"BIG DITCH" NOW **ALMOST COMPLETE**

End of Work Is Near.

WATERS OF OCEANS MEET

First Steps Are Taken Toward Destruction of Big Embankment Which Holds Gatun Lake Out of Culebra Cut.

ing the Panama canal came today operation marked the virtual comple- ly finished. tion of the great isthmian waterway.

The water was permitted to flow may be enough water in the cut to er portion of the big "ditch." To United States \$10,000,000 a mile. prevent any damage when the dike is Col. D. D. Gaillard, the engineer of finally removed.

is scheduled for October 10, when charges of dynamite placed in holes tion. already drilled in the dike will be exthe dike, but will weaken it and loospassageway from ocean to ocean.

Canal Really Complete Now. Although the canal will not be offi- into the cut. cially declared completed for some

spite unforeseen difficulties that have neers predicted would never with beset them at every hand.

Goethals to Make Final Test. Removal of Gamboa Dike Means canal, and his principal assistants. proportions of each, dwarf the other scheduled for some time during this in themselves have challenged the month. Within another month it is admiration of the world. expected the waters in Gatun lake will have risen high enough to bring passage of the largest ships.

early part of August, assurances were completion of the Panama canal. Col-Atlantic battleship fleet could be put ance of such men as Col. H. F. Colon, Panama, Oct. 1.—The climax through the canal into Pacific waters Hodges, Lieut. Col. David Du B. Gailof nine years of untiring work on the within 60 days from that date. The lard and Lieut. Col. William L. Sibert, part of the men who have been build- work has been hurried with that end army engineers, who have had charge in view, it is said, as no emergency of various phases of the work, but when the waters of Gatun lake were has existed, but this assurance is an Colonel Goethals is recognized as the permitted to run for the first time | indication of the belief of the engi- real builder of the canal. into the Culebra cut. This simple neers that their work is now practical-

Culebra Cut Caused Trouble.

danger of slides will be eliminated fever and pest ridden country. now that the water has been turned

time, and the formal opening of the giant steam shovels finished their the canal and lower it the same diswaterway to the commerce of the work in the Culebra cut. Since that tance at the other end, has been in world more than a year distant, the time the workmen have been busy charge of two of Colonel Goethals' canal engineers look upon the de- removing the shovels, the railroad assistants, Colonel Hodges and Lieustruction of the Gamboa dike as mark- tracks and other machinery used in tenant Colonel Sibert. Colonel Hodges' ing the real completion of the canal. the excavation work. There is still work in installing the immense lock-The big engineering feats have all some dirt to be removed from the cut gates that form so important a part been accomplished, the excavation before the channel is finished, but of the operating machinery of the

stand the rush of the Chagres' waters, is admitted now to be so strong The first vessel to pass through the that nothing short of an earthquake canal probably will be a boat of the such as has never been known in the Isthmian canal commission, Col. Central American region can harm George W. Goethals, chairman of the it. The Gatun dam, Gatun lake and commission and chief engineer of the the Culebra cut, so gigantic are the The final voyage through the canal is engineering works of the canal that

World Gives Goethals Credit. To Col. George Goethals, chairman the waters in the entire canal up to of the Isthmian canal commission, the deep water level required for the chief engineer of the commission and governor of the canal zone, the world It is said that as long ago as the will give the credit for the successful given Washington officially that if the onel Goethals could not have accomemergency should arise, the entire plished his task without the assist-

Under Colonel Goethals the greater part of the \$375,000,000 which the canal will have cost when it is com-The excavation of the Culebra cut, pleted has been spent. It has been by into the cut today through four 26- into which the water has just been far the costliest engineering project inch pipes extending through the turned, has been one of the engineer- in the world. Nearly three-fifths of a Gamboa dike, which has held the ing feats connected with the building billion dollars has been spent in digwaters of the lake back from the cut. of the canal, and has caused the en- ging a 40-mile "ditch." This means This was done in order that there gineers more trouble than any oth- that the Panama canal has cost the

