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Chevrolet Story						
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# The Chevrolet Story



Just sronv of Chevrolet provides an outstanding example of what can be accomplished by an organization which, keeping the public's approval constantly in mind, designs, manufactures and distributes a good product which is strives continually to make a better one.

It is a story that is distinctly American, for it begins in a little experimental shop in Deriot and continues with a record of steady expansion until the company entered World War II with tree manufacturing contexand eleven assembly plants located in ten different states, converted them all to war production—and embarked upon pourwar production with two new assembly plants designed and under construction, with expansions planned for many of its manufacturing plants.

Such growth can surely be accepted as definite proof of the public's approval. In 1912, the first year of its manufacturing existence, Chevrolet produced 2,979 vehicles, the car being a five-passenger touring car that listed at \$2,150 at the factory. It took twelve years to produce the first million whiches, but thereafter the demand increased to such an extent that production was soon averaging more than a million units a year.





In the beginning, however, no one could have foreseen that Chevrolet would have such a phenomenal growth. In 1909, as a matter of fact, when William C. Durant, a successful buggy manufacturer of Flint, Michigan, asked Louis Chevrolet, a well-known race driver, to design a car for introduction to the public, he had not yet formed a company to manufacture it. Two years of experimental work in a small Detroit shop followed before the Chevrolet Motor Company of Michigan was organized November 3, 1911, and then a plant was leased in Detroit and production was started on cars which were introduced to the public the following year.

The prompt public acceptance of the new vehicle made necessary an almost immediate expansion of the company's production facilities. It was necessary also to expand the distribution facilities and, during the next seven years, Chevrolet developed the closely coordinated system of production and distribution upon which its success has so largely rested.

The first expansion was made in 1913, when the home plant at Flint, Michigan, was established and an assembly plant was leased in New York City. Then in 1914 the "Baby Grand" touring car and the "Royal Mail" roadster were introduced. and once again the public demand exceeded the company's ability to produce.



The year 1914 marked the beginning of the far-flung wholesale selling organization which today covers the United States, with zone offices located in 37 principal cities.



The first selling organization was created that year in Oakland, California, and was followed in 1915 by similar offices in Kanasa City, Missouri, and Atlanta, Georgia. 1915 also saw the establishment of additional production facilities at St. Louis, Missouri, and Oshawa, Ontario, Canada. The famous "490" mode was introduced in 1916, and its production was begun in a plant purchased from the Maxwell Motor Companya Tarraytown, NY.

Further expansion came in 1916. A new assembly plant was erected in Flint and others were begun at Fort Worth, Texas, and Oakland, Calif. Manufacturing facilities were increased by the purchase of a plant in Bay Giv. Michigan, for the production of small narts and the acquisition of the

City, Michigan, for the production of a Warner Gear Company at Toledo, Ohio, for the manufacture of gears and transmissions. A new axle plant was added ed at Flint, retail stores were opened in many of the larger cities, principally in the East—and production that year exceeded 70,000 units, a decided increase



1916 through 1922: the "490"

In 1918 Chevrolet became a part of General Motors Corporation and embarked upon another era of expansion. A new assembly plant was started in St. Louis and a new high of nearly 150,000 units was produced that year. 1918 also marked the inauguration of truck production, which thereafter expanded along with the passenger car line. In April 1921 the executive offices of the company were moved from New York to the General Motors Building in Detroit: and in March 1922 a new impetus was given to Chevrolet's rising fortunes by the appointment of William S. Knudsen as vice-president in charge of operations.

During Mr. Knudsen's first year in office Chevrolet took over from General Motors the former Central Products group, made up of the gear, axle and forge plants located in Detroit. The Janesville, Wisconsin, plant of the Samson Tractor Company was also acquired and converted into



another assembly plant. Two other important steps

in the orderly process of expansion were the purchase of land and the beginning of assembly plant construction at Buffalo, N.Y., and Norwood. Ohio, a suburb of Cincinnati. With the introduction of the "Superior"

models, Chevrolet production meanwhile achieved new heights, production for 1922 being just a little less than one-quarter of a million units. Assembly of vehicles was started

the following year at Ianesville, Buffalo and Norwood, and a total of 480,737 units was built. A sheet metal plant was completed at Flint and placed in operation in June 1923.

