METEOROLOGICAL.

A Thermometrical Review of the Vear 1870 -Comparisons with the Past—The Unexampled "Hented Term" of the Sammer and Autums. In the following table is given the mean temperature of each month of the year 1870, as in-dicated by the thermometer at the Pennsylvania Hospital, together with the highest and lowest point attained, in comparison with the corre-

. 1		Mean.		H	ighe	it.	1	Loncest,		
595	1870	1869	1868	1870	1860	1968	1870	1959	1868	
Months	Deg.	Deg.	Den.	Deg	Deg	Deg	De_d	Deg	Deg	
Jan Feb	41:07	37:02 37:68	30·12 26·65		61.5	45.	18:	19.	11:	
March April.	37·88 58·5	39-47 54-39	41:18	62 · 84 · 5	81.	78.5		14:5	25	
May June	77.85	78 62		95.5	92 97 5	20.	61 61	42 54 62	42 · 6	
Aug Sept	78-77 70-5	76 · 54 76 · 8 67 · 33		94 · 5 86			61.	58	61	
Oct	60.18	52°5 41°27	54:08		79: 61:	77:	39.2	34.5	34 1	
Year	85 67	37:31	32-16	_	59:5	-	11.	17.	15	

The unusual warmth of the past year will be indicated clearly by the following table, in which the mean temperature of each month of 1870 is placed in comparison with the average of the mean temperatures of the corresponding menths for a period of 81 years, together with the highest and lowest mean temperatures recorded during that period:-

	2	0					34
Months.	Means 1870.	Average Means.	H igh	eat	Means.	Lo	vest Means.
	Deg.	Deg.	Deg.			Deg.	
Jan	41:07	81.85	44	in	1790.	22:37	in 1857.
Feb		30.40				24	in 1815, 36, 3
March.		39.08				30	in 1843.
April		51:27					in 1794, 98.
May	65 23	62.65	71	in	1802, 26	51:75	in 1848.
June	77:35	71.69	77.85			64	in 1816.
			77		1828, 31		2 12222
July	80.63	75 69				68	in 1816.
		0.000			1868.	100	VII. WALKE
Aug	78.77	78 16	79.46	in	1863.	66	in 1816.
Sept		66 26				60	in 1840.
Oct	60.13	54 67	64	in	1793.	46	in 1827.
Nov	46-27	43.41	50.5	in	1849.	38 in	1793, 1837, 4
Dec	35.67	32.23	45	in	1848,	25	in 1832.

peratures of the winter, spring, summer, and autumn months of the year from December 1, 1869, to November 30, 1870, in comparison with the corresponding seasons of 1868-69 and 1867-68; also the highest and lowest means during the corresponding seasons for a period of 81 years, and the average of the mean temperatures during that period:-

			(Deg.)	(Da	7.)	(Den.)	(Deg.)
Mean	temp	1878.	37 77	521	20	78 92	58 97
**		1869.	35.62.	50.9		75 49	53 70
. 44		1868.	29-52	50.8	8	77.12	56:36
Av'as	re of	81 years	B1.47	50-9	2	78.56	54.79
			35 33			78 92	58:07
In t	he yea	rs	(1838, 51)	t1826	5)	(1870)	(1870)
Lowe	st me	an	26'66	46		66	49 33
In t	he year	rs	(1815, 36)	(1799, 1	1843)	(1816)	(1827)
Fo	llowi	ng upo	n Decer	mber,	1869,	which	had a

Winter, Spring, Summer, Autumn

mean temperature 4.82 degrees below the average for the month since 1790, January opened the year now drawing to a close with a mean temperature of 41.07, or 9.72 degrees above the average of eighty-one years. Although falling about three degrees below the highest mean for the mouth on record, the mean temperature of January, 1870, exceeded by several degrees the highest recorded in this vicinity in a quarter of a century. The nearest approach to it was a mean of 39-75 degrees in 1858. The temperature of February, with a mean of 34.93 degrees, was unusually mild, although not extraordinarily so, being exceeded in 1869 by 2.75 degrees. and in 1857 by 7.10 degrees, February of the latter year being the mildest on record. Taking the three winter months together, the mean temperature exceeded the average of 81 years by 630 degrees, but still fell more than half a degree below the highest on record, that of 1828

