

OCCASIONAL PAPERS ON METEOROLOGICAL HISTORY No.11

THE RIPON METEOROLOGICAL DATA SET FOR 1892 TO 1895 AS RECORDED BY CHARLES PIAZZI SMYTH

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CONTENTS

Illustrations	i
Monthly data	i
Introduction	1
The 1890s cloud photograph albums	1
Details of the cloud photographs	2
The meteorological data set	12
Note on sky spectroscopy and the rainband	12
Conclusion	78
References	
Acknowledgements and notice to users	

ILLUSTRATIONS

Figure 1:	Cover page from one of the albums	2
Figure 2:	Smyth's notes on the weather most suitable for cloud photography	3
Figure 3:	5 June 1893, 08:28	4
Figure 4:	4 July 1893, 09:03	5
Figure 5:	30 July 1893, 0955	6
Figure 6:	4 March 1894, 14:36	7
Figure 7:	1 September 1894, 17:01	8
Figure 8:	13 October 1894, 16:15	9
Figure 9:	22 June 1895, 19:16	10
Figure 10:	Snow image – 10 February, 1894	11
Figure 11:	Cloud notation page	13

MONTHLY DATA

January 1892	14
February 1892	15
March 1892	16
April 1892	17
May 1892	18
June 1892	19
July 1892	20
August 1892	21
September 1892	22
October 1892	23
November 1892	24
December 1892	25
January 1893	26
February 1893	27

March 1893	28
April 1893	29
May 1893	30
June 1893	31
July 1893	32
August 1893	33
1-15 September 1893	34
16-30 September 1893	35
1-15 October 1893	36
16-31 October 1893	37
1-15 November 1893	38
16-30 November 1893	39
1-15 December 1893	40
16-31 December 1893	41
1-15 January 1894	42
16-31 January 1894	43
1-15 February 1894	44
16-28 February 1894	45
1-15 March 1894	46
16-31 March 1894	47
1-15 April 1894	48
16-30 April 1894	49
1-16 May 1894	50
17-31 May 1894	51
1-15 June 1894	52
16-30 June 1894	53
1-16 July 1894	54
17-31 July 1894	55
1-16 August 1894	56
17-31 August 1894	57
1-15 September 1894	58
16-30 September 1894	59
1-15 October 1894	60
16-31 October 1894	61
1-15 November 1894	62
16-30 November 1894	63
1-15 December 1894	64
16-31 December 1894	65
1-16 January 1895	66
17-31 January 1895	67

1-15 February 1895	68
16-28 February 1895	69
1-16 March 1895	70
17-31 March 1895	
1-15 April 1895	
16-30 April 1895	73
1-16 May 1895	74
17-31 May 1895	75
1-16 June 1895	
17-30 June 1895	77

INTRODUCTION

Born in Naples in 1819, Charles Piazzi Smyth became one of the most colourful and respected 19th century personalities of British science. He was an astronomer (he was indeed Astronomer Royal for Scotland), surveyor and metrologist, meteorologist, pioneer, artist, traveller and, last but not least, photographer.

Smyth is most noted for his work in practical astronomical and spectroscopic studies, including in Tenerife, Sicily, Bavaria, and Portugal, and also for his highly accurate survey of the Great Pyramid. More details of his life and career can be found in Brück, 1988. It is his far less known meteorological and photographic work that is the subject of this publication.

Smyth was a keen early amateur photographer and, being based in the area, became a leading member of the Edinburgh Photographic Society. The camera that he designed and constructed in the 1870s produced cloud images on small glass plates. At the 1876 exhibition he won a silver medal for apparatus, sharing the distinction with Henry Fox Talbot. All his life he had enjoyed looking at skyscapes, sunsets and storms etc with their endless variety of colours and combinations of shapes. He believed that photographs of different cloud formations were greatly superior to merely verbal descriptions and that the study of systematic of them "could not fail to provide a scientific basis for weather forecasting". He correctly maintained that no two clouds were ever exactly the same because exactly the same exact weather circumstances can never recur and suggested the use of photography as a serious tool for meteorological research.

THE 1890s CLOUD PHOTOGRAPH ALBUMS

Towards the end of his life Smyth found more time to take up cloud photography more seriously. He moved with his ailing wife, who had been a weather observer herself in the past, to the clear air of Ripon and it was here that he carried out his extensive photographic and meteorological work.

Smyth constructed his cloud camera using a lens of 1.7" diameter and 14" focal length (which had been given to him 30 years before for copying Egyptian photographs he had recently made). With the help of his assistant, Mr Close, he obtained over 500 photographs of cloud formations on 3" square glass plates associated with all possible kinds of weather conditions covering the period 1892-94.

Each image was accompanied by a comprehensive form which recorded precise details of the photograph as well as the weather details and any other observations of interest at the time. In addition, over a similar period he maintained a meticulous daily log of meteorological observations made at his house. Towards the end of his life he presented massive albums containing the documented images to the Royal Society in London. He presented another set, including the negatives, to The Royal Society in Edinburgh which are still held by Edinburgh Royal Observatory.

With the much appreciated support of Joanna Corden, librarian and archivist at the Royal Society in London, I found that the three albums were still in existence and was allowed to examine them and make digital photographs by using natural light from a window of the library. The paper enlargements in the albums are mounted on thin card and some have warped or faded, but it was still possible to obtain a useful record of the contents. Also bound in the albums was a continuous meteorological record covering a similar period, with the exception of three weeks when Smyth had to be away for "a health-seeking visit to Harrogate", which is described later.

The reproductions show an album header page, notes on cloud photography, and a range of examples of the cloud images. Sadly, they never led to a scheme to improve weather forecasting using details of cloud types as he had originally hoped.

DETAILS OF THE CLOUD PHOTOGRAPHS

CLOUD-FORMS THAT HAVE BEEN; TO THE GLORY OF GOD THEIR CREATOR, and the wonderment of learned men. As now begun to be RECORDED BY INSTANT PHOTOGRAPHS, TAKEN AT CLOVA, RIPON, IN 1892, 93, AND 94.

ARRANGED IN STRICT CHRONOLOGICAL SEQUENCE, AND FILLING THREE QUARTO VOLS.; WHEREOF THIS VOL 1.—RENDERS SCENES from MARCH 4th, 1892, to APRIL 28th, 1893,—and CONTAINS 100 ENLARGED PHOTO POSITIVES, about 10 inches by 9.

"DETOUCHED " COPIES ALL OF THEM, FROM THE ORIGINAL SMALL GLASS MEDATIVES, LEES THAN & INCHES, SQUARE; WITH & FEW WRITTEN PRACTICAL PARTICULARS SUPPLIED ON & PLY-LEAP AT THE BACK OF EACH LARGE PHOTOGRAPH CONCEANED.

THE WHOLE BEING PREFACED BY AN INTRODUCTION AND COMPENDIOUS' NAME, NUMBER, AND DATE, LIST; BUT FOLLOWED UP, AFTER THE PHOTOGRAPHS BY A SPECIAL, AND CONTINUOUS, DAY TO DAY, METEOROLOGICAL JOURNAL, IN M.S.; AND FOR THE ENTIRE PERIOD THROUGH WHICH THE PHOTOS OF THIS VOL. EXTEND.. BUT TO BE CONCLUDED, IF GOD WILL, IN THE LAST VOL OF THE SERIES, BY SOME DISCUSSION ON A FEW OF THE RESULTS HOPED TO HAVE BEEN OFTAINED.

BY C. PIAZZI SMYTH, L.L.D. ED., AND LATE ASTRON. R. FOR SCOTLAND;

NOW IN RETIREMENT AT CLOVA, RIPON, WITH HIS DRAR WIFE JESSIR-PIAZZI SMITH, both DUNCAN. RIS FAITHFUL, LOVING AND SYMPATHETIC COMPANION AND FRIEND, THROUGH 40 YEARS OF VARIED SCIENTIFIC EXPERIENCES, BY LAND AND BY SEA: ABROAD AS WELL AS AT HOME: AT 12,000 FERT UP IN THE ATMOSPHERE, ON THE WIND-SWEPT PRAK OF TENERIFYE, AS WELL AS UNDERNEATH THE GREAT PYRAMID OF EGYPT, AND UPON IT: WHEN THAT CHARACTERISTIC, AND PRIMEVAL LAND, OF THE EARLY SCRIPTURAL HISTORY OF MAN,-WAS STILL UNDER THE DOMINATION OF ITS THEN LATEST MOHAMMEDAN CONQUERORS.

> *Figure 1: Cover page from one of the albums*

Elements for expecting good, solid, well--defined clouds, worth photographing. 1) Low Barometer; 2.) Low Temperature, 3) Heavy Spectrum Rain-band, (4) N. West and West wind -directions - versus N. East East. Scie more necessary is abundance of atmospheric Electricity: verying to lighting y There should also be an absence of the thin, hazy, cloud with gthe upper regions of the atmosphere; as well as of the foggy nists rolling over the earth's actual surface, & Dulling the vigour of light and shade of the clouds proper or those at a medium level in the atmosphere, even when not shalting them out from view altogether. 6 Strong winds are also favourable; wherefore percentra days of continued calin are eminently unforourables, very noticeable in September & November.

Figure 2: Smyth's notes on the weather most suitable for cloud photography



Figure 3: 5 June 1893, 08:28



Figure 4: 4 July 1893, 09:03



Figure 5: 30 July 1893, 0955



Figure 6: 4 March 1894, 14:36



Figure 7: 1 September 1894, 17:01



Figure 8: 13 October 1894, 16:15



Figure 9: 22 June 1895, 19:16



Figure 10: Snow image – 18 February, 1894

THE METEOROLOGICAL DATA SET

Soon after setting up home at Ripon (in a house named "Clova"), Smyth established the instrumentation and protocol for regular recording of meteorological data to accompany his cloud photography studies. The readings were generally made each morning between 08:10 and 08:30 and run from January 1892 to June 1895.

The data sheets cover one month, or later in the series half a month, each. In some earlier cases extra weather footnote details are also included. The columns show:

1) Day of the month (some are not always easily read due to the fact that the pages could not be properly flattened out, but they are repeated on the right hand side).

2) Barometric Pressure (in inches and read to two decimal places).

3) Air **Temperature** (in degrees Fahrenheit, outdoors, presumably measured on a North wall Also, as was common for the period, an indoor value was included).

4) Spectroscope Rainband (coded 1 to 10, described in detail at the end of this list).

- 5) Wind Speed and Direction (estimated in miles per hour and by compass points).
- 6) Ground State (dry, wet, snow, frost).
- 7) State of the Air (clear, hazy, mist, fog).
- 8) Cloud Cover (in tenths) The cloud notation page is also reproduced in Fig. 11 see page 13).
- 9) Diurnal Cloud Cover and Sunshine variation (hatching and open circles)

10) Diurnal variation of Rainfall (heavier rain shown by increasing darkness of hatching, the hatching record continuing into the night period some of the time). Regrettably, Smyth did not record actual rainfall totals.

NOTE ON SKY SPECTROSCOPY AND THE RAINBAND

While visiting Paris with his wife in 1875, Smyth was surprised to be encountering an unusually rainy spell despite a forecast for fine weather, based on high barometric pressures over England, that had been issued by the Paris Meteorological Department. Wet weather continued on their return to London despite continuing high pressure.

He examined the sky in all directions using his pocket spectroscope and found that for all directions there was a dominant broad dark band on the red side of the sodium line. He continued to observe this band on his rail journey back to Scotland, and even the next day in a clear blue sky, which was followed in the evening by rain which continued for several days.

He reported his findings to *Nature* and continued observing the spectrum. He soon discovered that the band was identifiable with "warm rain in an easterly wind and under a high barometer". He saw the potential for these observations as a useful supplement to the barometer and hygrometer for weather forecasting. The spectroscope effectively analysed moisture through many layers of the atmosphere thus giving a more direct picture of the average degree of moisture and could presage rain before it reached the local atmosphere.

The Smyths subsequently added "rainband intensities" on a scale of 1 to 10 to their meteorological observations. Similar independent observations had been recorded in the USA in 1866 but these were focussed on solar rather than meteorological research.

After further supportive studies, using data from many parts of Scotland, Smyth published his detailed findings in the *Edinburgh Astronomical Observations* for 1878. His main contention was that although the barometer is effective in foretelling rain in winter which tends to come from the south-west; it is less so in the case of spring and summer rains that come from the east or south-east. The spectroscope was able to show moisture at high levels sooner than a local ground-level hygrometer. Spectroscopes for general use were developed, including by Casella, but were difficult to use and not generally adopted, never becoming more than a research tool.

CLOVA CLOUD-NOTATION . Ripon, July 1 1844 . HIGH CLOUDS . Thin, & generally frazen . symbolled - cirro - nimbus MIDDLE CLOUDS. Bulky watery , and sometimes rainy . Lightning - Cum Roll - cumulus nulus as in Trade winds at sea ; not dropping rain LOWEST CLOUDS, and on EARTH-SUREACE. Stratis 10 11 12 13 allis 15 uniformly overcast, with a Common adjectives which usually explain themselves quehatever they are attacked to, - are of course allowed to be added - whenever there is room for writing the words . Especially those forming , chiefly for clouds of the Meddle region of the utinosphere, a scale of Definition of their outlines extending from Diffuse, Vapourous, Hozy, Woodly, Soft. Dged to Firm, Polid, Rock-like, Sharply Defined, Flint-edged, sc

Figure 11: Cloud notation page

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1	1									·····	794	dununu	in and	192012-01		05	4
1		30.08	63.6	53.5	3	2	2	NE	4.44	here	4	COMMUN	men				
1	11.10	30.28	66.5	60.3	3	1	1	NE	An.	1.	4	XX	LAND LA			00	4
+	1	30.35	68.5	60.3	3	1	0	1 CT	07	han	7	Sol	E E		-	07	
-		30.05	70%	60.0	2	0	-		any	nez	1	00				\$8	
ł		00 25	69.8	54.9	5	4	6	N	ory	nag	0	au				49	
F	17.24	-	66.0	50.0	2	1	~	N	84	ms	10	I'MIIII	ununa.	inner	889	210	
Į	-9.73	-	000	50.3	2	1	1	N	wet	ms	10	milla	minin	*****	新 和新	111	
ļ	-	-	6. 1	En a	0	0		141	0	de	24.4	~	-		Nº WAY		
	29.82		00.0	30.3	2	3	1	N	24	an.	34 8	0/11/	11/10/18			@12	4
	1			,										1 1 1			
	100	30.02	57.5	47.6	2	2	7	N	Bry	dr.	5	111011	VIIIII			0/3	
ľ	1	30-12	57.3	47 8	2	2	6	NE	Sry	dr.	8	W// C3/11	MOSO			814	
ŀ	29-96		59.3	540	3	3	2	NE	824	has.	10	1011/111	UININA.		\$200	第15	
Ē	29.77		60.1	47.5	2	1	5	N	wet	mi	10	mmun	(IIIIIII	333384		216	
ţ,	29.70		58.1	40.0	1	2	7	N	Shi	da	6	UNC SUL	VIIIIII	\$89	195000	\$17	
f	20.90		56.9	18.5	1	0	13	NE	unt	han	10	ummin	VIIIII	(552)	82000	5/8	
f	7 02		20.9	40 5	4	-	-	ac		racog	10	and the second	- total and	100	a man	and the second second	
ŀ	20.71		546	1.0.1	3	2	1	NE	wet	her.	10	1mm	Mannas	200000	40000	014	
f	7.74	-	01.0	49.4		-						in the	a contraction	Auror	No. of the	/	
	10.11	100		- spillinger	-	0		777	wat	24	10	mm	kunum	20004	\$6 508.	\$20	
F	9.57		57.0	44.7	4	2	17	W	Qui	ino.	OF	11101	SUBUIL	MAN	AN ANY	821	
ľ	977	State of the	57.3	54.5	2	1	2	NE	by.	cer.	864	mon	Uloso			8 22	
1	9.78		60.5	54.7	2	1	0	S	wet	ms.	845	man	LUIGO D			223	
ŀ	9.57	100	62.1	52:6	2	1	5	N	by	mo	1051	Current in	LILIUM			824	-
	9.81		62.5	61.5	3	2	0	W	by	cor.	844	annin	pow		424422.00	5.20	
	19.88		64.5	54.8	-3	1	0	N	Dry	ms.	10	aman	quinna	4	90935609	1.6	N
I	1		and a					2 2 1		1	-	au H	NIDE			0%	
	0.92	-	65.0	50 2	4	2	4	SW	dry	dr.	9502	VIIIA	proc.	1		Grad	K
	1-1		05.0	9.5	-								-	10.14	an	an	44
	0.00	-	12	Co -	2		10	W	8ru	mi	1053	111/11/1	WIRDO	1944	3891	200	4
f	1.01		08.0	03.5	3	1	10	w	Dry	da	9510	1111111	NIIIII	3	84203333	0 28	r
	1	30.14	67.6	03.0	3	1	1	21	1 wet	me	1050	11/1/10	AOC!	355566	SV.	9 29	
	9.90	1 1 1	65.5	51.0	3	2	10	11	book	1 di	8	CYUL	MAG		10 10 L	2 30	1
	-	30.17	645	61.0	2	2	3	W	ary	cir	0	-	1				-
L	22)	B	and the second	12 203 2	1.14			-	-	-	7.0	-					
-	Barn	nation.	= 22	ave la	Lour 2	0.00	9 4	eight	Days 9	ebove	30.00		-				
3	- Jun	e 6 to	tur	6 10	du	Live	-e	inin	outly	feer	my o	ays					
	0-	-0 0	prime	700		-			1			-	F	11 -	Inte	this	
2	parmen	and the second	and the second	2.	and and	1 11	1	H	- las	+ Jas	E w	itt a	manu	acy ci	coury	1 hours	-

