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# 解 説

## 1 ま え が き

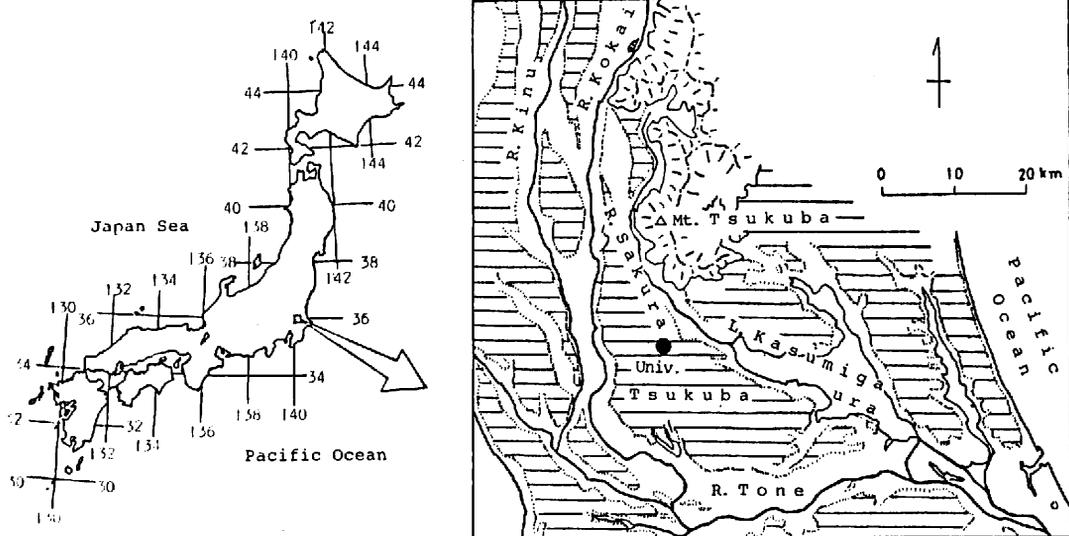
この「熱収支・水収支観測資料」は、筑波大学水理実験センターの実験圃場において観測した熱収支・水収支関係の要素の観測値を、研究用の資料として整理・印刷したものである。

観測資料は、当センターの担当者が、他の業務を兼ねながら、微妙な調整や保守を必要とする多くの観測器機類の長期にわたる継続的な監視、得られたデータの読取や計算など、細心の注意力と忍耐力を必要とする作業を積重ねた結果出版されたものである。しかし、それにも拘わらず、要素によっては、観測値の精度のうえで、あるいは、やむを得ざる欠測など、若干の問題も残っている。

観測値の整理の仕方は、研究や利用の目的に応じて種々考えられるが、ここでは最も単純な統計量である平均値、最大値、最小値および積算値などの一次処理をほどこすにとどめた。したがって、観測値のさらに高度な利用を望まれる研究者に対しては、サンプリングタイム2分毎の観測値を集録した磁気テープおよび、同時に自記した打点記録紙が原資料として保管されているので、所定の手続きを得たうえで、これらの資料の利用を図られることを希望します。

## 2 観測点の概要

筑波大学水理実験センターの熱・水収支実験圃場は、北緯  $36^{\circ}06'35''$  東経  $140^{\circ}06'00''$ 、地表面高度海拔25mに位置し、地図上では、関東平野の東北部、筑波山（876m）の南方約12kmの小貝川と桜川に囲まれた台地上にある。(Fig. 1)。



(after Ikeda and Matsumoto, 1978)

Fig. 1 Location map

実験圃場は、半径80mの円形の圃場で、その外周には圃場からの表面流を集める側溝がとりまいている。圃場の中心部は、外周の側溝の天端高度（海拔27.0m）より、約0.5mほど高くなるように盛土をし、平均勾配1/160をもって表面流が側溝に集まるように整地されている。そして、圃場の中心には地表面からの高さ約30mの鉄塔を設置して、後述するように、各種の観測を行なっている。Fig. 2は、観測要素の平面的な位置を示したものである（記号のA～Gは、Table1を参照のこと）。

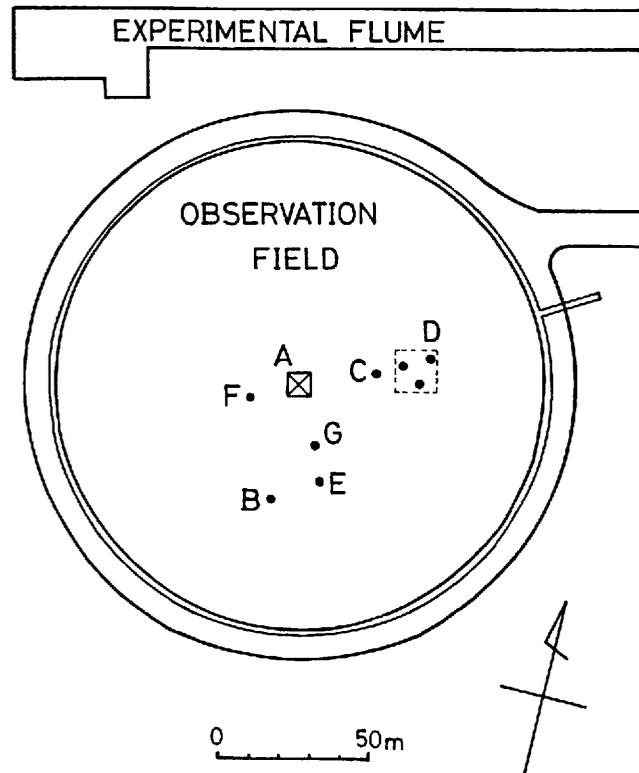
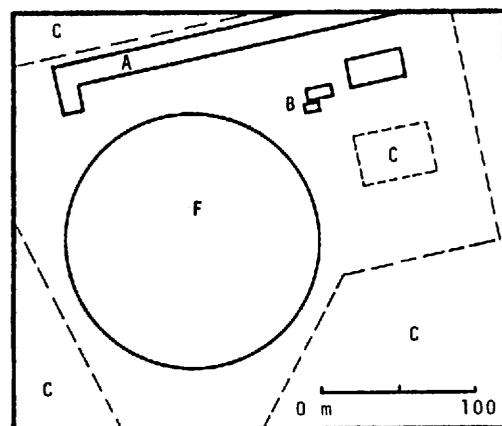


Fig. 2 Experimental field of Environmental Research Center, the University of Tsukuba.



- A: Building (about 10m)
- B: Observation house
- C: Green belt (about 10m)
- F: Grass field

Fig. 3 The experimental field (F) and its surroundings.

圃場の周辺部の状況 (Fig. 3) は、北側に高さ約10mの大型水路建屋 (A) があり、北西部には高さ約5mの仮設観測小屋・作業小屋 (B) があり、さらにその東側には高さ約10mの2階建研究棟がある。また、圃場の東南および西南には樹高約10mの松林 (C) が生育している。

圃場の植生状態は、1977年度は、建設直後のため、大部分は裸地状態となっていたが、夏季には、不規則な分布で雑草 (ヨモギなど) が生育した。1978年度は、5月に5種混合の牧草の播種 (ケンタッキーブルーグラス、レッドトップ、ウィーピング、ホワイトクローバー、クリーピング) を行ったが、クローバーなどは発芽率が悪く、結局ケンタッキーブルーグラスのみが残った。牧草は、草丈をそろえるため、7月下旬に約30cmの高さに刈込を行ない、雑草を取除く作業を行なった。Fig. 4 は、牧草の草丈の季節的な推移を示したものである。

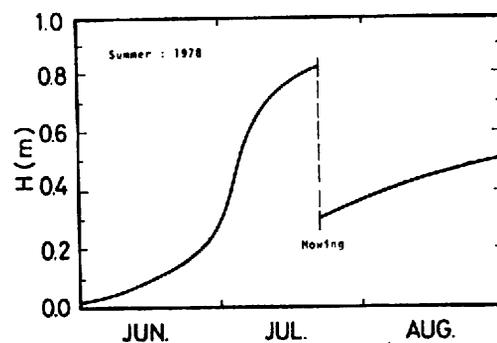
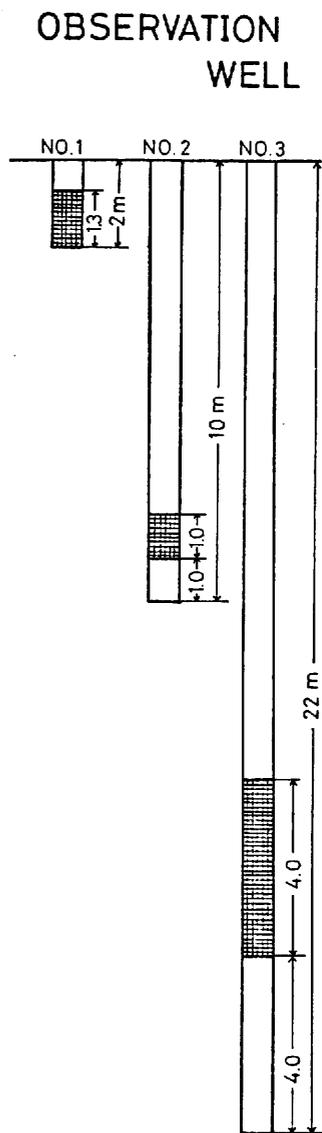


Fig. 4 Variation of grass height (H) with time.

