TRADING IS LISTLESS:

Near Approach of Legal Holi-

(By Lessed Wire to Daily News.)

(Copyright, 1992 by Philadelphia Public Ledger.)

New York, July 1.—The start of the railway strike has apparently caused no uneasiness to the general public, as the holiday movement out of New York has already reached the heaviest volume on record at the Grand Central terminal.

The actual bank statement shows a slight contraction in loans, this liem for the week ending July to tailing \$4,737,892,000 as compared with \$4,822,932,000. At the same time net demands deposited dropped from \$4,285,515,000 to \$4,131,1524,000.

The applial stockholders' meeting of Consolidated Cigar, which was called to vote on the proposed issue of 41,400 shares of common stock to stockholders at \$25. and 5,100 shares to employes at the same price, has been adjourned for one week. It is learned that W. C. Durant has virtually completed negetiations for the acquisition of the Locomobile company, which is now in the hands of " receiver; it is believed that the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant, as yellowed that the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant, as yellowed that the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant, as self-the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant as self-the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant as self-the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant as self-the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant as self-the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant as self-the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant as self-the purchase price will be \$2,000,000. While no announcement has been made by Mr. Durant as self-the purchase as the present model of the Locomobile company. When is now the

the present model of the Locamobile.

Hecent statements that Chicago Pasumatic Tool is now earning 34 dividend are borne out by reports from the west that earnings of this company for the first half year were about \$25,000 or \$2 per share on the \$12,300,000 or \$2 per share on the \$12,300,000 stock after all charges, which include a depreciation fund to sliow for a possible testine in the dellar value of funds held in foreign countries through a drop in exchange rates.

Current activity in American Waterworks, especially the common stock, which has established a new high at 16% as compared with 14 m. Wednesday, is based on improved conditions in the company and the hope of a dividend declaration on the participating preferred later in the par R. Dutch, N. Y. Sin. O. and R. S. Pacific South. Rwy. S. Rwy. pfd. S. O., N. J. pfd

Penn. Pure Oil Reading Rep. 1. and Stl. R. Dutch, N. Y.

59 59 59 3214 31% 12 59 4 69 89 2334 2314 23 4 55 56 56 116% 116% 116%

63 %

U. S. Rub. 16 63% 63 V. S. Stl. 18 994 99 Utah Cop. 7 62% 63 V. S. Stl. 18 994 99 Utah Cop. 2 45 40 V. Car. Chem. 30% 30 W. Union 1977 98 78 W. Elec 7 55% 58 Willya-Over. 3 8% 58 Willya-Over. 3 16% 16 Ray. Con. Cop. 3 16% 16 T. & P. C. & O. 8 27% 27 Total sales, 213,500 shares.

Cotton Goods Market Review.

Cetton Goods Market Review.

New York, July L.—Cotton goods primary markets have been quieter this week without any material change in the upward trend of prices. Many finished goods that have been any finished goods at the position of agents. The jobbers and retailers are still slow in their response to the price uplift in first hands markets following the rise in cotton. They are buying conservatively and have been unwilling to move as firmly ahead on many staple goods as the manufacturing trades have gone.

The heavy end of the industry, such as duck, automobile fabrics, bills, twills, etc., have improved, in consequence of the demand following the recovery in general trade. The New England strikes are breaking up very slowly. Production has been increasing at Fall filver and some other enters where slack operation was the rule.

There has been an improvement in fine combed yarn fabrics and buying for future delivery has been steader. Wash fabrics of a novelly character wash fabrics of a novelly character are being cleaned up well but many of the stapics in scasonably in the volume anticipated. Cotton yarns are higher with trade restricted by the advances. Knit goods production has been decreasing in the underwear division. Mills are comfortably engaged for the next two months and a better movement in consuming channels is looked for in the autumn. Prices current in first hands are as follows:

-Print cloths, 28 inch 54x64s. 7 cents.