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1	TRAI	RANA	R TH	IFR	MANIS	Ich I	-	1-	/	no		uoten	0.10	38.	30 F	Mean	1 day	1 Inte
la!	1.99	014	0 1		I D. L	opect	Yose.	W	IND	EARTH	AR	CLOUD	VIIIX	· 1111	1 180000	1 145030000	~	R. I.
160	24/36	30/5	102	n.,	or.	Rain	a our	Vel.	Vinet."	2= wet	1= ch.	1 5 10.	att	3////	R.		NIGHT	Mita
44	A	30.01	66	an.	62.3	band	6d	h."		3=Shar Lafrt	3= 24.	tenths	Jun	Shine	Ra	in 1	3/. 804	taken
1	ter t	30.0	1 67	8	63.0	2	2	4	W	Dry	ch.	R-7	A.M.	P.M.	A.M.	R.M 1	rinfer	Cont.N.
12	and the		11				1	0	0	Day	har	7-1	unn/mill	1011	-	5	£1	None
1	29.6	8	68	.7	62.3	3	1	0	m			1	and a start we	a mining		1.1	122	
	1	A BILL	10	-	1 desired		1	14	W	ory	haz	9-7	111110	VIIIIK	6	al Alland	\$ 03	
.4	29.6	8	68	0	58.3	4	3	12	W	wat	1					Allow of	\$ 05	
5	29.0		10%	0	58.0	3	2	9	SW	wet	ove.	7-5	000	4.011A		742-83	# 34	
6	29.1		10%	0	54.2	3	2	54	SSW	224	de.	9-0	111110	10/AC	2	124 2	35	
11	29.21		65	6	26.5	4	2	25	NW	wet	da.	5-3	OUC.	Home -	284 14	1000	\$6	
1	20.09		65.	6	56.5	2	2	20	W	day	ch.	9-6	MINK	SULCON	1949 19	14	247	130
12	47.				000	4	1	3	SW	six	haz.	9	"IIIIIII	WIIIIII		1550000	86 Fa	
10	29.90		64	2	56.5	2	1	0			1	1				- www.shida	XX 17	
18	++						ŕ	0	N.	sver	hag.	10	11/1/11/11	UMMMM			010	
11	29.98		64'	0	55.0	2	1	1	W	An	600	0+6	man	-				
12	29.73		64	0	56.0	2	1	2	E	Dru	da	940	dimin	V.C.			C/I	
12	29.60	1	62.	7	53.5	3	2	3	NE	dry	da.	10	21111111		-		612	
14	29.83		62.	0	52.1	2	0	6	N.	Dry	har.	10	minin	innan	-		d 13	
店	29.94		61.	0	54:3	2	1	0	W	Dry	hars.	10	01111111	YIIIIII		1000	W. 0 14	
-16	29.86	2	61.	4	547	2	1	1	N	wet.	ms.	10	1111/11	VIIIIIII		12	** =16	
117	20. 31		60.	4	51.0	0	1	0	F	Q.	1		anatha				-	
	7.01			-	0.0	-	Í	-	-	0 mg	nag.	9	SALLALAS	ann			017	
18	29.85		59.	5	53.0	2.	1	0	2	dry	haz.	5-9	OSU!	Vinna		100000	W (18	1
19	29.70		60'	0	51.0	6!	2	7	SW	wet	ma	10'	11111111	22/1///	和田 相	1 × 1900	\$ 819	
14 :	29.96		59.	2	55.2	3	1	10	N	wet	dr.	8	imm	A CUMA			\$20	1
- 21	10	30.25	59.	4	53.8	3	2	1	NW	824	cbr.	2	OX	¶.⊙ ¢			221	
4	8	30.12	63	5	04'0	2	1	0	NW	224	13	9	111111A	Luciu	9		422	
-	0	30.21	65.	3	00.3	4	2	2	N	ory	our	3	1 One	110-11	1		que	
26	100	30.20	65.0	2	675	2	0	0	SE	Dru	han	1	COCK	DM	4		024	
1	1	20-50		0	1.5	-	-	0		1				[m			- hand	
25		30.28	66.	51	55.3	2	1	0.2	SW	Dry	haz.	052	\odot	DOK	8		61	1
26		30.20	66	2	55.0	1	0	0	SW	dry	mo.	10	(IIIIIII	AIIIIII	24		62	1
37	LOL I	30.25	66		61.6	1	0	1	SE	Dry	ch	10	9/11/1/	nnn lit	14		22	1
4		30.23	64.1	5	58.4	1	0.5	2	S	Dry	chr.	8	11/10/18	$\Phi''''''''''''''''''''''''''''''''''''$	Y I	440	1350 92	9
19		30.22	65.0	2 .	56.5	2	1	2	N.	only	has	10	annin	Kunth	108484U	195	63	a
*		30:15	61.	7	54:3	2	1	1	NE	wet	ms.	10	minin	anna.	000000			
1				5	2		1000	11	and the second	dan	do	7	W.C.W	Numin	A		0	ar
13	9.89	Serences .	05-8	8	\$ 8.8	5	2	?	5	any		/	THAT	- marin		ligh	tring	
Om /	3	12			0			-	1		1.1.10	- in .	and 1	lailit	sies a	prequen	+ N	
150	4 3	, note	Th	un	der &	how	ers;	1.2.	heavy	gut	ign	Bur, c	10	to re	in.	· · ·		
177	738	inon	ain	4	any co	mage	can e	e ,	with	the fa	a g	is anon	1	200	Dave	herio)	1
122	4125	, tron	e gro	in	ly de	noti	my &	ays	bat	in !	miss	17.	con	1 20	7	/		
and a	you	nly	Yu	tt	inly	clor	idy	1 1	fied.	11:	201	me	the ma	mth.				
and only	emate	r the	THE I	in	have	1. lour	- 29.	99	, 4 1:	2000	R 30	00 10	alle title	100 F	The Lot	10 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	

Ini	BAR	OM.K	THE	RMOM	Spect	ros c e	И	IND	EARTH	AIR.	CLOUD	MA	XIII	Kanger,	NAME OF	NIGHT	M/ L
	29/42	30/3>	0 m.	Out.	Rain	dow	sol.	Direct.	2 . wet	2= hay	1 to 10,	Lun	21/1	12		Calze	takin
3	29.81		66.5	- (3.)	2	10-2	14:	-	4- tot	4 = 109	Han ?	A. M.	P.M	A.M	PM	nund	Gm.N.
12		30.07	64 :	52.8	3	1	3	W	by	cor.	9	ununu	111111111	1982	Way .	6/	
53	29.90		64:0	6510	4	1	1	T	aur	hay	10	minin	111/11/14	1400	DAH.	82	「「「日日
14	29.97		63.5	54.3	2	17	5	N	Que	con.	5	1011	200			\$3	1910
15	29.95		64.7	58.2	3	2	2	SW	Shy	de.	10 5 2	(MIIII)		11	m	24	140
10	29.73		04.5	57.5	3	2	18	W	evet	ch.	860	CYLEN	IN THINK		245886	25	
17	29.88		64:0	58.5	3	2	5	w	gru .	de	640	ICVIII	Smin		1000	20	120
-	000		6						-7	004.	0 10 9	10mm	Annun		74267	07	
8	29.07	-	03.4	549	3	1	16	SW	cot	ms	10	21110110	MANNA.	AMAN.	708000	0.8	
1	24.08	30.16	02.0	53.3	2	0	12	WW	suct	hay	9	minnin	MINIM	Are a c	Viere C	39	
10		30.00	01.0	51.0	1	1	0	NW	by	dr.	357	Olio	111140%			\$10	
12	20.03	20 01	63.7	52.0	1 !	7	0	SW	by	md	6 \$ 10	41011A	1111111	*	SHOW.	2/1	
13	20.60	24-2-5	66.	66.0	4	2	3	SW	any	heg.	769	4/10/1/5	MITTER D	MAN	280AR	P12	
	-1.00	- 19V	000	500		1	0	N.	foer	md	10	(IIIIIIII	111997/16	anon	0000	2/3	
14	29.57		65.6	62.0	3	2	10	W	824	hag.	9	711/11/11	1111/11/11/14	#	1994	0/4	
15	29.57		66.0	59.3	4	2	20	w	dry	chr.	348	0//0	VIIAIII	4		C/5	51
16	29.97	195	66.5	58.0	2	1	1	SW	Dry	md.	10	21111111	manis	#	一级	816	12-20-14
17	29.78	100	66.4	56.7	3	2	2	NW.	seet	ms.	10	2111111	111111111		2000	\$17	-
18	29.23		65.1	55.3	3	1	0		Bry.	ms	10	CUR	HI HIMP	7124	1980984	218	
19	29.02		04.7	59.8	3	3	0	Arm	that and	Marz.	7610	XX	5000			¥17	
20	27.91		00.0	33.4	~	'			59	rag.	143	~~				4	
2/		30.03	68.0	64.7	4	2	3	SW	ary	hag.	759	1110411	10%///.			02/	
22	29.97		70.2	66.0	3	1	0		Day	mó.	649	1040	11110111			C22	
23	29.76		68.3	62.5	2	1	1	S	Dry	has	2'	∞	0000	Inte	un Ba	SXX 623	
24	29.70		70.4	60.5	4	2	0	SW	wet	md.	9510	11/11/0	mann	49929	1400000	225	1
25	29.60		68.2	59.6	3	2	0	SW	24	hang	9	1000	Commis.		50000	0.20	100
26	29.84	1-17	56.9	58.5	2	1	7	W	try	ch	769	minul	VIIIIII	\$2220	Stante.	te	51
47	29.58		66.3	55.0	3	/	15	W	HOOT	ma.	10	anan		www.	Lesine.		-
28	29.45		64.2	57.2	2	1	4	W	sy	ch.	5to 2	OW	phox.	1		G2	54
-	00 (0)		00	51.1	1.5		0	-	wet	md.	10 5 10	MANINA	Mumm	44440	ANAR	\$ \$ C2	9
49	29.05	-	00.0	50.4	0	1	20	SW	wet	and	10	MAAAA	A IIMIMI	1999	1888	03	000
30	29.82		58.5	59.8	2.	1.5	25	SW	924	md.	10	111111	in think	6		1 1	00
01	29.26	-	38.4	5 6.4	1	03			1					-	-	-	-
-	1.271	(4)	-	-						1		1		1		Hanna .	
Not	much	fun	at		time	8	un	ing 1	to 1)	iont	5,9	not	you a	my at	any a	me.	
	mach	- un	P# 1	- ing				1		-	1 4	0 -		to	time		
Marrie .	- Ali	0.0		1.1	landra	nt.		cout	inuo	ser y	for th	see or	and a	a a		along the second	

1	BAR	OM. R	THER	MOM.3	Spect	rose.	M	TIND	EARTH.	AIR.	CLOUD	1/1/	YIII	130000	www.	
de	1 de	(30)	dn.	Out	Claim	a	not.	Sirect.	2=44	1= chi.	1 \$ 10.	PAC	31/1/	K	NIC NIC	HT
峬	次	11/2	Fan	Fan	Pars.	62	A. r.		3=3nw	3 - ma.	Heme	AM	Schine	Ro	in Cal.	Day 1
1		-	63.0	52.8	3	2	1	144			The second	A in.	ISM.	A.M.	P.M. mus	uber G
11	29.0		64.7	53.5	4	2	4	W	wet	haz	10	MANA	VIIIII	-	1000	21
2	129.34	-	61.5	51.4	2	3	5	NW.	wet	dr.	8	"IIKSYK	J//OX	20%	10000	4/ 0
6.2	29.4	The late				-	-	11.11	ner	ch.	9	1111111	1111115	Will.	1280, 1111	53 .
-	29.98	Section -	60.0	50.7	3	2	1052	N	Dry	de	~	1 VILAS	mmm		1	-
2.2	-nt	1	n 1	1		1				001,	1	n Mag	1111111			04
5		30.18	07.0	47.5	2	1	0	0	824	ch.	3	GVG	unnin	-	CALL NO.	
8	COLUMN T	30.14	0.00	53.6	2	1	1	W	wet	ms.	10	minin	mmm	424 11	2004 76500 h	2500
7	29.92		01.3	540	3	1	0.8	W	wet	md.	10	mmm	115/60	50700	0000 700000	82
8	29.97	1	60.4	50.7	5	2	3	NW	dry	dr.	0	$\odot \alpha$	DOO	1.4640	*	28
9	29.88	-	62.0	50.0	2	1	0	0	dry	has.	3	CX/ON	Cy/1/1m			29
10	29. 9			7.0	3	1	3	NW	ary	ch	1055	111111	000			E106
15	20.88		63.2	51.6	3	1	0	SW	urt	40	10	mm	mmm	100	AN 550	-
	4.00		and the second		with	-				109.	10	- minu	11/1/11/11/10	41	1891 199	On
12	20.09		62.0	53.8	1	1	0	SSW	Dry	han.	6	CXCX	VATIANI			an
13	20.52		64.3	61.7	2	1	0	0	Dry	ma	10	111111	VIIIBLICS			2/3
14	29.97		62.2	52.0	2	2	3	W.	dry	de	259	OB	VIIIII			8146
15	29.86	and the second second	62.0	56.5	1	1	4	SW	Dry	hag.	7	1/1034	NIIIII		188	215
6	29.54		60.8	(57.0)	2	1	56.12	SW.	wet	dr.	863	11/1110	1000	ALL	200	216
7		30.02	58.4	48.2	2	2	1	N.	Dry	ch	348	1011	\$18/11/			217
		100 B							0	1		mm	nummer.		200	~
3	29.97		39.4	51.0	3	2	7	NW	dry	nag.	9	-annu	NUCHARA		250	Gra
-	04 54		Carl	6.			2	CW	wit	de	8	anres m	M#SILLIN	64004	1444	G10
7	29.71		00.8	00.4	2	1	3	SW	wet	mi	in	1111111	Ni II III hi	1 aller	RANNER -	220
	29.98	2	61.7	31.7	4	4	10	ANE	- Ann	ch	10	willini	WIIIII	- ALARA		821
		30.07	59.0	49.7	3	2	10	NINC	shi	hen	1+10	000	NIIIIII		12210	221
		30.22	0/0	48.5	2	4	4	N	wet	mi	1050	2/11/4/11	Millin	14	ACA	923
	20.6.	00 00	69.9	52.5	3	1	4	NW	wat	ch	350	NO/	YIIIO	1994		224
1	11	Ser.	004	04.0	0	1	T		-	- 1	a the party is	-	anno	1.		Good
5	29 63		60.5	55.2	2	1	7	W	Dry	dr.	569	1011	MINO	4		023
	1	Hart -	00.0	00.0	1	-	1				101		Num	1	1024	126
	19.82	1041	61.0	53.5	1	0	5	W	Dry	haz.	647	mon		1 10	WANNY SER	327
1	9.38	and the second	61.3	57.6	1.	2	12	SW	wet	haz	84 10		Nic.	5 20	ACCCO MARK	\$ 28
2	9.54	Carlo and	50.0	18:0	2	3	3	NW	224	ch	245	man	Willin		1884. 58 2	429
2	9.45	HS	62.2	46.7	2	2	8	SW	wet	haz	859	UNIO III	in annun	100	SASSAN	230
2 2	9.28	1000	55.3	10.1	7	1	7	W	wet	109.	8510	man	in man	1 447	dere	
1	20	m		40.4	-		1			1	0.000	-				
100	eron	. 6.	low	20.00	m 24	day	1. 54	above	30.00	on 6	orge.		had	Van	, and her	- Cin
-	wea	the	the	me	out	th	u	mo	mth	- w	as 2	ery	Guer	m	1 1-	
		and the second of		1	and and a state of the	- Maria			187 MA	-		1	60)	- 4.4-	las low	en.

