SEE U. S. COAST SAFE WITH MOBILE GUNS

Inventors of New Armament to Ask $50,000,000 From Congress for Defence.

INDORSED BY ARMY MEN

Two young engineers who are, oddly enough, sanitary drinking cup manufacturers have invented a new mobile gun for coast defence which has interested the United States War Department to such an extent that an appropriation of $50,000,000 for manufacture of the guns will soon be asked of Congress.

The device is simple. It provides for the fixing of heaviest rifles and mortars on railway trucks and the installation of concrete foundations on which to run the guns all along the coast. The guns are so fixed upon the cars that they can be run onto the concrete foundation and permanently fixed within a few minutes, and can be removed with equal facility.

But the chief virtue of the plan, if it proves practicable, and it has high expert recommendation, is that for the cost of one modern battleship, say $9,000,000, the entire coast line from Maine to Delaware can be tabulated with bases and enough mobile guns and cars provided to equip them. This, at least, is the assertion of the inventors.

The plans for this system of defence have been drawn up with the assistance of such military experts as Brig.-Gen. M. M. Macomb, chief of the War College; Brig.-Gen. Erasmus M. Weaver, chief of the coast artillery division; Brig.-Gen. William Crozier, Chief of Ordnance, and Major-Gen. Leonard Wood, commander of the Eastern Department of the army. Some of the best known ordnance experts have given their approval to the idea and are ready to recommend it to Congress.

Claims of the Inventors.

Many claims are made by the inventors for their new guns. "mobile armament" as they call it. Some were outlined by one of the inventors, who said:

"Mobile armament should be our principal means of defence for those portions of coast line beyond the range of our fixed fortifications, because of its accuracy and rapidity of all around fire control, its flexibility and consequent strategic value, as well as on the score of its unprecedented power.

"The enemy would not know the position of the batteries, the number or size of the guns that he would have to combat.

"Should our mobile armament be greatly outnumbered by an attacking fleet, it could retire out of range of the fleet and yet frustrate any attempt at landing.

"Concrete foundations could be located singly or in groups on railroads along our coasts and borders wherever needed, also in areas covering munition supplies and large cities.

"Present railroad facilities along the coasts of Massachusetts, Rhode Island, Connecticut, New York, including Long Island, and New Jersey are so located that ample gun foundations could be placed on spurs or side tracks so that any boat attempting to land must come within range of any desired number of guns. Without grouping the concrete bases and placing 110 of them on the coast line in question no landing party could reach the shores without coming within the nine mile range, known as the deadly fire range, of six of our mortars.

$500,000 for 150 Bases.

"These concrete bases would cost approximately $3,000 to $4,000 each, total cost of 110 bases approximately $500,000.

"It is estimated that to cover this shore line would require about fifty mortars and ten rifle armament cars. This would mean that there would be 110 guns of mobile car equipment with a total outlay of about $9,000,000.

"In carrying our invention into practice we propose to install at fixed and predetermined points along existing railroads or at desirable strategic points where railroad facilities may be installed suitable foundations, preferably concrete of sufficient size and stability, from which the highest powered guns may be fired, and upon a suitable mobile car to mount permanently high powered guns which may be swiftly transported to the point of attack, located on the foundations and brought into action.

"These concrete foundations may be located on main lines, spurs or sidetracks, either singly or in groups, as desired, behind hills, in railway cuts and other secluded spots along the region it is desired to protect at a very nominal cost, as compared with the cost of placing fortifications at such points.

"The ready to use mobile armament cars would in considerable numbers be sent at stations dispersed along our coasts, from which they could be quickly mobilized at any point of attack.

Enemy Could be Surprised.

"The strategic value of our mobile armament would greatly enhance the difficulties of an enemy, who could be surprised. This from a military point of view has long been recognized and often proves a serious calamity for the enemy.

"Should the enemy locate and obtain the range of one of our mobile cars the car could be quickly unlocked and moved to another location."

The inventors are Cecil F. Dawson and Lawrence W. Luellen. The bill to be submitted to Congress will call for an appropriation of $50,000,000, which it is estimated would be sufficient to equip the entire coast line of the United States, Atlantic and Pacific, with foundations, guns and cars.

