

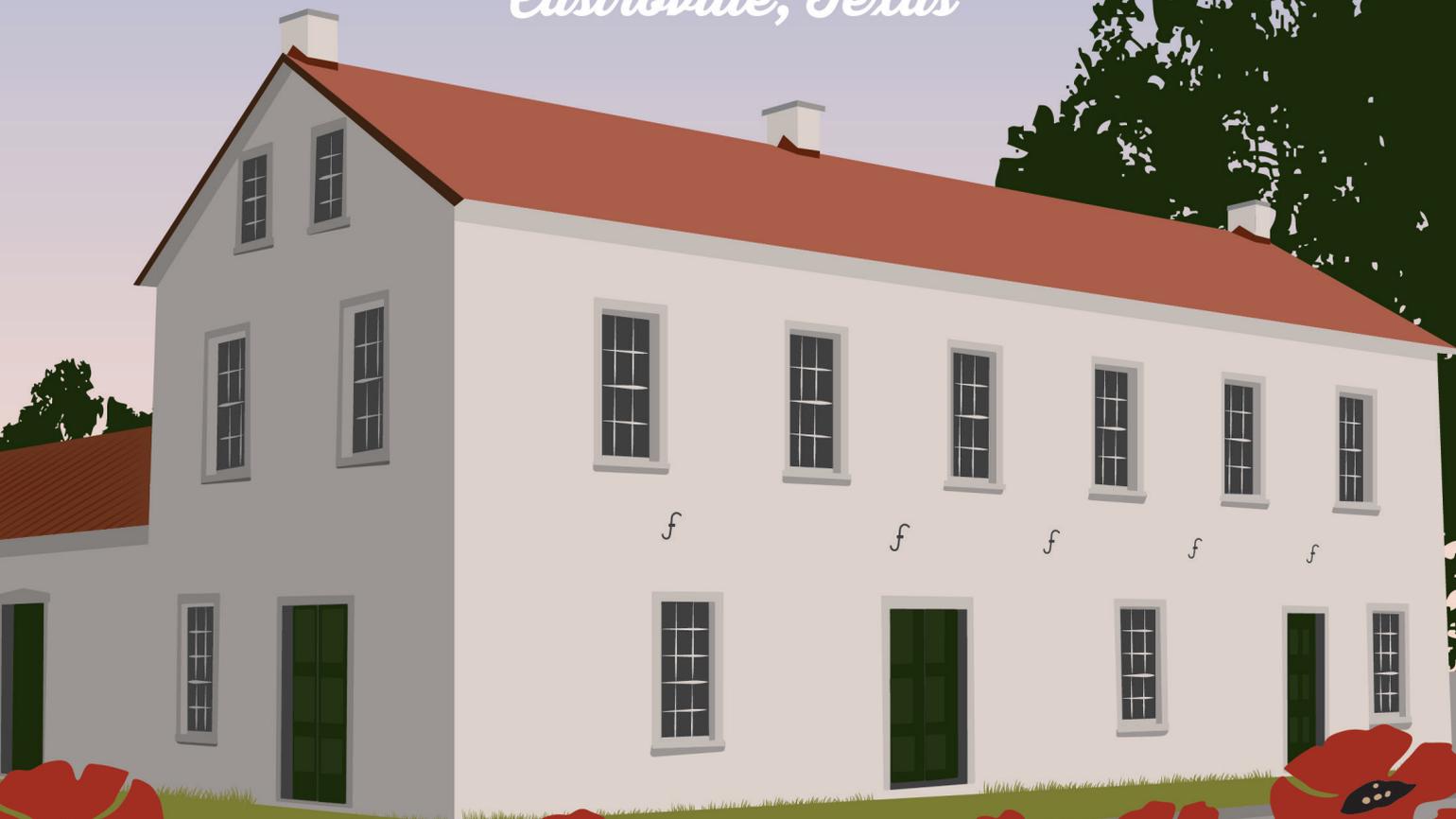
Texas Historical Commission

Post-Visit Guide
Grade 7

LANDMARK INN

— STATE HISTORIC SITE —

Castroville, Texas



Post-Visit Guide

TEXAS
HISTORICAL
COMMISSION 
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Overview: Milling on the Medina

When Henri Castro founded Castroville in 1844, the fledgling settlement was on the edge of the western frontier. The lives of Native Americans, settlers, enslaved people, traders, soldiers, and adventurers intersected at Landmark Inn, built at the entrance to town on the Chihuahua-San Antonio Road. In this lesson, students explore the agricultural and industrial might of the mill, how it changed over time under different owners, and its contributions to the greater community.