Werk	AD.	100	THE	RA	MON	Spectv	osc-	U	VIND	EARTH	AIR	CLOUI	MAX.	SIM	BEC SUS	1000	NIGHTO	lotos
and the second second	20/4/	3011>	In		Out	Rain	Low	Stel.	Direct:	2= wat	2 = hay	1 = 10	Suno	Thing	Rail	and a	Cal Day to	Kon
Day.	1. K	17/	*Fa	h.	*Fah	. band	2	A!	Const.	30 day.	4= tog	Heme	A.M	P. M.	A. M.	P.M.	aunter G	N. N
51	29.25	100	54	8	41.2	2	1	0	1	wet	tog.	10	911111114	11/19/11/1			701	時代の
02	29.33		55	0	46.5	2	1	1	SV.	wet		~	1 In Han	TIC SUID			00	100 m
T	1							1	10, 11.	HHH	ins	8	AN SHOR	'n Onn			02	
03	29.39		55.	2	45.5	3	2	0	W	wet	hay.	10	91111111	(III I IIII III)	449 J	94 H	88:23	
84	29.47		58	2	44'8	2	2	0		wet	my	10	MIMAN	11111111	4010) A	Alle	04	1.12
23	29.21		50.	2	39.0	F F		9		get	mo	348	109/10	0110011	area a	1000	\$5	100
1 0	20.10		Co.	0	41.1	1	1	0	W	my.	and	9	Chilling .	SW//////	*	10 mg 44	240	1
1 6	20.35	2012	do.	2	42.2	4	10	0		wet	haz	9	111 Man		1000	\$\$ \$\$ Q	21	the last
5 8	-9.03		27	0	44.1	3	2	3	WNW	wet	con	953	9/1/IIIO	-Une	909		69	-
29	28.98		58.	5	47.2	2 3	2	18	W	9 mg	ch	3 5 10	00\$	X////////	×.	***	09	
10	29.67	30.0	57.	3	45.8	3	2	4	NW	924	ch	365	10/0/01	SISI.			010	74.7
11	29.90		57	.0	40.0	1 1	1	0.5	W	024	m	258	W VIK	SIMUM.	344	8 224	311	
5 12	-11-	30.01	57.	0	42.8	2	3	3	N	wet	hen	8510	VIIninin	13/1/11	28	ASSES.	\$18	76
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15	29.87		60.	5	49.0	4	2	5	NNE	wet	ms	10	'mm	×/////////	and the	agaaa	\$ \$15	1
16	29.78		58.	3	42.8	2	4	4	NNE	net	ch.	3510	0.00	SUI III IIII	alla.	XL ¥	御 秋 · O IS	
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Kanthe	BAR	OM.E	THER	MOMS	Spect	tos &	W	TIND	EARTH	AIR	CLOUD	MIX.	XIIII	State		NIGHT 7	-ha
reaks	29/2	30%>	In Fah.	Out "Fahr,	Rain Band.	2000	251. ms h:	Vinest.	to dry t	2= 40.	1 to 10, Nonths Hemt	fun A.M.	P.M.	Rai A.M.	P.M.	Calibry -	ta Ke
11	29.77	i	58.6	28.5	1	5	0	W	frt	dr	1	00	300			x	
82	29.74	Maria -	56.7	28.5	1	2	0	N	fort	md.	0410	unmin	WII / WII / WIN	1		X2	-19
13	29.40	12102	57.0	40.2	0	1	0	J'	wet	ms.	77	0/11/11/059	15VIIIII			23	00
4	29.64		58.5	45 2	3	2	5	SW.	seat	md	10	mmm	muinh	1838168	2302244	04	
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10	49.74	30.01	58.5	41.0	1	0	0		Qau	12	10	VISIM	UHU/IIA			911	
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23	29.42			02.5	2	4	0		Snur	ŗ	10	4141144	W/ MIANA	72293, 739935	53	10110100
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5 13	00.68		51.0	37.0	1	3	n		wet	109	10	amanta	ALIMINA.	444	420814	
2 15	00 00		de la	45.5	2	3	0	SSW	wet	dr.	10	VIIIIM	Munun		215	
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517	a part	30.00	54.6	47.3	2	3	4	W	net	ms.	10	anna	auturun		er 1917	
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8 27	1	30.12	2 49.5	15'0	60	4	0	W.	Pit	1 Jan	5	VIENIE	31/3/16	1	82	8
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-	TRAT	IOM.R	THEF	KMON.	Spect	rose.	K	VIND	EARTH	AIR	el aum	inna .	MILIA	WWWWWWWW	ogy.	T	
la B	11.94	11:00	In.	Out.	Rain	f.	201.	b	1= Dry	1= 000.	15 10	111mm		Concercition of the	NIGHT	Thates 4	61
st	29/1-6	30/3>	" Eah	°Fah	-band	0	m	Sired.	2= sout	2= hay.	teatha	Sam	211MA	R	C.A.	taken f	En
动.	n	-	1.010	100		URAN	A:		4=4nt.	4- 109	Ham?	A. M.	P.M.	A.M. PM	Cal. Day	Con N.	N.
			50.7	39.6	2	3								in the terris	mumber		-
51	29.22	L B B	63.0	41.5	2	q	0	NV.	wer	ms	1052	Ulumin C	200	ALI MATER	1826		2
\$1	29.02	30:07	58.5	30.8	2	3	0	VV Mr	wet	ch	1053	11 (UIIII)	DOOD	and the second s	1999122	1111	
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-F	STATE OF	30.25	57.8	30.3	1	2	3	SW	Day	mi	1.	manh	unnor				
12		No.						04	07	ing	10	144au	autun		05		
5	THE .	30.18	56.6	26.3	0	3	0	SSE	frt	tre	10	un man	nniman		00		
in 1	20.03	1000	55.4	45.1	2	4	7	w	wet	de	84.0	WILL ST	Contraction of the second	1500	C.O.		
-	10.50	S. States	55.9	40.8	1	6	12	W	224	ch	4-8	CWC)	ANT VINGE	4006	KO CO A	100	
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10	28 82	Barry M.	57.5	43.0	2	4	18	W	wet	chr.	548	MICSVIA	5/110	44 14/4	010		
11	29.32		57.4	43.4	2	3	15	NW	day	ch.	553	10/10/	0/10		5//		
1	1	1000	No ser	-		-	Sec.	1		1 19/10	100						
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1		1					451 -	1	0	,	a series of the						
13	29.52		57.0	35.0	1	1	2	W	24	haz.	10	91141144	11414114	100000000000000000000000000000000000000	C13	100	
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16	29.38		58.7	42.2	1	2	0	SW	wet	109	10	manul	440000		216	112	
17	29.73	Ser.	58.0	37.5	2	3	0	W	wet	cor	854	1440	ODW	CONNEL MAN	222/14/	113)	
18	29.69		58.3	48.4	?	?	7	SW	sout	m	10	\$11111111	VIIIIIIII	148550001 40854	150 a	-	
			11	14.0	0	0	-	0.11	lut		10	mast	100/11/11		010		
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20	00.00	1000	-	24/	-	1		5.41	hat	110	1 == 10	CYN	VIIIann		C 20		21
20	41.42	1000	6110	37.0	3	4	110	SW	over	and .	10	manun	A Windito	13/3014	82		
20	10 83	10	60:4	387	3	4	050	NE	wet	and	10	1111/014	Vanana	12531 18035	× 422	TIL	
4	24.02	124	50.7	37.0	2	3	10	NE	Que	han	IDEO	W//////	1/19/11/10		242	113)	
	9.45	-	55.3	33.2	0	3	1	NE	Joh	hea	10	VIBIUIU	VIII IIII	188	XXX 224	\sim	
14	444		53.2	29.0	1	3	×	Inc.	Lat	mi	10	yuanu	MIMANIA	2	62	1	
4	24.13	1000	540	30.2	1	2	0	C	1	ma	1	in the second		IN INTERNET	144	+	1
26	20.00			2 0	-	2	9	E	Shur	m	10	milli	Millin	128 1825088	021	2	-
1	20.43	1000	54.8	30.8	2	3	2	-				Selenge.	- apresus		1 1 1	116	1
27	20.1	and the second		-1		0	0		Shur	ch	148	000	20.9/1	4	32	1175	12.
22	7 12	1000	55.0	36'0	3	3	ato	w	Shur	hers	051	100	(V)	4	1	1169	14
	14.02	100	53.5	243	1	3	06:	1					-		-	100	1
		100		11/11/2	2				1								1
1	6.	0	1	-			-								-		-
-	-4)	(4)	No 1		-		-					-11	0	auto			7
20	300	-		-	10				ince	of the	ment	tsel	our 2	1 00 100	NE		1
the	- m	eler	was	Jour	-tim	4 1	na	110	Fh	8.9	10.11	14, 3	on Te	s. 22 prom		1	
1	7 1	wind	7 720	in the	Wes	r	mo	no		112	1 dans	then	+ an	y dan.	1 11		

Tas	ROM.	RT	HE	RMO	MS	Speeth	osc.e	4	VIND	EARTH	AIT	101	2010		im, each	day.	11-1
1	11.0	10	ton	10,	4	Anin	4	22	-		inc	CLOUD	HAR	AMA	Reception Com	MIGNIN	al at
Al and	C 394		-	05		- Lan	OLAN D	on."	Sirest.	10.50	19	1 5 10	1445		NAME OF TAXABLE	INIGHT	Thotes
ALL THE		- 5	Kil.	31	1	- Jana	6400	AT				Contry .	Jun 15	thine	Rain	Calidou	takion an
20.3	7	- 2	0.4	24	#		4	5	S	mur	and	nemi	A.M.	P.M.	A.M. R.M	number	Cont N. V.
1 66	3	19	0.0	4	0	2	3	2	W	set	-1-	10	mann	1111111k	69.9.8	41	
11 17	30.1	7 %	2.7	30	.7	1	2	0	N	wet	an	9410	annan	Mannak	15354033	20	34
22 000	1	0	1.4	47	: 2	1	2	4	SW.	inst	ins.	10	Thunhu	UMALIA		W 44	
54 297	STATES -				1	Section 10	111			Puce	cor	7	1111110	DOVIN	torestore.		TIO
- 100.0	5	6	1.6	50	.4	4	2	7	W	Dree	ch	1.1	aland 1		A BOLLY	29	120)
95 -77	Calles II		1918	76563				1	1	1	0.00	10,49	allasille	manta		05	IRA
100	30.1.	3 64	:0	44	2	2	3	0	N	Que	1					-02	122
6	90.1	16	3.0	47	5	2	2	0	NE	ery,	A	1056	man	1491 00		16	10.0
12-1	30.9	6	5. 7	49	.5	1	2	2	NE	sor	cor	9	11/11/11/11	WHAM CO		3.5	120
1		16	2:0	15	17	2	0	24.1	14	ory	ch	9	4111Mal	INES/IM		40	120
9 29.9	201	17	210	1.0	1	5	1	01010	W	84	chr.	468	0///	10VIII		-20	12.5
10	1201		0. 2	17	2	-	4	468	W	sy	dr.	044	ON	VOID W		49	121,129
11	30.0	100	1.1	41.	0	1	3	064	W	dry	hay	gtar	Willin	UNINA		£ 10	120
	18th I		. /		-	-	-				A	1		- section C		611	131)
12 20.72	and a	13.	8. 0	49	5	1	2	7	SW	ary	hay.	0	exer	mo		0.0	
11-11	LOW ST.				100					1			\sim	pro		012	
1 20.54	Contraction of	59	7.0	46	4	2	2	2	NW	824	chr.	5	VISION	12.25		17.10	
1 4.60	IN THE	55	54	40	8	1	3	1	W	lit	4.00	250	1 AV	don hill	WINN	413	- In the to
15 4 4 1	The second second	de	15	1.5	0		0	in	111	an	ring	009	man	44446	was the	014	
29.49	and the second	20	Go.	47	.0		5	10	W	04	ar.	10	Milanin .	11 (I MAR	10000 80000	\$ 15	132 1
1 5 3 1	and the second	1	1	30	~	2	4	E.	W	any	dr	449	OT	(III)	19 199	416	- 133
17 29.48		30	r.5	34	0	2	4	2	NW	onur	cor.	3 4.8	000	D. (C110)	-	1917	134
18	30.02	52	43	33	0	1	4	3	N	134	ch	064	CO.	ON ON		5/8	(33)
a family	and the second		(AL)	-	m		-				1 41		-	-			1000
19	30.33	55	0	29.	5	1	2	0	NE	frt	her	0	COL	poc		019	
	and the second	note	14	1.0	124				- marine								136
6	30.28	57	. 8	411	7	1	1	0	NW	9rg	ms	053	OOC	1.OAC		C 20	138/1
I Barter	30.27	50	. 5	31.	5	0	1	D	W	Set	and	254	OOM	0.0		8.21	- 19
2	30.01	2	2	91.1	2	11	0	6		Set	and	153	OCH	58.0.	STATE STATE	\$22	1012124
1	20.10	2	1	24	2	2	5	6	S	ist	Ser	SE7	THEN	V/BIII		2 2	
4	18	00	0	20	2		+	4	2	Int	19	1 to 6	2/18-21	WINOV.	A ston at	224	
-	20.18	39	. 3	35.	7	0	1	9	N	The	ind	CG 3	105	(IC)		525	
-	30.35	59	.0	37.	0	0	1	0	N	pr	and	340	A survey	- undi			
1			191		22		-	20	~	0	1	1046	WIRSTO.	21-2/15		026	
	30.23	61	.4	41.	0	1	2	0	N	dry	109	1990	an and	and the		-135	
		1	100					- MA				0.4	mon	SUSAR	5	C2	7
	30.10	60	10	1.0.	al	0	1	0	NE	ary	and	864	AL AN	Lingu		1 32	2
States -	30.12	CA	0	20	2	1	0	0	N	fret	mo	5	Orch	2 Mar		8.2	
	30.0	-1	0	39'	-	1	2	2	ITE	set	han	357	10C	4.20		1 2	
20.00	00.07	28.	8	35-	3	0	6	9	SW	gru	here	0	00	11		93	
100	-	61	1	50.	-	2	2	0	SW	9.0	13	269	00	19/1/1	14	*	
7.97	- Aller	62	3	47.	2	2	2	0	SW	ory	mas					-	
100	(18)	Real Street	100	and the second				30 12		- aller		-				11	
mar 11		-	110	-			1	-			24	· M	wie la	, sea	timely due	shing	
194	mon	the	1	itte	J.	0.000	at	ter	shin	e , an	some	e pro	,1	14	11 184		1 1 2
20 : 200	2 1		151	10	1		T	a pure	Press	dies	ser \$	all	moore	- me	1 1	in	
A Internet	1 -11	an	at	12,	1	9 4 3	0.	4	come	1	- th	1. As	at as	11 the	Cheekver	0	

Month's	BAR0	M	THE	Rh	Out.	Chain	Low	Wel.	IND , Dreet."	EARTH	A/R.	CLOUD 1 to 10, Tenths	1	Jahan .	and the	in.	VIGHT Cal. Day	Photos taken
Jay.			60			- Daner	0.02	hi		4.74	4= 709.	Hem.ª	A.M.	T?M.	A.M.	P.M. 1	numb. c	Cont.N.
51	29.86		03	7	301	4 3	2	0	SW	ory	che,	95 10		XIIIIII MA	12	(RATHU	71	139
02		30.15	6/	5	43.2	2	3	1	NE	suet	hay	153	COC	OCC	280		02	
1 3		30.18	60	4	46.4	2	4	1	NW	Dry	ch.	042	000	D			3	
64	Contraction of the local division of the loc	30.20	60.	2.0	421	2 2	1	1	NE	day	hay	264	NULLE C	医医检			84	
\$ 2		30.20	12.	9	20	2 3	13	0	200	any	hay	150	000		22	1	開きを	
4 7	1	30.93	56.	6	38.	5 1	2	0	NE	that	the	1062	01111111	Viniter	222		40	
£ 8	3 12	30:48	53.	5	39.3	1	17	4	NE	Dry	haz	10	mani	a nhânh			もの	
59		30:42	5%	6	42.5	- 1	1	0	NE	day	haz	1040		boc			09	
1		2000		~	1.0 1	1 2	0	5	NE	an	han	oti	mar	Wanton			au	
310	22 20 00	30.20	5-8	6	44	2 2	2	0	E	100	da	104 2	VIIII	Ninua			311	
4 12	1	30.32	56	R	38	27	3	6	6	Dry	dr	058	CO	YOUT	1	1	812	
2 13	1	30.28	56	4	44.5	- /	2	2	NE	Day	md.	951	VIII MIL	ALCY N			2/3	1.150
5 14	2.	30.24	54	8	37.5	- 0	1	0	NE	dry	ms	2-8	1000	- THIMAN			914	
\$15		30.03	5%	5	50.0	1	2	1464	NW	Dix	ms	955	- 1/1/11/10	MO10		3494	515	140
016	29.99		57.	5	50.5	- 3	1	5	W	day	haz	10	2711111	n na	0	5000	010	
T 14	1.1.1.1.1	30.00	5%	6	30.1	2	2	3	J.S	wet	haz.	10	VIIIII	n nin	(MAAN	200	4 G17	
218	The State of the	30.00	56	i.	12.8	2	11	1	3	wet	109	10	111111	(<u>XIIIIIII</u>	2	a mensi	818	1
819	20.00	20 00	59.	5	51.7	. 7	11	1	SW	Dry	mo	4	1/40	AUX,	8	40%	CH 7 9	11.
420	71	30.08	63.	0	53.0	2	1	0	SE	Dry	hay	965	- ////////	9.9/19	2	94	2420	141
221		30.10	63.	0	45.0	2	2	3	N	coat	hay	84	2 11/11/2	9.05	M		1 th2	2
p 22		30.17	62.	5	46.3	- 1	1	1	SE	any	dr	26	oncic	pa	1		6	
3 23		30.07	61.	2	48.5	- 1	1	1	NE	84	hay	. 0	00	000			02	7
7 01	60 (Children	1000					1	10	N	924	han	04	300	DOC	%		0.2	4
24	11	30.00	01.	7	53.	0 1	11	12	11	200	mi	1.3	VICYIN	N/01/0	5		52	5 14
4 25	A Contractor	30.04	62	2	5316	2 /	2	10	ALC.	0-1-1	has	Inte	3 11/1/1	TAV DO	Q		¥2	6
27	20.05	30.05	09.	5	44 3		1	12	NE	1 m	12	10 to .	4 111/11	1800	9	and the	42	6 11.
28	20.84		02'	00	4510	1 2	0	10	NE	Dry	di	7	VIIIKO	NOO	//	-	123/52	0 11
2 29	29.78	1	61.	2	50.6	2	2	10	W	Dry	ch	95	5 11111	101100	1		Sach	14
230	20 75		-		10			1	NW	924	da	. 76	4 1/04	Dillo	0	5 5	0	30
azar	n in	(1) f	sq.	4	48.2	nth	the	10	m	anite	to	the	great	prep	mde	anc	a the	~
hig	h B	anon	1ª	the	ic h	afsu	res,	nig	2	3 da	ts a	bove	301	that	whole	Days .	fit, a	13