FEWER MEDICAL BOOKS AS A RESULT OF WAR

Great Falling Off in Periodicals Also Reported by New York Academy.

A great decrease from the average in the number of medical books published during 1915 in warring Europe is mentioned in the annual report of the committee on library of the New York Academy of Medicine, which was issued yesterday. In the report the chairman, Dr. Thomas L. Stedman says:

"I have no figures to show how greatly the output of medical books during the last sixteen months in Germany and France has fallen below the normal of recent years. I can only say in general terms that the publication of medical books in France has practically ceased and that in Germany it is confined almost entirely to the completion of "systems" already in course when the war began and to works dealing mainly with military medicine, surgery and hygiene.

"As to journals, whereas 704 French and German periodicals were subscribed to and received by the library in the year 1913, during the present year we have received 435. It is therefore apparent that except for this restriction of the literary activities of our confreres in the belligerent countries the crowded condition of our library would have been even greater than it is at present."

The limited space for readers in the library has resulted in great crowding during the morning and there has been talk of restricting the attendance of nonmembers to those who can show a legitimate reason for their presence.

The total principals of trust funds of the academy now amount to $738,600. In December, 1914, the amount was $687,090.

STATE FIXES WOMEN'S PAY.

Experienced Workers Must Get at Least $8.50 a Week.

BOSTON, Jan. 1.—Most of the proprietors of the retail stores in Massachusetts have accepted the decree of the Minimum Wage Commission, establishing a standard of minimum wages for their female employees.

The decree provides that no experienced woman employee of ordinary ability shall be paid less than $8.50 a week and they cannot be deemed inexperienced if they have been employed in a retail store for one year or more after reaching the age of 18. They shall be deemed to have been employed for a year if absences during twelve months have not been of unreasonable duration.

Wages of learners or apprentices of ordinary ability may be less, but if 18 or over they must receive $7. If 17 the minimum is $6, and no other female of ordinary ability shall receive less than $5 a week. A woman of less than ordinary ability may be paid a lower wage than the prescribed minimum, provided certain previous laws are complied with.

All women of 18 who have been employed a year prior to date are deemed to have served an apprenticeship.

WAR BRINGS TASKS FOR CIVIC STUDENTS

National Federation Will Discuss Problems Presented by Conflict.

WILL MEET THIS MONTH

Problems presented in this country as the result of the great war in Europe will be discussed at the meeting of the National Civic Federation, which will open in Washington on January 17. These problems include the industrial conditions created by the war and the conditions that must be met when the conflict ends.

The federation announced yesterday that the general topics for discussion will be:

"The legal and moral obligations resting upon foreign born citizens of the United States, those who have become naturalized citizens and those who have taken steps to become citizens, as well as those engaged in labor or business here, but not intending to take out citizen's papers.

"The present and prospective effects of the war upon immigration to the United States, as it relates (1) to the wage earner, (2) to industry, and (3) to the body politic; and what, if any, new legislation is required to deal with this problem.

Study of Profit Sharing.

"Among the reports will be one giving an analysis of over 100 profit sharing plans now in operation in this country, as well as a description of many abandoned ones and the causes of their failure. It will cover different methods employed in industrial enterprises—manufacturing plants, mercantile houses, public service corporations and financial institutions.

"A plan will be presented for the organization of a commission to make a study of the question, How far shall the Government in this country enter into private industry? It will provide for a review of conditions in Europe, where the Government is more and more taking over private industry. Has this resulted in such benefit that it will become the permanent policy, or is it tolerated as a military necessity?

"The industrial economics department will make a preliminary report on its survey of the social and industrial changes that have taken place in the United States during the last generation. The object of this survey is to summarize the changes in our national life and to gather together the essential form from which to judge where there has been an advance in well being, where there has been loss, and how far in the aggregate, gains and losses balance or outweigh one another."

Thinks Time Ripe for Survey.

"It is felt," said Ralph M. Easley, chairman of the executive council, "that the time is peculiarly ripe for such a survey. The last thirty years have witnessed not only remarkable changes in our social and economic life, but also a marked change in the public attitude toward our national affairs. The fulsome panegyric of the old time Fourth of July orator has given place to a ceaseless criticism of existing institutions, whether they be political or social or economic.