The mid-winter "heated term" terminated on the 20th of February, and the mean temperature of March fell 1 20 degrees below the average for eighty-one years. April witnessed a return to unusual warmth, the mean temperature being 53.50 degrees, or 2.23 degrees above the average. On the 28th, the the mometer at the Pennsyl vania Hospital stood at 84.5 degrees. May maintained the unusual warmth of the season, with a mean temperature of 65.23 degrees, or 2.58 degrees above the average. The three spring months taken together showed a mean temperature of 52 20 degrees, or 1 28 degrees above the average of eighty-one years. June a sweltering summer was inaugu-

rated with a mean temperature of 77:35 degrees, 5.66 degrees above the average for the month, and more than a third of a degree in excess of any mean temperature for June on record. The highest point attained, 95.5 degrees, on the 28th, had frequently been exceeded before; but the general high range of the thermometer during the month rendered its mean temperature higher than any on previous record. July showed a mean of 80 63 degrees, 4 94 degrees above the average, and within about a third of a degree of the highest means on record, those of 1798 and 1868. The excessively hot spell of July, 1870, lasted 18 days-one day longer than that of July, 1868 rendering it altogether the most oppressive month on record, although the mean and maxi-mum points had been slightly exceeded in the past. The mean temperature of August was 78-77 degrees, or 5-61 degrees above the average, and within two-thirds of a degree of the highest en record, that of 1863. The three summer months together had a mean temperature of 78 92 degrees, 5 36 degrees above the average and the highest on record. On thirty-three days during the three months the thermometer at the Pennsylvania Hospital rose above 90 degrees, while in some sections of the city less sheltered it went up to and above 100 degrees. September opened moderately, but unusual

warmth was soon manifested and the mean reached 70.5 degrees, 4.24 degrees above the average. October followed with a mean of 60-13 degrees, 5-46 degrees above the average, and November, with a mean of 46 27 degrees, or 2.86 degrees above the average, rendered the autumn of 1870 the hottest on record. mean temperature of the three months was 58 97 degrees, 4.18 degrees above the average. and more than a third of a degree above that of the autumn of 1856, the warmest previously recorded.

The mean temperature of December has been 35-67 degrees, 3-14 degrees above the average of the mean temperatures of December for eighty-one years. The average maximum temperature of the month was 39-71 degrees, the average minimum 31.63 degrees; the highest point attained, 55 degrees, on the 5th and 12th: the lowest point, 11 degrees, on the 24th. On the 10th, the thermometer at the Pennsylvania Hospital first sunk below the freezing point, and on six days only thereafter did it fail to touch it. Extreme cold weather has been noted in many portions of the country, especially in the West, where the mercury has frequently been reported below zero during the last two

weeks.

The average of the mean temperature of the year just closing is 56 83 degrees. The average of the means since 1825 is 53 57 degrees, the warmest previously known during that period being 1828, with an average of 55 75 degrees; and the coldest, 1826, with an average of 49 degrees.

RAIN.

The Rain Fall During the Year 1870, Compared with That of 33 Years. During the year, rain fell on 127 days, on 23 of which it fell all or nearly all day. The heaviest rain fall, 6.28 inches, was in May, during which month occurred the greatest number of rainy days, 19 in number, but two of which, however, were characterized by continuous rain. The lightest rain fall was in De-

cember, including but four rainy days. The number of days on which snow fell was 30, of which 21 were in the first three months of the year and nine in the last two. During 1869, there were 129 rainy days, and 123 in 1868. In 1869, snow fell on 25 days, and in 1868 on 44

days.

In the following table is given the quantity of rain, in inches, which fell during each month of the year 1870, in comparison with the three previous years, according to the records of the Pennsylvania Hospital:

1870. 1868. 1867.