Social Studies TEKS

- (9) Geography. The student understands the effects of the interaction between humans and the environment in Texas. The student is expected to:
 - (A) identify ways in which Texans have adapted to and modified the environment and explain the positive and negative consequences of the modifications.
- (19) Science, technology, and society. The student understands the impact of scientific discoveries and technological innovations on the political, economic, and social development of Texas. The student is expected to:
 - (A) compare types and uses of technology, past and present;
 - (C) analyze the effects of various scientific discoveries and technological innovations on the development of Texas such as advancements in the agricultural, energy, medical, computer, and aerospace industries;
 - (D) evaluate the effects of scientific discoveries and technological innovations on the use of resources such as fossil fuels, water, and land.
- (20) Social studies skills. The student applies critical-thinking skills to organize and use information acquired through established research methodologies from a variety of valid sources, including technology. The student is expected to:
 - (A) differentiate between, locate, and use valid primary and secondary sources such as media and news services, biographies, interviews, and artifacts to acquire information about Texas;
 - (B) analyze information by applying absolute and relative chronology through sequencing, categorizing, identifying cause-and-effect relationships, comparing, contrasting, finding the main idea, summarizing, making generalizations and predictions, and drawing inferences and conclusions;
 - (C) organize and interpret information from outlines, reports, databases, and visuals, including graphs, charts, timelines, and maps;
 - (E) support a point of view on a social studies issue or event.

Materials

- ★ Historical images for display distribution
- ★ Making the Mill investigation activity resources

Vocabulary

commercial: relating to the buying and selling of goods and services



Activity: Landmark Inn Visit

5 minutes

Ask students to reflect on their visit to the Landmark Inn by completing all columns of their **KWL chart**. Have students share their experiences including any new questions raised by the visit.

Investigation Activity: Making the Mill

40 minutes

Context: In 1854, John Vance sold the undeveloped, lower portions of his two lots to George Louis Haass and Laurent Quintle for \$4,000. Quintle was an original Castro colonist from France. That year, Haass and Quintle built a stone and wood dam across the Medina River to divert water through an underground mill race into a two-story stone gristmill. Soon after, they also constructed a cotton gin.

The Quintle and Haass mill ownership operated primarily on custom mill work for farmers. The mill took a portion of the cornmeal as payment for the grinding, but the cornmeal itself was returned to the farmer for his use. By 1860, the mill was producing an annual product of 12,000 bushels into cornmeal, valued at \$9,000. The cotton gin produced an annual product of 50 bales of cotton worth \$2,500. By 1880, under the Courand family's ownership, most of the mill work was commercial and the products for market sale. As a custom mill, production was 12,000 bushels of cornmeal in 1860. The Courand commercial mill reportedly produced 1,000,000 pounds of cornmeal and 900 barrels of wheat flour in 1880. With each change in ownership, equipment and mill technology was upgraded so that output continued to grow. Steam engines and boilers were added to ensure that production continued even when water levels were too low. The mill operated continuously until 1925 when the property was sold to the Lawler family.

Introduce the activity by watching these videos from Landmark Inn about [the inn and the Medina River](#) and [gristmill technology](#). Distribute or display the **activity image resources** of an 1854 German language ad for the cotton gin and the mill in 1903.

Ask: How would the opening of this gristmill in Castroville have changed the community?

Distribute or display the **Making the Mill timeline, crops data chart, and investigation worksheet**. Preview each resource. Explain that the crops data chart presents general historical information, but would be applicable to the Castroville gristmill. Students may work individually or in small groups. Share responses when completed.



Answer Key

Mill Timeline

1. S.S. Brown
2. 1879
3. Haas and Quintle
4. A roller
5. J.T. Lawler
6. Hydroelectric plant

Crop Data Chart

1. 39 cents
2. \$1.036
3. 24,157 (62,545 acres - 38,388 acres)

Mill Math Text

1. 32.88 bushels (12,000 bushels/365 days)
2. 1,278 lbs (32.88 bushels * 48 lbs)
3. \$24.66 (\$9,000/365 days)
4. 576,000 (12,000 bushels * 48 lbs)
5. \$390,000 (1,000,000 lbs cornmeal * 39 cents)
6. 81% $(1,000,000 - 552,000) / 552,000 \times 100$

Assessment

Evaluate student engagement and instructional activities for completeness and understanding.