1	11	101	23	1 ,			Co	41.1	384 6	-	1			-		
17	May,	107	0.0	notic	imo	intar	4 m	nina	11	11		1		A REMARKS	TOTAL COL	-
14	-								my re	no bei	tween	8.10		m.	AND THE	
1	BAR	MC	THERI	MOM .S	Shect	one a	w	WD	FARTH	1 AIR		- anno	30.13	O A.M., eau	th day.	
Ant		100	1		Rai	1.1.	77.7	""	1= 224	14 da	CLOUD.	MMA.	SUMIN	60000000000		Calendary and
N PRO	M20142	30002	UM.	Out	Id	0.7.7	rel.	Direct.	3- 500	2= 49.	745 50	11/1/1	3 ///////	SAMPANAS	NICHT	Photos
Yey	an		50.0	1011	02	062	m.K	O T	40 pt.	4. 49.	L. C	Sunt	there!	Rain.	Cal day	Laken Laken
TE	1 29.00		59.5	53.5	2.	1.5	3	NW	day	cle	mem	A.M.	P.M.	A.M. P.M.	number	24.45
10	29.0	30.00	50.1	55.6	5	1	1	W	Diy	mi	1/2	CONTRACTOR OF	PRAM		01	al hind
4	1	30.21	60.4	540	1	14	0	SW	by	haz	8	WHON W	SW II tu ik	1000000	A 0.5	Milen
		30.30	62.3	40.7	i	1 ;	0	NW	day	has	153	004	We H		24	All a
12		30.37	50.8	46.5	i	2	4	NE	day	haz	1052	VIA MANAN	00		25	1
12	and the		1	1	38	-	-	DDE	+14	harz	1053	anut I.	VALO		40	
03		30.38	60.8	48.2	1	2	4	SF.	An	da	14.11	how	at 14 minut			
0.				-				~-		000	1610	eve	8-297/M/r		07	any.
16 2	r I	30.42	59.0	52.0	1	1	5	NE	dry	hay.	10 5 2	TITTENK	500		1 18	150%
89	No.	30.37	59.2	52.6	0	0	7	NE	Dry	har	041	CIX	m		3.9	152
革 ()	2	30.37	59.4	53.5	0	1	6	NE	dry	haz.	0	00	200		\$10	
4 /		30.28	02.2	5000	1	11	0	E	dry	has	Oteg	OOX.	SHITM ATK		211	3424
1	2	30.05	60.5	50.0	2.2	1.5	000	NW	day	de	459	OGHIN	1111111		9/2	1
R. U		00 11	03.3	24.0	2	2	0	~	24	ch	5 4 2	Star.	COG		b/3	14
6.4		30'48	65.6	51.7	1.5	1	2	N	824	ms	1058	11111181	UCM/H//		GI	34- F
				1			1000	12				annah	1971LAD LOP			5-30
61	5 29.9	3	642	53.3	1	1	3	NE	dry	ms	1059	11/////	VISTILL		C IS	1.
31	29.8	ž	64.0	49.5	2	1.5	0	NE	dry,	haz.	10'	41111111	VIIII III A	20100000	12 3.16	
¥/	7 29.6	3	62.0	49.5	2	1	0	NE	wet	ms	10	11/1/11	VIII IIII K	<u>2000000000000000000000000000000000000</u>	2 × 17	
41	8 29 4	2	61.7	57.4	3	1	0	NE	wet	haz	7	(IIII) Channai	WHITH W	1000 THE	4 4 8	
1 to	9 29.5	/	62.7	55.6	2	11	2	SW	wet	haz	9	4/11/n/n	Vinne Sun	Ser Mar 200	62 47	1
143	0 29.4	5	62.0	57.0	2	1	3	SSW	wer	ms	9	- THE TANK	110 0011			1
01	1 205	7	60 7	the	0	0	7	SW	wet	haz	869	2/1/1110	HIQ///		021	3/3/4
	-7.5	1	021	000	-	-	1	0.1		1			00		10.00	100
62	2 29.7	6	61.5	560	2	11	0	SW	day	clr	7	11/11/19	000		222	1
82	3 2017	0	53.0	58.3	1	1	7	SW	sy	ms	10	manne	UNHUNHS		8 24	534
74	29.7	0	640	57.3	2	1	6	3W	dry	cir	910/	VIIIII	Unilian		225	1
4 4	29.9	4	64 3	56.8	3	2	10	W	87	de.	gt 10	multill	VIIII IMA		Q 26	
12	-	30.13	63.6	57.9	3	2	2	NW	- In	dr	5 to 10	0/////	11111C		1 27	
1×	4	30.15	63.0	59.0	2	1	2		- 1		No. of Concession, Name	more	HIIIIII	50000000	0.00	
0.	8	24.10	1000	100	0	1	0	175	824	ms	7	41.011	Vennem	20000000	024	
		00.12	052	0.2.5	2	4	1 ×				10	anum	Vantan	19981 3320	1 C 29	
32	9	30.00	655	500	3	11	0	N	wet	mo	10	mann	unun		8 30	0
0	10	30'06	61.3	48:0	2	1	4	NE	wet	de	1 9/50	2/11/240	100		\$ 21	(153)
4	1 29.9	5	59:5	48.7	1	2	10	NE	any	con	0.00	man	P		-	1
	1		1					-				0.1	0.11	hertect on	entire	1
X	unia	1 m	282	1 - 10		1		1. 29	tays,	viz .	May	211	21	a week of	un-	C THE
Le	ing	thes !	mont	to the	ne c	vere	on	Janu	where	; you	excep	ting ;	to ha	in of the 1	south	-
1	etto	ne i l	ut th	e or	rugs	the w	2	lan 2	0, a.	11 the	2 red	1 / 4	other	at the end	therey.	1
w	to he	- ti	then, 9	from c	May	10 4	T	a a	+ the	egin	hing	that	notical	Bait. sefar? 6	wel,	A STATE
14	Pares -	Bar	- my	confi	nes	link	the i	n escer	4 7 4	the the	and the	C. S.	-			
	1	prover a		CORLE	Grany	A martin		To an and the second	-							

1	DAR	MR	THERN	NOM . S	Sheet	Sasa E	TAT	i aum	EATT	A.0		un o	NTO OSE	4.130	A. M. €	each day,	
halle	Banc	.00	Ton 1	Aut.	D	0 36.	m	AD.	L FIRIH	AIR,	CLOUD,	MALA	YMMA	200000	000000	MOUT	art .
hali	2954	304>	E.L	OFal	22	dow	Vel.	Direct "	2= wet	2.49	1 to 10.	p TC	5////		all freed	NAMEL	Thotos
tou.	int in		o ran.	oran.	0=	0 6	m.h.		42 frat.	A= fa.	of Hem.	Junis	thine.	Rain	fall.	Col. Day	taken
-			60.8	60.3	3	1	0	-			-	M.M.	P. M.	AM.	P.M.	mimber	
21	29.92		61.0	52.0	1	1	0	NE	dry	dr.	10	TIM	UINAMIHA	52191.	94	21	
1	29.84		62.2	52.9	1	0	0	NE SEW	wet	ms	10-8	niniis	Vernin.	ug av	1559	02	
2 3	29.00			1			-	V = m.	my	hay	10	1/11/1 1/10	OUT AMA	144	HISHIHH	23	
- 4	20.08		63.7	63.8	3	2	1	W	ivet	de	ato	maron	masir	auto	auto.		
2 "	11		+ .					6		000.	842	MICH .	MIGC	-90675	1004	04	
5		30.10	64.0	39.5	3	2	2	N	dry	ch.	350	BOW	tros			C.S	(154)
16	311	30-32	64.7	51.0	1	1	2	N	924	mo	10	(ound)	kununuh		49999	36	(155)
57		30.22	05.0	0017	2	1	1	N	Diy	hay.	651	1100	560			\$2	-
8	-	30.33	65.8	50.0	2	1	1	N, M. NE	Dry	ms	568	TREAK	DARCHIN			28	3
9		30.33	60.2	52.5	2	1	0	NE	dry	tog.	10	Millin.	N/ a a can			\$9	1
10		30.34	03- 5	04.2	2	2	1	NE	try	haz.	10 50 9	anning.	W/163/11/16		1 1 1 1	BIC	1
m		30.23	642	54.3	1	1	2	NE	Dru	mi	051	MIIIII	KK K K		110	01	1
	THE P						T	-	- 7		1.00	anana	1				
12	State:	30.13	64.9	56.0	1	1	1	NE	dry	hay.	10	1111111	N. A.	1		C1	200
13		30'03	65.7	57.8	2	1	0	SE	day	haz	105 2	AMARE				0	1 (130
14	29.96		65.4	53.2	1	1	0	S	Dig	ms	10 53		2999			3	4
15	29.98		66.0	58.5	2	1	0	NE	dry	haz	0	XXX	87	1		9	6
10	12	30.10	70.3	03.5	3	6	2	N.C.	Duy	de	Ot 3	20	TINOSC	1		W	7
11	1284	30.18	12.0	09.0	1 3	4	10	~	04				1				
810		30:34	73.8	69.0	2	1	1	N	dry	haz	0	00	φoe	1		01	8
								C . N	Dou	da	0611	00	SVANALIAN	ł		C	9
19	29.97	2	75.4	72.7	2	11	10	NE	Que	has	1058	MII MA	WWW.BYM	2		0	20
20	29.87		72.8	59.5	2	1	10	a	Dry	ch	10	11/11/	(MILLUUG	5	10	man f	21
1 22	20.55	L79611	12.3	129.2	- 2	1 à	0	N.W	Sty	ms	9	VIIIIII	Norman a	314	12 200	100 4	2 (15%
23	20.18		66.8	54 0	1 i	2	0	W	wet	de.	9610	in in	Niminin.			To the	24 (150
24	29.33	1.10	61:0	54.9	14	2	12	N	wet	da	. 10	aquinit.	and an and a second				100
1	300		1040		T		-	- du	1 +	de	Intel	2711/11/1	MANIN		The last	0	25 (160
25	29.58		63.3	54.8	2	1	1612	WWE? W	cool	un.	10-4				20	norma -	100
~		1000	1				10	Cul	Que	dr.	559	101	N	1000	22	24938 C	26 (16
26	29.70	2	63.5	60.8	4	2	4	CW	inst	haz	8	Q	1 Allanda	12000	woodd	02 C	29
20	29.42		64:4	62.0	1 4	2	1.6	d	Dry	hay	8 41	0 Oli	UFICE	1 3	COLORISA.	2	20 (163
20	29.3	7	66.8	64.2	4	2	10	NW	tost	dr	10 53		AVX.	5		9.	3, 1164
36	149.7	12010	66.3	59.4	4 3	2	0	NW	Suy	ch	0	pa	que				
		30-13	66.3	57.0	5 3	2	0	NW	-	1	-		4	14	+ ma	tt	-
E	CT.	L. (3)				-	#	Leein	mis	914	dome	L at I	trand	ilter	witie	à by	
411	The	ing	dom	e ro	ain	ar	de	+ Cur	as an	10 4	n the	che a	2:2 0	June	19.2	a mos	-
	mi 2	mad	4 4	mari	np	art	9,3	hear	temp	enot	are	313	the sure	uth .	math	ant of the	