1		1870.	1869.	1868.	1867.
	Months,	(Inches.)	(Inches.)	(Inches,)	(Inches.)
	January February	4 07	4.28	3.62	1.70
	February	2.58	4.76	2.52	2.89
	March	4.06	5.30	3:36	546
	First Quart	-	100000000000000000000000000000000000000	-	_
	April	5-01	0:10	Esti	1-61
	May	6.00	4-00	7:00	7-90
	June	2.80	6.08	#31	11.02
				-	-
	Second Qua	ar 14 75	12 93	16 81	20.65
	July	3 95	2.88	3 51	2:38
	August	549	1.28	2.65	15.81
	September	1+71	B+9%	8:90	1.79
	mopromises	en en la regional			
	Third Quar	ter 10:78	7:41	15:06	19-91
	October				
	November	2 10 m	13742	0.725	2.24
	December	1.89	0.12	8.09	9:78
	Fourth Qua	ar. 7.89	15 16	10.60	9 99
		_	-		
	Whole Year	r 44°08	49 84	51 97	60-60

In the following table is given the quantity of rain which fell during each month of the year, in compatison with the mean rain fall of 33 years, and the maximum and minimum rain fall of each month during that period: -

	1870.	Mean.	Max.	Min.
Months.	(Inches.)	(Inches.)		(Inches.)
January	4'07	3:34	7 84	78
February		3*08	6.61	79
March	4 466	3 86	. 6 98	1 08
April	5.61	8-92	7 54	59
May	6.28	4.82	8.88	1 57
June	2 86	4.11	11 02	11
July			11.8	98
August	5.12	4:84	15-81	181
September			9.52	
October			5.73	1.09
November				
December				
Whole roar	44400	45:70	00-0	99.5

The average rain fall of the past 33 years, including 1870, has been 45.70 inches, or nearly 2 inches in excess of the quantity which has fallen in 1870. The highest rain fall during this period of 33 years was in 1867, when 60 6 inches fell; the lowest on record was in 1825, when only 29 5 inches fell. The greatest quantity of rain which has fallen in any one month was 15-81 inches, in August, 1867; the least was '25 inch, in September, 1846.

GOLD.

The Fluctuations in the Precious Metal During the Year 1870 and Previous Years.

In the following table are given the highest and lowest points touched by gold in each month of the present year, as compared with the two previous years:-

ì	18	10.	18	69.	18	38,
	ighest.	owest.	tighest.	owest.	ighest.	onest.
	January. 123%	11996	136%	134 %	.142	133
	February, 1213	115	136 1	130%		139 %
	March 116%	110%	13234	1301	.141%	13734
	April1151/	111 %			.14014	137%
	May1153/2	11314		134%		139 %
	June114%	11034			.141%	13934
	July12334 August122	11114			1451	140%
	Sept1171/	114%		181元		14336 14136
	Oct114%	11116		1283		13334
Ŋ	Nov113%	110	12834	12136		1323
	Dec1111/4		.124	11936		1343

THE LEGISLATURE.

The Approaching Session—The Two Houses, and How They are Made Up. On Tuesday of next week, January 3, the Legislature of Pennsylvania will assemble at Harrisburg, and the people of the State will once more be placed in constant peril of corrupt and unnecessary legislation. From many sections of the State, however, a better c'ass of men have been selected than hereto'ore, and neither party has control of both branches, so that there is a fair prospect of some attention being paid to the rights, desires, and interests of the people.

The Legislature of 1871. The following is a full list of the members of the Legislature which assembles next week:—

SE	NATE.
1. R. P. Dechert, D. 2. A. W. Henszey, R. 3. D. A. Nagle, D. 4. Geo, Conneil, R. 5. H. J. Brooke, R. Henry S. Evans, R. 6. Jesse W. Knight, D. 7. Edw. Albright, D. 8. J. DePuy Davis, D. 9. Wm. M. Randall, D. 10. A. G. Broadhead, D. 11. P. M. Osterhout, R. 12. S. G. Tarner, D. 13. A. G. Olmstead, R. 14. A. H. Dill, D. 15. C. R. Buckslew, D. 16. David Mumma, R.	Diet. J. B. Billingfelt, R. J. B. Warfel, R. 18. A. G. Miller, D. 19. C. M. Duncau, D. 20. Hiram Findlay, D. 21. R. B. Fetriken, D. D. M. Crawford, D 22. Harry White, R. 23. W. A. Wallace, D. 24. A. A. Purman, D. 25. Jas. L. Graham, R. G. H. Anderson, F 26. J. S. Rutan, R. 27. James Kerr, R. 28. Harrison Allen, R. 29. G. B. Delamater, P.
THE RESERVE THE PROPERTY OF TH	PRESENTATIVES.
Philadelphia.	Centre.