ELAR Activity: Chassard v. Haass and Quintle

(11) **Composition: listening, speaking, reading, writing, and thinking using multiple texts--genres.** The student uses genre characteristics and craft to compose multiple texts that are meaningful. The student is expected to:

(D) **compose correspondence that reflects an opinion, registers a complaint, or requests information in a business or friendly structure.**

(19) **Writing/Persuasive Texts.** Students write persuasive texts to influence the attitudes or actions of a specific audience on specific issues. Students are expected to write persuasive essays for appropriate audiences that establish a position and use supporting details.

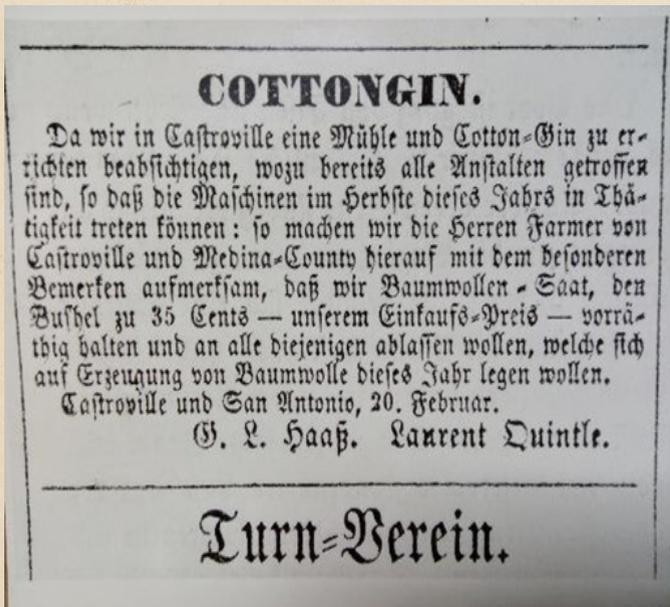
Context: Haass and Quintle were not the first or the only mill operators on the Medina River. Peter Chassard built a mill in 1852, upstream from the Haass-Quintle location. When the partners finished their dam across the Medina River in 1854, the river flooded Chassard's mill and race, putting him out of business. Chassard sued Haass and Quintle and was rewarded \$620 in damages.

Have students recreate the Chassard v. Haass and Quintle suit filed in 1854 in Medina County either orally or in writing. Divide students into two sides, with one side arguing for Chassard to receive damages and one side arguing for Haass & Quintle to be acquitted.



