## Fearful Catastrophe If Mile-High Edifice Is Built

By DANIEL P. WILES

Famous Expert Tells Why Magnates Must Not Construct Dizzy Skyscrapers.

That was the recent pro-

They declare that if such a structure bowels and placed upon its face. should be raised over the fragile strata New York, like the city of Chicago, of rock upon which the city is built is not upon a firm base. Of course, the whole would give way to the strain there is the usual strata of thick rock, and an awful castastrophe would re- which in some places is far more sub-

Therefore measures have been taken weight of 516,000 tons it is impossible

History gives us no other instance diction of New York con- where man has been able to test the tractors when figuring out weight-carrying capacity of Mother possibilities for the re- Earth, but to-day so far have the ideas sumption of building op- of civilization reached that even the globe is under a strain to hold the But our geologist friends say no. weight which man has dug out of its

stantial than in others, but beyond a

He Warns Them Against Hitherto Untold Perils-Gives Scientific Reasons for Assertions and Relates Actual Incidents to Bear Out His Statements on Especially Timely Topic.



OFFICE BUILDING SIXTY-TWO STORIES OR NEARTY

A QUARTER OF A MILE HIGH.

which will prevent any such ideas be- | to rest additional weight upon the ing made of practical use. Desire for foundations of the city, for that is their own safety caused Gotham city what the strata is-a foundation. fathers to squelch the plan and it is In the crowded portions of Greater

When you stop to consider the whole An edifice of 2,000 feet possesses a structure a mile tall would weigh of the greatest engineering experts in 4.200,000 tons, and under this terrible the world. strain Manhattan would collapse, The tonnage of the American navy

the strata when erected to the height weight would be the same as that of would be paid the man or firm that of the foundations of the Temple. of one mile will allow it to stand in a 200-foot building. The strain on could bring forth some contrivance or When the newly erected building's the first-conceived position without the earth's crust is a terrible one, new material to lessen the strain.

considered probable that the tallest New York the largest lot is about 200 building which New York will ever feet square, that being probably the see will not be more than 2,000 feet in biggest plot of precious ground obheight, and perhaps a limit of 1,000 tainable in the downtown district of feet may be put upon the height of Gotham. Placing a building 2,000 these gigantic monuments to modern | feet high upon this piece of Mother Earth, the cost would be in the neighborhood of \$60,000,000. It would proposition the truth begins to dawn. weigh 516,000 tons, according to estimates which have been furnished the weight of 516,000 tons, and therefore New York board of aldermen by some

is about 250,000 tons. Hence you There have been no architectual might place two navies the size of the weight exerted upon the earth's crust not having a one-mile-high structure would give way under the fearful pres- of material which is of less weight resumed once more.

sure. For that reason the aldermen than plain steel, brick and mortar, but clamped the ban on buildings a mile which possesses the same strength, or

Then the wind pressure upon large buildings must be taken into consider. scrapers. ation by the corps of experts engaged in operations in New York.

construct in the future will not be its natural posture. over 1.000 feet in height.

perhaps more strength than these conventional articles for constructing sky-

That the foundations of a large city are elastic after a fashion was proven On a building 2,000 feet high the by a notable instance which came to wind pressure on each wall is 6,000 the attention of the Chicago building tons, which on four walls adds 24,000 commission and the police a few years tons, and including the roof pressure ago. A salvage company was engaged there is 30,000 tons added weight, in tearing down a structure adjacent which increases the total number of to the Women's Temple. Suddenly tons on the whole structure to 546,000 one morning when most of the debris tons. This is an enormous weight, from the wrecked structure had been and far out of the conception of the carted away the occupants of offices ordinary human mind which does not in the Women's Temple felt the edihave to deal with such monstrous pro- fice sag to the south-in the direction of the site of the wrecked building.