Over \$16,000,000 of the total amount the central division, is given the spent has been used to make the canal The final destruction of the big dike credit for carrying this portion of the zone habitable and sanitary. It has work through to a successful termina- been suggested that this is an enormous amount of money to spend in The disastrous slides in the cut cleaning up a place in which few peoploded. The explosion of these were discouraging to the engineers, ple will reside permanently, but the charges will not completely destroy nullifying in a few hours the work of engineers say that the sanitation of many weeks, but Colonel Gaillard and the canal zone was the chief factor in en the dirt so that the force of the his assistants have kept untiringly at making the canal a reality. The failwaters from Gatun lake will carry it their work, and at last have conquer- ure of the French has been attributed away. Steam shovels will remove the ed the treacherous banks of the deep to a large extent to the fact that remnants of the dike, leaving an open cut. The engineers believe that the the workmen could not survive in the

The building of the great locks which raise a vessel to a height of 87 A little more than a month ago the feet above sea level at one end of work practically has been completed, this work will be done by suction canal, and his ability to overcome all obstacles had led Colonel Goethals to call him a genius. The building, poising and operation of the lock gates constitute one of the delicate problems of lock canal construction, and that the Senate would have restored a from entry. the proper handling of this problem revenue duty on both wool and sugar.

Lieutenant Colonel Sibert has had dam and locks at Gatun, in addition to other duties. He saw long, ache' is known in the army as a fighter as well as an engineer. His fighting qualities have enabled him to it is signed. carry through the great work of which he has had charge in the canal zone.

Realize Dream of Centuries.

Through the work of these men-all been able to attain what has been in them free on the theory that the textile truth the dream of centuries. In nine products had been made to pay less duty ceded from its amendment prohibiting years these men have carried through and that the manufacturers should have an undertaking that was first thought of several hundreds of years ago. There is evidence that the idea of an isthmian canal was born as early as the sixteenth century, for history redeclared such a project to alter the face of the earth to be impious and further discussion of the matter was forbidden by Philip II. of Spain, whose reign began in 1556. More than a century later a Scotchman named Patterson revived the scheme, established a colony on the shores of the isthmus. and made a crude survey of the route.

The United States government first in 1834, when the senate voted for the building of a Nicaraguan canal. Gatun lake, the waters of which are An expedition was sent to Nicaragua

De Lesseps First to Dig. The matter rested until after the Gatun lake is an artificial body of Civil war, when negotiations for a water covering about 164 square miles canal commission were entered into of territory and, was created by the by the United States government. Before the time originally set as the building of the immense Gatun dam fore anything had been accomplished date for its completion is one of the and the impounding of the wild wa- the concession for a Panama canal ters of Chagres river. Beneath the had been given to Lucien Napoleon When Count de Lesseps, the great waters of Gatun lake lies what a few Banaparte Wyse, a Frenchman. He months ago was the valley of the organized a company, which sold out Chagres, dotted with native villages later to the financiers associated with and plantations. The channel of the Ferdinand de Lesseps. The company canal passes through this lake for a organized with de Lesseps at its head task. In nine years, the American distance of 24 miles with a width vary- was the first one to actually begin operations on the isthmus. For eight At the northern end of the lake years de Lesseps struggled manfully work was of little value to the Ameri- is the Gatun dam, which is in reality against the greatest odds that man

to the American army engineers who water surface, and 100 feet wide at In nine years the dream of the cen-

have more than kept their word, de the top, the dike which many engi-

NEW TARIFF LAW PASSED

Epitomized Account of the Underwood-Simmons Measure as Agreed to By Conferees

SENATE ENLARGES HOUSE FREE LIST

before the House the report of the con- ments for statistical purposes. ferees and announced that the differences between the Senate and House

bills had been compromised. It is the second low tariff measure

present bill is very much lower than valued goods. that of the Wilson-Gorman act. The Offsettting average rate of the latter was 39.45 per cent., while the estimated rate of the present bill ranges from 27 to 29 per The average for the present Payne-Aldrich law is 40.12 per cent. Senator Simmons said, after a report from the Treasury experts, that for the above the market value. first full fiscal year the measure would

yield a surplus of \$18,000,000. the Senate, many related merely to verbiage. The House yielded on 427 and the Senate abandoned 151. Compro-

mises were effected on 97. The general trend of the Senate duced duties. Expressed in percentage duties 27.64 below the existing law and 4.22 per cent. below the House bill as it had come to the Senate.