"The prophets of change and the propagandists of reform of all sorts have rudely shaken that faith in our institutions and in ourselves which a former generation blindly inherited from its forefathers. In many minds there is unrest, a feeling that conditions are so bad that sympathy is awakened for the most radical proposals.

"On the other hand there are those who see in such unrest the hopeful signs of advance which only proceed from discontent, and they point to the tremendous progress which has been made, industrially and socially, in the last thirty years as a complete answer to those who argue that, because perfection has not yet been attained, our present institutions are a failure and should be overturned."

Man, 81, Fatally Hurt by Auto.

Charles E. Sands, 81, of 599 Decatur street, Brooklyn, while crossing McDonough street at Patchen avenue last evening was knocked down by an automobile operated by Hiram Lamport of 36 Eldert street. He suffered a fractured skull and internal injuries and was taken to the Bushwick Hospital, where it was said he would probably die.

FOR SALE.

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which we will sell at ridiculously low figures. Come, Look and You Will Buy.

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VIOLIN Rare old Cremona, wonderful tone, finest preservation, sacrifice cheap. Call or write, Clothing Store, 79 Cortlandt St.

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GREAT SALE BY AUCTION OF 600 CAREFULLY CHOSEN PERSIAN RUGS AND CARPETS in many sizes, weaves and colors.

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Splendid, specially chartered steamships, sailing under the American flag. All rooms outside rooms.

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*TUSCANIA.....SAT., JAN. 22, 10 A.M.
*CALIFORNIA.....SAT., JAN. 29, 10 A.M.

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New London (Norwich) Line, strs. lv. Pier 40, N. R., ft. Houston St., week days only, 5:30 P. M.; Pier 79, E. R., ft. E. 22d St., 6:00 P. M.

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PUBLIC NOTICES.

BOARD OF ESTIMATE AND APPORTIONMENT.

Municipal Building, New York.

NOTICE IS HEREBY GIVEN that the Board of Water Supply of The City of New York, pursuant to Chapter 724 of the laws of the State of New York enacted in the year 1905, and amendments thereto, has made such surveys, maps, plans, specifications, estimates and investigations as it deemed proper in order to ascertain the facts as to what sources for an additional supply of pure and wholesome water for The City of New York exist and are most available, desirable and best for the said supply and has reported to the Board of Estimate and Apportionment with recommendations as to what action should, in its opinion, be taken with reference thereto, which report, with a map, plan and profile accompanying the same, bears the date of June 13, 1905, and is entitled "Map and profile showing manner of obtaining from Schoharie creek an additional supply of water for The City of New York," which said map is on file in the office of the Board of Water Supply of The City of New York, in the Municipal Building, Park Row, Centre and Chambers Streets, in New York City; that said map and profile were approved by the Board of Estimate and Apportionment July 6, 1906; that said map and profile were submitted to the State Conservation Commission and by that Commission approved October 21, 1914; that said Board of Water Supply has made a further report, dated December 21, 1915, to the Board of Estimate and Apportionment, in which it is set forth that it is necessary that the said map and profile, dated June 13, 1906, be now modified as shown upon a map and profile submitted by said Board of Water Supply, dated December 21, 1915, and entitled "Map and profile showing manner of obtaining from Schoharie creek an additional supply of water for The City of New York," which said map is on file in the office of the Board of Water Supply of The City of New York in the Municipal Building, Park Row, Centre and Chambers Streets, in New York City.

NOTICE IS ALSO GIVEN that the Board of Estimate and Apportionment of The City of New York has fixed the 14th day of January, 1916, at 10 o'clock in the forenoon, at Room 16, in the City Hall, in The City of New York, as the time and place for a public hearing upon the said report, dated December 21, 1915, and has resolved that notice of such public hearing be given by publication in the CITY RECORD and in two daily papers published in The City of New York, and by publication of said notice in two papers designated as "official papers," if any, for the publication of official notices in each of the counties of Albany, Columbia, Delaware, Dutchess, Greene, Montgomery, Orange, Putnam, Rensselaer, Rockland, Schenectady, Saratoga, Schoharie, Westchester and Ulster, or if there be none such in any of said counties, then such notice shall be published in any two papers published in said counties, such publications having been determined by said Board of Estimate and Apportionment to be reasonable public notice of said hearing, and that the Secretary of the said Board of Estimate and Apportionment was directed to give such further notice as will meet the requirements of the statute and as he may be advised by the Corporation Counsel.