圃場の土壌・地質の状態は、表層の50cm位は、圃場を建設する際に、切土や盛土をして整地したために、土壌層が若干乱されているが、その下部は関東地方に広く分布する、いわゆる関東ローム (層厚1.5~2.0m) となっている。このローム層の下部には、層厚2~3mの粘土層がみられる。色は上位から下位に行くにつれて、褐色から灰白色に変化している。粘土層の下部は、細砂層で、層厚は約13mであるが、小砂利も混っており、また、うすい粘土層ないしはシルト層をはさんだりしている。この地層を帯水層とする地下水は、被圧されている (10m井、20m井)。

Fig. 5 に、地質柱状図 (No. 3 地下水位観測井) と、各地下水位観測井のストレーナーの位置を示す。地下水位観測井は、各井とも、口径200mmのロータリー試錐機を用いて所定の深度まで掘進し、ケーシングパイプ (口径150mm配管用炭素鋼鋼管) を挿入し、ストレーナー周囲には、直径1.5~3.0mmの珪砂を充填した。ストレーナーの孔は、直径9mmとし、縦70mm、横60mmの間隔であけ、砂の流入や目づまりを防ぐために線径0.8mm 10メッシュおよび線径0.5mm 16メッシュのステンレス製金網を二重巻にした。



DEPTH (m)	SYMBOLS	COLOUR	GEO-LOGY
		bro-wn	loam
5.2 m		brown ~ gray	clay
8.0 m		dark brown	fine sand
18.5 m		dark brown ~ dark blue	fine sand with gravel
22.0 m		dark	clay with fine sand

Fig. 5 Sketch of observation wells and geological section of the experimental field.

水位測定器および発信器は、直径 500 mm、高さ 500 mm のヒューム管内（Fig. 6 参照）に設置し観測値は、信号ケーブルによって研究棟のデータ集録室で記録されるようになっている。

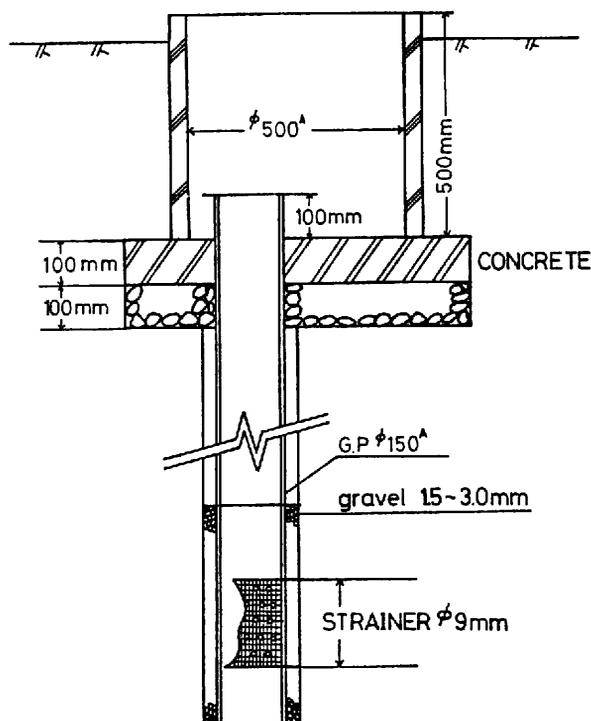


Fig. 6 Structure of the observation well.

### 3 観測要素および測器

「熱収支・水収支観測資料」は、観測要素の変動特性・観測方法・計算方法などの諸点を勘案して、第 1 篇（気象・気候表）、第 2 篇（気温日変化表）、第 3 篇（水文表）の 3 篇にわけて整理した。第 1 篇・第 2 篇は、観測からデータ整理に到るまで、主として林陽生が担当し、第 3 篇は、佐倉保夫が主として担当した。

各篇に記載した、観測要素とその記号、観測場所、測器名などの一覧表を、Table 1 に示す。観測値の利用にあたって必要と思われる事項は、各篇の最初の頁に、それぞれ「各要素の説明」として記載しているので、あわせて参照されたい。

Table. 1 Observation elements, symbols, observation points and instruments.

要素	elements	symbols	observation points	instruments
I	風速	U 1, U 2, U 3	A 1.6, 124, 300 m	sonic anemometer
	運動量フラックス	UW 1, UW 2, UW 3	A 1.6, 124, 300 m	"
	顕熱フラックス	WT 1, WT 2, WT 3	A 1.6, 124, 300 m	"
	全短波放射量	I	B 20 m	Moll-gorczyński type Sol- arimeter
	純放射量	RN	B 20 m	Funk type radiometer
	地中熱流量	G 1, G 2	C -2, -50 cm	heat flow plate
	気温	T 1, T 2, T 3	A 1.6, 124, 300 m	{ platinum resistance thermo- meter
	地温	ST 1, ST 2, ST 3	C -2, -10, -50 m	"
	露点温度	TD 1, TD 2, TD 3	A 1.6, 124, 300 m	LiCl dew cell
	気温	LOW MID UPP	A A A	{ platinum resistance thermo- meter " "
III	地下水位	GW 1, GW 2, GW 3	well depth -2.2 m, -10 m, -22 m	float type water gauge
	地温	ST 1, ST 2, ST 3, ST 4	C -2, -10, -50, -100 cm	{ platinum resistance thermo- meter
	降水量	P	E	{ tripping bucket type rain gauge
	蒸発散量	ET	F	weighing lysimeter
	蒸発量	E	G	pan (120 cm in diameter)

注) 観測点の記号 (A~G) は Fig. 2 の記号に対応する。

#### 4. あ と が き

この「熱収支・水収支観測資料」の刊行にあたって、これまで、様々な形で協力をいただいた関係者に深く感謝いたします。熱収支・水収支実験圃場の設立にあたっては、水理実験センター設置準備委員会の委員（市川正己・井口正男・菅野三郎・野口正三・町田貞・山本荘毅・山本光男・吉野正敏）をはじめとする多数の教官の御尽力にあずかり、また、事務的な面では、筑波大学研究協力部長大山超氏をはじめとする研究協力課の各関係者および経理部主計・経理・調達各課の関係者のお世話になった。さらに、建設の段階では、施設部企画課、第一、第二建築課および設備課、環境保全課の各担当官のなみなみならぬお世話をいただいた。こゝに改めて感謝の意を表する次第であります。（古藤田 一雄）

地中熱流量：Soil Heat Flux (G 1, G 2)

熱電対式地中熱流板によって得られた値で、G 1, G 2の埋設深度は、それぞれ2 cm, 50cmである。サンプリング間隔は2分とし、日平均値、半旬平均値・半旬別30分平均値を計算したものである。単位はly/hourである。

気温：Air Temperature (T 1, T 2, T 3)

通風式白金抵抗温度計によって得られた値である。T 1, T 2およびT 3は、観測鉄塔の北東側でのそれぞれ地表面から高度1.6m, 12.4mおよび30.0mにおける観測値を、2分毎にサンプリングして、日平均値、半旬平均値、半旬別30分平均値を計算したものである。単位は°Cである。

地温：Soil Temperature (S T 1, S T 2, S T 3)

防水型白金抵抗温度計によって得られた値で、S T 1, S T 2およびS T 3の埋設深度は、それぞれ2 cm, 10cmおよび50cmである。サンプリング間隔は2分とし、日平均値、半旬平均値、半旬別30分平均値を計算したものである。単位は°Cである。

露点温度：Dew Point Temperature (T D 1, T D 2, T D 3)

自然対流式デューセル型露点温度計によって得られた値である。T D 1, T D 2およびT D 3は、観測鉄塔の南西側につけた、それぞれ地表面から高度、1.6m, 12.4 mおよび30.0 mにおける観測値を2分毎にサンプリングして、日平均値、半旬平均値、半旬別30分平均値を計算したものである。単位は°Cである。

## 2 統計期間

1978年8月4日～9月7日(第44半旬～第50半旬)

10月28日～11月11日(第61半旬～第63半旬)

11月22日～12月1日(第66半旬～第67半旬)

12月7日～12月26日(第69半旬～第72半旬)

1979年1月1日～1月15日(第1半旬～第3半旬)

なお、半旬は1月1日から12月31日までに73半旬あるが、第12半旬は2月25日から3月1日までとし普通の年は5日間、閏年は6日間とする。(林 陽生)

