoing. Weather for 2000 was generally favorable with no major wind damage. In November, heavy rains drenched parts of East Hawaii resulting in light damage to major orchards.

#### In this Issue:

2000 Summary .....	1
Banana Statistics by County .....	2
Banana Statistics by Variety .....	3
Banana Acreage by Yield .....	4
Historical Data .....	5
U.S. Fresh Imports .....	6

#### ACREAGE

Total acreage as of February 2001 was 1,710 acres, 50 acres less than February last year. Harvested acreage totaled a record 1,550 in 2000, up 130 acres from a year earlier. Cavendish bananas accounted for nearly 60 percent of the acreage with Hawaii Apple making up the remainder. In 2000, growers planted 160 new or replanted acres statewide, the lowest amount planted since 1994. About 210 acres are intended to be planted during 2001.

*(Continued on page 4)*



Hawaii Agricultural  
Statistics Service  
Fact Finding For Agriculture

HAWAII DEPARTMENT OF AGRICULTURE  
U.S. DEPARTMENT OF AGRICULTURE  
P.O. BOX 22159  
HONOLULU, HI 96823-2159  
(808) 973-9588  
FAX: (808) 973-2909  
internet:  
<http://www.nass.usda.gov/hi/fruit/annban.htm>

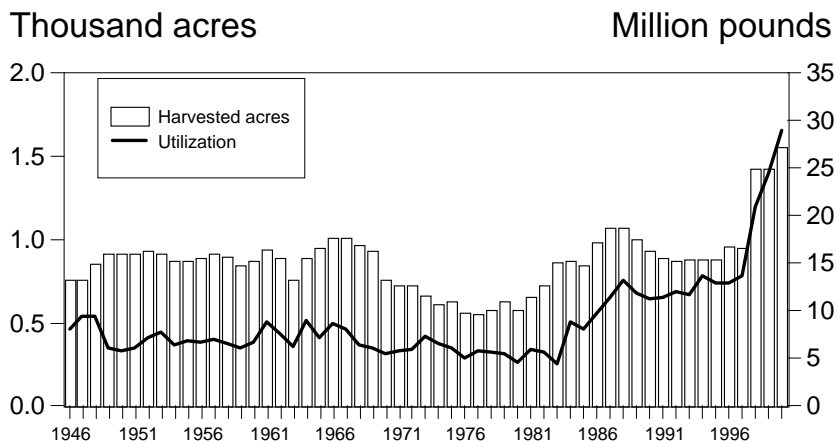
**Donald A. Martin**  
State Agricultural Statistician

**Regina W. Hidano**  
Research Statistician

**Karen A. Lee**  
Statistical Assistant

Contributing: James Yamaki - Hawaii  
Naomi Landgraf - Maui  
June Okamura - Honolulu & Kauai  
Wendell Au - Honolulu

### BANANAS: Acres Harvested and Utilization, State of Hawaii, 1946-2000



HASS

# BANANA STATISTICS BY COUNTY

**Table 1. BANANAS: Acreage by variety, State of Hawaii, 1999-2000, with 2001 intentions <sup>1</sup>**

	Variety				New plantings 2000	Planting intentions 2001
	Hawaii Apple <sup>2</sup>		Cavendish <sup>3</sup>			
	1999	2000	1999	2000		
<i>Acres</i>						
<b>State</b>	<b>700</b>	<b>735</b>	<b>1,060</b>	<b>975</b>	<b>160</b>	<b>210</b>

<sup>1</sup>As of February following year, i.e., acreage data shown for 2000 is as of February 2001. <sup>2</sup>Includes Dwarf Hawaii Apple and Apple bananas, formerly called Brazilian. <sup>3</sup>Includes Chinese, Williams, Valery, and Grand Nain. Bluefields, Dwarf Bluefields, and other bananas are also included with Cavendish.