JOSEPH HAAG, Secretary of the Board of Estimate and Apportionment of The City of New York. Dated, New York City, December 23, 1915.

AGENTS WANTED.

EXCLUSIVE TERRITORY—Commercial Safety-Blade-Sharpener; will earn $5 to $15 a day; sixty days trial; big money maker. ANDERSON GAFFNEY, San Francisco, Calif.

HELP WANTED—FEMALE.

MODEL. Stylish woman of short, stout figure, size 42 bust, for showroom of wholesale dress and costume house. Steady position to desirable party. THE ROBBINS DRESS CO., 22 West 32d Street.

MODELS. Stylish young women for showroom of wholesale dress and costume house. Steady position to desirable and experienced help. THE ROBBINS DRESS CO., 22 West 32d Street.

HELP WANTED—MALE.

EDITOR—Combination of magazine writers desires to meet experienced newspaper man, preferably one who has written magazine or feature stories to give part of his time to developing a magazine syndicate. Splendid opportunity for high class man. Address M., box 148 Sun office.

Government Railway Mail, Post Office and other "exams" coming soon. Prepare NOW under former U. S. Civil Service Secretary-Examiner. Booklet 643 free. Write to-day. PATTERSON CIVIL SERVICE SCHOOL, Rochester, N. Y.

I WILL PAY any honest man up to $50 monthly for part of spare time. No canvassing. No capital. Write to-day. VORHIES, Desk 121, Omaha, Nebr.

MACHINISTS—Skilled in brass and copper work; state age and experience. Address R., box 166 Sun office.

$50 MONTHLY and expenses, to travel, distribute samples and take orders, or appoint agents. Permanent. JAP AMERICAN CO., Chicago.

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HOUSEKEEPERS—Colored; several neat girls, experienced, good references, thoroughly investigated; want place, other Southern help furnished. LINCOLN INDUSTRIAL EXCHANGE (Agency), 214 W. 59th. Phone 5022 Columbus. Established 1899.

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PRIVATE SECRETARY—Young man, 28, A1 experienced stenographer with initiative and executive ability, capable handling correspondence, now employed, would like connect where ability and hustle count; experienced handling automobile and would travel with employer if desired. Address G. T. I., 454 Pine Street, Williamsport, Pa.

Incoming Vessels—By Wireless.

Ss Finland, London, 850 miles east of Ambrose Channel at noon yesterday.

Ss City of Montgomery, Savannah, 120 miles southwest of Diamond Shoals at noon.

Ss Brabant, Tampico, 145 miles southwest of Diamond Shoals at noon.

Ss J. C. Hooper, New Orleans, 535 miles south of Cape Hatteras at noon.

Ss Lampasas, Mobile, 604 miles from Diamond Shoals at noon.

Ss Illinois, Port Arthur, 35 miles east of Sand Key at noon.

Ss Proteus, New Orleans, 296 miles south of Diamond Shoals at noon.

Ss Radiant, Port Arthur, 298 miles east of Sabine bar at noon.

Ss El Sol, Galveston, 2 miles north of Jupiter at 6 P. M.

Ss Brilliant, New Orleans, 37 miles east of Sand Key at noon.

Ss Cornitz, Copenhagen, 370 miles northeast of Providence Channel at noon.

Ss Nueces, Galveston, 880 miles south of Sandy Hook at 8 P. M.

Ss El Sud, Galveston, 347 miles east of Galveston bar at 6 P. M.

Ss Carolina, San Juan, 376 miles south of Sandy Hook at 8 P. M.

Ss Comanche, Jacksonville, 533 miles south of Sandy Hook at 7 P. M.

Ss Esperanza, Vera Cruz, 250 miles west of Havana at noon.

Ss Nelson, Port Arthur for Bayonne, 200 miles west of Tortugas at 7 P. M.

Ss Pioneer, Copenhagen, also Richmond and barge, 950 miles east of Ambrose at 8 P. M.