5 sants. Froun sheetings. Southern the consuming channels is looked for in the autumn. Prices current in first hands are as follows:

-Print cloths, 28 inch 54x64s. 7 cents.

5 sants. Froun sheetings. Southern the consuming channels is looked for in the autumn. Prices current in first hands are as follows:

-Print cloths, 28 inch 54x64s. 7 cents.

NON-EXISTENT COTTON IS OFF A LITTLE GRAIN'S TONE IS FIRM SAYS WOR

Attendance of Members On Ploor of Exchange Was Extremely Small and Day's Turn Over Less Than On Any Previous Oceanion During Year. Market In Nery Quiet Except For Fur-ther Evening Up For the Govern-ment Report Monday-Close Stendy At 2-4 Points Lower.

RAIL STRIKE A FACTOR

To Least Was to Daily Seal.

Or. Least Was t

York Stock List.					were showing less confidence in	
-	100's	Highest	Lowest.	Pindas	prices, but that British manufacturers	
D		68	6714	68	expected to do a good business with	
*****	- 5	4630	4614	461/	India and China. Fall River reported	
1000		9 10 79	9.0 %	9.9.29	that business there had been restrict-	
orp.	- (4)	41.54	4.1.%	41.74	ed by the unwillingness of manufac-	
	- 2	112	11114	59 %		
R.	10	59 %	58 %	59 %	turers to consider bids and conces-	
Tob.	1	39 14	39.17	391,	sions.	
T	12	120	120 %	120 %	Futures: Fri.	
	90	51 14	508	511/2	Open, High, Low, Close, Close,	
* * * *	10	100	00.7	100	July 21.48 21.55 21.88 21.52 21.56	
			5.75.38	100	Oct 21.40 21.53 21.32 21.48 21.52	
W. L	- 1	38	98	3.8		
0.7.0	- 8	114	113%	113%	Dec21.18 21.32 21.13 21.28 21.30	
	12	49.56	49.54	49.54	Jan 20.91 21.06 20.84 21.02 21.05	
"B"	4	76 14	76	7634	Mar 20.83 20.92 20.80 20.91 20.96	
100	1	12836	138 %	138 %	Cotton, spot quiet; middling, 22.05.	
rs		78	691	70	Secretary april decest agreement against	
Ohio	- 2	200	0000	4.07	Port Movement Of Cotton.	
		0.91.56	8.6 %	66.74		
S. P.		26%	26 %	26 %	New Orleans: Middling, 21.50; re-	
d P	20	43.35	43.14	4334	ceipts, 1.446; exports, 14,767; sales,	
	245	72.14	70	71.56	645; stock, 135,960.	
	1	104	104	104		
		70.0	7.9		Galveston: Middling, 22.35; re-	

23% 232; exports, 3,050; sales, 57; stock, 44,111.

Baltimore: Stock, 1,591.
Baltimore: Stock, 1,591.
Boston: Middling, 22,10; stock, 4,-21½
504.
Philadelphia: Stock, 4,142.
New York: Middling, 22,05; stock, 12,986.
Minor ports: Receipts, 950; exports, 50; stock, 2,235.
Total today: Receipts, 9,169; exports, 51,226; stock, 704,421.
Total for week: Receipts, 9,169; exports, 51,226.
Total for season: Receipts, 6,123,-987; exports, 5,717,548.

Interior Movement Of Cotton.

Interior Movement Of Cottem:
Houston: Middling, 22.15: receipts, 2.570; shipments, 5,147; sales, 333; stock, 52.750.
Memphis: Middling, 22.50; receipts, 1.446; shipments, 2.689; sales, 200; stock, 78.758.
Augusta: Middling, 21.62; receipts, 55; shipments, 7545; stock, 77.814
St. Louis: Middling, 22.50; receipts, 2.069; shipments, 2.069; stock, 18.576
Atlanta: Middling, 22.50; receipts, 2.150; receipts, 120; shipments, 502; sales, 33; stock, 24.032.
Dallas: Middling, 21.59; sales, 33; stock, 24.032.
Dallas: Middling, 21.59; sales, 681, Montgomery: Middling, 21.50; rements, 12,552; stock, 26.2830.