In 1924 Mr. Knudsen was named president and general manager of Chevrolet, and the following year, with production amounting to more than half a million vehicles for the first time in the company's history, manufacturing facilities were increased by the acquisition of a plant at Bloomfeld. New Ireney, which was devoted to export operations.

The following year, 1926, recorded another expansion, when the Detroit plant of the General Motors Truck Corporation was taken over for the manufacture of Chevrolet front and rear axles. The Chevrolet



another record, passing the million mark for the first time with the production of 1,001,880 cars and trucks.

And public approval of Chevrolet products pushed production up again in 1928, to reach a total of 1,193,212. During this year production was started in another assembly plant, located at Atlanta, Georgia, and construction of still another assembly plant was begun at Kansas City, Missouri.

Late in 1928 Chevrolet discontinued its four-cylinder cars and began production of its six-cylinder "International" models, which were introduced to the public in Jan-

introduced to the public in January 1929. The new model, powered by the famed valve-in-head engine, won instant approval, and the output for 1929 set another all-time high with the production of 1.328.605 cars and trucks.

The 1927 Model



1929: the "International"

Nor did expansion stop with the arrival of a depression. In 1930 a new spring plant was erected in Detroit, and production facilities were further increased by the purchase of the Martin-Parry Corporation body



Ten million cars in 23 years

plant at Indianapolis for the production of commercial and truck bodies.

In 1931 a new bumper plant was put in operation in Detroit. The company celebrated the production of its ten millionth Chevrolet on its twenty-third birthday-November 3,

And five months later. in the spring of 1935, a Baltimore, Maryland, was opened and manufacturing plants were added at Saginaw, Michigan,

and Muncie. Indiana. Thus, seven years before World War II and slightly more than 23 years after its organization, Chevrolet had expanded from a little experimental shop to six groups of manufacturing plants and eleven assembly plants, one of which was devoted exclusively to exporting cars and trucks to assembly plants located in foreign countries. And further to serve the public, a total of 41 parts distribution warehouses had been established in the major cities of the country.

When the next management of the Chevrolet Division, General Motors Corporation, assumed direction of the company's affairs in October 1933, something over nine million Chevrolets had been built in the 22 years of the company's history. With the elevation of Mr. Knudsen to the executive vice-presidency of General Motors, the office of vice-president and general manager of Chevrolet was assumed by Marvin E. Coyle, who had been associated with General Motors since 1911 and with Chevrolet since 1917. Under his management the company began its climb from the lowered production period brought about by the depression, and two years later, in 1935, its output once more passed the million mark.



The Wheels of Industry. At Gear and Axle Plant, Detroit

In the meantime other expansion moves had been planned, and December 1998 saw the delication of a brandence commercial body plant at Indianapolii, which replaced the old building acquired in 1990. The new plant was regarded as the largest and most modern commercial body plant in the world, having been designed to give maximum convenience and safety to the workers, together with increased production efficiency.

During this year the construction of a new plant in Tonawanda, New You, was begun. It was designed to produce 1200 motors and 1200 asdes per day and was completed and placed in operation the following year, to become the pride of New York state as the most modern and efficient plant within its boundaries.



Assembling motors at the Tenawanda plant



The 25 millionth General Motors sehicle—a Chevrolet

The year 1936 recorded another achievement in domestic production, when Chevrolet captured the leadership of the entire industry for the seventh time in ten years. This was repeated in 1937, when, despite terrific handicaps early in the year, Chevrolet led

The 23 millionts General Advant subtict—a Chemida — all other makes in passenger car sales. It was the sixth year since the beginning of the company that more than a million cars and trucks were built—and the company celebrated its twenty-fifth birthday in November 1936.

In 1938 Chevrolet led the industry in sales for the eighth time in nine years, and in 1939 it secured an even greater margin, becoming leader for the ninth time in a decade. Again in 1940 Chevrolet maintained its leading position in the industry.