Ss Bantu, Wilmington, 160 miles south of Sandy Hook at noon.

Ss El Sigio, Galveston, 131 miles south of Sandy Hook at 6 P. M.

Ss Mexico, Vera Cruz, 90 miles south of Sandy Hook at 7 P. M.

Ss Antillas, New Orleans, 20 miles southeast of Mississippi bar at 7 P. M.

WEATHER FORECAST

Washington Predictions for To-day and To-morrow.

For eastern New York, southern New England and New Jersey, rain or snow to-day; colder and probably fair to-morrow; fresh south winds, becoming northwest and strong by to-morrow.

For western New York, rain to-day; local snows and colder to-morrow; fresh to strong south to southwest winds.

NEW YORK, Jan. 2.—The pressure which was high and keeping fair weather over the Atlantic States began to fall yesterday and in consequence the conditions became unsettled and warmer, but there was no definite storm in this section.

The pressure was low over most of the country west of the Allegheny Mountains, with areas of depression moving eastward from the Southwest and Northwest, causing rain in the Southern States and snow in most of the northern States, with the possibility of a general storm movement. It was warmer in all the central States and thence eastward to the Atlantic coast. It was becoming colder in the Northwest and Rocky Mountain States into the Southwest.

In this city the day was cloudy, with light rain in the afternoon; warmer; wind, light to fresh southerly; average humidity, 63 per cent.; barometer, corrected to read to sea level, at 8 A. M., 30.06; 3 P. M., 29.92.

The temperature in this city yesterday, as recorded by the official thermometer, is shown in the annexed table:

	1916.	1915.		1916.	1915.
6 A. M.	33°	22°	6 P. M.	30°	28°
12 M.	35°	29°	9 P. M.	37°	27°
3 P. M.	37°	32°	12 Mid.	36°	25°

Highest temperature, 37°, at 2:15 P. M.
Lowest temperature, 29°, at 12:05 A. M.

EUROPEAN MAILS.

The Swedish-American liner Stockholm, sailing to-day for Gothenburg, will take mail, closing at 4:30 A. M., for Germany, Austria, Hungary, Luxembourg, Bulgaria, Turkey, Sweden, Denmark and Russia.

The Greek liner Ioannina, sailing to-morrow for Piraeus, will take mail, closing at 12:30 P. M., for Greece, when specially addressed only.

The Scandinavian-American liner United States, sailing to-morrow for Christiansand and Christiania, will take mail, closing at 10 A. M., for Norway, Sweden, Denmark, Russia, Germany, Austria, Hungary, Luxemburg, Bulgaria and Turkey.

The Sicilia Americana liner San Giuglielmo, sailing on Tuesday for Naples, will take mail, closing at 9:30 A. M., for Italy, Rumania, Serbia and Greece.

The French liner Rochambeau, sailing on Tuesday for Bordeaux, will take mail, closing at 12 M., for France, Rumania, Serbia, Switzerland, Italy, Egypt, Greece, British India, British East Africa, Siam, Malta, Gibraltar, Ceylon, Straits Settlements, Dutch East Indies, West Australia and Persia.

The Holland-America liner Ryndam, sailing on Wednesday for Rotterdam, will take mail, closing at 8:30 A. M., for Great Britain, Ireland, Belgium, Russia, South Africa, the Netherlands and Switzerland.

The White Star liner Baltic, sailing on Thursday for Liverpool, will take letter mail only for Great Britain and Ireland; also specially addressed correspondence for other countries except Germany, Austria, Hungary, Luxemburg, Bulgaria, Turkey, the Netherlands, Norway, Sweden and Denmark, closing at 8:30 A. M.

MARINE INTELLIGENCE.

MINIATURE ALMANAC.

	AM	PM
Sun rises	7:20	Sun sets 4:40
Moon rises	4:44	

HIGH WATER THIS DAY.

	AM	AM	AM
Sandy H'k	4:48	Gov. Isl. 5:00	Hell Gate 6:50

LOW WATER THIS DAY.

	AM	AM	AM
Sandy H'k	11:24	Gov. Isl. 11:31	Hell Gate 1:31

Arrived—SATURDAY, January 1.