**Table 2. BANANAS: Number of farms, acreage, yield, utilization, price, and value, by county, 1996-2000**

Year	Farms	Acreage		Yield per acre (harvested)	Utilization Fresh	Farm price	Value of sales
		In crop <sup>1</sup>	Harvested <sup>2</sup>				
	<i>Number</i>	<i>----- Acres -----</i>		<i>----- 1,000 pounds -----</i>	<i>Cents per pound</i>	<i>1,000 dollars</i>	
<b>State <sup>3</sup></b>							
1996	170	1,240	960	13.5	13,000	40.0	5,200
1997	170	1,590	950	14.4	13,700	38.0	5,206
1998	200	1,600	1,420	14.8	21,000	35.0	7,350
1999	210	1,760	1,420	17.3	24,500	35.0	8,575
<b>2000</b>	<b>210</b>	<b>1,710</b>	<b>1,550</b>	<b>18.7</b>	<b>29,000</b>	<b>36.0</b>	<b>10,440</b>
<b>Counties:</b>							
<b>Hawaii</b>							
1996	41	695	495	17.0	8,400	35.5	2,982
1997	48	840	550	17.8	9,800	34.0	3,352
1998	50	740	665	16.7	11,100	31.0	3,430
1999	45	830	650	18.2	11,800	32.5	3,819
<b>2000</b>	<b>45</b>	<b>815</b>	<b>735</b>	<b>19.3</b>	<b>14,200</b>	<b>34.5</b>	<b>4,927</b>
<b>Honolulu</b>							
1996	78	435	380	8.4	3,200	48.5	1,555
1997	75	635	320	8.6	2,750	46.5	1,276
1998	75	715	655	13.1	8,600	38.0	3,268
1999	85	785	670	16.9	11,300	35.5	4,039
<b>2000</b>	<b>80</b>	<b>760</b>	<b>705</b>	<b>19.1</b>	<b>13,500</b>	<b>35.5</b>	<b>4,826</b>
<b>Kauai</b>							
1996	29	55	45	11.3	510	42.5	218
1997	28	40	35	12.9	450	43.5	196
1998	40	60	50	10.0	500	42.5	212
1999	40	60	50	10.2	510	42.5	218
<b>2000</b>	<b>45</b>	<b>60</b>	<b>50</b>	<b>11.0</b>	<b>550</b>	<b>43.0</b>	<b>236</b>
<b>Maui</b>							
1996	22	55	40	22.3	890	50.0	445
1997	19	75	45	15.6	700	54.5	382
1998	35	85	50	16.0	800	55.0	440
1999	40	85	50	17.8	890	56.0	499
<b>2000</b>	<b>40</b>	<b>75</b>	<b>60</b>	<b>12.5</b>	<b>750</b>	<b>60.0</b>	<b>451</b>

<sup>1</sup>As of February following year, i.e., acreage data shown for 2000 is as of February 2001. <sup>2</sup>Acreage reflects quarterly average during the year.

<sup>3</sup>County totals may not add to State totals due to rounding.

# BANANA STATISTICS BY VARIETY

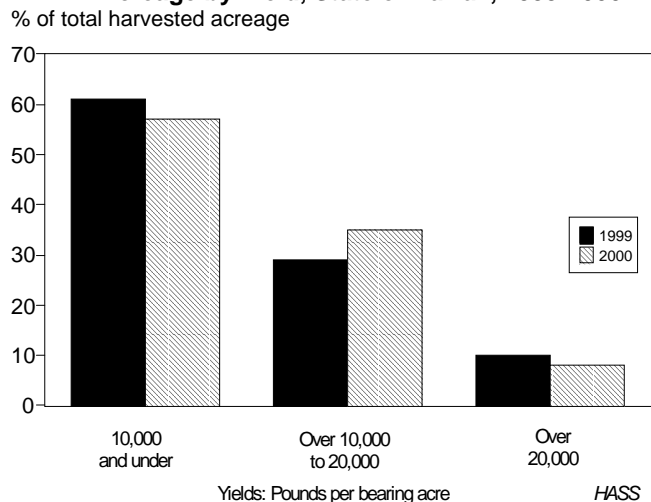
**Table 3. BANANAS: Utilization, acreage, and price, State of Hawaii, 1996-2000**