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	I	RN	G1	G2	T1	ST1	ST2	ST3	T01	T02	T03
NICHU HEIKIN (M-O)											
8 4	16.53	9.67	-0.50	0.14	27.35	29.71	29.02	26.54	27.44	27.07	26.81
8 5	22.42	12.41	-0.18	0.16	27.13	30.27	29.33	26.54	27.28	22.81	22.77
8 6	21.86	12.07	-0.24	0.12	26.94	30.15	29.19	26.59	26.79	23.83	23.77
8 7	18.73	10.51	-0.44	0.17	27.18	30.43	29.43	26.44	26.77	25.77	25.75
8 8	15.97	8.88	-0.48	0.17	26.86	29.56	28.95	26.52	26.22	25.73	25.56
HANJUN (S) HEIKIN											
HANJUN NICHU HENKA (M-M)											
0 0	0.34	-3.53	-2.10	0.17	24.43	27.59	28.76	26.40	26.42	25.76	25.42
0 30	0.49	-2.80	-2.01	0.17	24.22	27.45	28.63	26.40	26.43	25.72	25.36
1 0	-0.22	-3.09	-2.05	0.17	24.06	27.35	28.50	26.40	25.90	25.76	25.06
1 30	0.17	-3.10	-2.05	0.17	23.90	27.19	28.39	26.41	25.52	26.91	24.74
2 0	0.04	-3.66	-2.10	0.18	23.71	27.05	28.28	26.41	25.45	26.82	24.59
2 30	-0.34	-3.61	-2.12	0.18	23.57	26.88	28.16	26.42	25.39	26.64	24.31
3 0	0.33	-3.28	-2.08	0.18	23.78	26.69	28.06	26.43	25.31	26.45	24.13
3 30	0.44	-2.95	-2.03	0.18	23.08	26.54	27.94	26.43	25.51	26.72	24.11
4 0	0.13	-2.91	-2.03	0.18	23.03	26.42	27.83	26.43	25.38	26.58	24.07
4 30	1.08	-2.27	-1.97	0.17	22.80	26.28	27.72	26.44	25.14	26.52	23.91
5 0	1.59	-0.73	-1.78	0.18	23.06	26.21	27.61	26.45	24.95	26.54	24.32
5 30	6.79	1.75	-1.48	0.17	23.70	26.14	27.52	26.45	25.35	26.97	24.91
6 0	13.19	3.72	-1.92	0.18	24.52	26.42	27.45	26.45	25.75	25.56	25.17
6 30	20.26	10.50	-0.45	0.18	25.56	27.01	27.42	26.45	25.90	25.50	25.24
7 0	27.87	16.59	0.25	0.17	26.60	27.50	27.43	26.45	25.90	25.63	25.43
7 30	30.92	19.01	0.54	0.18	27.26	28.07	27.48	26.46	26.17	25.71	25.54
8 0	34.89	22.00	0.89	0.18	27.83	28.61	27.58	26.45	25.94	25.50	25.42
8 30	43.75	28.67	1.66	0.18	28.49	29.15	27.71	26.45	25.75	25.31	25.47
9 0	43.61	28.94	1.49	0.17	28.85	29.75	27.85	26.44	25.70	25.22	25.35
9 30	48.73	33.18	2.21	0.17	29.48	30.41	28.05	26.44	25.95	25.48	25.63
10 0	53.37	36.59	2.64	0.16	30.12	31.26	28.26	26.44	25.85	25.41	25.67
10 30	52.93	36.77	2.66	0.16	30.41	31.99	28.54	26.43	25.52	25.16	25.41
11 0	51.09	35.04	2.47	0.17	30.56	32.47	28.84	26.43	25.41	25.10	25.26
11 30	55.73	39.11	2.94	0.16	31.00	33.41	29.16	26.42	25.28	24.97	25.35
12 0	58.36	41.00	3.19	0.17	31.39	34.36	29.49	26.41	24.66	24.36	24.71
12 30	54.97	38.25	2.88	0.17	31.57	35.08	29.87	26.41	24.37	24.15	24.37
13 0	58.85	41.37	3.25	0.17	31.90	35.61	30.22	26.39	24.64	24.32	24.65
13 30	52.20	35.89	2.65	0.16	32.04	36.13	30.57	26.39	24.49	24.20	24.59
14 0	48.84	33.62	2.35	0.16	31.90	35.96	30.89	26.38	24.31	24.09	24.30
14 30	43.37	29.31	1.87	0.16	31.78	35.38	31.12	26.37	24.45	24.29	24.63
15 0	32.04	20.58	0.84	0.15	31.33	35.04	31.26	26.37	24.52	24.31	24.51
15 30	27.35	17.00	0.40	0.14	30.95	34.32	31.33	26.37	24.79	24.54	24.61
16 0	22.77	13.34	-0.03	0.15	30.56	33.49	31.33	26.37	24.73	24.43	24.56
16 30	13.87	6.03	-0.38	0.16	29.85	33.04	31.27	26.37	25.21	24.86	24.85
17 0	9.43	2.54	-1.31	0.16	29.15	32.37	31.17	26.37	25.12	24.76	24.73
17 30	4.53	-1.22	-1.76	0.15	28.45	31.76	31.03	26.37	25.35	24.91	24.59
18 0	0.99	-3.69	-2.77	0.15	27.73	31.19	30.86	26.37	25.83	25.38	25.04
18 30	0.05	-4.15	-2.14	0.16	27.03	30.65	30.68	26.38	25.87	25.50	25.14
19 0	0.09	-3.76	-2.12	0.16	26.44	30.18	30.49	26.38	26.02	25.63	25.33
19 30	-0.05	-3.85	-2.13	0.16	26.02	29.80	30.29	26.39	25.83	25.43	25.20
20 0	-0.01	-3.95	-2.14	0.16	25.55	29.46	30.09	26.39	25.75	25.25	25.05
20 30	0.11	-3.77	-2.14	0.16	25.36	29.14	29.90	26.39	25.71	25.23	25.04
21 0	0.21	-3.49	-2.13	0.17	25.11	28.86	29.72	26.40	25.93	25.34	25.11
21 30	0.16	-3.63	-2.13	0.16	24.88	28.59	29.55	26.40	25.98	25.10	24.55
22 0	0.13	-3.36	-2.13	0.16	24.70	28.33	29.37	26.41	26.17	25.40	25.05
22 30	-0.11	-3.92	-2.15	0.17	24.59	28.10	29.21	26.41	26.14	25.43	25.04
23 0	-0.06	-3.88	-2.15	0.16	24.55	27.91	29.05	26.41	26.38	25.71	25.33
23 30	-0.37	-3.95	-2.15	0.17	24.48	27.77	28.90	26.42	26.33	25.70	25.39

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	I	RN	G1	G2	T1	ST1	ST2	ST3	T01	T02	T03
NICHU HEIKIN (M-O)											
8 9	14.52	8.08	-0.76	0.16	26.39	29.31	28.79	26.52	25.61	25.19	25.13
8 10	13.63	8.02	-0.88	0.14	25.21	28.74	28.23	26.44	25.50	24.93	24.88
8 11	18.79	11.04	-0.48	0.13	27.50	29.67	28.70	26.39	25.47	24.94	24.86
8 12	20.26	11.78	-0.43	0.14	27.30	30.14	29.10	26.39	25.31	24.80	24.76
8 13	16.88	9.60	-0.72	0.15	27.14	29.81	29.04	26.49	25.88	25.31	25.22
HANJUN (S) HEIKIN											
HANJUN NICHU HENKA (M-M)											
0 0	-0.12	-3.02	-2.17	0.15	23.89	27.42	28.40	26.45	25.50	24.95	24.75
0 30	-0.37	-3.15	-2.17	0.15	23.73	27.28	28.29	26.46	25.60	25.00	24.76
1 0	-0.46	-3.09	-2.16	0.15	23.55	27.13	28.18	26.46	25.70	25.03	24.75
1 30	-0.41	-2.74	-2.13	0.16	23.46	26.98	28.08	26.47	25.65	24.97	24.66
2 0	0.03	-2.51	-2.11	0.16	23.28	26.85	27.97	26.47	25.66	24.68	24.47
2 30	0.80	-1.98	-2.07	0.15	23.15	26.70	27.88	26.48	25.50	24.73	24.31
3 0	0.39	-2.01	-2.07	0.16	23.01	26.57	27.77	26.48	25.39	24.62	24.17
3 30	-0.22	-2.04	-2.09	0.15	22.85	26.44	27.66	26.48	25.25	24.52	24.07
4 0	-0.49	-2.16	-2.10	0.15	22.67	26.30	27.57	26.49	25.32	24.58	23.97
4 30	0.68	-1.44	-2.05	0.15	22.55	26.17	27.48	26.49	25.21	24.49	23.92
5 0	3.01	-0.31	-1.90	0.15	22.64	26.11	27.38	26.50	25.34	24.60	24.20
5 30	4.91	1.62	-1.67	0.16	23.18	26.21	27.29	26.49	25.59	24.92	24.82
6 0	8.80	3.70	-1.43	0.16	23.82	26.46	27.23	26.50	25.77	25.27	25.19
6 30	14.47	7.82	-0.95	0.15	24.51	26.76	27.20	26.50	26.10	25.45	25.31
7 0	19.49	11.49	-0.57	0.15	25.34	27.14	27.20	26.50	26.23	25.65	25.46
7 30	27.72	17.00	0.13	0.15	26.21	27.58	27.24	26.49	26.35	25.72	25.58
8 0	35.25	22.26	0.74	0.16	27.08	28.15	27.31	26.50	26.50	25.96	25.85
8 30	41.30	26.95	1.30	0.15	27.89	28.74	27.41	26.49	26.55	25.93	25.99
9 0	47.65	31.99	1.90	0.15	28.80	29.42	27.56	26.49	26.57	25.92	26.10
9 30	49.27	33.56	2.13	0.14	29.39	30.12	27.75	26.49	26.75	26.21	26.26
10 0	53.88	37.16	2.59	0.13	30.12	30.91	27.98	26.48	26.59	26.09	26.23
10 30	48.74	33.74	2.21	0.14	30.45	31.65	28.24	26.48	26.31	25.89	26.00
11 0	55.43	38.96	2.81	0.13	30.97	32.23	28.54	26.47	26.27	25.89	26.01
11 30	57.82	40.85	3.06	0.13	31.56	33.12	28.83	26.46	25.69	25.30	25.58
12 0	45.99	32.00	2.09	0.14	31.64	33.86	29.17	26.45	25.44	25.04	25.27
12 30	43.39	30.44	1.90	0.14	31.76	34.02	29.51	26.45	25.35	25.02	25.26
13 0	44.12	30.87	1.93	0.14	31.86	34.26	29.80	26.44	25.65	25.37	25.61
13 30	44.05	30.72	1.93	0.14	32.05	34.58	30.05	26.43	25.67	25.37	25.69
14 0	41.98	29.13	1.74	0.13	32.16	34.70	30.27	26.42	25.32	25.09	25.51
14 30	31.54	21.00	0.80	0.13	31.78	34.76	30.47				