Ss Baltic, 9:15 A. M., Liverpool, Dec. 23.
Ss Ryndam, 12 M., Falmouth, Dec. 22.
Ss Gouvernour de Lantsheere, 1:30 A. M., La Pallice, Dec. 12.
Ss Ile de la Reunion, 5 P. M., Barcelona, Dec. 11.
Ss M. E. Harper, 2:15 P. M., Bordeaux, Dec. 8.
Ss Tokushima Maru, 12:45 P. M., London, Dec. 15.
Ss Commanipaw, 1:30 P. M., Algiers, Dec. 14.
Ss Chariton, Las Palmas, Dec. 3.
Ss Lord Cromer, Boston, Dec. 31.
Ss North Pacific, Montevideo, Dec. 4.
Ss Maracaibo, Maracaibo, Dec. 25.
Ss Capac, St. Lucia, Dec. 21.
Bark Silius, Fleetwood, Nov. 19.
Ss Hamilton, Norfolk, Dec. 30.
Ss Thuban, Newport News, Dec. 30.
Ss Texan, Philadelphia, Dec. 31.

ARRIVED FROM NEW YORK

Ss St. Paul, at Liverpool.
Ss Corinth, at Hull.
Ss Iroquois, at Puerto Plata.
Ss Zulia, at Curacao.
Ss Buenos Ayres, at Barcelona.

SAILED FOR NEW YORK

Ss Ordina, from Liverpool.
Ss Esperanza, from Progreso.
Ss Philadelphia, from San Juan.
Ss Saxonia, from Puerto Barrios.
Ss Carrillo, from Kingston.

OUTGOING STEAMSHIPS

Sail To-day

	Made Close	Vessels Sail
Stockholm, Gothenburg	4:30 A M	8:00 A M

Sail To-morrow

United States, Christiansand	10:00 A M	2:00 P M
Ioannina, Piraeus	12:30 P M	3:00 P M
Caribbean, Barbados	1:00 P M	3:00 P M
Hamilton, Norfolk		3:00 P M

Sail Tuesday

San Guiglielmo, Naples	9:30 A M	1:00 P M
Rochambeau, Bordeaux	10:00 A M	1:00 P M
Yuma, Santo Domingo	8:00 A M	12:00 M
Ponce, Puerto Plata	8:00 A M	12:00 M
Matura, Grenada	10:00 A M	12:00 M
Hawaiian, Bahia	9:00 A M	1:00 P M
Guiana, Barbados	12:30 P M	3:00 P M
Apache, Jacksonville		3:00 P M
City of Montgomery, Savannah		3:00 P M
Jamestown, Norfolk		3:00 P M

Sail Wednesday

Ryndam, Rotterdam	8:30 A M	12:00 M
Bermudian, Bermuda	9:00 A M	11:00 A M
Zacapa, Jamaica	9:30 A M	12:00 M
Maracaibo, La Guayra	9:30 A M	12:00 M
Comal, Galveston		3:00 P M
Comanche, Jacksonville		3:00 P M
Princess Anne, Norfolk		3:00 P M

INCOMING STEAMSHIPS

Due To-day.

Rhodia	Rotterdam	Dec 13
Patras	Piraeus	Dec 4
Coruna	Barry	Nov 30
Colbert	La Pallice	Nov 16
Arabia	Hull	Dec 1
Rembrandt	Rotterdam	Dec 2
Chariton	Las Palmas	Dec 3
J. Lover Serra	Barcelona	Dec 8
Ribston	Naples	Dec 6
King Edward	Cardiff	Dec 14
Thessalonika	Gibraltar	Dec 7
Tuscania	Glasgow	Dec 18
Dryer	Algiers	Dec 3
Mansfield	Gibraltar	Dec 13
Heroldie	Algiers	Dec 11
Corning	Copenhagen	Dec 10
E. Valle	Galveston	Dec 20
Finland	London	Dec 23
Kursk	Archangel	Dec 17
Francisco	Hull	Dec 16
Enfield	Liverpool	Dec 17
Edison Light	Cristobal	Dec 24
Comal	Galveston	Dec 25
El Siglo	Galveston	Dec 25
St. Louis	Liverpool	Dec 24
Richmond	London	Dec 17
Apache	Jacksonville	Dec 29