The monstrosity of the entire propo- The entire structure on the south sition is made almost impossible by side wrinkled in spots. Cracks, some the physical limitations of the earth, of them two inches wide, opened, causstrata and general texture of the coun- ing the belief that a disaster was imtry in the neighborhood of New York. minent. Such was not the case, how-For that reason experts have figured ever, and when a massive stone ediby complicated processes that the big- fice was erected on the site of the old gest building which New York will building the Women's Temple resumed

The work of devising engineering the incident in the interest of science schemes which will lessen the fearful determined that the stratum of bedrock, being elastic, had recoiled from the plans which will so shift the weight one possessed by America on top of is now the object of the biggest workof any building that the strain upon a 200-foot plot of ground and the ers in this line, and millions of dollars upon it, therefore causing a movement weight was put upon the site of the shifting. Therefore the reasons for and in time it is declared the crust | What is most needed is some sort old structure normal conditions were

The Terror of the Meter.

THE LEMONS O

SORTING TABLE

The American lemon industry has | region and beginning in November

become permanently established on a and December in the inland regions. firm foundation within the last few It is the aim of the lemon grower to

years, the seasons since 1904 having have the harvest as heavy as possi-

proved unusually profitable. It com- ble in the summer, when the fruit is menced to assume a commercial as- in greatest demand, and he endeavors

pect 25 years ago, but for a score of to influence the season of bearing to

years it was a question whether it some extent by pruning and by irri-

would become established permanent- gation, though not to the extent atly or whether the American supply tempted by foreign lemon growers.

of lemons would continue to be de- The most profitable months in the

rived, as in the past, from foreign lemon market are during hot weather

The lemon is grown in the citrus. of the market at any time during this

fruit belt of California, where at the period depending on the temperature

from 3,000 to 4,000 carloads, which supply of imported fruit. The ship-

pounds, or from one-third to two-fifths from March to July, about 60 per cent.

of the total quantity used in the of the crop going forward during that

United States. There are imported period. The shipments in the last few

annually into the United States about years have been greatest in the

150,000,000 pounds of lemons, mostly months of May, June and July. The

from the island of Sicily. If this fruit shipped in the spring and sum-

amount of fruit were expressed in mer may include winter and spring

terms of the California method of lemons that have been stored, as well

packing and shipping it would repre- as the fruit that is picked during the

south of the Sierra Madre mountains. do not pass through the ring. He also

United States are grown principally picking sacks slung over the shoulder

in Italy, the fruit coming mainly from of the picker, and is hauled in boxes

May to September from the island of to the packing house. The handling

Sicily, with a small quantity from the of the fruit in the grove is done with

vicinity of Naples. A few lemons are extreme care to avoid cutting it with

imported from Spain, Mexico and the the clippers, stem puncturing it, or

The lemon is shipped from Califor of complex operations requiring skill

nia every month of the year. The dis- and experience. The fruit has to be

tribution is regulated somewhat by cleaned, graded and colored or ripen-

holding the fruit picked in winter and ed uniformly before it is ready for

spring in common storage for several shipment. In addition, it may be de-

weeks or months before shipment. The sirable to hold it in storage for sev-

ever bearing, a tree containing at any ket conditions. A lemon storage

antly during the late fall, winter and at a caller it indicates that they are

spring, the heaviest harvest occurring accusing the caller of having come be-

from February to June in the coast cause he heard the ice cream freezer.

time fruit in all stages of develop- house is shown in our illustration.

West Indies. The industry is being bruising it in other ways.

sent more than 1,750,000 boxes, or spring and summer months.

about 6,000 carloads.

In the early days of the industry

there were no precedents to follow

that were applicable to the handling

of the lemon in California. The pio-

neer growers made many mistakes.