In the peacetime production period during which Mr. Coyle headed the Chevrolet organization, the company, therefore, averaged more than a million cars a year. On January 11, 1940, General Motors celebrated the completion of its twenty-five millionth vehicle, a Chevrolet, and the event focused attention upon the fact that, of General Motors' huge production, more than 60% were Chevrolets.

In September 1940 Chevrolet observed a sales anniversary—seven years of sales leadership with an average of a million units per year. At the same time it celebrated the sale of 11 million used cars during the same period.

But even before the celebration took place, many months before war became a fact, Chevrolet was negotiating for the production of a military item—the beginning of a war production effort which eventually was to absorb all the energies and all the facilities of the organization.



Conversion: tearing down features and machines—typical of the change-over from peace to war production

CHEVROLET'S first contract with the War Department was signed in April, 1940. It called for the forging and machining of 75-millimeter high explosive shells and the task was assigned to the Forge and the Gear and Axle plants in Detroit.

Before this contract was completed, however, an order was received for mili-

uary trucks, called (4x4) because power was transmitted to all four wheels. In rajid order, the, came contracts for the production of parts for the 90-millimeter anti-aircraft gun, more shells and an armored car—all this while arrangements were being carried forward for the manufacture of 164-yillider Parts & Whitney aircraft cangines. Thus, months before Part Harber and the declaration of war, Chrevolet was plunging into a war effort that was no carry it through the next four years.

The new activity was destined to eliminate all passenger car production and reduce the output of civilian trucks to a trickle. The last passenger car left an assembly line on February 6, 1942 and the assembly plants were

converted to war work. Some of them were leased to other divisions of General Motors, some were leased to the Government. All manufacturing plants were completely converted to war work. Production of civilian trucks continued in a modest way for a time, then was cut off, no to be resumed until 1944, when



Assembling P & W engines



#### CHEVROLET STORY

it became apparent to Government officials that a menacing shortage of these work vehicles might seriously tation phase of war

war production was with Government approval continued to



Shipping service parts for aging cars and trucks

manufacture, in addition to war products, millions of service parts in order that the millions of Chevrolet cars and trucks on the roads of America could serve their owners until new vehicles could be produced. On the facing page is shown a partial list of the war products manu-

factured by Chevrolet during the four years. Some of them, including the aluminum forgings, were produced in Government-built plants, but all were produced under Chevrolet management with "Volume Production for Victory" the slogan.

And more than one of the plants received the coveted Army-Navy "E" for excellence in production.

As a result. Chevrolet's return to peacetime production was not comparable with its plunge into the war effort, for it took place by slow degrees.



Trucks for peace and wor on the same assembly line

#### MANUFACTURING PLANTS

Although Chevrolet buys parts from thousands of independent firms, the company manufactures, with a single exception, all major components of its passenger cars and trucks. (The exception is the passenger cars body, built to Chevrolet specifications by the famous Fisher Body Division of the General Motors Corporation.)

Fourteen plants in 10 cities comprise the Chevrolet manufacturing organization. In some cases, more than one plant is required for an identical part. Factories in Toledo, Muncie, Ind. and Cleveland, for example, produce transmissions; Flint, Mich. and Tonawanda, N. Y. supply engines.



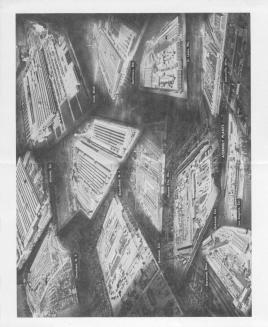


# ASSEMBLY PLANTS

Chevrolet's ability to keep pace with volume demand in widely scattered areas is due to a netwooth of eleven assembly plants. To these plants are shipped the parts of an automobile. Manpower and much material are drawn from the immediate vicinity.

Common to all Chevrolet assembly plants is precision scheduling. From the moment a part enters the production routine, it has a rendezvous on the assembly line at an exact moment. The efficiency of the system is one of the miracles of industry and an important factor in the value of the automobile.