RAHROAD LAHOR TROUBLES

ADDITIONAL STOUR AND (By Leased Wire to Daily News.)
New York, July 1.—Following are new York, July 1.—Following are sales on additional stocks:

Northwest and Disappointing Re-ports Regarding Threshing In The Winter Wheat Belt Responsible.

Chicago, July 1.—Disappointing reports regarding threshing in the winter wheat belt and the apprehension of black rust in the northwest gave a decidedly firm undertone to the grain market today. The fact that some of these reports claimed damage was overlooked by the trade in the buillish enthusiasm. At the finish, wheat was 13,035 cents higher, with July 1.17% 2017 corn advanced % 01% cents; oats were % 91% cents up, and provisions ranged from 7% cents lower to 5 cents higher.

WHEAT: Open. High. Low. Close. ...1.14% 1.17% 1.14% 1.17% ...1.16 1.18 1.15% 1.17% 1.18% 1.20% 1.18% 1.20% July ...
Bept. ...
Dec. ...
CORN:
July ...
Sept. ...
Dec. ...
Sept. ...
Dec. ...
LARD: .25% .36% .35% .38% .39% .38% .41% .42% .41% .19 LARD: July . . 1 Sept . . 1 RIBS: 11.25 11.87 11.25 11.22 .11.65 11.62 11.52 11.57 RISS:
July
Sept. 11.62
Cash: Wheat, No. 3 red, 1.154; No. 2 hard, 1.18. Corn, No. 2 mixed, 63 ½
664; No. 2 yellow, 64@64½. NEW YORK BONDS.

Argentine 7s
French Republic 74s
Franch Republic 74s
Kingdom of Belgium 74s
Kingdom of Denmark 6s
Swisa Confederation 8s Swiss Confederation 88
Un. King. of G.Handlbys,1937
U. S. of Brasil 88
U. S. of Mexico 58
Railway and Miscellaneous Bo Haliway and Miscellaneous
American Agric. Chem. 14s.
American Smelt. and Ref. 5s.
American Sugar 5s.
American T. and T. cv. 6s.
Atchison gen. 4s.
Atlantic Coast Line 1st 4s.
Baltimore and Ohio cv. 44s.
Rethichem Steel ref. 5s.
Chesapeake and Ohio cv. 5s.
Chesapeake and Ohio cv. 5s. CHesapeake and Ohio cv. 4s Chicago, B. and Quincy ref. 5s. Chic., Mil. and St. P. cv. 4½s. Chic., R. I, and Pac. ref. 4s. Chile Copper 6s. Cuba Cane Sugar 7s. Erie gen. 4s. Guodyear Tire 8s, 1931 Int. Mer. Marine 6s. Kans City and Southern ref. 5s Keily-Springfield Tire 8s Lignett and Myers 5s. Kelly-Springfield Tire \$s Liggett and Myers 5s Louisville and Nash. ref. 5½s Mexican Petroleum \$s Mo. Kan and Tex pr. Hen 5s Missouri Pac. gen. 4s Now York Central deb. 6s Northern Facific 4s Nor. Pen. 4s Nor. Pen. 6s Nor. Pen. 6s Nor. Pen. 6s Nor. St. Land San Fran adj. 6s Seahoard Air Line con. 6s 8 A. Land San Southern Beili 7el. oa Southern Pacific ev. 4s Southern Hallway 5s Southern Rallway 6½s Southern Rallway 4s Union Pacific 4s U. 8. Steel 5s Virginia Caro, Chem. 7½s Wilson and Co. 7½s

SOUTHERN MILL STOCKS. (Quoted by R. S. Dickson and Com pany. Gastonia, N. C., and Greenville, S. C.)