1. P. G. Meek, D. Columbia and Montour

1. Thomas Chalfant, D. Cumberland,

1. John B. Leidig, D.

Dauphin.

1. A. C. Smith, R.

2. John E. Parsons, R.

Delaware. 1. Tryon Lewis, D.
Eric.
1. Geo. W. Starr, R.
2. I. N. Miller, R.

Fanette.

I. T. B. Schnatterly, D.

Franklin and Perry.

1. D. B. Milliken, D.

2. Geo. W. Skinner, D.

i. R. A. McConnell, D

Huntingdon, Miglin, and Juniata. 1. H. J. McAteer, D.

2. A. Rohrer, D. Indiana and Westmore

1. H. K. Sloan, D.
2. T. McMullin, R.
3. A. M. Fulton, R.
Lancaster.
1. Henry M. Eagle, R.
2. George Wnitson, R.
3. John E. Wiley, R.
4. A. C. Reinoehl, R.
Lebanon.

1. Jonathan Zerbe, R.

Lehigh.

2. H. M. Fetter, D.

1. S. H. Keene, D.

2. Geo. Coray, R. 3. Rich. Williams, R. Lycoming, Union,

John Cummings, D.

Montgomery.

1. J. J. C. Harvey, D.

2. Oliver G. Morris, D.

Northampton.

Lycoming, Union, Enyder, 1. Saml, Wilson, D.

8. Wm. Young, D.

1. Sami. Bolleau, D. 2. D. Engleman, D.

!Philadelphia. S. P. Thompson, R. Geo. McGowan, D. Samuel Josephs, D. Wm. Elliott, R. Win. Editot, R.
Win. Dusy, R.
J. F. Mooney, D.
Robt. Johnston, R.
W. L. Marshall, R.
Geo. A. Quigley, D.
J. E. Reyburn, R.
Saml, M. Hager, R.
John Lamon, R. John Lamon, R. John Dumbell, R. John Cloud, R. Adam Albright, R. Wm. F. Smith, R. 1. Isaac Hereter, D.

 Adam Albright, R.
 Wm. F. Smith, R.
 Jos. A. Campbell, D.
 James Miller, R. Allephany. 1. D. N. White, R. 2. John H. Kerr, R. Henry Warner, R. John S. Robb, R. M. S. Humphreys, R. 6. James Taylor, R. Armstrong.

1. G. S. Putney, D.

Beaver and Washington.

1. T. M. Letherman, R.

2. W. A. Miskey, R. 3. W. C. Shurlock, R. Bedford, Fulton, and Sc 1. W. H. Sanner, R. 2. S. P. Wishart, R Berks,

1. John A. Conrad, D.

2. A. T. C. Keffer, D.

3. H. H. Schwartz, D. 1. Benj. L. Hewit, R. Bradford and Sultivan 1. James H. Webb, R. 2. Perley H. Buck, R 1. Samuel Darrah, D.

2. S. C. Purcell, R. Eutler, Laurence, a. Mercer.

1. Alex. P. Moore, R. 2. Sam. D. Clarke, R. 3. E. A. Wheeler, R. 4. G. W. Fieeger, R. Cambria. 1. W. H. Rose, D. Cameron, Clinco. McRean. 1. A. Carbon and Monroe.
1. W. B. Leonard, D. 1. W. B. Leonard, D. Chester.
1. Levi Prizer, R.
2. Joseph C. Keecu, R.
3. S. H. Hoopes, R. Clarion and Jefferson.
1. Edmund English, D. Crassford.

2. D. Engleman, D.

Northumberland,
1. R. Montgomery, D.

Pike and Wayne.
1. David A. Wells, D.

Potter and Tioga
1. John S. Mann, R.
2 B. Strang, R.

Schuglkit.
1. James Ellis, D.
2. J. Irvin Steel, D.
3. Francis McKeon, D.