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	I	R4	G1	G2	T1	ST1	ST2	ST3	T01	T02	T03
NICHU HEIKIN (M=0)											
8 14	20.81	11.93	-0.43	0.14	26.91	29.05	29.03	26.55	24.50	24.08	24.15
8 15	17.43	9.79	-0.73	0.14	27.14	29.42	28.73	26.58	25.55	25.09	25.74
8 16	15.71	9.44	-0.77	0.14	27.15	29.24	28.98	26.57	24.77	24.52	25.46
8 17	7.13	7.13	-1.09	0.14	25.95	27.97	28.05	26.62	26.16	26.48	25.83
8 18	16.13	8.94	-1.03	0.12	23.82	26.67	27.14	26.52	25.34	22.84	23.05
HANJUN (5) HEIKIN											
HANJUN NICHU HENKA (M=0)											
0 0		9.45	-0.91	0.14	26.20	28.78	28.39	26.57	25.14	24.44	24.67
0 30		-2.14	-2.19	0.14	23.92	27.37	28.40	26.57	25.49	25.12	25.00
1 0		-2.37	-2.21	0.14	23.64	27.23	28.28	26.58	25.49	25.01	24.81
1 30		-2.54	-2.23	0.14	23.41	27.07	28.17	26.58	25.37	24.82	24.63
2 0		-2.71	-2.23	0.15	23.12	26.90	28.06	26.58	25.24	24.67	24.54
2 30		-2.46	-2.22	0.15	22.88	26.77	27.96	26.59	25.21	24.57	24.34
3 0	0.50	-2.12	-2.18	0.14	22.72	26.62	27.86	26.59	25.21	24.58	24.30
3 30	-1.69	-1.94	-2.18	0.15	22.72	26.51	27.76	26.59	25.26	24.53	24.29
4 0	-0.75	-1.99	-2.16	0.15	22.59	26.40	27.66	26.60	25.03	24.36	24.10
4 30	1.55	-1.98	-2.16	0.15	22.47	26.29	27.57	26.60	24.86	24.27	23.91
5 0	3.58	-0.62	-2.00	0.15	22.47	26.18	27.48	26.61	24.80	24.15	23.66
5 30	6.60	1.76	-1.71	0.15	23.05	26.10	27.39	26.61	24.79	24.16	23.91
6 0	14.50	6.39	-1.17	0.15	24.29	26.14	27.31	26.61	25.00	24.43	24.51
6 30	19.36	10.21	-0.70	0.14	25.18	26.40	27.24	26.62	25.39	24.88	24.99
7 0	27.91	16.24	0.00	0.15	26.23	26.73	27.21	26.62	25.35	24.89	24.99
7 30	31.60	19.86	0.44	0.14	27.15	27.07	27.21	26.61	25.41	24.95	25.06
8 0	34.81	22.53	0.75	0.14	27.69	27.55	27.25	26.62	25.44	25.06	25.20
8 30	46.18	31.71	1.82	0.14	28.81	27.91	27.32	26.62	25.20	24.73	25.02
9 0	40.63	28.44	1.47	0.15	29.10	28.38	27.40	26.61	25.22	24.74	25.14
9 30	41.87	29.74	1.62	0.14	29.11	29.03	27.53	26.61	24.98	24.55	24.98
10 0	49.77	35.67	2.29	0.14	29.22	29.42	27.68	26.61	25.13	24.78	25.05
10 30	39.77	28.37	1.44	0.14	29.42	29.91	27.85	26.61	25.44	25.08	25.42
11 0	38.76	27.55	1.35	0.14	29.44	30.46	28.04	26.59	25.26	24.86	25.17
11 30	41.78	29.89	1.60	0.13	29.53	30.75	28.25	26.59	24.96	24.57	24.82
12 0	44.35	31.58	1.81	0.14	29.64	31.15	28.45	26.59	24.83	24.41	24.78
12 30	51.27	37.29	2.48	0.14	30.01	31.67	28.64	26.57	24.68	24.18	24.87
13 0	40.56	28.77	1.52	0.14	30.12	32.34	28.86	26.57	24.96	24.50	24.99
13 30	38.06	26.76	1.34	0.14	30.10	32.90	29.33	26.55	24.58	24.22	24.89
14 0	37.54	26.39	1.21	0.13	30.10	32.94	29.52	26.55	24.96	24.65	24.98
14 30	26.54	17.77	0.22	0.12	29.80	32.52	29.67	26.54	25.05	24.59	24.90
15 0	26.89	18.21	0.26	0.13	29.43	31.69	29.75	26.54	24.90	24.62	24.88
15 30	19.11	11.98	-0.45	0.13	29.08	31.45	29.77	26.53	25.06	24.62	24.81
16 0	15.37	9.28	-0.80	0.13	28.50	31.19	29.75	26.54	25.29	24.60	24.86
16 30	12.08	6.43	-1.13	0.14	28.17	30.78	29.70	26.53	25.31	24.90	24.87
17 0	6.19	1.80	-1.68	0.13	27.65	30.35	29.63	26.53	25.43	24.97	24.90
17 30	2.67	-0.90	-2.00	0.13	26.89	29.10	29.53	26.53	25.45	25.08	25.10
18 0	0.72	-2.11	-2.18	0.13	26.17	29.44	29.41	26.53	25.10	24.68	24.61
18 30	-0.01	-2.64	-2.25	0.13	25.74	29.05	29.28	26.53	25.09	24.58	24.51
19 0	0.02	-2.50	-2.24	0.13	25.38	28.69	29.13	26.53	24.78	24.33	24.25
19 30		-2.44	-2.27	0.14	25.11	28.39	28.98	26.53	24.93	24.37	24.26
20 0		-2.68	-2.29	0.13	24.93	28.14	28.84	26.54	25.25	24.63	24.47
20 30		-2.25	-2.26	0.13	24.82	27.90	28.69	26.53	25.23	24.47	24.34
21 0		-2.10	-2.25	0.13	24.77	27.72	28.56	26.54	25.14	24.52	24.38
21 30		-2.13	-2.23	0.13	24.61	27.59	28.44	26.54	25.11	24.49	24.42
22 0		-2.13	-2.23	0.13	24.61	27.44	28.33	26.54	25.25	24.62	24.48
22 30		-2.18	-2.21	0.14	24.51	27.30	28.22	26.55	25.39	24.74	24.49
23 0		-1.97	-2.21	0.14	23.88	27.12	28.11	26.55	25.34	24.66	24.53
23 30		-1.82	-2.18	0.13	23.88	26.94	28.01	26.55	25.19	24.53	24.23