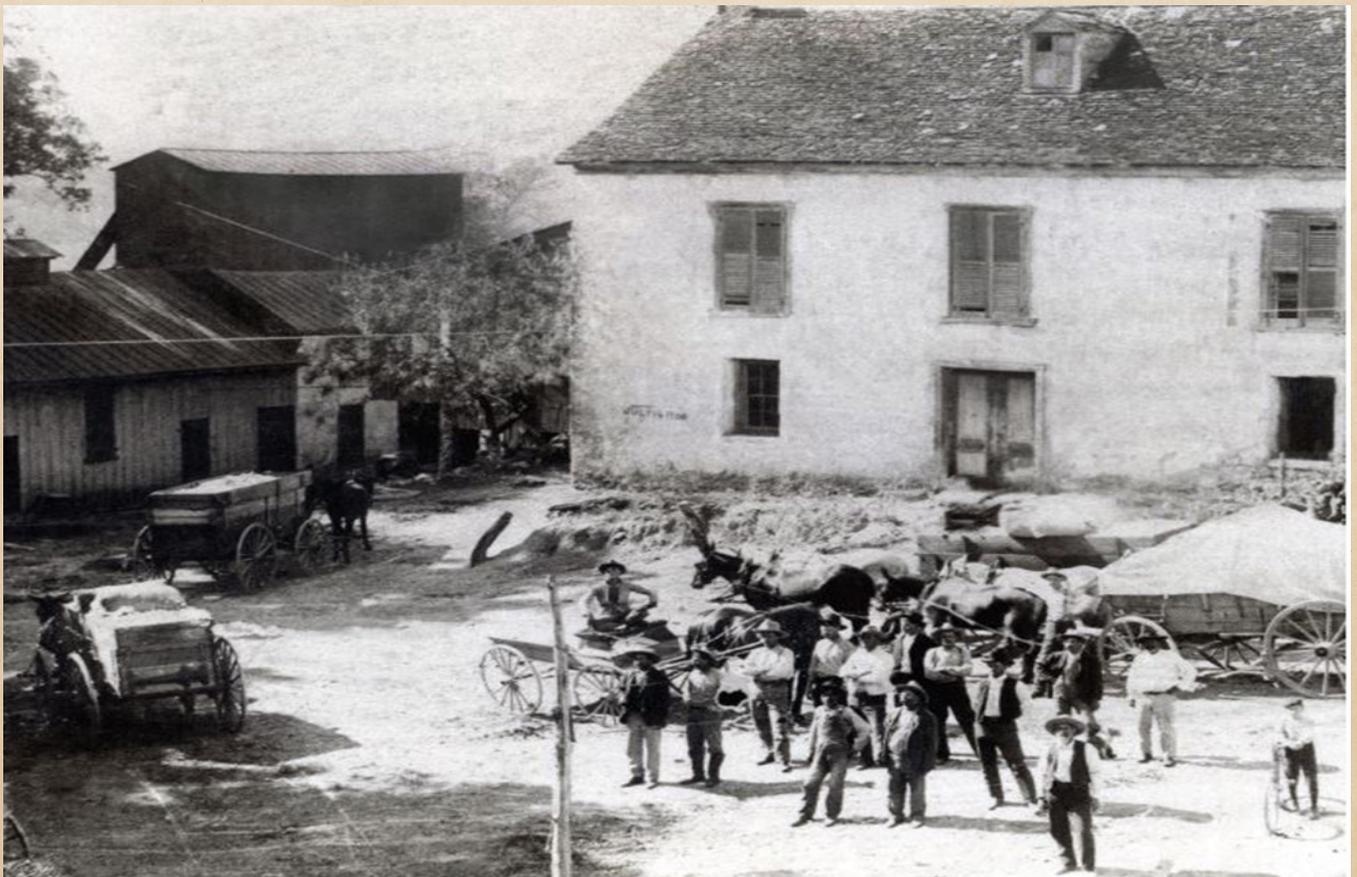
Resource Images: Making the Mill

In 1854, Haass and Quintle ran this notice in the San Antonio Zeitung, a German-language newspaper.



Translation: “Whereas we intend to erect a Mill and Cotton-Gin in Castroville, the preparations for which are already under way with completion of the machinery projected for this fall; we are making the farmers of Castroville and Medina County particularly aware of our offer to sell cottonseed at 35 cents a bushel – our own wholesale purchase price – to all those who would like to raise a cotton crop this year.”

The mill in 1903, under Joseph Courand, Jr. ownership.



Activity Resource: Making the Mill Timeline

1854 - Age of Custom Milling



- Haass and Quintle purchased the riverside portions of the property from Vance for \$4,000. They built the Medina River Dam, a 2-story gristmill, and a gin. The mill was designed by David Monroe of Seguin, who was considered the state's premier mill architect. The cost to build the dam, head race, and mill was \$8,000. In today's money, the \$12,000 total spent by Haass and Quintle would be about a half million dollars.

1869



- S.S. Brown acquired the mill in its entirety and added a 20 horsepower steam engine.

1876



- Joseph Courand, Sr., an early Castroville settler, purchased the mill, dam, and mill race from S.S. Brown. In 1879, the *San Antonio Daily Herald* mentioned the expanded operation of Courand's steam-and water-powered flour, grist, and lumber mill. This was the first mention of flour milling

1879 - Age of Commercial Milling



- Joseph Courand, Jr. and family inherited the mill. In 1880, Courand, Jr. built a new gin on the property. The gin house was built of sheet iron, two-story, and equipped with Brown 60-saw gin and Coleman steam press. In 1890, Courand replaced a set of millstones with a roller mill, which crushed the grain allowing for faster milling. Courand installed a new boiler for the mill in 1897. Prior to 1900, a large wagon scale was installed for weighing wagons of cotton and grain.

1925



- In 1925, the Lawler family purchased the mill and surrounding property. J.T. Lawler held to progressive ideals. He demolished the gin and converted the mill into a hydroelectric power plant, which provided areas of Castroville with electricity, a first for the city



Activity Resource: Crops Data, 1839-1957

Historical statistics of the United States, Colonial Times to 1957 https://www2.census.gov/library/publications/1960/compendia/hist_stats_colonial-1957/hist_stats_colonial-1957-chK.pdf

K 265-285

CROPS

Series K 265-273. Corn and Wheat Acreage, Production, Price, and Stocks: 1839 to 1957—Con.