Acme Spinning Co. 92
Arcadia Milis 220
American Spinning Co. 220
American Spinning Co. 110
Amer. Yarn and Proc. Co. 110
Amer. Yarn and Proc. pfd 192
Anderson Cotton Mills 87
Arington Cotton Mills (S. C.) 215
Arcade Cotton Mills (S. C.) 215
Arcade Cotton Mills 115
Arrow Mills 115
Augusta Factory Arrow Mills
Augusta Factory
Belton Cotton Mills
Fielten Cotton Mills, pfd. 67
Beaumont Mfg. Co. 218
Bibb Mfg. Co. 120
Brogon Mills 77
Clara Mfg. Co. 160
Cifton Mfg. Co. 21
Cabarrus Cotton Mills pfd. 103
Cdk-Hoskins Co. (par \$25)
Cdk-Hoskins Co. (par \$25) C'd'k-Hoskins Co. (par C'd'k-Hoskins Co. pfd Chiquola Mfg. Co. Chiquola Mfg. pfd. . . . Calhoun Mills RAILROAD LABOR TROUBLES

DEPRESS N. O. COTTON MARKET

Cannon Mfg. Co. Clover Mills BAILROAD LAHOR TROUBLES
DEPRESS N. O. COTTON MARKET

New Orleans. July 1.—Small depression in the price of cotton today was caused by the railroad labor
two weather over the greater part of the
the session brought partial recoveries on
the forecast of showery weather for
the session brought partial recoveries on
the forecast of showery weather for
the session brought partial recoveries on
the forecast of showery weather for
the session brought partial recoveries on
the forecast of showery weather for
the several states. The opening was
lower and in the early trading the
declines amounted, to 16 to 18 points.
The compared with yesterday's finals, but
the close was at mel losses of 6 to
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the close was to totton Mills Co. Gallins of the close was to totton Mills Co.
Gallins Mig. Co.
Gallins Spinning Co. (Ga.) 120
Enterfello Mills (Ga.) 200
Gallins Spinning Co.
The condition of the day. In the later
trading the close of 6 to
the close was at mel losses of 6 to
the close was at mel losses of 6 to
the close was at mel losses of Jennings Cotton Mill Judson Mills Judson Mills, pfd.

white oil correcting its this underwone agree of the property of the property

grow still greater in the world, and what do we want our nation to be-come? Shall we be satisfied with material wealth and comfort, or do 86 we desire a higher destiny? Nation is Made by its People.

'In the ancient world there were two peoples, both commercial, both 181 prosperous both powerful in the day and both at last conquered by 45 the Romans. One of them, the Greeks, led the way for all later European peoples in art, in literature, in philosophy and in science The other, the Carthaginians, have left nothing and all we know of

Four hundred members of

Fresident Lowell's baccaulaureate

out flinching. He took for his text:
They measuring themselves by
themselves, and comparing themselves among themselves, are not

"Not always immediately, but ulti-

in man's control of and ability

to a foreign conquest, until the sail

out that the invention of firearms

longer a refuge difficult to capture

tions are made. Who will determine

been followed in a host of other col-

Then the few people were of one stock. Now all the races of Europe 71 have crowded into the land.

American Spirit Still in the Making.

come. Shall it be a chaos of jarrins 140 self-interests, to which each race 145 and each class contributes its harsher notes, or shall it be a harmony of what is best in each? The question will not soon have its final answer, and that answer will depend less upon the generation which is passing away than on that which is now coming on the stage. 240 Even men now young may not see 126 all that will come in the fullness of time. Our forefathers planted the seed, our fathers cuitivated it, and

seed, our fathers cultivated it, we must carry on the work.