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	I	R4	G1	G2	T1	ST1	ST2	ST3	T01	T02	T03
NICHU HEIKIN (M=0)											
8 19	15.56	9.51	-0.90	0.10	25.48	27.35	26.97	26.29	24.49	23.77	23.89
8 20	20.51	12.08	-0.52	0.10	27.20	28.43	27.63	26.10	26.23	25.48	25.49
8 21	21.57	12.60	-0.25	0.12	28.43	29.36	28.37	26.10	26.22	25.47	25.75
8 22	22.55	12.58	-0.05	0.14	27.51	28.97	28.36	26.23	20.15	19.91	20.46
8 23	22.29	11.59	-0.05	0.13	26.41	28.52	27.93	26.53	20.14	19.87	20.03
HANJUN (5) HEIKIN											
HANJUN NICHU HENKA (M=0)											
0 0		20.50	11.67	-0.16	0.12	27.01	28.52	27.85	26.21	23.46	22.90
0 30		-0.21	-3.26	-2.20	0.12	23.25	26.07	27.28	26.23	23.70	23.11
1 0		-0.49	-3.48	-2.23	0.12	23.03	25.95	27.17	26.23	23.82	23.19
1 30		-0.59	-3.33	-2.22	0.12	23.00	25.82	27.07	26.24	23.87	23.13
2 0		-0.37	-3.21	-2.21	0.12	22.90	25.72	26.98	26.24	23.81	23.12
2 30		0.14	-3.09	-2.21	0.12	22.80	25.63	26.88	26.24	23.96	23.16
3 0		-0.52	-3.38	-2.24	0.12	22.44	25.51	26.79	26.24	23.98	23.21
3 30		0.04	-3.16	-2.23	0.12	22.20	25.37	26.71	26.25	23.92	23.08
4 0		-0.25	-2.95	-2.21	0.12	21.98	25.22	26.62	26.25	23.66	22.97
4 30		0.53	-2.79	-2.18	0.12	22.04	25.10	26.53	26.24	23.60	22.83
5 0		0.18	-2.40	-2.15	0.12	21.84	25.02	26.45	26.24	23.56	22.80
5 30		1.78	-1.60	-2.00	0.13	21.77	24.94	26.35	26.26	23.65	22.84
6 0		6.92	1.57	-1.66	0.12	22.35	24.99	26.28	26.27	23.84	23.16
6 30		12.18	3.16	-1.73	0.12	23.37	25.22	26.20	26.26	24.11	23.47
7 0		20.69	10.85	-0.56	0.12	24.56	25.53	26.18	26.27	24.16	23.56
7 30		28.59	16.08	0.06	0.12	25.98	25.92	26.17	26.26	24.10	23.59
8 0		32.29	18.86	0.40	0.12	27.00	26.12	26.21	26.26	24.09	23.39
8 30		38.22	24.11	1.02	0.12	27.61	26.76	26.28	26.26	23.82	23.09
9 0		39.85	25.50	1.20	0.12	27.92	27.21	26.37	26.25	23.66	22.98
9 30		53.24	35.48	2.38	0.11	29.00	27.74	26.50	26.25	23.67	22.98
10 0		53.47	36.84	2.63	0.12	29.83	28.43	26.66	26.25	23.21	22.58
10 30		59.53	41.45	3.18	0.12	30.31	29.07	26.86	26.25	23.27	22.61
11 0		65.96	45.84	3.70	0.13	30.97	29.75	27.08	26.24	23.27	22.30
11 30		63.67	45.40	3.72	0.12	32.20	30.74	27.35	26.23	22.98	22.41
12 0		64.74	45.84	3.79	0.12	32.56	31.93	27.67	26.27	22.99	22.76
12 30		61.39	43.24	3.49	0.11	32.81	33.17	28.03	26.21	22.54	22.01
13 0		60.87	43.00	3.44	0.12	33.10	34.12	28.45	26.20	22.47	22.04
13 30		51.57	36.09	2.62	0.12	33.28	34.70	28.88	26.19	22.22	21.78
14 0		43.76	30.14	1.93	0.12	33.24	34.99	29.25	26.17	22.17	21.73
14 30		37.97	25.21	1.37	0.12	33.13	34.82	29.59	26.17	22.16	21.64
15 0		30.48	19.27	0.64	0.11	32.67	34.16	29.83	26.15	22.44	21.91
15 30		22.40	12.90	-0.07	0.12	32.2					

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	I	RH	G1	G2	T1	ST1	ST2	ST3	TD1	TD2	TD3
NICHU HEIKIN (M-D)											
R 24	16.73	8.12	-0.49	0.11	25.21	27.37	27.32	26.32	19.21	18.97	19.11
R 25	20.29	10.26	-0.14	0.11	22.88	26.71	26.58	26.21	16.14	15.82	16.11
R 26	18.84	10.26	-0.14	0.10	23.64	26.64	26.13	26.01	19.05	18.59	18.64
R 27	20.32	11.17	-0.20	0.10	24.14	27.02	26.50	25.44	19.90	19.51	19.64
R 28	19.34	10.60	-0.10	0.10	24.59	27.20	26.66	25.75	21.34	20.78	20.70
HANJUN (5) HEIKIN HANJUN NICHU HENKA (M-M)											
0 0	0.07	-3.39	-1.95	0.11	21.04	25.25	26.63	26.08	20.28	19.93	19.98
0 30	-0.23	-3.95	-2.00	0.12	20.72	25.03	26.50	26.08	19.82	19.56	19.43
1 0	0.02	-3.42	-1.79	0.11	20.38	24.75	26.38	26.04	19.47	19.15	19.26
1 30	-0.24	-3.72	-1.99	0.11	20.14	24.51	26.25	26.09	19.45	19.23	19.69
2 0	-0.12	-3.50	-1.98	0.11	19.87	24.30	26.12	26.09	19.38	18.97	18.60
2 30	-0.12	-3.19	-1.98	0.12	19.56	24.12	25.99	26.09	19.18	18.64	18.34
3 0	0.39	-3.18	-1.94	0.11	19.28	23.89	25.87	26.09	18.94	18.42	18.18
3 30	-0.43	-3.27	-1.97	0.12	19.00	23.67	25.74	26.09	19.01	18.38	17.90
4 0	0.45	-3.15	-1.94	0.11	18.54	23.46	25.62	26.10	18.92	18.29	17.74
4 30	0.22	-2.77	-1.94	0.12	18.31	23.27	25.49	26.10	18.74	18.21	17.61
5 0	0.78	-1.40	-1.77	0.12	18.24	23.12	25.35	26.09	18.79	18.35	17.87
5 30	5.71	1.00	-1.48	0.12	18.63	23.19	25.23	26.09	19.04	18.69	18.92
6 0	13.83	4.54	-1.04	0.12	19.70	23.50	25.14	26.07	19.71	19.26	19.64
6 30	21.06	8.34	-0.53	0.12	21.21	23.88	25.08	26.10	20.23	19.73	19.74
7 0	29.02	13.97	0.08	0.12	22.78	24.31	25.07	26.10	20.50	20.01	20.04
7 30	36.99	19.85	0.80	0.11	24.14	24.82	25.10	26.10	20.07	19.60	19.55
8 0	43.61	25.21	1.44	0.12	25.25	25.39	25.16	26.09	19.35	18.85	19.10
8 30	46.49	28.15	1.80	0.11	26.08	26.01	25.27	26.09	18.98	18.49	18.83
9 0	52.61	33.45	2.43	0.11	26.75	26.60	25.41	26.08	18.97	18.59	19.01
9 30	54.61	35.60	2.69	0.10	27.43	27.27	25.58	26.08	18.75	18.37	18.85
10 0	56.67	38.49	3.05	0.10	28.23	27.93	25.78	26.07	18.64	18.69	18.82
10 30	61.31	42.21	3.51	0.11	28.66	28.65	26.01	26.04	18.64	18.63	18.22
11 0	61.03	41.77	3.47	0.10	29.14	29.54	26.28	26.05	19.79	19.45	18.10
11 30	60.40	41.63	3.47	0.11	29.40	30.44	26.58	26.04	17.75	17.48	18.11
12 0	62.92	43.47	3.72	0.12	29.82	31.54	26.92	26.03	17.85	17.65	18.19
12 30	63.30	46.37	2.84	0.11	29.83	32.52	27.29	26.02	17.92	17.64	18.21
13 0	47.01	31.50	2.29	0.10	29.67	32.56	27.67	26.01	17.91	17.67	18.36
13 30	42.48	27.47	1.82	0.10	29.50	32.45	27.97	26.00	18.05	18.01	18.54
14 0	44.64	29.27	1.99	0.09	29.77	32.59	28.19	25.99	18.01	17.81	18.46
14 30	33.05	20.29	0.22	0.09	29.33	31.94	28.36	25.99	17.78	17.57	18.15
15 0	31.64	18.88	0.74	0.10	28.97	31.05	28.45	25.97	18.26	18.04	18.63
15 30	25.88	14.38	0.22	0.10	28.55	30.53	28.45	25.97	18.47	18.28	18.77
16 0	18.21	8.45	-0.46	0.09	28.07	30.02	28.42	25.96	18.66	18.39	18.72
16 30	11.04	3.02	-1.12	0.09	27.40	29.49	28.35	25.96	18.42	18.10	18.29
17 0	5.21	-0.76	-1.59	0.09	26.64	28.97	28.26	25.96	18.32	17.95	18.06
17 30	1.65	-3.51	-1.92	0.09	25.67	28.45	28.14	25.96	18.77	18.31	18.33
18 0	0.04	-4.75	-2.07	0.10	24.73	27.97	28.00	25.95	18.98	18.62	18.66
18 30	-0.05	-4.48	-2.06	0.10	24.01	27.51	27.85	25.95	19.44	19.01	19.00
19 0	-0.21	-4.28	-2.04	0.11	23.45	27.15	27.70	25.95	19.87	19.51	19.53
19 30	0.16	-4.05	-2.02	0.11	23.07	26.86	27.54	25.96	19.77	19.37	19.43
20 0	0.10	-3.45	-1.96	0.10	22.68	26.59	27.38	25.96	19.82	19.33	19.32
20 30	0.01	-3.11	-1.93	0.10	22.43	26.37	27.23	25.96	20.04	19.47	19.42
21 0	-0.02	-2.96	-1.90	0.10	22.24	26.17	27.09	25.94	20.27	19.67	19.58
21 30	0.06	-3.07	-1.91	0.11	22.04	25.98	26.94	25.96	20.25	19.74	19.73
22 0	0.14	-3.21	-1.94	0.11	21.85	25.79	26.84	25.96	20.42	19.87	19.76
22 30	-0.19	-2.95	-1.91	0.11	21.65	25.59	26.71	25.96	20.56	19.95	19.72
23 0	-0.20	-3.25	-1.95	0.11	21.34	25.40	26.59	25.95	20.42	19.89	19.69
23 30	-0.29	-3.19	-1.94	0.11	21.04	25.20	26.48	25.96	20.43	19.89	19.74