(Census figures in italics)

Year	Corn for all purposes				All wheat for grain				Corn for all purposes				All wheat for grain			
	Acreage harvested 1,000 acres	Production 1,000 bushels	Price per bushel ¹ Dollars	267	Acreage harvested 1,000 acres	Production 1,000 bushels	Price per bushel ¹ Dollars	271	Acreage harvested 1,000 acres	Production 1,000 bushels	Price per bushel ¹ Dollars	267	Acreage harvested 1,000 acres	Production 1,000 bushels	Price per bushel ¹ Dollars	271
1926	101,331	2,798,367	0.701	1.437	101,331	2,798,367	0.701	1.437	101,331	2,798,367	0.701	1.437	101,331	2,798,367	0.701	1.437
1927	88,408	2,223,123	1.063	1.247	88,408	2,223,123	1.063	1.247	88,408	2,223,123	1.063	1.247	88,408	2,223,123	1.063	1.247
1928	101,128	2,875,292	0.814	0.926	101,128	2,875,292	0.814	0.926	101,128	2,875,292	0.814	0.926	101,128	2,875,292	0.814	0.926
1929	100,845	2,707,306	0.732	0.965	100,845	2,707,306	0.732	0.965	100,845	2,707,306	0.732	0.965	100,845	2,707,306	0.732	0.965
1930	108,155	2,928,442	0.518	1.030	108,155	2,928,442	0.518	1.030	108,155	2,928,442	0.518	1.030	108,155	2,928,442	0.518	1.030
1931	101,359	3,070,604	0.638	1.827	101,359	3,070,604	0.638	1.827	101,359	3,070,604	0.638	1.827	101,359	3,070,604	0.638	1.827
1932	87,772	2,245,833	0.708	1.961	87,772	2,245,833	0.708	1.961	87,772	2,245,833	0.708	1.961	87,772	2,245,833	0.708	1.961
1933	96,145	2,678,541	1.513	2.050	96,145	2,678,541	1.513	2.050	96,145	2,678,541	1.513	2.050	96,145	2,678,541	1.513	2.050
1934	102,195	2,441,249	1.520	2.047	102,195	2,441,249	1.520	2.047	102,195	2,441,249	1.520	2.047	102,195	2,441,249	1.520	2.047
1935	110,898	2,908,242	1.456	1.434	110,898	2,908,242	1.456	1.434	110,898	2,908,242	1.456	1.434	110,898	2,908,242	1.456	1.434
1936	100,561	2,425,206	1.137	1.434	100,561	2,425,206	1.137	1.434	100,561	2,425,206	1.137	1.434	100,561	2,425,206	1.137	1.434
1937	100,623	2,829,044	0.676	0.961	100,623	2,829,044	0.676	0.961	100,623	2,829,044	0.676	0.961	100,623	2,829,044	0.676	0.961
1938	97,796	2,523,750	0.708	0.975	97,796	2,523,750	0.708	0.975	97,796	2,523,750	0.708	0.975	97,796	2,523,750	0.708	0.975
1939	100,206	2,272,540	0.708	0.794	100,206	2,272,540	0.708	0.794	100,206	2,272,540	0.708	0.794	100,206	2,272,540	0.708	0.794
1940	101,451	2,947,842	0.552	0.807	101,451	2,947,842	0.552	0.807	101,451	2,947,842	0.552	0.807	101,451	2,947,842	0.552	0.807
1941	101,388	2,474,635	0.678	0.869	101,388	2,474,635	0.678	0.869	101,388	2,474,635	0.678	0.869	101,388	2,474,635	0.678	0.869
1942	102,267	2,852,794	0.515	0.908	102,267	2,852,794	0.515	0.908	102,267	2,852,794	0.515	0.908	102,267	2,852,794	0.515	0.908
1943	98,333	2,558,160	0.616	0.991	98,333	2,558,160	0.616	0.991	98,333	2,558,160	0.616	0.991	98,333	2,558,160	0.616	0.991
1944	100,200	2,611,167	0.616	0.991	100,200	2,611,167	0.616	0.991	100,200	2,611,167	0.616	0.991	100,200	2,611,167	0.616	0.991
1945	96,285	2,566,742	0.650	0.967	96,285	2,566,742	0.650	0.967	96,285	2,566,742	0.650	0.967	96,285	2,566,742	0.650	0.967
1946	96,094	2,613,797	0.505	0.865	96,094	2,613,797	0.505	0.865	96,094	2,613,797	0.505	0.865	96,094	2,613,797	0.505	0.865
1947	95,624	3,082,910	0.391	0.660	95,624	3,082,910	0.391	0.660	95,624	3,082,910	0.391	0.660	95,624	3,082,910	0.391	0.660
1948	96,746	2,954,148	0.406	0.747	96,746	2,954,148	0.406	0.747	96,746	2,954,148	0.406	0.747	96,746	2,954,148	0.406	0.747
1949	95,228	2,686,624	0.436	0.926	95,228	2,686,624	0.436	0.926	95,228	2,686,624	0.436	0.926	95,228	2,686,624	0.436	0.926
1950	98,555	2,515,098	0.419	0.698	98,555	2,515,098	0.419	0.698	98,555	2,515,098	0.419	0.698	98,555	2,515,098	0.419	0.698
1951	97,177	2,778,954	0.401	0.630	97,177	2,778,954	0.401	0.630	97,177	2,778,954	0.401	0.630	97,177	2,778,954	0.401	0.630
1952	94,422	1,715,762	0.600	0.631	94,422	1,715,762	0.600	0.631	94,422	1,715,762	0.600	0.631	94,422	1,715,762	0.600	0.631
1953	94,852	2,661,978	0.350	0.621	94,852	2,661,978	0.350	0.621	94,852	2,661,978	0.350	0.621	94,852	2,661,978	0.350	0.621
1954	94,914	2,665,354	0.298	0.588	94,914	2,665,354	0.298	0.588	94,914	2,665,354	0.298	0.588	94,914	2,665,354	0.298	0.588
1955	94,591	2,645,796	0.285	0.579	94,591	2,645,796	0.285	0.579	94,591	2,645,796	0.285	0.579	94,591	2,645,796	0.285	0.579
1956	89,945	2,287,628	0.260	0.809	89,945	2,287,628	0.260	0.809	89,945	2,287,628	0.260	0.809	89,945	2,287,628	0.260	0.809
1957	89,074	2,671,048	0.214	0.721	89,074	2,671,048	0.214	0.721	89,074	2,671,048	0.214	0.721	89,074	2,671,048	0.214	0.721