12	BARO	M.T	THERMO	M.S	Shects	mede	14	(IIII)	EARTH		- and	3919	OMI	n, ea	ch ð	ay.	
1	.99	200	1.	01	0	B	1	IND.	1. 84	AIR.	CLOUD	and .	Villin	28000000	0000001	NACE IN	T
Yan	2913L	398	an.	Out.	Za	2.100	vel.	Direck	I. witt	2. 1.3.	14 2	TC	THEFT	Establish		NIGHT	Theto
YM.	11	0.11	CRID.	Tan.	012	045	m.h.		4= the	1 . m.	1grenth;	1 Sun?	thine .	RAI	N. 1	Cal day	Fakan
EI	10-1-	30.14	.0 8.0	39.4	2	1	1	10º	Qn.	19.	Here?	A.M.	P. M.	A.M.	PM.	namb.F	1.7
8-	1	0.0.00	1	1	119	1.11		~	104	hay.	953	1/11/05/	SIM	1 1 1 1 1	- 141 - I	51	100
02	SALL C	30.08	09.3	62.0	1	1	0	SW	0							1	
9-		Same	12.	1	100	1		~ "	ow	md.	8510	1/1/1/183	mana	8	5223508	02	
13		30.11	71.0	65.0	3	2	0	W	wet	1							
24	20.93	235 14	66.8	62.7	2	1	3		SPCC .	naz.	10	2111/10/11	(IIIIIIIIII			C3	
15	09.98		66.0	62.0	2	1	10	1 M	84	haz.	8	11/10/11	UMINAN.			34	
11	+++	30.07	65.6	61.0	2	15	3	N	dy	hay.	7	11/1/10	YIIAMINA			85	
4.	00.01		67.3	61.0	2		0	N	by	hay.	11	000	00		349	26	
26	10 70		70.5	6CI	1	1 6	2	1 20 -	day	de	0	∞	m			97	
50	24.10		10 5	03.4	4	14	0	56.E	dry	haz.	740	VIUSIII	VIII MAN	580	932248	68	
-			N	Co -	0	1111					1 1		er emanne.	T			
39	29.32		10.1	03.3	2	1	8	SW	wat	hay	7510	1/CY/CY	VIIIIIIII	\$	20000	WH 09	
1			1	-	1.87	1197	1148		1.144		1	parcenter.	corninae.				
10	29.72		08.5	01.8	2	1	4	N	wet	ms	7 \$ 10	Vicion	VIIIIIII	× 935	000100	10 C10	
11	29:68	and the second	68.3	63.6	3	2	0	W	Que	do.	250	OC.	0////initi	5 9354	0 28	311	
1 12	20.54		67.8	63.0	3	11	3	NE	0.7	1 dan	10	Thurst	VIIIIII		-	12001812	
13	20.63		66.0	56.9	3	1	6	N	int	hay	110	miniah	WINIM	5394		2/3	100
11	20.70		62.7	56.9	2	1.1	1 i	NE	900	ray.	10	WIIII MI	VIIIIM		112	014	
15	27.60		61.0	51.0	1 6	15	4	NE	07	con	12	DIMAR II	VITALIA		11	Two	
217	29.09		04.5	54.2	Z	1	0	115	ory	hay.	10	Q/1.04/ 144	WI PAULINE		117	613	-
21	00 24	1-1-1-1	6.1					Nr	0.			minn	2111/11/10		3000	CY	st
916	29.17		03'4	51.5	2	1	0	NE	and	ms	9	114114	WIND PE COM				
113	-			1				17 -111	-	1	Chin	110 - san	winne.		20000	a ar	165
117	29.6 8		63.4	61.0	4	11	3612	DEW	wat	C14.	0610	CALL D	Villa			21	TITE
18	29.86		65.3	62.7	3	2	0	N.	dry.	ctr.	7	unselin a	annin m			Though	116
\$ 19	29.47		66.4	63.4	4	11	10	SW	wer	ch.	19	11/1-4/1/1			-	PH.	The.
20	29.38		67.5	61.4	4	2	9	SW	wet	chr.	18	WIII HALL	- Santa			17040	175
21	29.60		66.8	61.4	3	1	8	SW	824	hag.	7	111111	A A A A A A A A A A A A A A A A A A A	4		123	Tira
22	20.75		60.0	64.3	2	1	8	NW	Dry	cbs.	725	and a	non	1	(173 02	1:50
	~J.12	2000	08.3	00.0	1 -	1					12 151	umm	1000000	2		100	- ce
1 20		2	1. 0	000	2	11	14	SW	824	haz	. 10	111114	appining.	9		- OR	3
43	-	30.00	07.8	2813	3	1	T		1		-	100000	-			2000	
01			1	10.0	-	1 1	0	SW	wet	ch.	8	11/1/10	0/14	2 ~		02	4
24	29.70		68'0	0213	3	1	0	Cur	8ru	da.	7	10K	Miller I	A la	200	02	1128
45	29.52		68.0	60.3	4	2	17	444	1 ant	ch.	8	1111AC	XIIII		22	180 42	118
26	29.69	100	67. 4	61.8	5	2	2	an .	- Pores	cha	6	11 CUIA	JAAN	-		183742	7 (13
27	11	30.10	65.7	57.4	3	2	2	N	1 gry	and	10	MIMA	Millini	A		\$2	8
28		30.10	65.3	51.5	2	11	11	NNE	107	c/a	10	VIIIII	XIIIIII	1	No.	252	9
29	1	20 18	66.0	50.0	4	2	11	W	09	the.							1
217		20.00	00.2	24.0	T				Day	de	4510	OM	XIIIIII	10 3000	1 3	0	184
30	20 40		1-1	64.0	2	2	4	NW	1 84	al.	7	16.916	0/0/	6	重公	C3	1 (185
31	21.18	-	03.0	00.00	2	2	3	N	ary	che.	1-	(Inseria	CHI LINE CONT				
FR	120	100	048	011		1				1 4	0.	. wait	- ml	44 64	7. 4	te rept	
7/1	100	.0	1			F	2	Fina	ine y	perf	etro	199	the	hain	al	4	
AL	le of u	Tunch	ine to	tere a	vere	Leve	a	#	- pre	they'e	quar	7 :0	thene	Lan	30"	ha	
And and	tons	dee	then) and	n i	the	m	2011	an	fen ?	a 23	, 了祭	2	march	all	the out	
the	ne		- 0-		Ba	2. 4	me	50 1	1	48 =	6 3	4; 0	m ga		- and		
No -	A REAL PROPERTY.	A REAL PROPERTY.	7 1	13 11	1000	1000	1	. wa	an po			100			1 1 1		
Honth	BAR	OM.R	THERN	OM. S	Speed	trose.	W	IND.	EARTH	AIR	CLOUD	t. Me	an for	24 hours.	NIGHT	~	
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DAY.	29/3×	304>	"Fach.	° Fah.	Rain Sand.	dow band.	m.s h:	Sirect.	2= wit. Jestine. 4= yst.	2 - 13	1 to 10 tenters, Fame	Jun	Think !!	Rain.	Cal Day	tal	
31	29.84		65.5	62.4	3	1	1	SW	Au	de		U.S.M.	P) In.	PARTE F. M	1.	tio	
22	29.73		66.4	61.9	3	1	1	NW	any	de	7	Inne	L'ANDIA	124.5	158 80	48	
3	29.53		67.6	62.5	2	0	6	SW	wet	mist	957	mm		1054 70305	23	(It	
24	29.54		67.3	59.3	2	1	5	S	wet	mit	7510	minn	9/9/1	38/10 333	04	13	
5	29.07		66.5	60.8	3	2	8	N	wet	ch.	6610		annin min	SHOWER	The	-	
56		30.00	64.8	53.5	1	1	1	NE	wet	mist	7610		umm		06	-	
7	20.85		65.1	63.1	2		1	e	int	de		maria	1.4. ATUL	a	100		
8	1 00	30.04	67.5	63.0	2	1	r	5	Que	mich	9	annin l	VIII I	NOTON S	27		
9	1000	30.10	68.8	64.3	3	1	0	S	87	har.	19	(Nor	1vor	200000	1		
10	29.91	1 Partie	70.8	64.3	4	2	1	s	wet	has	8510	THESTIC	Kuminin	SIGNAL	2.10		
11	29.96		21.0	65.4	2	1	3	S	spet	mitt	75.10	NOMIO	Umhinin.	380	Q11		
12	1	30.03	71.8	69.2	3	2	1	sw	dry	ch.	3	OO!	0//0		F22	R	
/3	14	30.13	70.6	62.5	1	0	1	sw	day	mist	358	0/15/1	B/B////		0/3		
14		30.15	73.0	69.5	4	2	0	SW	sy	dr.	053	O'O'	0/0%		C 14		
115		30.15	74.6	69.5	3	1	0	SW	824	hay	166	00/	Deymin		815		
16	21.4.2	30.01	760	71.8	3	1	2	W	bry	heg.	143	COL	10/00		\$16		
417	-	30.05	75.0	640	3	1	3	5	824	hay.	4403	1000	Summer		4/7		
18	29.68	1	75.2	67.3	2	0	5	Still	204	here	160	Mesul	SUTIONE:	825	510	V	
519	29.72		749	65.7	-	0	10	35 11	0.7	migt	7-10-4	mann	manno	200		2	
20	29.57		72.3	61.6	3	1	18	5	wet	mest	1059	7/10/11)	Norman and	2000000000 200	020		
21	20. 33		79.9	61.1	5	1	26	S	net	hers	953		$\bigcirc \bigcirc$		C21	E	
1 22	29.63		6912	60.7	2	1	10	S	any	han	7.0	10min	Million Co	20000/00/	021	1	
23	29.68		628	58.8	2	1	5	SSW	over	mist	963	Will Page	1000	25 22	P 2 2	N	
24	29.78		68:3	59.0	3	1	5	W	and	cin.	64.7	ir shu	Billio		02	10	
25		30:12	66'3	60.2	2	1	5	NW	day	de.	0	minin	Annan	100	88 520	t	
26		30.16	66.2	57.4	3	1	4	na	1		9	-	Lun		T	18	
27		30.08	64.5	57.	2	1	12	N	dry	ch.	957		NIIIIO		02	10	
20	-	24.06	62. 4	55.0	4	2	1	N	day	dr.	064	00	puo		C 28	1	
20	-	30.26	65-3	61.0	2	0	1	N	day	mett.	7610	Wing	Contraction		029		
\$ 30		30.00	65.6	60.5	3	1	0	NW	any.	aug.	14	Vinni	VIII IIII	6250330	P 0	1	
31	29.8	1 (15)	67.8	61.5	5	2	3	N	7/604	1.	11	1D	Person	Line in H	4 31	1-	
n or no en	tis in 10 ther	The onthe	tore and	a alla the	ly us	one , 19.	tay un	A to ne 15	Hy and	ince we	g blue from	tome	fund being in o	time in the below 2 my y war	9.99 m.		

Jego	lema	REL	TUPO	aly; 1	892	3.	00	ad	near	Nat	Instructural .	ment	to at &	25 AM ± 6	each day,	
Hostis' Works' Hogs.	29.99 5.2 "	30.00 3.2 1	Jn. Fah.	Out. Fah.	SPEC Rain heat band.	TR. Doda	WII Vel. m. h.	D. Jaist	EARTH. A: Dry B. wet C. Snu- D: Port	ATR. A. cla B. hay C. mit	C Quant. 1 E 10 of Hem	LOUD: KI BAA	SND. Sm Sm Sm Sm Sm Sm Sm Sm Sm Sm Sm Sm Sm	Fun Shine	Ray - yal	Ni
Sept. q1 50	29.95	30.01	66.7	57.5	2	1 1	2 5	NN	wet	mit	1059	Clow A Am	Chotors (202)	AM PM taken. 1/////SUN///////////////////////////////	AM. P.M.	20 202
03		30.22	67.4	62.2	2	/	0	NE	ary	hag	9		Coy.	9111111100111111100 7111111110011001100011000		
C 4		30.23	67.0	55.0	3	1	0	S	Dy	haz	2	10		3/134/0/10		
50	29.95		69.0	58.8	3	,	0 2	SW	Dry	met	9510	1	9			via .
47	29.53		68.4	63.2 59.0	4	2 1	10	w sw	dry dry	ch.	5	d d	2.06	01/1911/180 9/1991/11/11/18	* ***	
59	29.77		63.8	57.8	2	1	4	N	824	ch.	85 10	-	(20'S	<i>\/////\$\///////</i>		-
010	29.98		60.3	48.0	3	2	3	N	and	ch.	0 45 9	111	A NEI	00/////////////////////////////////////		
11		30 23	60.6 Guio	50.2	2	2	1	N SW	gry gry	cls. has	15:	2 1	d haze	01/07/14/1/1/1/		
\$13		30.05	66.4	56.4	3	1	8	SW	day	haz.	10	1 1	d \	9/1/10/10/10/10 9/1/10/10/10/10		
214	29.97		69.5 68.8	646	3	2	9	SW	. Dry	cls.	754	A	(2,14) (2,14) (2,14) (2,14) (2,14)	GUIKSKOVIIII I		
2 1,	This .	Kyh vind t	ary his m	rain	i cel	int	> Bat	, ver	y this high is	K con temp	pare in my	with photo	thethe sprak	lin cini befi hiable or before	ne aug 30 no clouit	

	BAR	OM.R	THERN	NOM.S	SPE	CTR	W	ND.	EARTH	AIR		med	in to	r the	e 24h	ours		1
and is all	2999	30.00	In. Fah.	Out. Fah.	Rain	2.0 San	2 el. m. h.	Zir -est -ion	A. Dry B= wat C= mur D= 194	A ch B: hay c: mint	Quant, 1510 Hay	A:	DS ND, mag	Sun	Shine			4.in
ept.	29.84		69.2	59.8	4	2	2	W	dry	ch.	367	Clock	O Ada	AM. tak	РМ. 41.			
17	29.66		66.7	55.7	4	3	5	NW	dry	ch.	1 5 10	12	218	000	×//65///510			
18	29.48		67.0	58.7	4	,	4510	sw	dry	chr.	10	0	m _	911111	Annanna	滋	4118	
19	29.23		66.5	60.5	3	1	125,5	Ş	wet	ch.	753	00	219		NEIGO	滋		
20	29.28		645	53.0	3	2	3	S	any	chr.	567	20	A 222		W////S//		34 54	
21	29.40		60.3	4715	1	2	3	TV	Dry	ch.	9 6 10	10	1225	SIIII			111	
22	29.35		61.0	42.3	1	1	14	SW	Dry	ch.	5,10,3	12 1	A 229 229 229	(1113)[[]]		WH I		
24	29.82		58.0	47.5	1	2	5	N	Dry	ch.	75 4	12	4	MIL	S7/15115		-	
25	20.81		60.5	50.3	3	2	3	NE	dry	ch.	567	10	230	V//i5i//	15///15//16		-	100
26	29.7	3	62.5	45.5	3	1	0	NE	coet	109	10	W	6			200	1118	-
27	29.6		64.0	53.8	1	1	0	NE	wet	fog	1055		www.	VIIII	in innin	224		
28	29.5	4	63.6	51.0	2	1	15	S	wet	mist	759	20	- 977	7/5/1	INTER		-	-
29	29.05	8	63.0	547	1	2	3	S	an	mist	- 10	~	W/232		(//B//IS/68	34	3888	-
								T			0	14:4#	atuatta	Day's .	status co	a pha	nomen	-
16	T. The	wind 9	reatly	gone de	the	, sth	te in	fort	Bar.	notwith Ba	Kitand	, Bath	te clou	rs den	se, well	Defin	a y ray	4

Votte	BAR	OM.R	THER	MOM.5	SPEC	TRM	Wit	D,	EARTH.	AIR	CL	OUDS,	24 1	virs.	71225	00006	
Warks Nays.	29.99	30.00 m >	on. Fah	out. Fah.	heat band.	a sola band.	mi h.	Dir ect	3- wet C: SAW.	B= hay.	Quant. 1 to 10 H. e	KIND. A.1-5 m B.00-9-04	Jun -	odine	Rain	fall.	Nig-
Oct.	29.47		65.5	53.0	3	2	5	SW	dry	has	<u>цет</u> . 6	Clow photos	AM. taken.	PM.	AM.	ΨМ,	
C 2	29.48		62.4	40.0	1	1	0	sw	Dry	tog	10	1000		111111		75056	
8 3	29.19		60.0	47.5	2	.3	3	g	wet	ch.	446	C 200 236		111154	34	NHL.	2/24
\$ 4	28.95		58.7	46.0	2	2	5	S	evet	mist	10 57	m		WWIIIC	1114	× ×	
45	au "	24	/														
96	4m	Est.	myo,	tun	5												
27	Lan	ino	nate	4.	y	0	-	1									
38	on	é o	ron	e !	20	ca	a y	Te.	ut.								
TOP	4	ener	2au	h	101	21	-	4	1/2	Kek	no						
310	2	ren	ala	en	02	ier	a	02	ez	1º al	Prin.	idet to	a				
511	~	ace	200	1 2	tis	e	70	his	ble	fed,	to	er at a	Tan	Par			
12	200	44	rate -		A.	9	2	ter	ere.	Fee.	5	han you	Gi	ne a	•		1
2 13 .	4 and	n y	The sea	4	est.	e	6	nt	14	10	aero	ben	ma	2 th	au	2	
214	de	"tin	m	Hay .	5	ter	4	ton ton	en a	1 Ca	viage	en hoxa	Trec	0	Kax	*	
210		1 apre	2:5	*	20	te	ci	ere	5	2 40	22 4	for the	12	est a	En.	4 a	r)



Tub!	BAR	M. R	THER	MOM.5	SPE	cr#	W	ND,	EARTH	AIR	di	and the second second		ammun 1
Mui	29.99	30.00	In.	Out.	agin	1.0	241.	Din.	A. drug	A. ala.	Quant.	KIND.	MS JUN	William
bant.	42	3>	a Tah	e Fah	Band	ban	m. h.	-in.	(FSAW	C'emist	1610	BORGADA	Jun 2 shine	Rain & fall.
Nov.									meter.	1)-107.	Hem.*	d	AM PM	AM TPN.
81	29.56		53.0	38.0	2	1	15	w	net	100.	10	MAD ITT	unnukunnum	yaan
7 2 2	29.49		55.6	43.2	3	2	5	w	duck	han		1 (240)	unasan yanna	2040000
0 0	2010		59(0)	1.211	,		0		ber a	andala	10	and and		ununum
Ŧ	24.00		50.0	404	-	1	ľ	~~	ony	must	10	rur	41111111111111111111111111111111111111	MANINU
B 4	29.93		2815	40.0	1	4	4	NW	wet	co.	3	100	ON ON ON	
05	29.73		560	37.6	1	2	3	w	Day	han	3610	15 10	OMMINICHIC	21111
	11-			1	2					Í				
a 6		30.00	53.3	38.0	1	3	7	N	wet	hay	10	vo Am	711111Ø1111111	
87		30.34	53.5	37.4	1	2	5	N	wet	hay	3	La Am	Y/11SIIIIS/1	. Halle
88		30.27	52.5	39.2	2	2	5	NNE	wet	han	7	LAAm	13111XIIIIIII	- 9000000
+		30.30	62.7	1.1.6	2	1	3	N	wet	hay	10	La am	1111111/11/11/11	2 X
47			FFIE	4.0	Ţ	1	1.2	N	wet	han	10	~ a gm	91111111X1111111	2
¥ 10		30.00	350	41.2		1	1	N.	inst	mist	9410	1090 W	MIIIII XIIIIIII	21124
11		30.34	585	46.3	2	2	1	1"			1			
0.0		30:30	59.5	44.3	1	2	0	N	wet	mist	10	- a an 836		
~ 14			-/-							1.4	are	10	OXOXIO	
C / 3		3013	57.0	33.5	- 1	5	04:	S	wet	pr	240	6	minin	
3 14	29.74		57.5	39.4	1	2	06	3 SW	and	mist	10		VIIII COVIIII	
8 15	20.73		56.5	40.5	- /	3	0	W	and	mist	-950	-4-0		
+	11.				-	-								