The result of the conference report has been a slight increase of the ad valorem rate of duty carried by the bill, but the net result is below the average ad valorem rate of the House bill. Thus for the first time in the history of tariff legislation the Senate has gone on record in favor of lower duties in a tariff bill than those adopted by the House.

tion to the work of construction of cember 1 and sugar will be free after duties was stricken out.

May 1, 1916.

Reciprocity Feature.

charge of the building of the great the Payne-Aldrich law will continue un- tiate trade treaties with foreign til March 1, 1914, then the lower rates tries subject to approval by Congress. carried by the new law will become effective and continue until May 1, 1916, eight of the treaty with Cuba, dealing of sale the price agreed upon shall he' is known in the army as a fight
free list automatically. All other rates cifically abrogated. With this excep
other manner than by purchase the in the bill will go into effect as soon as tion, the reciprocal trade treaty with

In restoring to the free list alizarin, fighting body-the United States has revenue purposes. The Senate made jected.

the raw material free. The cyanides were transferred to the years of age. free list because they are used largely in mining and are raw material for follows: other American industries. Both the Senate and House agreed that tanning wearing apparel for use of manufaccords the fact that the Inquisition materials, such as extracts, should go turers in their own establishments is upon the free list because the products permitted. of the tanneries, sole leather and other leathers of the coarser kind that enter into the manufacture of boots and shoes, harness and saddles were all free

> building material, including lumber and payment of the duty on the tobacco used shingles upon the free list. Pig iron and in its imported condition and the interferromanganese, billets and ingots for nal revenue cigar tax." railway wheels, together with antimony ore, were put on the free list.

Automobiles will pay about 30 per turizing. cent., which was a reduction of onethird from the House rate. Cattle, sheep and all domestic animals suitable for food, and wheat, flour and eggs were put on the free list. This was to con-

the cost of living. visions that it would not "be so con- the trust's handicap. strued as to abrogate or in any manner impair or affect the provisions of any treaty" the United States now has. manner. As a result of the placing further

conference but little changed. for the Senaate amendment to check Americans. The entry of South cent. to 25 per cent, fraudulent invoices. This provides that American beef is expected to cut the the arrival within the territorial limits price of meats, notwithstanding the 58.10 per cent. to 50 per cent. of the United States of any merchandise consigned for sale and remaining the price will continue to soar. the property of the shipper, and the acceptance of a fraudulent invoice by the of the protection which has enabled consignee or agent of the consignor shall it to keep foreign-made goods out of be deemed an attempt to enter such the country, while the sheep raisers try is made or offered.

statements of cost on merchandise con- basis. tracted for, as well as on that actually rchased, was stricken out.

The conference agreed to the Senate tion of a nation-wide cold storage 25 per cent. purchased, was stricken out.

WITH FREE LIST EDIBLES

10 p.c. 10 p.c. Free Free 14c. 1b. 14c. 1b. Free Free 214c. 1b. 20 p.c. Free Free 2c. 1b. 2c. 1b. 10c. bu. 16c. bu. 1-10c. 1b. Free

2c. 1b.

compromised from the Senate

and House provisions, the final du-

WILL FILL MARKET BASKET

ties adopted are as follows:

WASHINGTON.—The twenty years' assendment authorizing the Secretary tariff war reached its final stage in Con- of the Treasury and the Secretary of gress, when Chairman Underwood of Commerce to require importers to furthe Ways and Means Committee laid nish more detailed information on ship-Undervaluation Penalty.