Moving out war production machine tools to make a place for peacetime tools

The 1944 return to a limited production of civilian trucks (at the Norwood assembly plant) made it possible to expand this output when the defeat of Germany on May 5, 1945 brought about some terminations of war contracts. But it was not until after the defeat of Japan, on August 14 of the

same year, that an allows drive for complete conversion to peacetime operations could be made. It was a comparatively easy task to avoing into increased trust growthere, for parts of civilian trusks were already being manufactured—analytic to dorrages of instrictal and supplies which were the increased of the articulative for englatures. In the St. Louis plant, for easily of the manufacture englatures. In the St. Louis plant, for a supplies a supplies the supplies of the supplies of the supplies of the supplies of the St. Louis plant, for the St. Louis plant, for the St. Louis plant, for the supplies of the supplies of the supplies of the St. Louis plant, for the

the first civilian truck was assembled on the same line, and production was increased daily thereafter. But the manufacture of passenger cars was different. Since practically



After nearly four years—the first Chevrolets



Plant leyout men at work

all passenger car assembly lines had been torn out, it was necessary to rebuild them before assembly could begin. It was also necessary to reconvert the manufacturing plants before passenger car parts could be produced.

The long-awaited return to full peacetime production

was consequently delayed. It was not until October 3, 1945 that the first passenger car came off the line at Kansas City—a plant, which, during the war, had been leased to the Oldsmobile Division for the manufacture of shells and which had to be cleared of all the special warrinne production equipment before it could be used.

But following that event, the trickle of cars began to swell into a stream-delayed from time to time by recurring shortages of materials a one assembly plant after another was cleaned out, then re-stablished in its prewar condition with improvements added in practically every place.

During this period many additions were made to the various manufacturing plants, notably the grey iron foundry at Saginaw and the com-



Pouring molten iron at the Saginase Foundry



mercial body plant at Indianapolis. The Buffalo assembly plant, erected in 1922 and turing plant during the war for the manufacture of Pratt & Whitney engine parts, was returned to peace time work as the manufacturer of front and rear axles for passenger and commer-

cial cars, while the Tona-A line of presses at the Indianapolis commercial body plant wanda plant confined its efforts to the production of motors. Two new assembly plants were projected. One was at Flint, the other at Van Nuys, a part of Los Angeles. And while this was going on.

another change was made in Chevrolet's management.

In June, 1946. M. E. Coyle, who had been with 1917 and its general manager since 1933, was made an execu-





mbly of rear axle, Buffalo, New York

tive vice president of General Motors. To replace him as general manager of General Motors selected Nicholas Dreystadt, who had 1916 and its general manager since 1934.

Under the direction of



"Suspended assembly" at the new Flint plant

Mr. Dreystadt, the drive for greater and greater production of better and better products continued as before, with the entire Chevrolet organization still acutely aware of the fact that the public's approval had to be

and at the conclusion of that year the production figures showed that a total of 707,975 passenger cars and trush had been turned out, once to establish leadership in the industry. Six months later, in June, 1947, the new Tlint Assembly plants went into production, using a new type of "suppended assembly" operation.

The 19 millionth Chevrolet vehicle was produced December 5, 1946

And four months later, on November 10, 1947, the Indianapolis plant celebrated the completion of its 50 per cent expansion, consolidating its position as the largest exclu-

sive commercial body plant in the world.

The same year, 1947, recorded the return of Chevrolet to its formerly well-catablished custom of turning out a million vehicles a year. The 20 millionth Chevrolet left the new assembly line at Flint on November 13, and when the year closed the total production was



End of truck assembly line at Los Angeles

recorded as 1,031,338 passenger cars and trucks—another year in the long record of established leadership.