W. th	BAT	ROM. P	THE	RMOM.S	SPEC	TRM	W	D	EARTH	AIR	CLO	nean for to	he 24 hours.	9:
in the second	29.99	30.00	On. Fah.	Out. Far.	Rain heat band	2.5.3	25el. m.	Sin. ect.	B= wet cosance D=4rh	A. ch. B= hay. C=mit. D= tug.	Quant. 1 to 10 Hem?	KIND. A. 105 mm 3:04 4.04	Sun Shine Rain	Hall Nis
Nov: 216	29.80		56.7	39.5	1	2	0 to 2.0	S	824	mit	10	Cloud Photos to	AM. P.M. AM.	P.M.
217	28.77		56.4	49.5	4	2	7	sw	wet	mit	1059	64 4	WIMIN MANAGER	# 12
5/8	29.00		560	40.5	2	3	40	N	net	mist	10	64411	VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ARRAN S
19	29.67		48.0	30'0	1	5	20	NE	Snur	109	10	6494		an
20		30.11	50.0	38.5	1	3	5	NE	evet	haz	856	LA		
21	No.	30.42	50.4	39.0	0	3	062	w	Dry	mit	10	6		
22	29.87		52.3	40.6	2	5	3	SW	Dry	ch.	5	- a (24)		
23	29.97		48.2	33.0	1	3	7	NW	Inw	haz	1052	64111	VIIIAOOORANY	
24	29.93		510	43.5	2	6	5	NW	wet	dr	4 5 10	1.26	90911111111111	
25	29.57		54:4	48.0	3	3	10	W	wet	haz	10	@ m	MIIII MIIIIII	XX 555
26	29.46		53.3	40.2	2	5	25	N	24	ch.	10			
		20.10	1.5	350	0	3	7	SW	Dry	mist	9	w 6	W////IS#///////	
27	20.44	30.12	40.5	54.0	6	4	105,	w	Dry	ch.	8	120-(24)		2 32
20	29.94		505	540	2	4	155.	wsw	Day	ch.	9	6 (248	VIAR SHIIIA	
1 30	29.65		57.4	45.5	2	3	3		wet	ch.	10	6 1110		
16.0	Barom	. falle	ing for	ur yu	in)	the	war	m Jour	there !	half of	a Cyc	lone, getting to regult with in for many h	up through the P. M. notable increase of Sp. ours them drang on B (authorities) This is the setting	Rain ban to house f

Mati	BAR	ROM.R	THE	RMOMS	SPE	TRM	WI	N.D.	EARTH	AIR	Mea	n for the	24 hours.	ch day	y ,	
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201 2	9.72		55.0	33.2	1	6	5	N	drar	cla	Dems	C-m W G KM	AM. PM.	Main &	Yall. PM.	-h
52		30.32	51.0	25.4	1	8	0	NW	frt	ch.	042	1200	1110.01100%			
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22	-					-	Ĵ	W	suer	clr.	9	44	911111111111111111111111111111111111111			
4		30.03	54.2	46.5	3	4	2	W	wet	ch	10	6			-222/259	
15		30.22	56.5	40.5	1	3	1	SW	suet	mist	8610	67 88		纽	22	222
6 29	.87		58.0	48.0	1	3	2	SW	wet	mist	10	6	91111111111111111111	100	6 30 a	100
7 29	.42		56.0	39.4	1	3	5	sw	wet	mist	6	ar - m	1////ioOoy/////	<u>288</u> -22	3 <u>4</u>	
8 28	93		53.0	43.5	2	3	20	SW	wet	mist	10	m (@And	MIIIIII MIIIIIIII	98 98	ž	- 33
9 29	.04		53.5	37.4	0	5	3	SW	wet	haz	2 - 8	- y hoze	0054//////			1
10 29	.28		51.6	28.0	0	3	12	sw	frt	fog.	10	6 m			1000	
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12 29	123		50.5	36.0	0	4	1	SW	mur	mist	10	(g m	7/////////////////////////////////////	800 J	1000000	2001
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15 29	1.97		53.0	440	0	3	2	SW	wet	mist	10	6	VIIIICSIESIIBII			-
16		30.21	56.7	52.0	1	4	0	sw	wet	hag.	8	No Olstartakan moving tes 14	The Grant			
Full	4 44	ush	my may	, but	94	tter	4 0	neri	loud	a) ones	1, in a	this first , the out the	half of Decen	nter.	rongt	e ,
Day	y at	40 0	Bar.	being	be	low	29	00	; gth	a al	I the	rest of the	period for	, out	temp to ban	5

Ind	M BA	ROM .	THE	RMOM.S	SPE	CTRM.	VV	UND,	EARTH	AIR	- M	an for the	to 24 hours	day.	
West Change	1 29.9 1 3 L	9 30 00	Fah	Fak.	heat	band	m. h.	dir ed	B wet Cisny	A ch B hay C mist	Quant. 1 to 10	Arillo I			Nia
017		30.1	3 57.4	44.3	1	3	2	w	Day	hay.	Hem."	Cloud photon (249)	AM. TM. A.	ain & fall AM PM,	-hct
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\$ 19	29.22		56.8	440	3	4	10	5	wet	mist	10	(g m	911111109/14/18.	070 000	774
\$ 20	28.80		550	37.5	2	3	0	SW	suct	mint	10	6	1111111111111111	200 2005	
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22	29.43		53.5	41.7	3	3	3	SSW	wet	mitt	10	(© m	unun anna	10000	8
23	29.83		55.5	440	2	5	5	W	wet	hay	542	L 00(52)	1/6/000//8		***
24	29.94		56.8	39.0	1	4	3	SSW	Dry	mist	9510	() m	mmmunn	1990 M	
25	29.77		56.8	41.5	1	5	7	w	wet	ch	258	्र भाग	01101151111	***	
26	1	30-23	55.4	37.0	1	4	0	w	wet	hay	0 to 10	1 anes	000/6/////		
27		30-22	55.9	40.0	0	3	0	sw	wet	109	10	100	minine unine	1	
28		30.39	56'0	40.4	1	5	0	sw	dry	mot	8610	So m	///////////////////////////////////////		
9		30.54	57.8	40.6	1	4	0	W	Dry	109	10	W ()			
30		30.61	57.7	35.0	1	3	0	SW	Dry	fog	10	00			1
3/		30.38	540	24.5	0	4	0	sw	frt	mst	0510	V= V\$\$	00/11/1/11/11/1		
er.	20	03.	erom	ater	un	premp	rece	ent	Day	lon	igh.	y freezin	governast.		

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BARO	MR	THE	RM.	SPE	CTR.	W	ND.	ATMO.	EARTH	AIR	C	allos	A CZA	Mies	ich o	ay,	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	29.99	30'00	In Fal	Cut . Fat.	Rein	2.0 Cold band	Vel.	Direct-	Electr- -icity.	A: Dry B: Wet C: Anw D: frt.	A= chr B= haz C= mat D= fog	QU. 1510 Visit.	KIND A= _ h. m B= C Cos C ^{cc}	Runghine	Clow Choton	Rai	yall	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		30.28	50-3	24:0	1	3	10	N.	-	Dry	ch.	10	କ୍ଳେ	MAMPM	(9)2	AM	WHITE S	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	30-20	50.7	32.0	1	4	7	N		mur	dr.	7	(1) = 15	10100	2	444	15	*
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	30.57	49.5	29.5	0	4	2	NE		Inw	hey	10	6	2111111111	6		2	R.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		30.37	48.5	23.7	1	5	2	NE		mur	dr.	10	6	unin inn	0	4 4 4	19	49)
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	29.58		45.5	150	?1	3	0	W		Anw	mit	10 5 1	6	111005/	0		A.	ANC.
2994 465 1602 07 3? 0 SW onw fog 10 W MMMMM O 2964 487 23.8 ? ? 2 SW onw fog 10 W MMMMMM O 2954 51.0 33.0 3 5 4 SW onw fog 10 W MMMMMM O 2955 550 453 2 3 8220 5. cost met 105.0 G 3 = MMSOC O 2966 567 41.5 1 4 1 SW. wet fog 95 2 W 3 = MMSOC O 2966 557 41.5 1 4 1 SW. wet fog 95 2 W 3 = MMSOC O 2976 552 43.5 1 3 1 S wet hos. 9 G MMMMMM O 2957 565 41.7 1 2 0 SW wet ch. 45 10 and 6 MOMMMM O 2959 4 554 40.9 1 5 0 SW wet ch. 45 10 and 6 MOMMMMM O	29.70		46:0	16:0	0	3	0	SW		Jour	fog	10	6889	W////:\$1/11	0			
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China 1 2 . K. Hough forming snow; but they are ill destined	29.82		56.4	40.9	1	5	0	sw		wet	ch.	45 10	a=16	(1981) (1111)	2		1	
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	St	ill .	mo	e	In	ow	- 4	est n	nigh	t; a	end a	more	ing al	unou	t i	4	•	1.
Itill more mow last night; and showing almost all day.	3 2	ark	m	no	in	0.0	200	1 on	ino	ur to	han	ever	-: 000	great	er , i	to a	eace	e la

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	the lor	ocring of	f .	Jare	the,	the	lower	- clo	un or	they	ing along	with to	nific	petocity	17
of The lowering of Barometer followed by rain out of human with terrific velocity,	the rain	dotiero	tin	9.	Ban	. at	5 PM	Jown	to 2	9-17	. Surving	afterior	ritte	more	+ +
1 The lowering of Barometer followed by rain out of human course with terrific selonity, It Wind of storm strangth; the lower clouds fogging along with terrific selonity, the rain soturating. Ban at 5 PM Down to 29.17. Junning afterwards to soow.	Winder	P 1	-	1	-	1 x	+ al	ma	ieste	C.	proposed	12 9 .	11 the r	unter.	

And Barton And Constrained on State Other Line State Air State Channel Sta	1940		The	rm =	SAC	trim	w	IND	-	1	rative	imer	to at 8	25 04	en.F	1	-
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1 The Coli Cloud Photos taken indicates that many more were taken then some present 2.8 Brilliant morning, but not photographic because there were no cloud at all ; after 1- PM. clouds appeared & became heavier near O at	29	Open	att			24.44	1	Ira	in c	ycla	ce y	norr i	and the second second		-		
1 the Coli Clow Whotos taken indicates that many more were taken then were present 28 Brilliant morning, but not photographic because there were no cloud at all ; after 12 PM. clouds appeared & became heaver war Oak 29 Overcast , aging , Arain cyclone from America, telegraphed.	-	Contraction of the	and a state	1 -	They want	7	·	State of the state of the state		1		0 55	Imit.			-	

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1	1894	M	arch	21	ha	Ц,	R	eddi ug	ings	The	Inst ur s	Tu ment	ut 8.30	- tAtian	Koay
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	1894 april 1thalf. Readings of Instruments at 8:30 theach very BAROMETER THERMOM. SPECTR. WIND EARTH AIR CLOUDS In the 24 hours. 2999 30:00 In. Out any for the Dir A the Rich CLOUDS The Cloud My															
BAROMETER THERMOM. SPECTR. WIND EARTH AIR A.PTW Arch. CLOUDS 29 99 30.00 Jn. Out Rain-Lung VIND EARTH AIR A.PTW Arch. CLOUDS Image: Cloud Photos <															Night	
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7 14	29.67		60.5	440	2	2	3	SE	wet	hay	. 10	6			90 \$	
515	29.63		61.7	52.2	2	1	2	5	wet	hay	· 7 tal					

	1894 April 2? half. Readings of Instruments at 8.30 AM + each day, as a near Natural mean for the 24 hours. BAROMETER THERMOM? SPECTR. WIND EARTH ATR CLOUDS for the 24 hours. 14 29.99 30.00 In Out Rink WIND EARTH ATR CLOUDS Near the 24 hours. Nylit															
North .	BARO 29.99	METER 30.00	THER	MOM.5 Out	SPEC Rain	TR.	WI Val	D R	EARTH A: Stry	AIR	Quant	OUDS, Kind		loud thates		Nyhr
Layd	44	r_>	Ē	Ê	Jum. Imm	what.	A.	ect-	C. Jnw. Degrt.	c. must	4 jo 4 Hem.	4·12-57 m 3·2-2- (????) 4·12-57 m 2:	SUM SHE	tetten:	AM PM	-
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+ 19	5	30.05	59.0	47.0	-	,	3	NE	wet	hers	9	യരണം യംഗം പ	W///@OO	0	*	1
q#20		30.12	60.7	46.5	2	2	2	sw	Dry	clr.	1		000	0		
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8 24	2g.50		60.5	50.6	1	2	7	5	an	hoy	9			0		
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₽ 27 h 22	29.50		58.6	45.7	2	0	3	N	Dry	fog	10	www mist ha	3-UIIIN/114	2		
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	1891	4 M	lay ,	1that	¥.	Re	Din	gs ne	of In	strum	rents	at 8. 30 A. 1	M. each	Day	, as a
Month's geweeks Days	BAR(29.99 92	9 METER 30.00 9 -> "	THER Jn. Fah.	Mom. Out Fah.	SPE Rain Junt	Low Low	WI Vel.	ND.	EARTH A- Dry B: wet c: Snar D. dat	AIR. A. dr. E. Kag. C. mot	C Me Quant 1 to 10	en forthe OUDS A 15 m m BOOD COD	2.4 hou	Cloud- Ohotos taken	Night
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23	29.66	PLAN A	60.8	52.5	4	1	8	w	wet	ch	7			4	
\$ 4	29.65		59.7	45.0	1	2	20	W	dry	dr	8-2	C18 22	1011101160	6	
ħ5	2,9.75	No.	58.0	46.7	2	3	84	NE.	Dry	dr	3	🗠 200 mil	0.0/////	6	****
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37	29.61		61.0	50.6	2	2	15	w	Dry	dr	7	<u>Cha cu ve</u>	11 15 161111	7	***
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¥ K q	29.61		61.3	49.0	2	.1	0 t55	w	wet	mist	10	67		0	**************************************
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q11	29.67		59.8	51.2	1	1	0	sw	Buch	hay	8	低言		0	₩ ₩
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Tor the	Torthy BAROM. THERMOM. SPECTR WIND EARTH AIR for the 24 hours. Male 24.49 30.00 for Out Rain Low Old A. WIND EARTH AIR 3- 3- Fall "Fall "Fall "Fall way cont the Star Bring Company A. W. CLOUDS 1.000 - Fall "Fall "Fall way cont the Star Bring Company A. Way Change A. Way A. W. Company A. Way A. W. Company A. Way A. W. Company A. Way A																
Jugo	92	"	Fak	°FL!	y seens	34	m. k.	Au- -cot	Bi sunt	A. elt. B. hag. C. mat	QUANT.			Cloud - Photos takon	Raine	Nall 1	Vight
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q118		30.2.5	57.6	48.5	1	1	7	NE	Dry	hers.	9	6 h	11111 5 15 151	2			
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O 20	29.96		552	41.5	1	2	4	NE	dry	ch.	7	മം മ റുണ്ണ	0//0//0/	4		* *	
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8 22		30 03	53.4	45.4	1	2	2	ENE	Dry	ch.	7	ے ۵ مم		4			
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7 26 2	9.74		58.7	47.0	2	3	20	N	Dry	ch	1049	<u>الم</u>	1/////x4.9	3	***	**	
⊙ 27 £	9.70		55.2	43.5	1	1	20	NNE	wet	obr	8 to 10	CD∞ ffm	<u>Cistuns</u>	1	**	¥ 👐	
1 28 2	443		56.6	48.7	2	1	1	N	dry	dr.	9	6		1	-		
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		18	94	lune	1.that	lf	a	ea.	ring	s of	Insi	trum	ents at 8.	30 A. N	1. eas	h day,	as
		BARC	M T.	THE	RMOM.	SPE	CTR	w	INT	Ean	- cur	al s	nean fo	24 h	iours		
	nike V.	29.99	30.00	In	Out	Rain	four	Tel.	N:	A Suy	AIR A che.	CL	OUDS	11 · VA	Cloud.		Ē
	and a get	34	9-	Fah.	Fah.	Summe	count.	mit	ect -	B wet C Smur	B hay.	1 to 10	AINT T	17.5//	- Ohotos takon	Routh Tall	NIGHT
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Ĩ		~711		6.	02.0	3	-	0	Sw	wet	haz	76 10	a an they	10179////	4		*****
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)	3	29.90		61.4	51.3	4	2	0	NE	wet	tog	10	6 👹		0	***	****
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τ,	" 2	q.55		59.8	51.2	3	2	20	NW	dry	chr.	10	se en e a	\$ <i>1111151111</i>	1		
51	2 2	9.78		60.0	56.8	2	1	4	NE	dry	ch.	7	100	ÇININ	10	\$	#
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41	4	· .	30.03	59.6	55.4	1	1	0	w	Dry	herz	457	herrytransf. I	:*//0/06///	11. 0		
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_	_		and the second second	L			-0	-						the same line	-		