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	I	RH	G1	G2	T1	ST1	ST2	ST3	TD1	TD2	TD3
NICHU HEIKIN (M-D)											
R 29	17.83	9.82	-0.40	0.10	25.47	27.26	26.69	25.72	22.07	21.38	21.15
R 30	16.29	8.99	-0.52	0.10	25.85	27.45	26.95	25.71	23.90	23.31	23.27
R 31	17.35	10.31	-0.42	0.11	24.35	27.48	27.05	25.73	23.09	22.69	22.64
R 1	4.57	1.94	-1.45	0.10	21.62	24.93	25.45	25.76	19.63	19.16	19.40
R 2	20.15	9.63	-0.62	0.07	21.29	24.26	24.54	25.52	14.78	14.50	14.60
HANJUN (5) HEIKIN HANJUN NICHU HENKA (M-M)											
0 0	0.31	-2.52	-1.99	0.10	21.09	24.86	26.11	25.71	22.04	21.51	21.07
0 30	0.07	-2.86	-2.01	0.10	20.94	24.70	26.01	25.72	21.94	21.44	21.10
1 0	-0.41	-3.11	-2.05	0.11	20.83	24.67	25.91	25.72	21.95	21.23	20.99
1 30	0.34	-2.83	-2.04	0.10	20.61	24.42	25.81	25.72	21.78	21.15	20.74
2 0	0.11	-2.67	-2.01	0.11	20.47	24.27	25.71	25.72	21.84	20.98	20.73
2 30	-0.19	-2.50	-2.00	0.11	20.52	24.17	25.62	25.73	21.62	20.90	20.69
3 0	0.41	-2.96	-2.04	0.10	20.51	24.12	25.53	25.73	21.40	20.77	20.53
3 30	0.13	-2.67	-2.01	0.10	20.33	24.05	25.44	25.71	21.44	20.84	20.37
4 0	0.81	-1.86	-1.93	0.11	20.24	23.96	25.37	25.73	21.04	20.37	20.03
4 30	-0.44	-2.15	-1.93	0.11	20.13	23.84	25.29	25.73	20.98	20.50	19.84
5 0	1.36	-0.84	-1.80	0.11	20.22	23.77	25.21	25.73	20.81	20.25	19.94
5 30	6.69	1.70	-1.48	0.11	20.61	23.85	25.14	25.73	20.81	20.28	20.24
6 0	10.52	4.44	-1.15	0.11	21.51	24.02	25.08	25.74	21.14	20.57	20.75
6 30	14.90	7.35	-0.80	0.11	22.20	24.27	25.05	25.73	21.78	20.77	20.84
7 0	23.39	12.63	-0.18	0.11	22.90	24.57	25.05	25.73	21.49	21.02	21.04
7 30	28.68	16.33	0.29	0.10	23.60	24.97	25.04	25.73	21.51	20.98	21.09
8 0	31.56	18.95	0.58	0.10	24.34	25.39	25.11	25.73	21.53	20.92	21.15
8 30	38.00	23.71	1.17	0.10	25.05	25.83	25.20	25.73	21.70	21.13	21.30
9 0	38.14	24.87	1.30	0.10	25.47	26.29	25.31	25.72	21.42	20.90	21.21
9 30	40.26	27.10	1.59	0.09	27.02	26.68	25.43	25.72	21.38	20.93	21.21
10 0	44.43	30.12	1.97	0.09	27.86	27.15	25.57	25.71	20.91	20.49	20.84
10 30	44.05	30.28	1.97	0.09	26.05	27.61	25.73	25.71	20.22	19.82	20.20
11 0	50.16	34.38	2.46	0.09	26.81	28.13	25.92	25.71	19.93	19.45	19.94
11 30	50.41	35.08	2.54	0.09	26.87	28.85	26.12	25.70	19.46	19.10	19.53
12 0	45.77	31.32	2.14	0.10	28.15	29.62	26.36	25.69	19.46	19.05	19.49
12 30	42.09	28.73	1.84	0.09	28.24	30.17	26.61	25.69	19.51	19.17	19.49
13 0	42.15	28.71	1.83	0.08	28.25	30.49	26.87	25.69	19.52	19.09	19.53
13 30	37.55	25.27	1.43	0.09	28.11	30.62	27.09	25.68	19.15	18.86	19.57
14 0	36.70	24.45	1.32	0.09	28.21	30.34	27.28	25.67	19.34	19.08	19.45
14 30	35.03	21.33	0.94	0.09	28.17	30.01	27.41	25.67	19.29	19.06	19.40

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		I	R4	G1	G2	T1	ST1	ST2	ST3	TD1	TD2	TD3
NICHI HEIKIN (M=0)												
9	3	12.11	7.21	-0.23	0.0A	21.31	24.19	24.42	23.18	19.9A	10.5A	10.71
9	4	15.48	5.26	-1.2A	0.05	21.82	23.80	24.16	24.24	22.05	21.65	21.94
9	5	4.83	2.37	-1.58	0.02	19.13	21.05	22.70	24.65	18.10	17.88	18.27
9	6		9.27	-0.65	0.02	19.77	22.48	22.68	24.29	14.37	16.09	16.28
9	7	15.00	8.88	-0.73	0.02	20.24	21.89	22.52	24.00	13.81	13.69	13.98
HANJUN (S) HEIKIN			6.60	-1.03	0.03	20.45	22.84	23.25	24.61	18.12	17.77	18.04
HANJUN NICHI HENKA (H=H)												
0	0		-0.87	-1.92	0.01	19.05	22.03	23.30	24.75	18.47	18.14	18.23
0	30		-1.18	-1.95	0.04	19.08	22.02	23.22	24.74	18.46	17.98	18.03
1	0		-1.64	-2.00	0.04	19.01	21.99	23.16	24.73	18.17	17.65	17.59
1	30		-1.30	-1.99	0.03	18.51	21.91	23.10	24.73	18.04	17.48	17.39
2	0		-1.07	-1.97	0.04	18.08	21.77	23.04	24.73	18.14	17.65	17.42
2	30		-1.10	-1.96	0.03	18.04	21.68	22.98	24.73	18.14	17.65	17.42
3	0		-0.93	-1.9A	0.03	18.0A	21.62	22.91	24.72	18.02	17.60	17.57
3	30		-0.65	-1.95	0.04	18.10	21.62	22.85	24.72	17.90	17.60	17.61
4	0		-0.68	-1.93	0.04	18.10	21.61	22.81	24.71	17.64	17.43	17.65
4	30	1.87	-0.6A	-1.91	0.04	18.21	21.60	22.76	24.70	17.53	17.30	17.54
5	0	1.84	-0.23	-1.86	0.03	18.30	21.58	22.72	24.70	17.6A	17.19	17.56
5	30	1.57	1.01	-1.74	0.04	18.38	21.54	22.68	24.69	18.07	17.40	17.85
6	0	6.27	3.00	-1.51	0.04	18.65	21.59	22.65	24.69	18.32	17.81	18.14
6	30	5.84	4.15	-1.17	0.04	18.92	21.49	22.62	24.68	18.37	18.08	18.12
7	0	10.97	7.44	-1.01	0.04	19.27	21.81	22.61	24.67	18.74	18.42	18.69
7	30	16.42	10.42	-0.43	0.04	19.74	22.00	22.60	24.67	18.74	18.22	18.87
8	0	19.35	12.47	-0.41	0.04	20.30	22.23	22.62	24.66	18.63	18.21	18.81
8	30	27.11	18.42	0.25	0.04	20.8A	22.46	22.66	24.65	18.40	17.97	18.76
9	0	32.16	21.43	0.64	0.04	21.62	22.78	22.73	24.65	18.22	17.86	18.69
9	30	30.07	20.31	0.56	0.01	22.05	23.12	22.81	24.65	18.27	17.97	18.6A
10	0	37.09	25.08	1.17	0.04	22.72	23.45	22.90	24.64	18.45	18.13	18.61
10	30	32.57	22.45	0.86	0.03	22.72	23.78	23.02	24.64	18.60	18.17	18.53
11	0	37.09	26.24	1.12	0.04	23.07	24.09	23.14	24.63	18.75	18.26	18.65
11	30	40.95	29.10	1.6A	0.04	23.41	24.58	23.27	24.62	18.79	18.43	18.8A
12	0	36.25	25.06	1.20	0.03	23.79	25.01	23.42	24.62	18.59	18.28	18.73
12	30	33.77	23.38	1.02	0.04	23.9A	25.23	23.59	24.61	18.78	18.3A	18.91
13	0	27.99	19.12	0.54	0.04	23.91	25.37	23.75	24.60	18.45	18.17	18.7A
13	30	25.99	17.46	0.34	0.04	23.6A	25.22	23.88	24.59	17.90	17.53	18.35
14	0	26.84	17.99	0.41	0.03	23.77	25.04	23.97	24.58	17.95	17.54	18.44
14	30	25.59	16.72	0.28	0.04	23.60	24.90	24.04	24.58	18.00	17.8A	18.53
15	0	18.55	11.56	-0.3A	0.03	22.99	24.57	24.07	24.57	18.35	18.07	18.49
15	30	14.63	8.05	-0.79	0.03	22.65	24.28	24.07	24.56	18.40	18.04	18.35
16	0	9.42	4.51	-1.21	0.03	22.26	24.0A	24.05	24.55	18.13	17.84	18.00
16	30	4.88	1.00	-1.62	0.03	21.73	23.82	24.01	24.54	17.89	17.64	17.77
17	0	1.17	-1.18	-1.87	0.01	21.22	23.55	23.96	24.54	17.62	17.22	17.31
17	30	-0.69	-1.81	-1.97	0.03	20.75	23.27	23.89	24.53	17.22	17.0A	17.03
18	0	0.11	-1.50	-1.93	0.03	20.31	23.02	23.82	24.53	17.33	17.09	17.30
18	30	-0.37	-1.48	-1.94	0.03	19.96	22.83	23.73	24.52	17.60	17.38	17.52
19	0	0.59	-1.95	-2.01	0.03	19.73	22.6A	23.64	24.51	17.55	17.40	17.62
19	30	0.09	-1.73	-1.99	0.03	19.64	22.51	23.55	24.50	17.78	17.50	17.70
20	0	-0.07	-1.51	-1.99	0.03	19.57	22.41	23.4A	24.50	17.76	17.53	17.67
20	30	-0.51	-1.51	-1.98	0.04	19.42	22.31	23.39	24.49	18.05	17.62	17.70
21	0	0.18	-1.37	-1.9A	0.03	19.29	22.21	23.31	24.49	18.11	17.63	17.79
21	30	4.00	-1.20	-1.9A	0.03	19.34	22.11	23.24	24.48	18.00	17.61	17.74
22	0	1.47	-1.16	-1.98	0.03	19.24	22.02	23.17	24.48	18.10	17.65	17.70
22	30	2.23	-1.23	-1.97	0.03	19.08	21.89	23.10	24.47	18.08	17.60	17.69
23	0	1.16	-1.37	-2.01	0.03	18.80	21.75	23.02	24.47	17.80	17.38	17.49
23	30		-1.13	-1.97	0.03	18.71	21.64	22.93	24.46	17.68	17.33	17.34