It may not be our lot to wield The sickle in the ripened field;

Nor ours to hear on autumn eves
The resper's song among t

"The problems before us are not

"The problems before us are not those of our own land alone, but of the world. The great war has partly caused and partly revealed a vast change in the position of our country. It has been like a young giant boasting of his strength, yet

States, with her resources in mon and nature, has become a power un-matched in the world. Other na-tions are looking to it as they have

hardly looked to another people before. "It is no small thing to have power to influence the fate of all mankind upon the earth. With

power comes opportunity, and with

so opportunity responsibility. Our own right hand may yet teach us fer-

sheaves.

though

"We hear much talk of the Amer can spirit, as if it were a thing fixed and done, but it is still in the mak-ing and will be for many years to come. Shall it be a chaos of jarring

wine.

fullest measure.

months.

devotion that our young men dis-played in the war, and which they would put forth again in a national crisis: if we could retain that spirit in the slow, hard labors of peace; And That Need Now Is Greater or Than Ever, Lowell Tells
Harvard Seniors

MAKE AMERICAN SPIRIT

Make American Spirit of the solution of the server dwell upon the earth. This is not to be achieved by men's comparing themselves among themselves, or measuring themselves by an average standard, but by living up to the heat they know and measuring themselves by their own highuring themselves by their own high-Harvard senior class ristened to be st aspiration. Nor should such men discouraged because they are not ways understood."—New York est aspiration.

sermon, in which he charged that Times. they think clearly, that they do not do as the crowd does, but think for themselves, form a standard of moral conduct, and act upon it with-

f 100.32. Mexican governments hade up part of yesterday's setback ut Europeans were listless and un-

Dry Goeds Market.*

New York, July 1.—Cotton goods markets were quiet today, primary traders awaiting a lead from the government crop report due on Monday. Yarns were firm. Knit goods were steady with preparations underway for the opening of a new season. Wool dress goods sold better for fall delivery. Silks were steady next half a dozen years, but during the period when the men who are now graduating will be in a posi-tion to exert their influence in the "Civilization cannot be independ-ent of the material instruments of which it makes use, and the increase apply the forces of nature has been

greater during the last hundred years than in any preceding 20 centuries of the world's history. A little over a hundred years ago horses supplied, as in the days of the Ro-mans, the most rapid means of conveying men, merchandise or intelli-gence. Wind was the only power for crossing the sea. Today any-'thing of public interest that hap-pens in any civilized country is Savannah Naval Stores. known in every newspaper office over the earth almost as soon as it occurs. A man's voice can now be heard all over this country, and soon will be audible over the whole

world. Flight across the Atlantic is an accomplished fact; and during an accomplished fact: and darrow the great war we sent a million Irish Potato Market. Chicago, July 1.—Potatoes, steady, Southern Bliss Triumphs, sacked, No. 1, 250 02.50 cwt. Alabama Spaulding Rose, 1.90@2.10; North Carolina, Norfolk Irish cobblers, barrels, No. 1, 355@4.25; mostly, 4.00@4.25; eastern shore, 4.50@4.75. "Civilization has always been deeply influenced by inventions No one can doubt what a change was wrought in the ancient world by the use of metals. The improvement of

New York, July I.—Spot coffee quiet: Rio 7's, 10%, \$210%; Santon 4's, 14\cdot 614\cdot 614\cd transportation by land and water en-larged trade, and trade brought in-tercourse, with its new relations. Its enlarged horizon and its temptations Raw sugar firmer at unchanged to 3 points higher.

Tourists Flock to Occupied Germany to Dodge Profiteers

ing ship and the mariner's compass opened the whole world to the peo-ple of Europe. It has been pointed Cohlenz, June 12.-American and and especially of cannon, destroyed the feudal organization of society, because the baron's castle was no British tourists are flocking to the larger cities in the occupied areas of Germany in order to escape the high prices for living now leveled "The extent to which the recent progress in applied science will af-fect both the relation of men to one "The extent to which the recent progress in applied science will affect both the relation of men to one another and the interdependence of different peoples is as yet unknown.

different peoples is as yet unknown; nor will it be wholly settled for a generation to come, even if no fur-ther scientific discoveries and invenammergau making their headquarters during their stay in Germany in this city, and reports from Cologne, oc-cupied by the British and from

tions are made. Who will determine these new relations aright? Upon whom will the guidance for better or worse rest? Obviously, upon the intelligent, the educated and the public-spirited people of the world Will they set themselves earnestly to this gigantic task, or will they immerse themselves in their private pursuits and pleasures and let things drift?