Each step forward in the culture of

the groves and in the handling and

shipment of the fruit was gained by

costly experience. Groves were lo

cated in unsuitable places, on frosty

areas, on uncongenial soils, in locali-

ties dependent upon an inadequate

supply of irrigation water, or on soil

that was overcharged with alkali. The

growers had to learn about the hand-

ling of the soil, the irrigation and fer-

tilizing of the crop, and the maintenance of soil fertility by cover crops

and other sources of humus. The

methods of pruning have only recently

begun to emerge from a chaotic con-

dition. The losses from decay until

recently were so large and so uni-

versally expected that the California

lemon was generally supposed to have

poor keeping qualities, and dealers

were cautious about handling the

The American lemon industry is lo-

cated principally in southern Cali-

fornia, which includes the counties

The most important region north of

The lemons imported into the

developed to a limited extent in Cuba

lemon tree when handled properly is

ment from the blossom to the ripe

lemon. The fruit ripens most abund-

and Porto Rico.

these mountains is in Tulare county.

ISBON LEMON TREE NINE YEARS OL

from May to September, the condition

The lemon is picked, irrespective of

the degree of maturity of the fruit,

when it reaches the approximate size

desired by the market. If it is al-

lowed to ripen on the tree the fruit is

likely to be overgrown, coarse in tex-

ture, lacking in acidity, and of poor

keeping quality. In order to judge

accurately, each picker is provided

with a ring to be used in testing the

size of the lemons. If the fruit is to

be held several weeks or months be-

fore shipment, the ring generally has

a diameter of 25-16 inches, which al-

lows for considerable shrinkage while the fruit is in the storage house. If

the lemons are to be shipped soon

after picking, the ring usually has a

diameter of 214 inches. With size

rather than maturity as the leading

factor in determining when the fruit

shall be picked, the lemons vary in

color from dark green to yellow, and

in texture from the thin skin of the

tree-ripened lemons to the coarse

green lemons that grow on the out-

side branches. It is necessary to pick

a vigorous-growing grove once a

month, on the average, in order to

avoid having a large proportion of

oversized lemons. In picking the fruit

the picker cuts from the tree with

shears or clippers the lemons that

picks the smaller lemons that have

ripened on the tree and have reached

full growth. The fruit is placed in

The handling of the fruit after it

reaches the packing house is a series

eral weeks or months for better mar-

If the children look with suspicion

A LEMON TENT, SHOWING MANNER OF STACKING BOXES

Property owners will save a deal of trouble and expense in keeping their buildings properly painted, if they know how to protect themselves against misrepresentation and adulteration in paint materials. There's one sure and safe guide to a pure and thoroughly dependable White Leadthat's the "Dutch Boy Painter" trade mark which the National Lead Company, the largest makers of genuine White Lead, place on every package of their product. This company sends a simple and sure little outfit for testing white lead, and a valuable paint book, free, to all who write for it. Their address is Woodbridge Bldg.,

IN THE OLD MILITIA DAYS.



parade ground with your company at ten o'clock for inspection."

"Sorry, colonel, but you'll have to postpone it till to-morrow! I promised my wife that she could use the cannon to-day for a churn!"

TEN YEARS OF BACKACHE.

Mrs. Thos. Dunn, 153 Vine St Columbus, Ohio, says: "For more in misery with backache. The simplest

housework completely exhausted me. I had no strength or ambisuffered headache and these years of pain I was despairing

ney Pills came to my notice and their use brought quick relief and a permanent cure. I am very grateful. Sold by all dealers. 50 cents a box. Foster-Milburn Co., Buffalo, N. Y.

of ever being cured when Doan's Kid-

So Much Alike.

A curious story went the rounds foreigner, one of whose verbal slips gave King Edward occasion for a hearty laugh. A very lively personage, with a delightful accent, she made such a favorable impression upon the king that he asked her to be his partner at bridge. "But, sir," she said, "I really don't know how to nial, however, and she became rather embarrassed. "I assure you, sir," she said. "I don't know the difference between a king and a knave." There was present time the annual production is at the point of consumption and the an awkward silence, and then she realered with confusion. The king, of course, laughed it off, and now tells the story with gusto.

Marine Insurance.

Marine insurance is the oldest kind of modern insurance. Its principles were first employed in the fourteenth century by the merchants of Barcelona, in Spain, when that city was the capital of the kingdom of Catalonia and when its hardy mariners were second to none in the world. About the same time, and also at Barcelona, the famous code of maritime laws known as the "consulado del mar" was promulgated, which is the foundation of the present shipping laws of every country.