During the latter part of the year 1947 the new Los Angeles assembly plant at Van Naya seet inine production. The new plant embodies the same type of superended assembly operation as that installed at Flint, and inconstruction was defininguished by the installation of Brazillation in construction was defininguished by the installation of Brazillation start and the second start of the second of the second start they exclude the direct ray of them not be dusting plenty of slightly to both offset and plant. It was said to be the first such installation in North America and served to reduce the inside temperature to a marked degree. The plant was formular judiciated Perhamy 18, 1948, and during the 'three-day open formular than the production of the second producti

During the same period the Chevrolet management planned another addition to manufacturing facilities in the shape of a plant which would be devoted to the manufacture of Chevrolet parts, not only for service



Final test of Powerglide transmission at Cless

but for new cars and trucks. A site was therefore selected at Parma, Ohio, a suburb of Cleveland, and by 1949 it was completed, enclosing almost 30 acres of floor space, a portion of which was set aside for the production of the new automatic transmission.

Production, meanwhile, was maintained at the highest level possible under the existing conditions. Shortages of material, a problem which had persisted since the beginning of postwar production, continued to present difficulties. On many occasions it was necessary to fly critical parts to the various asembly plants in order to maintain production. But always the battle cry—"the highest quality at the lowest possible price" actuated the entire organization.

The 21 millionth Chevrolet vehicle was produced August 30, and the millionth 1948 vehicle was turned out November 2, one month earlier than the preceding year. Production in 1948 passed the record made the year before, to total 1,165,672 passenger cars and trucks.

It was during this period that plans were put in effect for the production of a completely new line of Chevolvel passinger cars. The new Advance-Dosign trucks had been announced in 1947, a complete departure from the models produced therestore, while only slight most finations had been made in the passenger car line. New designs for cars had been on the drawing boards for some time, however, and in 1947 it was decided to prepare for a new line in 1949.



The work of converting the plants for the new production was accordingly started in the fall of 1947, and even as some of the production lines worked on the production of 1948 parts, other lines were set up and

other lines were set up and organized for the production of 1949 parts. Hundreds of machine tools were moved in

this fashion. New dies and tools were fabricated and tried out and prepared for production. The net result was that, instead of closing down plants for a long period of time while re-arrangements were made, the only time for the production men was that required to take the annual inventory.

Upon the death of Mr. Dreystadt in August, 1948, W. F. Armstrong, a General Motors vice president, was named general manager of the company, Mr. Armstrong served until receiving a new assignment from the corporation. To succeed him, directors of the corporation picked

T. H. Keating, a 33-year veteran of Chevrolet, as general manager of Chevrolet, and a vice president of General Motors.

The year 1949 awe other important developments. The engineering affective data assumed transmission of the torque converter type and plans were hald to introduce the revolutionary device for the first time on a low-perfect automable. Manufacturing produced the torque converter parts of presend metal and Celevatand completed the transmission in time to introduce them to the public with the 1950 de luce models. (As optional equipments) Asia also better the contract of the con



Forming front fenders at Flint

In the meantime, in another manifestation of Chevrolet's tremendous popularity, all manufacturing and sales records were broken. Both fell in October, 1949. The production record had stood since 1941 when 1,339,952 passenger cars and trucks were built; in 1949 it became 1,493,501. And during this period the 22 millionth Chevrolet was produced, only ten months after the 21 millionth.

So "The Chevrolet Story" is far from finished. In 1950, Chevrolet saw its greatest production year, breaking not only its own records but those of the automotive industry as well. In the first six months of

this year, Chevrolet built 1,002,840 passenger cars and trucks, breaking an industry record that had stood for 25 years.

In June, operations reached the highest peak in Chevrolet history, all previous monthly, weekly and fully peaks were bearn; 16,1822 passenger cars and 49,278 trucks were produced for a total new high for any month of 211,130 units. The third week of June saw 50,784 units completed for a new weekly production record and on June 29, 9,440 units were assembled for another new record of daily production. All productions are production active productions are production activements, with a

new industry production record of approximately 2,000,000 units during the year.