Year	Utilization Fresh													Acreage		
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested	
----- 1,000 pounds -----															----- Acres -----	
<b>All Bananas</b>																
1996	1,175	840	825	825	816	862	1,200	1,544	1,281	1,442	1,264	926	13,000	1,240	960	
1997	1,021	840	764	802	990	1,118	1,362	1,419	1,230	1,432	1,365	1,357	13,700	1,590	950	
1998	1,196	1,096	1,261	1,359	1,516	1,943	2,163	2,117	2,112	2,095	2,063	2,079	21,000	1,600	1,420	
1999	1,739	1,743	1,968	1,714	2,124	2,090	2,323	2,500	2,363	2,151	1,820	1,965	24,500	1,760	1,420	
<b>2000</b>	<b>2,148</b>	<b>2,221</b>	<b>2,583</b>	<b>2,371</b>	<b>2,442</b>	<b>2,620</b>	<b>2,553</b>	<b>2,350</b>	<b>2,638</b>	<b>2,465</b>	<b>2,603</b>	<b>2,006</b>	<b>29,000</b>	<b>1,710</b>	<b>1,550</b>	
<b>Hawaii Apple<sup>1</sup></b>																
1996	333	272	254	270	322	300	354	438	427	487	424	319	4,200	560	495	
1997	369	327	342	303	311	279	303	364	326	364	349	363	4,000	540	445	
1998	344	345	388	367	308	281	322	367	385	390	397	506	4,400	660	510	
1999	487	442	418	392	398	402	360	386	390	429	403	393	4,900	700	530	
<b>2000</b>	<b>410</b>	<b>438</b>	<b>496</b>	<b>479</b>	<b>407</b>	<b>447</b>	<b>440</b>	<b>445</b>	<b>454</b>	<b>458</b>	<b>518</b>	<b>508</b>	<b>5,500</b>	<b>735</b>	<b>610</b>	
<b>Cavendish<sup>2</sup></b>																
1996	842	568	571	555	494	562	846	1,106	854	955	840	607	8,800	680	465	
1997	652	513	422	499	679	839	1,059	1,055	904	1,068	1,016	994	9,700	1,050	505	
1998	852	751	873	992	1,208	1,662	1,841	1,750	1,727	1,705	1,666	1,573	16,600	940	910	
1999	1,252	1,301	1,550	1,322	1,726	1,688	1,963	2,114	1,973	1,722	1,417	1,572	19,600	1,060	890	
<b>2000</b>	<b>1,738</b>	<b>1,783</b>	<b>2,087</b>	<b>1,892</b>	<b>2,035</b>	<b>2,173</b>	<b>2,113</b>	<b>1,905</b>	<b>2,184</b>	<b>2,007</b>	<b>2,085</b>	<b>1,498</b>	<b>23,500</b>	<b>975</b>	<b>940</b>	
FARM PRICE FOR FRESH MARKET																
<i>Cents per pound</i>																
<b>All Bananas<sup>3</sup></b>																
1996	39.5	41.0	41.0	41.0	42.5	41.5	39.5	39.0	40.0	39.0	39.0	39.5	40.0			
1997	44.0	44.5	45.0	43.0	38.0	36.0	34.5	35.5	36.0	35.5	34.5	34.5	38.0			
1998	36.0	38.5	37.5	38.0	37.5	35.5	34.5	33.5	33.0	32.5	33.5	34.5	35.0			
1999	37.0	38.5	38.0	37.5	35.0	33.5	32.5	33.0	33.0	33.5	36.5	35.0	35.0			
<b>2000</b>	<b>36.0</b>	<b>38.5</b>	<b>37.5</b>	<b>39.0</b>	<b>37.5</b>	<b>34.5</b>	<b>33.0</b>	<b>32.0</b>	<b>33.0</b>	<b>36.5</b>	<b>36.5</b>	<b>38.0</b>	<b>36.0</b>			
<b>Hawaii Apple<sup>1</sup></b>																
1996	50.5	52.0	52.0	52.0	51.5	51.5	50.0	49.5	49.5	49.0	49.5	50.0	50.5			
1997	48.5	49.5	49.5	50.0	50.5	52.0	51.5	51.0	51.0	50.0	50.0	49.5	50.0			
1998	49.5	49.5	49.0	49.0	50.0	53.0	53.0	51.0	50.5	50.0	49.5	48.5	50.0			
1999	48.0	47.5	47.0	47.0	47.5	47.5	47.5	48.0	47.5	47.5	48.0	48.0	47.5			
<b>2000</b>	<b>46.5</b>	<b>46.5</b>	<b>46.0</b>	<b>47.5</b>	<b>47.0</b>	<b>47.0</b>	<b>47.0</b>	<b>47.5</b>	<b>47.5</b>	<b>47.0</b>	<b>46.5</b>	<b>47.5</b>	<b>47.0</b>			
<b>Cavendish<sup>4</sup></b>																
1996	34.5	36.0	36.0	36.0	36.5	36.0	35.5	35.0	35.0	33.5	34.0	34.0	35.0			
1997	38.0	41.5	42.0	42.0	38.5	32.0	30.5	29.5	30.0	30.0	30.0	29.0	33.0			
1998	30.0	33.5	32.5	33.5	34.0	32.5	31.0	29.5	28.5	28.5	29.5	30.0	30.5			
1999	32.5	35.0	35.5	34.5	31.5	30.0	29.5	30.0	30.0	29.5	33.0	31.5	31.5			
<b>2000</b>	<b>33.5</b>	<b>36.0</b>	<b>35.5</b>	<b>36.5</b>	<b>35.5</b>	<b>31.5</b>	<b>30.0</b>	<b>28.0</b>	<b>30.0</b>	<b>34.0</b>	<b>34.0</b>	<b>34.5</b>	<b>33.0</b>			