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	D	U1	U41	U11	U2	U42	U3	U43	WT3
NACHI HEIKIN ( M-D )									
10 28	2.241	-0.01273	0.05909	1.565	-0.04392	4.018	-0.03957	-0.00405	
10 29	0.383	0.01111	0.04120	1.297	-0.01521	2.723	-0.01145	0.02179	
10 30	0.840	-0.00993	0.01950	1.606	-0.02989	2.460	-0.03574	0.00244	
10 31	0.809	-0.00739	0.00457	1.429	-0.02344	2.216	-0.02140	0.00044	
11 1	1.154	-0.01281	0.00977	1.867	-0.03015	2.754	-0.02999	0.00747	
HANJUN ( S ) HEIKIN									
HANJUN NACHI HENKA ( M-M )									
0 0	0.691	-0.00743	0.03745	1.271	-0.01578	2.472	-0.01864	0.01897	
0 10	0.843	-0.00472	0.03324	1.411	-0.01565	2.345	-0.02694	0.00334	
1 0	0.811	-0.01210	0.03571	1.380	-0.01812	2.376	-0.02501	0.00448	
1 30	0.747	-0.00546	0.04505	1.279	-0.02559	2.524	-0.02003	0.00532	
2 0	0.971	-0.00373	0.03287	1.459	-0.02444	2.460	-0.02522	0.01274	
2 30	0.875	-0.00467	0.02727	1.512	-0.02146	2.776	-0.02345	0.00698	
3 0	0.661	-0.00444	0.00355	1.068	-0.02485	2.063	-0.02913	0.00698	
3 30	0.679	-0.00379	-0.00025	1.157	-0.01815	2.404	-0.02019	0.00299	
4 0	1.057	-0.00907	-0.00465	1.798	-0.02530	2.570	-0.02409	0.00640	
4 10	1.051	-0.00582	-0.00308	1.761	-0.02008	2.973	-0.00850	0.00900	
5 0	1.056	-0.01133	-0.00218	1.892	-0.02125	3.154	-0.00984	-0.01228	
5 30	1.237	-0.01261	0.00512	1.912	-0.02315	3.260	-0.01791	-0.02248	
6 0	1.111	-0.01184	0.00286	1.881	-0.02470	3.023	-0.02524	-0.00846	
6 30	1.152	-0.00944	-0.00234	1.880	-0.01764	2.712	-0.01594	-0.00327	
7 0	1.131	-0.00745	-0.00012	1.770	-0.00723	2.657	-0.02304	0.00524	
7 30	1.452	-0.01488	0.00534	2.154	-0.03268	3.126	-0.02958	0.00163	
8 0	1.610	-0.01564	0.04236	2.321	-0.04974	3.025	-0.03273	0.03532	
8 30	1.517	-0.01010	0.04577	2.198	-0.04272	3.067	-0.04768	0.02134	
9 0	1.388	-0.00757	0.07088	1.981	-0.04416	2.780	-0.04816	0.02434	
9 30	1.408	-0.01569	0.06907	1.977	-0.04706	2.585	-0.05478	0.03164	
10 0	1.384	-0.01808	0.07509	1.981	-0.04314	2.674	-0.04742	0.02298	
10 30	1.322	-0.00933	0.08555	1.942	-0.03702	2.751	-0.04204	0.02077	
11 0	1.288	-0.01555	0.05789	1.906	-0.03903	2.500	-0.04471	0.02222	
11 30	1.430	-0.01612	0.06437	2.034	-0.03868	2.729	-0.03989	0.01743	
12 0	1.480	-0.01644	0.05882	2.168	-0.03122	2.734	-0.02130	0.01811	
12 30	1.373	-0.01755	0.03325	2.035	-0.03533	2.582	-0.02228	0.01476	
13 0	1.521	-0.01644	0.02332	2.273	-0.03767	2.844	-0.02228	0.00552	
13 30	1.434	-0.01742	0.01500	2.182	-0.03504	2.694	-0.02698	0.00085	
14 0	1.259	-0.01570	0.00913	1.923	-0.03467	2.511	-0.02972	-0.00151	
14 10	1.775	-0.02056	0.01307	2.617	-0.04575	3.366	-0.03504	0.00154	
15 0	1.828	-0.01626	0.01309	2.848	-0.04598	3.729	-0.03808	0.01101	
15 30	1.583	-0.00722	0.03131	2.474	-0.03706	3.305	-0.02868	-0.00338	
16 0	1.476	-0.01049	0.02453	2.498	-0.02496	3.449	-0.02244	0.00119	
16 30	1.114	-0.00481	0.08431	2.212	-0.01903	3.153	-0.01908	0.01179	
17 0	0.948	0.00374	0.07236	2.120	-0.02194	3.337	-0.01416	-0.00666	
17 30	0.879	0.00012	0.06387	1.978	-0.02138	3.240	-0.01506	-0.00577	
18 0	1.172	0.00649	0.07632	2.319	-0.02718	3.624	-0.01319	0.01355	
18 30	1.245	0.01150	0.05556	2.005	-0.02297	3.238	-0.01683	-0.00333	
19 0	1.172	-0.00308	0.02793	2.168	-0.01951	2.999	-0.01152	-0.00835	
19 30	1.352	0.00055	0.05267	2.398	-0.02588	3.555	-0.01677	-0.00083	
20 0	1.379	-0.01174	0.02528	2.541	-0.02466	3.584	-0.01818	-0.00014	
20 30	1.364	-0.00344	0.03238	2.340	-0.02061	3.497	-0.01824	-0.00372	
21 0	1.243	-0.00440	0.01425	2.106	-0.02594	3.194	-0.03115	0.00024	
21 30	0.846	-0.00614	0.02860	1.616	-0.02695	2.578	-0.02426	-0.00344	
22 0	0.907	-0.00024	0.01110	1.692	-0.02920	2.620	-0.03106	-0.00447	
22 30	0.703	-0.01062	0.00991	1.651	-0.02444	2.902	-0.02623	-0.00419	
23 0	0.872	-0.00860	0.00587	1.567	-0.02522	2.762	-0.02458	-0.00729	
23 10	0.907	-0.00340	0.01573	1.691	-0.02659	2.775	-0.01611	0.02460	