	18	94)	tune	200)	with	1	Red	Ding	n of	Insi	tum	ents at 8	30 A.M	ench	Jay	1, 00	,
Months	BAR	OM.R.	THERI	MOME	SPEC	TR	w	No	latine	d m	ean.	for the 24	hours .	A STATE		-	-
The star	29.99	30.00	In	Out	Rain	OH.	Od.		A try	AR	CL Quant	OUDS.		<u>-</u>		8	
Anys.	9,2	4 2	Faht	Fah!	hand	wind.	p.	-eot -	B wet	3 haz c mist	16,10	11 W Man mr		aken.	in an	IL Neg	p24.
B*6		30.03	62.6	59.5	2	2	n. 4	5W	D frt Dry	≥ fog. ch.	Him. 6	1 40 m	ăм 7-м //// <i>160</i> 0	4	MTPM	2.	-+
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@ 18	29.67		65.0	55.6	2	1	4	sw	Dry	haz	10	≥ m Gīī		0	*	*	
819	29.94		62.0	55.0	2	3	2	w	wet	dr.	8-			4			-
\$20	29.80		64.0	57.3	3	1	1	sw	wet	mit	10	6 1		0			95809
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			-			1	5	er 1957	inet	mint	10	6 23		2	*		****
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4 28	6	30.28	66.0	61.0	2	1	1	N	8.14	hars.	052						
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1	189.	4 Ju	ly 1	* hal	4 %	Red	des	90	et e	Inst	ume	nts at 8.	30 A.N	1.00	ch	tay,	ad
Konthis	his BAROM. THERMOM SPECTR. WIND. EARTH AIR CLOUDS Ris 29.99 30.00 Jn. Out Sign LO The Aver A sty A st																
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01		30-28	71.9	64:5	2	1	0	SW	8 mg	hay	Hem.		AM T	M O (0	AM	PM
€ 2		30.09	73.0	66.5	3	,	3	8E	by	has	5	*** 0.A	CHAN	un	,	8	-
d 3		30.02	72.2	63.0	3	1	3	N	824	du.	8	ano 🐜		11	/		
阜4		30.07	70.5	62.4	2	1	5	W	84	ch	2	a to ma	00#	110	5		
25		30 08	70.8	65.3	1	0	5	3	day	harry	9	() \s		*	0		
ç6	29.98		71.3	63.0	1	0	2,	sw	sy	harry	4	Na	1.5.11	##	0		
79	29.82		72.0	62.4	1	0	6	w	Day.	hay,	4-7	⇔ m	III	1/6	2		Ŕ
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Ξ	Hndi	BAR	ON.	THER	MOM.	SPE	CTR.	WI		EADTU	forth	= 24 k	ours.	each du	y , as .	u.	
	". 	29.99	30.00	In	Out	Ruin	1.0	Vel.	Dir	Asy	AIR	Rund	SUND S	1. VA	2.9		
	Sugs	92	1.	Fach.	Fak.	ban .	wind	m	-Cot:	C Sout	c mot	1610	Ban and	13			Vight
-	\$ 17	29.54		65.4	61.1	?	2	15	< w	<u>v que</u>	D forg,	Hem ((===) G	AM PM	AM	PM	332
-	1 18	29.42		640	59.8	3	,		who	aver .	dr.	8	Aba. TTTT	181111 <mark>1</mark> 1184111	2 \$ \$	**	
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Ø	23	29.83		65.8	56.5	2	1	4	V	wet	mot	10	6		0		
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1894,	augi	ist1	sthe	al	1.0	Rea	Ding	1 of .	h					
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2044 29.99 30 C	Theh	Fah.	Suma	Wint	man	Rin.	As Dry Bi web	Ai ch. Bi hay	Qual 14 10			CIÈ Phila		775.45-
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	1894	L. C	lugi	ust a	22)	hal	4. a	Red	Jing.	set s	notre	imenti	40 2		0
Kent	BARO	MB	THEF	RMOMR	SPE	CTR.	w	ND.	EARTH	Aun	ial m	ean for ear	h 24 ho	AMeau urs.	hog,
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E Sept 1.															

	1894, Jeplember 1= half Readings of Instrist at 8. 25 AM each Day BAROM THERMS SPECTR WIND Law Vatural hear for the 24 hours																
inthe	BARON	THE	RMS	SPE	CTR	W Vel	IND.	atimos.	EARTH	AIR	ral .	hear for the	e 24 ho	ay uns.			
illis	Inches	Jn o F	Out	heat	cold	m.	Direct.	Electri -city.	A= Dry B= wet C= Inur	A. clr. B: haz	Qu. 1 to 10	KIND A:NED	//Q//	Cloud Photos	W	X	Niak
1	30.02	630	57.6	3	1	0	N	0	B: fit.	D. Yoy	Hem	8:00 AC	Sun shine AM PM	Lanen	Rain	eall. PM	
02	30.08	62.7	52.7	3	2	2	N		wet	haz	9	強ちって	<i></i>	1			
C 3	29.97	58.0	48.5	3	3	4	N		dry	clr	069	0	COC 34////	0	* *	\$	
84	29.97	57.4	51.6	3	2	8	N		dry	ch	3	<u>م چ</u>		3			
¥5 26	30.00	57.4	33.4 52.7	3	2	6	NGNW		Dry	chr	8	€ m =	11845841157	0	*	**	
27	29.92	56.7	504	4	3	4	NW		Dry	chr	0 510	⊻©≞ _	<i>S/N/////</i>	2		XXX	***
τ γ 8	29.79	554	49.2	3	3	57:12	NW		Dry	chr.	7510	≥ ≡		0		2000	Ŵ
09	30.18	56.4	53.6	2	2	10	NE		Dry	harg	9	~ m 4	<i>ШШ</i> ЫВС	2			
C103	30-33	57.0	52.5	2	2	0	W		Juj	haz	1	15 hrs		4			
8123	30.18	58.5	51.2	1	1	1	SW		Dry Dry	mot	367		VISIINE	0			
413	30.36	500	53°4 51•4	2	1	2	NW		Suy	haz	10	1 10.6		11 0			
Q14	30.33	58.7.	52.0	1	1	0	w		Dry	mit	9	~© ØØ⊘	W///#©C	0 0			
þ15	30.33	614	61.7	2	1	0	NE		Dry	hay	10	1		0			

	189	4,5	fe þ	ter	mb	er,	2₽,	half	Rea	Dings	of J	nstr." ut 2	25 40	10	0		
-	1 DADO	THE	ER M.S	SPE	ECTR	M	GNI		FORTH	mari	Tatare	de Hean for to	te 24 1	ours.	oug		
1	BAKU	In	Out	Rain	Low	1 Cel	Nine	Elect.	A= my	AIR A: ch	ou C	LOUDS	WI . WA	(1)	10000	T	
100	1. Inches	0 F	° F.	Keal	cold	her	-ion.	-city.	B: wet	Be hug	1 5010	A:10-111 m		Photos			light
2	-					<i>n</i> .			D: fut.	D : Yog.	Hem.		Junshine	taken	Raint	all	
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in	30.32	60.0	49.5	1	0	0	NW		Dru	aul	010 10	13 O F		0			
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	10:00	50'2	50		ĩ		N		Damp.	mot	10	6	9/////19/// 10/.	0	*		85
<i><i>¥</i>19</i>	30 09	<i>ру с</i>	52.0	1	0	0	N		wet	mst	10	6 w		0	* *	2	10
420	30.10	59.0	51.0	3	2	0	NNE		wet	mst	10	6 88		0	* *	*	1000
221	24.97	58.5	53.2	2	1	0	NNE		dry	met	10	6		0			
ñ72	29.26	58.3	553	2	1	0	N	100	ony	met	MEIO	N- mito	CUMUM	2			
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923	29.78	58.8	53.4	3	2	0	NNE	Rept P	dry	haz.	9 6 10	E foggy Cha	1591.41111	0			
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\$ 26	20: 20	57.6	50.0	1	1	5	N		gru	ch	4.50	000 11	OMANIA	0			
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224	30.28	54.6	18.1	1	1	5	NW	634	dry	dr.	10 63	₽₽ @ ₩	/////SC	9			
30	30.1							Total .	wet	hars	9	6		11			
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	180	94,	Oc	té	be	ri	1sth	half	Real	dings	y Ins	tru º	at 8				
	BAR	OM. T	HER	MS	SP	ECTR No	. V	VIND.	atmas.	EARTH	Nal AIR.	inal.	lean of the	1 each 24 hours	Juy		
	Will ner	e e e e e e e e e e e e e e e e e e e	-	nu o F	Keal	colo	min.	Sirect.	inity.	B: wet	A= clr. B= hwz C= mot	Qu. 1510	KIND A: VEN III	NA S	Cloud Thotos		NIGHT
L.	1 30.4.	5 55.	44	^{8.} 4	2	1	0	NESH K		my	D: fog	Kem.	<u>C:≡₩6(%</u>	AM. PM	Takin	AM PI	и <u>м. </u>
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+	430. 15	55.	5 48	•8 •	2		7	_/V 7/7		wet	mst	10	6	Willing India	0	**	* 8 ##
+ +	624.48	551	50	-3	3	2	2	N		wet	harz.	10	6 m	91111 1 15111	3		\$ 700 \$\$\$\$\$
7 7	7 9 0	- 56%	0 57	.2	3	2	0	NNW		wet	cir.	9 610	6		1	xxxxx	****
1	830 01	56.8	53.	0	2	-	0	N		wet	mst	10	6	111000	0		
1 4	30'04	56.5	47	8	1	,	0	2		wet	fog	10 .		111111191	0		****
1 10	29.94	56.8	51.	4	2	1	0	?		wet	yog	10	wy (g		0		784449
4 //	30.14	57.7	57.	6	0	0	0	?		wet	fog	10501	👹 haze	////0%%	. 0		
ę 12	30.23	58.4	51.	2	1	1	0	?		Dry	mist	10	6		0		****
2 13	30.07	58.6	56.	4	3	2	0	?		wet	haz	957	6 ⊾ 	47111111115 459159.59	2 2	8 88 8	* **
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15	30'06	52.0	43'	4	1	2	10 ₁₀ 20	INN		wet	has	7610					

	189	4,	00	to	ber	2	ha	4.	Read	ings	4.0	nstru? at	8.250	Mea	- 1. Day	
Kenthe	BAROM	TH	ERMS	SPI	ЕСТ	W	IND	atimes	EARTH	AIR	itiral	mean of the	i 24 hor	ns .	1	
Watto	Inches	no	Out	Heat	Low	m	Sired.	Election	A. Dry B: wet	A: chr. B: hay	Qu.	KIND		Cloud Photos		
1040.		F	ŕ,	pacra	ban	h.		-ury.	C: Inde Di fat.	C: mot D: yoy.	Hem.	BOLLAN	Jun-sture	Jutter	Rain fac	Nyh
316	30.08	51.3	446	3	3	7	NE	S. E.	wet	ch	4510	⊾ coo1 mm		1	// 585 <i>5</i> 58	
¥ 17	30.02	52.3	44:2	1	1	2	N		dry	hars	10	≥ = ©		0		
4 18	29.73	57.2	43.6	2	2	1	7V		Dry	harz	8 to 10	トミルヨ		0	1	14
74	24.64	490	38.0	1	1	0	N	ALC: N	dry	haz	10	6 m		0	\$	
220	24.50	48.5	443	. 1	1	5+20	NE		wet	mist	1057	© \⊑/im	())))/04/07/11/	0	***	18
921	29.37	490	42.8	3	2	7	Ń		wet	ch	10	2) 言	//////////////////////////////////////	0	*	\$ 200079
C 22	29.70	47.0	30.2	0	2	0	N		frt	haz	0	0	0000	0		
d ¹ 23	29.93	47.0	24.5	1	3	0	w		fit	haz	2 to 9	huze 16	094//////	0	*	* ***
¥ 24	29.24	50.6	52.0	3	2	4	\$		wet	mot	10	© 11111	<i>9/11/1</i> 2/11/10	0	8 #####	300 m
425	28.72	53.5	490	3	2	30	Sw	- vour	wet	mst	9	الله الله الله الله الله الله الله الله	7/////SI/SI/	6	\$\$ \$\$	*
¥26.	29.47	55.6	43.0	3	3	1	N		wet	haz	10	ଓ ଲା		0	***	**
527	29.12	55.5	43.6	3	2	1	71		wet	haz	10	6		0		
028	29.52	54.5	42.2	2	2	0	N		Dry	ch	10	6		0		
\$ 29	19.33	554	45:5	1	2	0	sw	String	wet	mot	9		<i>KSIIXIIII</i>			**
330	29.48	55.6	49'0	3	4	20	w	Strong	wet	ebr	7	00	19/0//0	8	*	-
\$ 31 :	29.84	553	36%	2	2	0	sw		wet	409	10	8 6 m			8008	
4			7		-					and the second second						

	189	4,1	Nor	eml	er i	the	4. 0	Read	ings .	Une	-					
att	BAROM	TH	ERMS	SP	ECTR	251	VIND.	Armo	EARTH	ALS	me	an of the	5 AM c 24 hour	ach	Day, as	
	Inches	n o F	Out F	heat	1011 1011 111	m the	Direct.	ELECT	A: Dry B: wet C: Snut B: fre	Ai che. Bi hay	Qu + 1 5 10	00DS КIND А.\\\\\\\\	S.	low) hotes Talim		Night F
21	29.70	58.6	58.3	3	2	8	S.		wet	met	10	<i>1110₩≦</i>	AM PM		AM BM	- 488
₹ 2	29.54	60-2	564	3	2	6	\$		dry	mot	9			3	30 8 8	
p 3	29.58	613	52.8	1	2	5	S		wet	mot	10	© m		0	***	****
14	29.61	000	48.5	4	2	5	Sw	Q85	coet	obe	5	0= 1 00		3		2115
5	29.58	59.5	55.0	4	3	7	sw		Dy	ch	3	⇔ ∞	0001/5//6	2		
30	29.92	580	490	2	3	5	E tosw	E.	Dry	ch.	9	د 🖌 ده	<i></i>	1		\$820
‡7	29.00	57.5	48-0	1	2	5	ssw		wet	fog	10	100 mm	<i></i>	0	\$	****
28	29.30	58.0	450	3	4	7	SW		wet	clr	5	₩ № Δ	10/10/10/1	3		
<i>29</i>	29.48	57.7	46.2	1	2	5	SSW		dry	mot	10	© m		0		
210	29-34	57.6	47.3	2	3	5	w		dry	ch ,	569			3		8
	19.16	57.0	42.4	0	3	1	w		dry	ctr	8 610	10000			1 1000	*
1/2	9.03	55-2	340	0	2	0	N		wel	Tog	10	an	000	2		
21/3 2	9.39	53.6	407	2	6	4	SELSN		dry	ctr.	0	= = 6	WINKING	0		
14 2	8.34	5.3	+3:5	2	3	0	36.W		wet	coc	10	6				
+15 2	9.10	52.6	35-2	0	2	1	3		grt	1100	10					

		189	4	.,.	Vove	mb	er 2	Pha	H.	Read	ings .							
11 15 17	att s att s	BAR	o N es	In o	ERM	S SP Rad	ECTR.	Vel	VIND.	At mo. ELec-	EARTH A: Dry B: wet	AIR Arch B:	C L Que	ents, at 8.2 m for the 2 OUDS KIND	5 AM. 4 hour	cach 1.	day; a	ω
9	16	29.5	8	52·0	F 38.0	2 2	2 (rund) 4	<i>h</i> .	S.	- «ŋ.	c: Snar D: ofit	cr mat D: foy has	Hem.	A: 11=h, m B: ΩΩ. Δ. C. C: = 80 G 151	Junshine L	iken, A	ain Jall M PM	Night 100
5 01	8	29·8 29·9	77	53.0 54:3	41.6	12	2 3	0 1	,S SSW		wet wet	fog mot	10 10	6 6		0		38 2000
d 2	9	29·8	5	54:5 57:0	40°2 51°0	2	2	0 3	s s		wet wet	fog møt	10 10	© ₩	9////X////////////////////////////////	0	**	
¥ 2 4 2	2 3	0·2	2	55:6 56:4	42·0 43·0	1 1	42	3 3	S SSW		dry dry	cbr haz.	9 9	0 VL 6 NL	91110911110 %\$11174111110	0 0		
9 2: 5 2.	3 3 4 3	0 · 1; 0 · 3	7 - 3 5	57.3	42·0 45·2	0 0	12	0	NE NE		wet wet	fog mot	10. 10	6	91111) 911111) 911111	0		12
© 23 C 26	5 J.	0 · 3 3	3 5 5 5	8.8	45·2 41·9	/ •	3 2	1	NEg NEgE	Ð	Dry Dry	haz mst	9 10	6		0		
d 27 ¥ 28	30 30	o [.] 34	5	59	41.6 34:7	0 1	23	0 1	NE W		dry wet	mot	10 8	Len.		Stop		
429	30	o 08	5	55	45.5 39.8	3 3	6	0 3	sw N		Dry Dry	haz cbr	264) ==	0000	Ohoto for Jeaso		
100									631530	1							-	