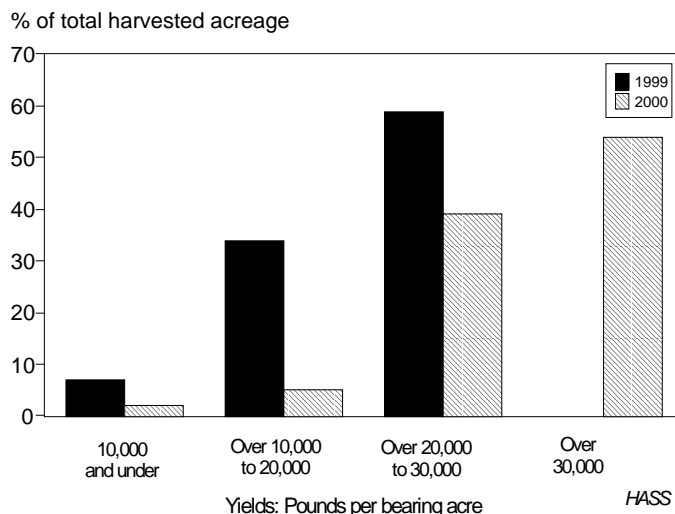
<sup>1</sup> Includes Dwarf Hawaii Apple and Apple bananas, formerly called Brazilian. <sup>2</sup> Includes Chinese, Williams, Valery, and Grand Nain. Bluefields, Dwarf Bluefields, and other bananas are combined with Cavendish beginning 1993. Previous publications provide a breakdown for Bluefields. <sup>3</sup> Includes Bluefields, Dwarf Bluefields, and other bananas. <sup>4</sup> Includes Chinese, Williams, Valery, and Grand Nain.

# BANANA ACREAGE DISTRIBUTED BY YIELD

**BANANAS: Distribution of Harvested Hawaii Apple Acreage by Yield, State of Hawaii, 1999-2000**



**BANANAS: Distribution of Harvested Cavendish Acreage by Yield, State of Hawaii, 1999-2000**



**Table 4. BANANAS: Distribution of harvested acreage by yield, State of Hawaii, 1999-2000**

Stratum: Yield per harvested acre	Variety							
	Hawaii Apple <sup>1</sup>				Cavendish <sup>2</sup>			
	Harvested acres		Average yield		Harvested acres		Average yield	
	1999	2000	1999	2000	1999	2000	1999	2000
<i>Pounds</i>	----- <i>Pounds</i> -----							
Over 30,000	3	3	3	3	3	509	3	30,100
20,001 - 30,000	<sup>4</sup> 50	<sup>4</sup> 47	<sup>4</sup> 22,400	<sup>4</sup> 21,500	<sup>4</sup> 529	363	<sup>4</sup> 27,300	20,400
10,001 - 20,000	156	217	14,500	13,500	301	50	16,200	14,200
10,000 and Under	324	346	5,200	4,900	60	18	5,200	4,800
<b>Total</b>	<b>530</b>	<b>610</b>	<b>9,200</b>	<b>9,000</b>	<b>890</b>	<b>940</b>	<b>22,000</b>	<b>25,000</b>

<sup>1</sup> Includes Apple and dwarf varieties, formerly called Brazilian.