Susquehanna and West 3. Francis McKeon, D. Susquehanna and Wyo. Miny.
1. E. B. Bardslee, R.
2 A. B. Walker, R.
Venaugo and Warren.
1. J. D. McJunkia, R.
2. C. W. Stone, R. Crawford,
1. J. H. Gray, R.
2. D. D. Williams, D.
Clearfield, Elk, and Fur-York, 1. Lemuel Ross, D. 2. Frank J. Magee, D. 1. John G. Hall, D.

Political Changes in the Legislature.' The political standing of the two houses of the next Legislature, as compared with the last,

	1871.			1870.		
Reps Pems	16	House, 55 45	Joint Ballot, 71 62	Senute, 1 18 15	Hovre, 60 40	Joint Ballot, 78 55
Maj The chargives the coracy by I lican memorate down	ange o control major bers in	f two l of t rity, w	mem! hat brightle the House	anch to ne loss o of Repr	the S the I f 5 R	Demo- tepub- atives

branch from 20 to, 10 reducing the Republican majority on joint ballot from 23 to 9. In the following table are given the majori-

In the followin			
ties in each house	e every ye	ar since 1850	i:
Year.	Senate.		int Bullet.
1856	1D	32D	33 D
1857	3R	6D	3D
1858	9D	36D	45D
1859	1D	SGR	25R
1860	9R	B4R	43R
1961	21R	42R	63 R
1862	13R	10D	3R
1863	9R	10D	110
1864		48	5R
1865	7R	2912	351
1866	913	RATE	43B
1867	7.7.7 (20.00)	9412	3313
1868	F F S 1 (5) (5.2)	68	131
1869		9412	97 E
1870		9012	93 H
1871	1D	10R	91
From this it w	-C3-CA		publicans

held continuous control of the Senate from 1860 to 1869 inclusive, and that they have controlled the House of Representatives since 1859, except in 1862 and 1863. It was in the latter year only. however, that there was a break in the succession of Republican majorities on joint ballot since 1859, the result being the election of Hon. Charles R. Buckalew to the United States

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pelition of the work:

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While the Government does not directly guarantee the honds of the Road it thus, amply provides for

while the Government does not directly guarantee the bonds of the Road, it thus amply provides for their full and prompt payment by an unreserved grant of land, the most valuable ever conferred upon a great national improvement.

THE MORTGAGE.—The Trustees under the Mortgage are Messrs. Jay Cooke, of Philadelphia, and J. Edgar Thomson, President of the Pennsylvania Central Railroad Company. They will directly and permanently represent the interests of the First Mortgage bondholders, and are required to see that the proceeds of land sales are used in purchasing and cancelling the bonds of the Company, if they can be bought before maturity at not more than 10 per cent. premium; otherwise the Trustees are to invest the proceeds of land sales in United States Bonds or Real Estate Mortgages for the further security of Northern Pacific bondholders. Also, that they have at all times in their control, as security, at least 500 acres of average land to every \$1600 of outstanding first mortgage bonds, besides the railroad itself and all its equipments and franchises.

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remind those who desire to increase their income and obtain a more permanent investment, while still having a perfectly reliable security, that:

United States 5-20s at their average premium yield the present purchaser less than 5½ per cent. gold interest. Should they be redeemed in five years, and specie payments be resumed, they would really pay only 4½ per cent., or if in three years, only 1½ per cent. as the present premium would meanwhile be sunk.

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JANUARY 1, 1871.

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vance over subscription price may be looked for. The bonds have fifty years to run, are convertible at the option of the holder into the stock of the Company at par, and the payment of the principal is provided for by a sinking fund. The convertibility privilege attached to these bonds cannot fail to cause them, at an early day, to command a market price considerably above par. U. S. Five-twenties at present prices return only 436 per cent, currency interest, while these bonds pay 9% per cent., and we regard them to be as safe and fully equal as a security to any Railroad Bond issued; and until they are placed upon the New York Stock Exchange, the rules of which require the road to be completed, we obligate ourselves to rebuy at any time any of these bonds sold by us after this date at the same price as realized by us on their sale,

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