The Sénate receded from the amendment allowing a margin of 5 per cent. undervaluation without penalty and limthat has been passed in more than 65 iting forfeiture of the particular goods undervalued. The bill imposes an addi- a bushel; butter, from 3 to 21/2 cents The average ad valorem rate of the tional duty of 1 per cent. on under- a pound; beets, from 10 to 5 per

Offsettting this, the conference adopted the Senate amendment authorizing the Secretary of the Treasury to assess the duty on less than the entered value when satisfied that the importer has in good faith at the time ad valorem, to 2 cents a po of the entry certified the entered value

The conference restored the House provision authorizing the Board of Gen-Among the 675 amendments made in eral Appraisers to exercise both judicial and inquisitorial functions in customs examinations, and struck out of the Senate amendment the provision excluding hearsay evidence. Senate amendments were agreed to prohibiting conamendments was in the direction of re- tingent fees in customs cases and striking out the provision of the House bill. the Senate bill when reported reduced limiting protests to a single article and 155116

The House provision, to authorize collectors of customs summarily to fine importers for failure to produce books and records was stricken out.

for the recovery of the value of mer- crs. chandise fraudulently imported was restored after having been stricken out all merchandise imported into the

House provision requiring shippers The most important features of the and importers to produce their books new bill are those which led to the to authorized agents of the government greatest struggle in both the Senate and adopted with an amendment authorizing House Democratic caucuses. They re- the Secretary of the Treasury to impose lated to the free listing of wool and additional duties in case of refusal, inof sugar. Except for the strong in-sistence of President Wilson it is likely ing him to exclude the merchandise

has been Colonel Hodges' contribu- Raw wool will go on the free list De- the President to impose countervailing

The existing duties on sugar under The President is authorized to nego- such. Invoices shall have entered By a conference substitute Section

Cuba stands. Free importation of articles from the lead or creosote oil, anthracine and an- Philippines was limited by the conferthracine oil, the Senate followed the ence to such as contain not more than the Payne law, except for the inserexisting law, which gives to the manu- 20 per cent. of foreign material, the tion of the words, "or when purfacturers of certain textiles the benefits Senate amendment limiting free entry to chases are made in several places in of free dyes used in the industry. The such Philippine goods as are shipped unthe Consular district, where the mer-

> The Senate, through its conferees, rethe importation of goods manufactured principally by children under fourteen Other conference changes were as

Foreign material for the construction of repair of naval vessels of the United States may be imported free.

Cigars may be manufactured in a bonded warehouse and withdrawn for The Democrats put cements and other consumption in the United States upon

Farmers and fruit growers may man- dog or goat skins are used, from 50 ufacture alcohol free of tax for dena- to 15 per cent.

The Steel Trust was the combination hardest hit by the conferees. Iron ore was placed on the free list, in the hope of inviting Cuban and from 40 per cent. to 15 per cent. South American competition. The form with the tariff policy of reducing Steel Trust and its subsidiaries now hold virtually all the marketable ore a dozen spools to 15 per cent. ad The five per cent, rebate in tariff in the country. The removal of duty valorem, made in the House bill on goods is expected to make it possible for brought in American ships was retained independents to enter the steel busi- hemmed, from 45 per cent. to 25 per in the conference, with the added pro- ness with some hope of overcoming cent; hemmed, from 55 per cent, to

Blow at the Beef Trust. The Beef Trust fared in the same, The administrative features as em- of cattle on the free list, South bodied in the House bill emerged from American nations are expected to de- 20 cents a pound. velop a cattle raising business for the The conference adopted a substitute purpose of helping to feed North prophecies of the beef barons that

The Woolen Trust was sheared merchandise whether or not actual en- of the West will have to meet the per cent, to 45 per cent. y is made or offered.

Wool from Australia and other counBags, satchels and pocketbooks.

The Senate amendment requiring tries that will enter on a free-trade from 47.33 per cent. to 30 per cent.

The system of maintaining high cent. to \$2 per dozen.

Clothing, etc., of cotton, in combination with flax, etc. 30 p.c. 25 p.c. 30 p.c. Shirt collars, cuffs. cot.

Cotton stockings, hose 25 p.e. 20 p.e. 20 p.e.

40 p.e. 20 p.e. 20 p.e.