<sup>2</sup> Includes Chinese, Williams, Valery, and Grand Nain. Bluefields, Dwarf Bluefields, and other bananas are included with Cavendish.

<sup>3</sup> Data not shown separately but combined and included in "20,001-30,000" pounds per acre.

<sup>4</sup> Includes "Over 30,000" pounds per acre.

## SALES AND YIELD

Overall Statewide yields averaged 18,700 pounds per acre in 2000 compared to 17,300 pounds during the previous year. Cavendish production totaled 23.5 million pounds, up 20 percent from 1999, accounting for 81 percent of the State total. Large Cavendish acreage planted in recent years ago contributed towards an increase in yields. The overall average yield for Cavendish was 25,000 pounds per acre, up 3,000 pounds from 1999. More than half of the acreage produced over 30,000 pounds per acre compared to a year ago when most of the acreage ranged between 20,001-30,000 pounds. Hawaii Apple output was 12 percent more than 1999 to 5.5 million pounds. Hawaii Apple bananas yielded 9,000 pounds per acre, down 200 pounds from the previous year. About 57 percent of the Hawaii Apple acreage averaged 10,000 pounds or less per acre. Hawaii and Honolulu counties contributed 96 percent of the total banana utilization. Maui and Kauai counties accounted for the remaining 4 percent.

## FARM PRICES AND VALUE

The 2000 farm price for all varieties of local bananas averaged 36.0 cents per pound, up 1.0 cent from the previous year. Cavendish bananas averaged 33.0 cents per pound, up 1.5 cents from last year. The average farm price for Hawaii Apple was down .5 cent per pound to 47.0 cents. The Statewide farm value reached a record \$10.4 million with higher output and price.