By the benefactions of people dead and living filled with farsighted generosity you have been trained, not only for your own benefit, but also for service to the country where you have been born. There try where you have been born. There try where you have been norm. The lies the most vital point. John Harvard, and the benefactors who charging visitors from 200 to per cent more than German followed him, whose example has followed him, whose example has the collowed him.

been followed in a host of other colleges, were inspired by a desire to help their own community, but they had no conception of the vast area over which the seed they nourished would bear fruit. When the earlier colleges were planter, the small settlements on the Atlantic scaboard were leberylowshy numbing their way life.

Unfair Discrimination

Members of the Jewish race claim that they are being excluded from the college. Well, we never heard of any of them getting into the College of Cardinals either. thements on the Atlantic scabbard were laboriously pushing their way from the ahore into the forest; but now their graduates go forth across the long range of hills into the vast plains beyond and through the Hocky mountains to the western ocean. They can, if they will, influence the destiny of the continent. Life.

666 quickly relieves Colds, Constipation, Biliousness and Headaches. A Fine Tonic.

L. V. EDWARDS Consulting Civil Engineer Streets. Highways, Sewers, Wa-ter, Surveys, Reports, Con-struction Supervised. WINSTON-SALEM, N. C.

W. McC. Neale, M. E.

O. Cox 851 CONSULTING MECHANICAL ENGINEERS Machine and Mill Design

GILBERT C. WHITECO. An Organization of Civil, Mechanical, Electrical and Chemical Engineers

DURHAM, N. C. WATER WORKS, POWER PLANTS, STREETS, ROADS

If You Want To Borrow Money On Your Cotton

force. The war and the events that followed have shown that the United rates the warehouses are our negotiable warehouse re-are known everywhere. Our for storage and insurance are chest or storage chest write us for information.

Greensboro Warehouse & Storage Co. E Latham. Vice-President.

them comes from the histories for the conquerors. A nation is what help conquerors a nation is what Sun Rises Before It Is Up; Sets After It Has Gone Down

Hotter the Sun, the Cooler the Earth Becomes, and Hottest Part of Day Is Not at Noon, But During the Afternoon; Also, a Wet Rainstorm Dries the Air-Paradoxes Explained

the sun rises before it is up and sets after it is down.

These are strong statements and sound like a fairy tale, but they are all true. Dr. W. J. Humphreys, quoted in the annual report of the sorbing quality of ozone, which expenses the strength of the set of the strength of the strength of the set of the

day. Yarns were firm. Kuit goods were steady with preparations underway for the opening of a new season. Wool dress goods sold better for fall delivery. Sliks were steady.

Clearing House Statement.

**New York, July 1.—The actual condition of the clearing house banks and trust companies for the week shows that they hold \$186,887,490 in excess of legal requirements. This is an increase of \$29,422,690 from last week.

**New York of the clearing house banks and rising of warm and light air. Contracted air descends, expanded air ascends. Therefore, mass for mass, the volume of ascending air is an increase of \$29,422,690 from last week.

**New York of the clearing house banks are recommended air ascends. Therefore, mass for mass, the volume of ascending air is an increase of \$29,422,690 from last week.

**New York of the solar radiation. The reverse paradox then, which is also found to be true, may be accounted for in the same way. Sun's atmosphere is clearer during the spot minimum and although there may account the form the same way. Sun's atmosphere is clearer during the spot minimum and although there may account the foundation of the color radiation.

**The reverse paradox then, which is also found to be true, may be accounted for in the same way. Sun's atmosphere is clearer during the spot minimum and although there may account the foundation of the contracted air descending air is also found to be true, may be accounted for in the same way. Sun's atmosphere is clearer during the spot minimum and although there may account the same way. It is not constant the same way.