¹ Season average price received by farmers, 1908-1957; Dec. 1 price prior to 1908. ² Corn harvested for grain only.



Primary Source Investigation: Making the Mill

Use information from the Mill Timeline, Crop Data chart, and Mill Math text below to answer the questions.

Mill Timeline

1. Who owned the mill after Haass and Quintle?
2. When did the mill begin processing wheat for flour?
3. Who built the Medina River dam?
4. In 1890, what new equipment did Joseph Courand, Jr. install that made milling faster?
5. Who purchased the mill in 1925?
6. Lawler converted the mill building into what?

Crop Data Chart

1. What were corn bushels worth per pound in 1880?
2. What were flour bushels (all wheat) worth per bushel in 1876?
3. How many more acres of corn were harvested from 1870 to 1880?

Primary Source Investigation: Making the Mill pg.2

In 1860, the annual yield of the Haass and Quintle custom mill was 12,000 bushels of corn ground into cornmeal, valued at \$9,000. (One bushel of cornmeal is estimated to weigh 48 pounds). The cotton gin produced an annual yield of 50 bales of cotton worth \$2,500. By 1880, the commercial Courand mill reportedly produced 1,000,000 pounds of cornmeal and 900 barrels of wheat flour per year.

1. What was the approximate **daily bushel** production of cornmeal by Haass and Quintle in 1860?
2. How many **pounds** is that?
3. How much **money** did Hass and Quintle earn per day producing cornmeal?
4. How many **total pounds** of cornmeal did the mill produce in 1860?
5. How much **money** did Courand make from milling corn into cornmeal in 1880?
6. Calculate the **growth rate percentage** in the number of pounds of cornmeal produced at the Castroville mill between 1860 and 1880 using the following formula:

$$\text{Growth Percent Rate} = \left(\frac{80\text{s Value} - 60\text{s Value}}{60\text{s Value}} \right) \times 100$$