# HISTORICAL DATA

**Table 5. BANANAS: State of Hawaii, 1946-2000**

Year	Farms	Acreage		Yield per acre (harvested)	Utilization Fresh	Farm price <sup>1</sup>	Value of sales
		In crop	Harvested				
	<i>Number</i>	<i>----- Acres -----</i>		<i>----- 1,000 pounds -----</i>		<i>Cents per pound</i>	<i>1,000 dollars</i>
1946	NA	1,000	760	10.7	8,163	4.6	373
1947	NA	1,020	760	12.5	9,475	6.4	608
1948	NA	1,020	850	11.2	9,510	6.0	572
1949	NA	1,010	910	6.7	6,115	7.6	464
1950	NA	1,020	910	6.5	5,870	7.2	424
1951	NA	990	910	6.7	6,085	7.4	451
1952	NA	1,010	930	7.8	7,250	6.7	489
1953	NA	980	910	8.5	7,760	6.5	503
1954	NA	930	870	7.4	6,430	6.8	436
1955	NA	950	870	7.9	6,850	6.5	444
1956	NA	1,000	890	7.6	6,725	6.8	454
1957	NA	1,050	910	7.7	6,985	5.7	398
1958	NA	1,050	900	7.4	6,665	6.8	435
1959	NA	1,010	840	7.4	6,210	7.1	438
1960	NA	1,130	970	7.8	6,810	6.4	435
1961	NA	1,160	940	9.4	8,835	6.7	592
1962	NA	1,110	890	8.7	7,710	6.6	509
1963	NA	1,040	760	8.2	6,245	7.8	484
1964	246	1,090	890	10.1	9,010	7.7	690
1965	243	1,160	950	7.5	7,160	7.7	545
1966	229	1,150	1,010	8.6	8,730	7.7	668
1967	216	1,155	1,010	8.0	8,095	7.0	567
1968	207	1,115	965	6.7	6,485	7.7	499
1969	170	1,038	933	6.6	6,170	9.4	580
1970	182	820	760	7.4	5,600	10.6	594
1971	172	810	725	8.1	5,865	11.6	680
1972	172	795	720	8.3	6,000	12.0	720
1973	171	730	660	11.1	7,295	10.6	773
1974	173	670	610	10.8	6,600	13.1	865
1975	154	690	630	9.8	6,200	13.8	856
1976	152	615	560	9.0	5,030	15.5	780
1977	153	610	550	10.5	5,800	15.6	905
1978	147	660	580	9.8	5,700	18.5	1,055
1979	148	690	630	8.8	5,550	20.5	1,138
1980	159	730	580	7.9	4,600	23.9	1,099
1981	152	760	650	9.2	6,000	25.7	1,542
1982	179	940	720	8.0	5,750	28.6	1,645
1983	183	1,100	860	5.2	4,470	31.2	1,395
1984	180	990	870	10.2	8,900	30.0	2,670
1985	178	1,060	840	9.7	8,160	30.3	2,472
1986	185	1,140	980	9.9	9,700	30.0	2,910
1987	175	1,220	1,070	10.7	11,400	29.7	3,386
1988	160	1,220	1,070	12.3	13,200	33.0	4,356
1989	150	1,150	1,000	11.9	11,900	36.5	4,344
1990	150	1,000	930	12.2	11,300	38.0	4,294
1991	145	970	890	12.8	11,400	41.0	4,674
1992	135	960	870	13.8	12,000	41.0	4,920
1993	130	980	830	14.1	11,700	38.0	4,446
1994	145	1,020	880	15.6	13,700	37.0	5,069
1995	170	1,120	880	14.8	13,000	40.0	5,200
1996	170	1,240	960	13.5	13,000	40.0	5,200
1997	170	1,590	950	14.4	13,700	38.0	5,206
1998	200	1,600	1,420	14.8	21,000	35.0	7,350
1999	210	1,760	1,420	17.3	24,500	35.0	8,575
<b>2000</b>	<b>210</b>	<b>1,710</b>	<b>1,550</b>	<b>18.7</b>	<b>29,000</b>	<b>36.0</b>	<b>10,440</b>

<sup>1</sup> Price rounded to nearest 0.5 cent beginning 1994.

# U.S. FRESH BANANA IMPORTS

**Table 6. BANANAS: U.S. fresh banana imports, quantity and value, 1997-2000**

Year	Quantity	Custom value
	<i>Metric tons</i>	<i>1,000 dollars</i>
1997	3,775,355	1,121,436
1998	3,914,797	1,092,703
1999	4,291,425	1,080,236
<b>2000</b>	<b>4,030,636</b>	<b>1,026,397</b>

The conversion for 1 metric ton = 2,204.6 pounds. Source: U.S. Department of Commerce.

**Table 7. BANANAS: U.S. fresh banana imports, quantity and value, by country, 2000<sup>1</sup>**  
**Harmonized number: 0803002020**

Country	Quantity	Custom value
	<i>Metric tons</i>	<i>1,000 dollars</i>
Mexico	85,141	23,592
Guatemala	688,448	180,314
Honduras	275,603	75,673
Costa Rica	1,361,405	322,212
Panama	28,707	7,271
Dominican Republic	6,437	2,237
Colombia	602,836	176,369
Venezuela	3,852	1,580
Ecuador	975,960	236,566
Nicaragua	1,906	460
Rep of the Philippines	21	14
Peru	302	100
Kyrgyzstan	19	10
<b>Total</b>	<b>4,030,636</b>	<b>1,026,397</b>

The conversion for 1 metric ton = 2,204.6 pounds.

<sup>1</sup> Data may not add due to rounding.

Source: U.S. Department of Commerce.

*In 2000, the U.S. imported 4.0 million metric tons of fresh bananas from foreign sources, down 6 percent from the previous year. Costa Rica and Ecuador continued to account for more than half of the bananas imports. The value posted \$1.0 billion, 5 percent less than the 1999 value.*