In 1903, 300,000 Provergible automatic transmissions were produced and assembled into passenger care. Chevorded was the first automobile manufacturer to offer an automatic transmission in the low-price field. Or "guilty first to a die" it she dugan to be seen everywhere in the organization, which year after year has sreadfastly maintained a policy of higher quality as lowest cast. And this same creed in maintained by the thin automobile hody of independent businessmen who sell and service Chevral care and track—a continuing effort to provide improved safety, increased convenience and more lasting motoring pleasure for the approval of the public of the proposal of the public of the public



Night view of "okay lot" at Flint Assembly

#### CHEVROLET FIRSTS IN THE LOW-PRICE FIELD

Chevrolet over its nearly 40-year history has pioneered many major improvements in low-priced cars—of which the following are only a few.

Unisteel Body Construction
Knee-Action Gliding Ride
Valve-in-Head Engine
Box-Girder Frame
V-Type Fan Belt

Turret Top Body Construction
"Blue-Flame" Combustion Chambers

Stabilized Front-End Mounting

Complete Body Insulation

Safety Plate Glass All Around (at no extra cost)

Specialized 4-Way Engine Lubrication

Tiptoe-Matic Clutch

Duco Finish

Concealed Safety-Steps Electric Starting Motor

Foot-Controlled Headlamp Dimmer Switch

Bonded Brake Linings Center-Point Steering

Curved Windshields

Powerglide Automatic Transmission Steel-Roofed Convertible Type Sport Coupe

# CHEVROLET MILESTONES

1911—Chevrolet Motor Company of Michigan organized November 3; first Chevrolets developed in a Detroit workshop.

1913—Valve-in-head engine introduced, and period of plant expansion started with acquisition of home plant in Flint, Michigan. Plant also rented in New York City. Nearly 6,000 cars built.

1915-Electric self-starter introduced, first in low-price field.

1918—Chevrolet becomes a part of General Motors, and enters new period of plant expansion and sales. Closed models offered by Chevrolet for the first time.

1920—Retail stores opened in various cities for direct sale of Chevrolet to the nublic.

1923—The 1,000,000th Chevrolet built February 27. Chevrolet is on the threshold of volume operations. Assembly plants at Buffalo and Norwood, Ohio, acquired.

1924—William S. Knudsen named president and general manager of Chevrolet.

1927—Chevrolet sales exceeded 1,000,000 units for the first time, and for the first time Chevrolet led all other makes in sales. Total of 1,001,880 units sold. The 3,000,000th Chevrolet built.

1928-New plant opened in Atlanta. The 4,000,000th and 5,000,000th Chevrolets built. Chevrolet again leads in sales.

1929 Six cylinder valve in head engine adopted on all cars.

1931—Chevrolet starts its long run of leading the field in sales every year except one from 1931 to 1941. Bumper plant acquired in Detroit.

1933-Marvin E. Coyle succeeds Wm. S. Knudsen as general manager of

1934-Knee-Action introduced. The 10,000,000th Chevrolet built.

1937—The 13,000,000th Chevrolet built. Chevrolet is first low-priced car to use Unisteel construction with Turret Top.

1939-The 15.000.000th Chevrolet built.

1941-1945—Company plants geared all-out for war production. Aircraft engines, armored cars, shells and guns among the types of materiel supplied in steadily increasing volume to the armed forces.

1945-First postwar passenger car off the line October 3.

1946—Production mounts as plant conversion is completed.

1947—New assembly plant dedicated at Flint, Mich. Chevrolet production returns to million class with 1,031,339 units manufactured.

1948—New assembly plant dedicated at Los Angeles. Production hits 21,000,000 on August 30. Millionth 1948 model completed November 2.

1949—Production augmented by new plants at Cleveland and Saginaw. T. H. Keating assumes general managership of company. All-time production and sales records go by the boards. 1,493,500 units produced. Company prepares to introduce new automatic transmission on 1950 passenger cars.

1950—January—Announcement of new 1950 passenger car models with Powerglide automatic transmission optional on De Luxe models.

Also introduced Bel Air Sports model.

January 11-Production of 23 millionth vehicle.

July 6 - Production of 24 millionth vehicle.

June 21 —Production of 100,000th Powerglide automatic transmission.

October 8 —Production of 200,000th Powerglide automatic transmission.

December 9—1951 models introduced.

1951—The fortieth year of Chevrolet's history, with the newly introduced models standing even higher in the estimation of the public.

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