It Came Off.

The fair bather was in the greatest danger when the heroic rescuer seized her by the hair. It came off. Puffs and coils and waves and rats it strewed the shuddering sea.

For a moment the rescuer was Then he grasped the tiny knob of

real hair that remained on the lady's head and drew her into shallow water. Did she thank him for saving her

She didn't .- Cleveland Plain Dealer.

"THE PALE GIRL." Did Not Know Coffee Was the Cause.

In cold weather some people think a cup of hot coffee good to help keep warm. So it is-for a short time but the drug-caffeine-acts on the heart to weaken the circulation and the reaction is to cause more chilliness.

There is a hot wholesome drink which a Dak, girl found after a time, makes the blood warm and the heart

"Having lived for five years in N. Dak., I have used considerable coffee swing to the cold climate. As a repalt I had a dull headache regularly, affered from indigestion, and had no

dife' in me. "I was known as 'the pale girl,' and people thought I was just weakly. After a time I had heart trouble and became very nervous, never knew what it was to be real well. Took medicine but it never seemed to do any

"Since being married my husband and I both have thought coffee was harming us and we would quit, only to begin again, although we felt it was

the same as poison to us. "Then we got some Postum. Well. the effect was really wonderful. My complexion is clear now, headache gone, and I have a great deal of energy I had never known while drink-

ing coffee. "I haven't been troubled with indigestion since using Postum, am not nervous, and need no medicine. We have a little girl and boy who both love Postum and thrive on it and

Grape-Nuts." "There's a Reason." Name given by Postum Co., Battle Creek, Mich. Read, "The Road to Well-

ville," in pkgs. Ever read the above letter? A new

one appears from time to time. They are genuine, true, and full of human

ABOVE ALL AFFAIRS OF STATE. late hour in the day and had discussed til he arose and went himself to the the visit said that the scene was only ternately. There's what makes it in and a decided improvement has been

often, has never until now appeared toria personally.

Grover Cleveland.

leave, when an almost imperceptible stood revealed, and her wee fist, in field of domestic art. There are many stories told of our knock was heard upon the door of the the hand of her nurse, revealed the late ex-president, Grover Cleveland, to private office, the most interesting ob- source of the knocks. illustrate his dual nature, as a man ject in which is the handsome desk In a moment there was a transfer; related by a man of affairs in private ed to the United States by Queen Vic. and, opening a lower drawer on the

Mr. Cleveland called: "Come in," from it a handful of toys for the baby is a high fever a cold chill, nervous impressed upon their minds the idea being over have fallen into nameless He had called on the president at a but the soft rapping still kept up, un- to play with. The friend who made prostration and acute neuralgia, at that burning gas is burning money, graves.

with him weighty matters of policy door to investigate. As it opened the paralleled in his mind by the well-Small Caller Absorbed Interest of and statesmanship, and was just about White House baby, then "Miss Esther known portrait of Abraham Lincoln to conclude the interview and take Cleveland," in the arms of her nurse, and his son Tad, long a classic in the

A South Norwalk, Conn., dominie is

teresting, and in any event, desirable. shown.-Harper's Bazar. -New York Morning Telegraph.

Ernesto Nathan, the Syndic of With a family of half-grown chil- Rome, says the Frankfurter Zeitung. dren it is often difficult to keep the recently had erected at his own exgas bills within reasonable limits. We pense a marble shaft in the potter's of iron or of velvet, as the case made from the timbers of Sir John and Mr. Cleveland came back to his quoted as declaring that "love is hys- hit upon the plan of sending each child field of the Roman cemetery. The inseemed to demand, but one instance, Franklin's ship Resolute and present- desk, introduced his small daughter, teria." Of course, it is, but why does to look at the meter while the gas was scription states that the city, mindful the clergyman object to it on that burning. The steady tick-tick as of its obligation to the industry of the left side of the historic desk, took account? It is not only hysteria, but it the indicator moved around the dial lowly, remembers those whose toil