	1894. December 1st half Rearings of Instruments at 8.25 AM each day.																
In	BAR	MT	HER	MS.	SP Rai	ECTR	2.	WIND	Atmos	EARTH	Natu	ral ,	nean of the	at 8.2. 24 ho	5 AM	each I	ay,
Teel 2 ays	i Inch		n C F	o F	hoat band	Lou Jus 62	m the	Direct-	Electr icity.	A my B wet	A chr. B hay c mot	Qui Ito jo	NINDS KIND	2/	Cloud Ohotos taken		Night -
51	30.3	8 56	02	8.8	2	5	1	WNW		Art	D forg	Him.	<u>ر≡</u> @@ <i>\\\</i>	AM PM	scason.	Rain fall AM PM	_
92	30.3	1 55	-23	0.0	0	3	0	Sw		frt	tra		- States	⊙©###			
13	30.0	7 52	53	7.5	0	4	0	SSW		dry	poy	10	*	<i>911111</i> 111111			
1 4	29.7	0 53	540	7.0	1	4	1	N		D.	has	10	6	<i>40000</i> 00000000000000000000000000000000		1	
85	29.78	52.	6 34	.3	1	3	.0	NW	24	ant	and the	7	<u>∿</u> ©	<i>UANNIN</i>			****
26	29.8	53	0 33	.7	0	4	0	w		and a	mac	10	6			*	
107	20.68	500	2 2		2	7				ory	mat	8	≥ 4 ©	/\$4117411111			
-1	~ 00		-54	-0	-	:		SW		ory	fog	10		971110411111	*		****
28	29.73	53	41	3	2	4	2	W		wet	ch	7	12 000	9991h11111	*		
94	29:97	53.0	33.	2	1	3	1	71		fit	nut	10	۲	<i></i>			****
[10]	29.79	52.8	44	0	?	?	2	W		Dry	109	10	V000	411111 X 11111			
311 2	19.92	53.4	45	5	1	3	1	Sw		dry	109	10	w/	9///////			
12	29.82	56.5	1.8.	2	,	3	2	ssw		Dry	ch	5	K cman	9154111AU 11111	14		
13	9.72	550	17.	2		2	20	sw		Juy	cbr	7	11 m	<i>7////S</i> 7////	6		
14 0	0.0		71			3	20	cw		gry	haz	9	1 mighuz		12		
115	9 94	580	18.3		/	2	1	5		wet	cb.	2	TTA	SHIK.	E 1	**	
2	9.65	580	39.8	2	1	5	20	*									

	1894, Secomber 2" half. Readings of Instruments at 8.25 AM eachday																
Month	BAROM	I. THE	RMS.	SPE	CTR.	v	UND	Atm	a ne	n'A	aturi	Mean of	at 825 or the 2	AM 4 ho	eaching.	day	
Noch: Jays	Inches.	Jn OF	Out °F	Rain	23 23	The the	Direct. - ion.	Elec .	Jay Net Jour	AIR clr. hug most	Qu 3 1 to 10 4	-OUDS KIND . \≌\\`# A00a_A@		Cloud Ohotos takin			jht .
016	29.83	55.5	40'5	1	4	7	W		wet	109.	Hem.	= = = = = = = = = = = = = = = = = = = =	Амрм		AM P	M .	
7 ^{י ۲}	29.87	56.0	350	1	3	1	SSW		wet	400	961			1			
818	29.12	542	44:0	2	5	30	W		wet	cbr.	7-5		//////////////////////////////////////	0		*	***
¥ 19	29.17	55.5	39.0	1	4	15	w		Dry	clr	966			1	\sim	**	
420	29.84	53.6	40'3	0	6	20	N		Dry	clr	268	= 0m	01/01/19/	2			
q 21	29.83	554	42.8	1	3	5	S₩		wet	mit	9	№ ©					900.
F22	28 .60	565	41.0	1	2	60	w		wet	mit	1069	0	<i></i>	1	****	8	484 100-
0 23	29.95	56.8	42.0	0	4	3	WNW		wet	chr.	8	വം ന ര	<i>////©</i> /////	1			1985
@24	29.94	57.5	41.9	1	3	0	SW		wet	fog	10	w ·	<i>91111</i> 11111	6			
8 25	30 · 33	5804	0.5	2	6	0	W		dry	chr	4	1 200	OEXIIIA	1			
¥ 26	30.32	54.34	+4:5	1	5	1	W		wet	clr	2610						
427 3	80.45	5653	9.6	1	6	5	NW		frt	clr	0 52		0000	1		176	
\$28	30.22	57.64	4.5	0	3	17	SW		Dry	chr.	9				35	9828	
729 2	8.95	53.2 3	33.0	1	4	20	NW		Snw	mit	8to0	00 711	woors	1	W.		
030 2	29.11	50.03	350 20	00	45	20 20	N NE		snuo Yrt	chr.	753		OUND				

	189	5.	Ja	nı	an	y. 1	tha	4.0	Readin	41 0	e In	uto dato	05 0 0		10	
Months	Barom	TH	ERMS	SP	ECT	W	IND.		as a ne	ar l	Natur	alitean g	15 A.M.	hours	i vay	
Kaeks Says.	Inches.	dn °F	Out °F	Rain hest	20023	Vel.	Direct.	Atm. Elec.	Shur PRT.	AIR Chi.	Qu! 1 & 10 Th	LOUDS Kind When min Das Con A	Jun shine	Cloud Photos taken	aur fall	Night
31	29.82	48.0	323	1	6	7	N		Frt	dr.	9 9	<u>= 08 0 ^///</u>	AM PM	A	M PM	_
¥ 2	29.65	50·8	37.5	0	5	10	N ₇ SW		Frt	clr	05.10	<u> </u>	0000		8	
23	29.42	52.0	266	1	5	1	N		Fit	ch	0510	0111			1111	
₽ 4	29.92	51.0	33.0	0	3	1	NNE		Inw-	haz	769		UISRIIIII			
ħ5	29.97	50.5	32:5	1	6	5	N		Inw	ch	669	16	(9/// (5////			
⊙४	29.71	50:4	24:8	1	3	1	NE		Snw	haz	10	6 111			14.	111
¢7	29.60	51.5	31.5	1	4	5	N		Inw	cbr.	10	6	91111 <mark>1</mark> 1111		12/11	
₫8	29.83	497	33%	1	5	3	N		Sno	clr	9	6	<i>411111</i> 11111			
79	29.82	50.7	305	0	4	2	NE		fnw	harz	10	6 =	41111AU 195		111	
210	29.82	50.5	15-	0	5	1	T		1 nw	haz	0	14.	0///0//0			
911	29.76	16.6	15±	0	6	0	N		Inw	haz	1	1	000	1 14		
P12	24.53	490	17.	0	2	0	N		Snu	fog	10				3791	
0/3	28.47	52.5	31.0	?	?	10	N		Inw	709	10	*			1 20	
C 14	28:00	53.7	34:0	2	2	5	5		Inw	mst	10	W/				
8 15	20:01	51.3	31.5	2	7	0	SW		Inw	fog	10	000	vinne	·		
816	20,00	550	15.7	2	2	0	sw		Inw	109	10	88°	11110			
+	20 92	55 0	557	1	1			<u></u>	. /							

	189.	5	lan	u	ary	1 2	1 Gre	~!!	Real							
Months	BAROM	THE	RMOM	STE	TR.M	M	TIND.	Atr'	a near	AIR	tural	tean for	A.M. 4 24	each & hours.	ay, a	1
Days	Inches	o F	Out F	Rain yheat	1000 1000 2.0	We have	Directi: -on.	Electr.	Dry Wet Snw.	Clr. hay.	Quty 1510	KIND	ĮS//	Cloud Ohotes		Night
217	28.84	560	355	•	3	1	N		FRT.	tog	Hem. 10	5 W 6 4 1 1	AM P.M.	Jakin Ka AN	F.M	-
\$10 519	29.42	55.5	34:0	0	5	2	W	100	Inw	ch	3	114				
020	20.48	557	37.0	!	1.	1	NE		mio	109	10	6 👹		3		
(21	29.68	53-3	354		3	0	NE		Inw-	mst	10	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
322	29.63	53.5	37:4	0	4	7	N		Inw	charge charge	8	G LBA	unna Chi unna ann		10 10	
\$23	29.44	51.0	33.5	0	5	7	N		Inw	chr	154	2 8	00%			
424	28.98	51.3	38.0	1	3	10	NW		Snur	ch	8	6m6	VISYIIII			
Q 25	19.35	51.4	33'0	1	5	6	N		snu	ch.	6	ne hage	9/18/2011/10	1e		
726	ig.60	51.5	260	0	5	0	N		Inur	haz	1-2	11 haze	0/0/19/1			
0 27	2q.53	50.5	28.5	0	4	0	SW		mu	haz	5	hazel	194111111 10111011111		an	1 miles
C 28	29.91	48.0	22:4	1	3	0	N PLS		Inur	yog	10	1887	111111			in
d' 29	30.05	48.3	23.4	1	2	0	NE		Snw	cbr	4	~	11411 <mark>5</mark> //////		11	112
230	30.50	48.0	23.0	1	4	1	NE		Anw	har	9	©	91111		1	
407	0 30	488	00.8	1	~							Ren Ha				

1895.9	ebrua	ry	1sth	. 11	Real											
Months BAROM. THER June K's Jaches. In Ol June K's Jaches. In Ol Jays Jaches. F 2 29.86 53.032. 0 3 30.01 55.233. C 4 30.15 53.034	2 bruch R: SPECT H Rain Lon t Rain Lon t These Code t Anime Code t	W Vel.	In hu ND, Sirect- tion. N N N N N N N N N N N N N	elf Atm. Eluct	Reader as a sh EARTH Inur Frur Frur Snur Snur Snur Snur	AIR Chings of Most most most most most most	A Vatur Quity Italo Hom. 10 8 10 9	Strument Neal Alea OUDS KIND No. MA COBA (1) OBAA (1) OBA	ts at 9 r of the Difference AM TM MINING MININ	25 AM. each day, 24 hours. otos Will Nig aken Rain Jall AM PM						
$\begin{array}{c} 0 & 3 & 30 & 09 & 57.8 & 27. \\ \hline 29 & 29 & 72 & 57.4 & 20. \\ \hline 47 & 29 & 72 & 48.5 & 17. \\ \hline 98 & 29 & 86 & 46.4 & 0.7 \\ \hline 99 & 29 & 97 & 46.4 & 0.7 \\ \hline 010 & 29 & 83 & 48.0 & 0.7 \\ \hline 011 & 29 & 64 & 47.5 & 23.0 \\ \hline 12 & 29 & 77 & 48.4 & 24.3 \\ \hline 13 & 30 & 0.1 & 19.0 & 10.8 \\ \hline 414 & 30. & 21 & 50.0 & 22.4 \\ \hline 0.1 & 14 & 0.1 & 18.0 \\ \hline 0.1 & 18.0 & $	503 22 022 032 03 003 003 005 001	12000000000	NE SSW E SW N N N N N N N N		Snur Snur Snur Snur Snur Snur Snur Snur	chr fog hars chr hars chr. hars most hars most hars	10 10 700000 2 10 10	G Blue sky Blue sky haze only. haze only. haz, Blue skyon ~ y, haz, G		2 42	121					
	1895	.Fa	ebu	Lar	42	2	half	! a	eading	sal	Inst		10.0		10	
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Honth	BARON	TH	ERMS	SPE	TR.	Tv	VIND	as	a l.	retar	Nat	tural Mean	at 8.25	24 ho	urs.	
weeks Days.	Inches.	In OF	Out F	Rain heat 6 =	Loga	del Ti	birect	Arm ^e Electr	EARTH South	AIR Chr. haz.	24.54 16 10	AUDS KIND,	(BI)	Load Thates atten a	Mig Nig	t
F16	30.46	49:5	26.7	0	3	0	N		Inur	tog.	Hem.	Rhun W.	AM PM	A	PM.	
017	30.43	52.5	35-z	1	2	0	N		Inw	han						
@18	30.28	54:0	353	1	3	0	N		Inur	has	10	(0				
3 19	30.22	52.8	345	1	2	0	N		Sno	has.	9510	6				
\$ 20	30 . 27	546	15.0	1	1	0	N		Sno	haz	0	Blue sky	000			
421	30.28	58.2	380	2	4	3	W		Snur	haz.	9	⊾ 6				
922.	30.26	59.0	37.7	1	2	2	N		Inw	cbr.	9	1 Cm (0				
F23	30.18	59.4	38.4-	1	1	1	71		Snur	mot	10	6				
0 24	29.65	59.8	39.0	2	3	5	W		Inw	cbr	10	6			11.600	
C 25 2	29.90	56.8	34:8	1	2	1	N		InFit	haz	7	1	4 0 4/111			
ð 26 2	9.72	543	350	2	3	7	W		Snu	obr	8	124≡	11911/11/19	0	88.8	
\$ 27 2	29.70	52.63	5.0	1	3	4	NW		Inw	clr	9	FENC	љ/////⊘∕⊙/			
4 28 2	19.82	5763	5.6	2	4	0	ww		Snur	har	8	15 pm (» <i>(</i> 0000	0		

	18	95		Ma	incl	E,	1st has	40	Reading	A						
Kondk	BAROI	1. TH	ERMS	SP Rain	ECTR	W	ND	- a	EARTH	AIR	Nat	strumen wal Me	to at 8	1.250 the 24	ach hour	Day,
eka yd.	Inche	F	F	ban	o edi banid	hour	Derect.	Elec . - trucity	Aryt Shar	chr mst.	21.510	Kind		lorid hotos Vaken		Night
21	29.53	58.0	39.2	1	23	30	WE		wet	fog. chr.	Hom.	= = ₩6114	AM PM	An	1 PM	
03	29.50	55.5	260	1	2	,	NE		snar	chr.	7	1 m A		2		Grand Clouds .
\$4	29.72	51.3	34:5	2	3	3	N		Inw	hez mst	8 10	12 m.	11181111111 11110541111			1 th the
35	29.82	52.2	340	1	2	0	W W		Prive	haz	10	harry	111111111111111111	2		
+7	29.63	57.8	348	2	3	0	SW		Inw wet	mot	10 10	6/200	9/////////////////////////////////////	×	*	<i>\$11,1000</i>
28	19.59	5573	350	1	2	1	5		wet	mot	10	62			*	
29 2	9.51	570	37.2	1 0	1	0	SW		lovet	fog	10	6			8	177
11/ 2	9.36	56.4	38.0		2	1	W		Snor	mit	16	6				
12 2	9.62	56.0	33.5	1	1	0	W		H.F.t	mst	2	Haze 4		0		
13 2	9.88	57.6	38.0	1	1	1	N SW		Dry	har .	8	harge of 11				
14 3	0.07	510	65	2	2 3	1	71		Bry	haz	9	× m		2 2		
163	0.22	52.54	165	2	3	1	W		N ry	ch	4		March	1		

	189	5.	M	an	h :	22	half	R	Ding	od.	here				
Kall	BARO	M. J.	ERM	S SPE Rau yha	CTRUM	vel min	VIND Vinet-	at a	TARTH Jay Wat	Nati AIR Clr.	Luant,	Mean of 4 WDS Kind	at 8.25 F te 24 how	M cases of	ry, = Night
017	30.1	7 61	036	0 2	2	hour	from. W	Electri	Prior Frost	mot . tog.	to jo		AM PM	AM PM	
& 18 3 ¹ 19	29.84	59.	045.3	2	1 4	0 0	TV TÇHI		Dry Dry	hazy etr	9	16hn.	OANGI USUNUUUU UNUUUUU		
421	29.07	58	048.0 446.3	2	2 /	2 24	NW 4, W		Ъгу Wet	cbr, met	7 10	N≌ yhaye ™©=		*	******
q22 F23	29.78 29.68	59.0	049.7 044:8	3	2	4 0	w S		נידע ציע	clr mst	9 10	G haze y 11 G TTT	(1541545)5 1 (111111)11111	***	10000
024 ©25	28.95 28.98	600 560	51.5 44.5	42	1	7-10	SW. WSW	*	Wet Wet	mst Haz	9 5	© mm⊾ ©⊾yha	, 7154117411158 7 7155411411111	1000 - 1000 1000 - 1000 1000 - 1000	8 11.
326 327	28 · 99 29 · 08	550 53.0	402 36:5	2	3 1	1	W W		Dry Dry	cbr mit	5		5 0001110 1 77777777777777777		
428 2 229 :	28·53 28·78	53·5 52°0	42·3 398	12	02	23	sw N		Wet Wet	Haz ebr	10	© ⊾ m m			8 (1110 (1110
た302 03/ よ	9.11	57.3 52:0	39'5 41-5	1	1	3 5	N N		Wet Ny	haz obr	. 10 9	0 1 2 23	//////////////////////////////////////	×	
	17														

	189:	5 6	ap	uil	14	ha	4	Read	ing							
Houth Warks	BAROM. Inches	THE	RMS Out F	SPEC Rein Keit band	1240 000 00 00 00 00 00 00 00 00 00 00 00	* Hick	IND. Jureat.	Altres. Electri- cito	EARTH BARTH BAY ANT	JAR CLA.	CLO 24.4 14 10	UDS Kind	7 da 21	125 AM	çan hi Milli	ay =
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+ 29	29.98	654	54:5	1	0	0	NE		Dry	hazy	1	haz.	00/////				
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012	30.13	66 [.] 0	, 585	2	1	0	NE		Ny	hay.	9	thick haze	<i>v111</i> x111				
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			1000			-	-				-						

	189	5.	Hay	2	€ h	4	Re	wing	to of	er mai	trum	ients at	8.25 AM	each	14
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CONCLUSION

Although his cloud images have rather limited scientific importance they can be seen as an interesting addition to the history of meteorology and photography of the time. Indeed, the association of cloud images with meteorological data very much follows on from the annotated cloud studies by John Constable in the 1820s (Thornes, 1999).

The main purpose of this publication, however, is the open presentation of the Smyth meteorological data set. It is hoped that this will enable his careful observations to be finally used by researchers into historical meteorology and incorporated into more complete data sets for the period.

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