10 p.e. 30 p.e. 40 p.e. 25 p.e. 20 p.e. 20 p.e.

4c. lb. 7c. lb. Free

45 p.c. 36 p.c. 30 p.c.

. 45 p.c. 15 p.c. 20 p.c.

25 p.c. Free

bushel.

and half-hose to S1.50 to

use 12 p.c.
Booklets 12 p.e.
Text books for schools 12 p.e.

oblice less than

Automobiles, value \$1,-

system will be compelled to change its plan or meet the importation of

eggs free of duty.
The most vital changes made by the conferees are given in the folowing recapitulation:

House rates on photographic, sureying, opera glasses and similar instruments were reduced. Cement asphalt and limestone were placed on the free list.

Pig iron, scrap iron and ferro-manganese, used in making high-priced steel, were free listed. Steel products rates were generally reduced. House rates on zinc were in-

Postponement of the placing of sugar on the free list was agreed

All duty was removed from cattle, sheep and other food animals, wheat and its products and eggs. House duties on oats, butter, beets, peas, currants, chocolate and cocoa were

To Reduce Cost of Living. As compared with the original House bill these specific reductions were made by the conferees on food and food-stuffs:

All meat animals free; taxed 10 cents a bushel in the House, free; sugar and molasses, free within a short time; oats, from 10 to 6 cents cent; eggs, free instead of 2 cents a dozen; storage eggs, from 21/2 to 2 cents a pound; peas, from 15 to 10 cents a bushel; seeds, from 10 to 5 cents a pound; bananas, free; choccolate and cocoa from 25 per cent.

To Save \$1,000,000,000 a Year. In preparing estimates on the bill Underwood figured that it will save consumers approximately \$1,-000,000,000 annually. The free list alone should save approximately \$500,000,000 annually, he estimated.

ADMINISTRATIVE FEATURES.

General Provisions Governing the Levying of the New Rates. WASHINGTON-The administra-

tive features of the bill are very comprehensive. In their preparation the Ways and Means Committee and the Finance Committee studied the The House provision placing the bur-den of proof on the defendant in suits General Board of Customs Apprais-

Under the new legal regulations United States is held to be the property of the person to whom it is consigned or who holds the bill of lad

Invoices shall be made out in the currency of the country where the merchandise is made or purchased or agreed to be purchased, and shall contain a description of the merchan-The Senate amendment authorizing shall be made in the invoice of the purchase price agreed upon, and that transactions that are actual purchases and sales shall be entered as thereon a statement signed by purchaser or owner setting forth that wholesale price in the markets of the country of export shall be stated. This paragraph follows, in large of them members of Uncle Sam's House had made them dutiable for der a through bill of lading being re- chandise is assembled for shipment." and makes changes with reference to agreements to purchase.

The conferees rewrote a provision in this section. It provides that when merchandise arrives in the United States and remains the property of the shipper, or consignor, the acceptance of a fraudulent or false invoice thereof by the consignee or his agent or the existence of any other facts constituting an attempted fraud shall be deemed an attempt to enter such merchandise, notwithstanding no actual entry has been made or offered.

REDUCTIONS ON ESSENTIALS.

Wearing apparel for which cattle.

Bags, sachels, pocketbooks, etc., from 47.23 to 30 per cent. India rubber and manufactures thereof, known as druggists' sundries, Cotton Manufactures.

Spool thread cotton, from 36 cents Handkerchiefs or mufflers, not

30 per cent. Silks and Silk Goods,

Silk partly manufactured and not advanced than carded or combed, from 35 cents a pound to

Wool Manufacturers. Blankets and flannels from 72.69 per Carpets of every description from Clothing.