**How Light in "Bent"

The reverse paradox then, which is also found to be true, may be accounted for in the same way. Sun's atmosphere is clearer during the spot minimum and although the many interesting the story atmosphere is only atmosphere is of the walk of the solar radiation.

The reverse paradox then, which is also for in the same way. Su

rising contains immense quantities water in suspension, which does not return to earth with that air but as rain, hall or snow. The air that rises from the land surface is greater in mass by at least 20,000,000 tons per second, the measure of world preipitation, than that which descends, he says. The third paradox is merely a way

of stating that the warmest part of the day is not at noon, when the sun is at meridian or overhead and should seemingly be pouring down greater heat, but several hours later in the afternoon. That is because the surface of the earth and the low or layers at air continue to absorb more heat from the upper layers for some time after the latter have been receiving the maximum amount of heat radiation from the sun.

While it is not yet universally con ceded that the next puzzler "the hot ter the sun, the colder the earth," realy is true, Dr. Humphreys states, the evidence in favor of it is already very strong. There are several explana-tions offered. The first is that increased radiation from the sun causes earth's air currents to flow more ran idly, bringing down a greater quan-tity of cooler air from high intitudes to lower. He rejects this explana-tion, however.

Spots on the Sun

The temperature of the sun itself
varies and sun spots are eruptions
caused by heat activity. It is known, he continues, that earth's tempera ture varies with spot activity; that

(By Associated Press)

Washington, July 1.—A rainstorm dries the air; more goes up than comes down; as the sun sets the air grows warmer; the hotter the sun grows, the boiler the earth becomes; the sun rises before it is up and sets after it is down.

These are strong statements and

sound like a fairy tale, but they are all true. Dr. W. J. Humphreys, quoted in the annual report of the Smithsonian institution which has just been made public, explains all of them. They are perfectly well known to scientists. If not to laymen.

As everyone knows, Dr. Humphreys declares, water evaporates and is taken up in the air as vapor. This action is continuous all over the earth and the atmosphere would soon, become very soggy if it weren't dried "Not always immediately, but full-mately, but full-mately, mankind is led by those whose thinking is clear, conscientious, and generous," said President Lowell, "and never in its history has the world been more in need Lowell, and never in its history has the world been more in need for such thinking than it is not by now I do not mean only during the next half a dozen years, but during the next half and the atmosphere would soon become very soggy if it weren't dried one atth and the atmosphere would soon become very soggy if it weren't dried one atth and the atmosphere would soon become very soggy if it weren't dried one atth and the atmosphere would soon become very soggy if it weren't dried one atth and the atmosphere would soon the next half a three it has the collection, or condensation, and precipitation of these opinion of the next half a dozen were the next half and the atmosphere would soon the next half and the atmosphere would soon the next

cft in the aunce, the air becomes.

And Black is White

The second of Dr. Humphreys' paradoxes seems flatly to contradict the old saying "whatever goes up must come down." However, as the writer counted for in the same way. Sun's atmosphere is clearer during the spot atmosphere is clearer during t

fore it is actually up and setting after it actually has gone down, is explained by the sending of light waves when passing through the air. A stick when placed in clear water seems to bend; a light ray when sent through the through the air does actually bend The rays from the rising aun are bent The rays from the rising sun are bent, when they strike the air saveleps. This angle varies according to well known laws, but on the average, the light from the sun is bent thirty-four and one-haif seconds of degree, so that the upper limb of the sun when first seen is actually half a degree below the horizon. As the angular diameter of either sun, moon or star is less than this fraction, it follows that when the sky is sufficiently clear the whole of either may be seen before even its topmost portion is geometrically shows the horizon.

seen before even its topmost portion is geometrically above the horison. White the reverse is not absolutely correct astronomically, it is added, when sun, star or moon set, because of the slight modification of refraction due to earth rotation, nevertheless the difference is exceedingly slight. Consequently, as the light rays are bent upward by earth's atmosphere, the sun has actually are osphere, the sun has actually

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