Gloves, from 44 per cent. ad valorem to \$2 a dozen. Woolen goods, from 11 cents a

pound to free list. Hats and bonnets of fur, from 51

Children's gloves, from 44,15 per Pearl buttons, from 48 per cent, to

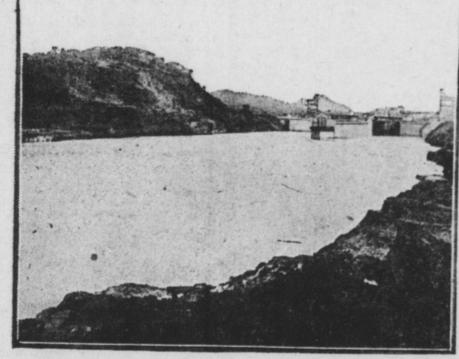
FOOD SCHEDULE CHANGES.

Oatmeal and rolled oats, from 1 cent a pound to 30 cents a hundred Butter and substitutes, from 6 per cent, to 21/2 cents a pound.

Cheese and substitutes, from 31,79 per cent, to 20 per cent, Onions, from 40 cents to 20 cents a bushel of 57 pounds. Peas, from .25 cents to 10 cents a

Chocolate and cocoa, prepared or manufactured, from 21.50 per cent. to 2 cents a pound.

Cattle from \$2 a head to free list.



This picture gives a view of the great expanse of water now gradually filling the Panama canal, which is almost ready for the admission of the big ships. To look at the picture one would think that the canal was finished. The embankments that flank the channel, the broad expanse of water and the Miraflores locks in the distance are just as they will be when the opening of the canal takes place. This is the only photograph received up to the present time which shows the canal as it will appear at the opening of the big waterway connecting the Atlantic and Pacific oceans.

and the great locks have been con-; dredges floating on the waters of the structed. The work that remains to canal, and will not interfere with nav- took definite action looking toward be done is largely detail, and is but igation of the waterway by such boats the construction of an isthmian canal child's play as compared with that as may be allowed to pass through. which has been done. More dirt is to be removed from the channel, but this will be done with suction dredges now flowing into the Culebra cut, is to make an investigation, and reportfloating upon the waters of the canal. the pivotal point about which the en- ed that the canal could be construct-There still remain some finishing tire canal system revolves, and the ed for \$25,000,000, hardly one-twentitouches to be placed upon the locks. creation of this lake, together with the eth of the amount that the Panama little time and presents no engineer-

countered in the past. The fact that the canal stands practically complete more than a year beforts to build the Panama canal after eight years of labor, he had scarcely made a beginning upon the gigantic engineers, starting almost at the same | ing from 500 to 1,000 feet. point as de Lesseps, for the latter's cans, have virtually completed the an artificial ridge more than a mile ever was called upon to face. undertaking. When the work was and a half long. Figures alone give Such was the history of the inthstarted the world scoffed at the idea an adequate idea of the magnitude of mian canal project for some 300 or that it could be completed within the this dam. Nearly half a mile wide at 400 years, until the day in 1904 when time limit set, but hats are now off its base, about 400 feet wide at the Uncle Sam undertook the task.

To Avoid Counterfelting.

special, and, as far as possible, se-

Immense Artificial Lake Created.

construction of Gatun dam, consti- canal will have cost when completed. tuted another great engineering feat ing difficulties such as have been en- in the construction of the canal.

Of course, there have been many at | to read between the lines, behind the In the production of their notes, tempted robberies, but only once, in words, beyond the horizon of the the Bank of England authorities' the year 1862, were thieves success- printed page. Philip's question to the chief aim is to issue a note which is ful in obtaining any of the paper, chamberlain of Ethiopia was crucial: impossible for anybody to counter. Very shortly afterward forged notes "Understandest thou what thou readfeit. Toward this end, all the parts were in circulation. The thieves did est?" I want books not to pass the of the note—the paper, the water not enjoy the triumph long, for with time, but to fill it with beautiful mark, the ink, the engraving, the in a short time they were captured. thoughts and images, to enlarge my

Reading Between the Lines. cret manner. At the mills where the To get the good of the library in them clear, to show me the local color paper is manufactured the most strin- the school of life you must bring into of unknown regions and the bright gent precautions are taken to pre- it something better than a mere book- stars of universal truth.—Henry Van rent any of the paper being stolen. ish taste. You must bring the power Days.

world, to give me new friends in the