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	I	RM	G1	G2	T1	T2	T3	ST1	ST2	ST3	TD1	TD2	TD3
NACHI HEIKIN ( M-D )													
10 28	1.06	0.53	-1.29	0.00	14.31	14.31	14.51	15.29	15.89	16.75	12.33	12.14	12.13
10 29	1.61	0.78	-1.25	0.00	12.51	12.53	12.67	13.91	14.63	16.71	10.79	10.77	10.64
10 30	8.59	2.44	-1.14	-0.01	12.01	12.67	13.27	13.60	14.32	16.48	14.28	14.15	14.28
10 31	7.14	1.74	-1.25	-0.01	11.90	12.70	13.26	13.05	13.76	16.26	5.72	5.59	5.51
11 1	11.42	4.05	-0.90	-0.01	14.62	14.70	14.94	14.35	14.36	16.04	8.70	8.70	8.61
HANJUN ( S ) HEIKIN													
HANJUN NACHI HENKA ( M-M )													
0 0	-0.27	-2.19	-1.43	-0.00	12.32	12.69	13.24	13.45	14.63	16.51	8.47	8.57	8.29
0 10	0.12	-1.97	-1.60	-0.00	12.11	12.55	13.17	13.36	14.58	16.51	8.44	8.46	8.24
1 0	-0.08	-2.18	-1.62	-0.00	11.80	12.29	12.78	13.29	14.53	16.51	8.20	8.26	8.13
1 30	-0.05	-2.28	-1.63	-0.01	11.19	12.05	12.68	13.13	14.47	16.51	7.75	7.85	7.75
2 0	0.11	-1.97	-1.61	-0.00	10.65	11.86	12.68	12.96	14.41	16.51	7.30	7.30	7.42
2 30	0.06	-1.91	-1.40	-0.00	10.49	11.15	12.21	12.83	14.34	16.51	7.36	7.35	7.51
3 0	-0.31	-1.59	-1.58	-0.01	10.40	11.03	11.93	12.76	14.26	16.50	7.54	7.54	7.55
3 30	-0.19	-1.34	-1.53	-0.00	10.75	11.44	12.12	12.72	14.19	16.50	7.16	7.38	7.54
4 0	-0.05	-2.67	-1.59	-0.00	11.43	11.80	12.40	12.71	14.13	16.50	7.42	7.39	7.56
4 30	0.02	-2.20	-1.42	0.00	11.45	11.75	12.14	12.66	14.07	16.50	7.45	7.41	7.47
5 0	0.11	-2.02	-1.57	-0.00	11.49	11.92	12.24	12.61	14.02	16.50	7.87	7.82	7.74
5 30	0.45	-1.40	-1.52	0.00	11.28	11.82	12.49	12.59	13.97	16.50	8.14	8.05	8.00
6 0	0.87	-0.96	-1.48	0.00	11.11	11.36	12.32	12.60	13.93	16.50	8.03	7.95	8.05
6 30	1.87	-0.74	-1.45	-0.00	11.06	11.33	12.32	12.64	13.89	16.50	7.70	7.87	8.03
7 0	4.25	1.19	-1.23	-0.00	11.17	11.38	11.84	12.67	13.87	16.49	7.89	7.96	8.21
7 30	8.37	4.37	-0.86	-0.00	11.79	11.72	11.95	12.82	13.84	16.48	7.95	7.84	8.61
8 0	11.92	6.68	-0.58	-0.00	12.40	12.32	12.38	13.01	13.84	16.49	8.04	8.14	8.49
8 30	15.57	8.90	-0.32	-0.00	13.09	12.99	12.93	13.26	13.86	16.48	8.25	8.26	8.45
9 0	18.49	11.27	-0.04	-0.00	13.82	13.62	13.54	13.55	13.90	16.48	8.55	8.49	8.67
9 30	19.66	12.03	0.04	-0.00	14.30	14.05	13.99	13.90	13.96	16.48	8.53	8.40	8.58
10 0	22.15	13.84	0.25	-0.00	14.76	14.48	14.38	14.24	14.05	16.47	8.66	8.66	8.77
10 30	24.22	15.45	0.44	-0.00	15.23	14.94	14.86	14.67	14.16	16.47	8.70	8.64	8.69
11 0	25.25	15.80	0.48	-0.00	15.67	15.33	15.22	15.19	14.30	16.46	8.91	8.82	8.86
11 30	24.44	15.41	0.12	-0.00	15.96	15.63	15.52	15.71	14.46	16.46	8.82	8.67	8.80
12 0	21.11	13.11	0.16	-0.00	16.19	15.86	15.75	16.26	14.66	16.45	9.02	8.95	8.92
12 30	22.20	14.31	0.29	0.00	16.37	16.03	15.92	16.52	14.86	16.45	9.05	8.97	9.07
13 0	15.78	9.29	-0.23	-0.00	16.33	16.03	15.91	16.77	15.04	16.44	8.74	8.56	8.85
13 30	10.90	5.75	-0.70	-0.01	16.16	15.92	15.84	16.67	15.22	16.44	8.67	8.61	8.82
14 0	11.56	6.17	-0.47	-0.01	16.20	15.99	15.91	16.43	15.34	16.43	8.66	8.63	8.77
14 30	13.89	7.48	-0.53	-0.01	16.39	16.16	16.21	16.45	15.43	16.42	8.90	8.80	9.09
15 0	7.98	2.44	-1.10	-0.01	16.04	15.92							

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	D	U1	UW1	WT1	U2	UW2	U3	UW3	WT3
<b>NICHI HEIKIN (M-D)</b>									
11 2		1.157	-0.01275	0.00731	1.954	-0.03729	2.492	-0.03519	0.00478
11 3		0.596	-0.00345	0.01791	1.704	-0.01662	1.493	-0.01448	0.01381
11 4		0.759	-0.00701	0.01441	1.462	-0.01652	2.555	-0.02628	0.01310
11 5		0.741	-0.00644	0.01585	1.352	-0.01977	2.252	-0.03386	0.01577
11 6		0.690	-0.00724	0.01766	1.150	-0.01709	1.741	-0.02201	0.01669
<b>HANJUN (5) HEIKIN</b>									
<b>HANJUN NICHI HENKA (M-M)</b>									
0 0		0.504	-0.00110	-0.00655	1.189	-0.01860	2.229	-0.01773	0.00019
0 30		0.191	-0.00018	-0.00481	0.915	-0.01918	1.747	-0.01569	0.00369
1 0		0.565	-0.00274	-0.00755	1.331	-0.01629	2.279	-0.02214	0.00346
1 30		0.721	-0.00363	-0.00583	1.164	-0.02245	2.425	-0.02354	-0.00183
2 0		0.722	-0.00618	-0.00636	1.264	-0.01052	2.219	-0.01409	0.00253
2 30		0.907	-0.00928	-0.01145	1.485	-0.02954	2.524	-0.01692	-0.00180
3 0		0.722	-0.00641	-0.00524	1.437	-0.01676	2.261	-0.01453	0.00204
3 30		0.700	-0.00489	-0.00435	1.350	-0.01949	2.232	-0.02116	0.00359
4 0		0.544	-0.00370	-0.00456	1.148	-0.00932	2.085	-0.02622	0.00322
4 30		0.627	-0.00342	-0.00437	1.223	-0.00782	2.444	-0.03158	0.00643
5 0		0.511	-0.00164	-0.00291	0.986	-0.00738	1.904	-0.03352	0.00597
5 30		0.653	-0.00425	-0.00412	1.184	-0.00770	1.920	-0.03204	0.00720
6 0		0.560	-0.00352	-0.00285	1.214	-0.00947	2.196	-0.02967	0.00879
6 30		0.454	-0.00331	-0.00134	0.904	-0.00750	1.819	-0.02920	0.00752
7 0		0.758	-0.01217	0.00806	1.045	-0.02884	1.697	-0.03230	0.01067
7 30		0.923	-0.01788	0.02304	1.180	-0.04011	1.550	-0.04146	0.02070
8 0		1.085	-0.02041	0.03559	1.342	-0.04798	1.445	-0.03384	0.02167
8 30		1.044	-0.01729	0.04314	1.400	-0.05737	1.702	-0.05574	0.04545
9 0		1.254	-0.01960	0.05225	1.671	-0.06491	2.053	-0.06104	0.04233
9 30		1.143	-0.01914	0.06698	1.497	-0.06511	1.768	-0.05077	0.05315
10 0		1.204	-0.01434	0.06935	1.552	-0.02194	1.887	-0.04600	0.04604
10 30		1.098	-0.01722	0.07552	1.485	-0.02894	1.751	-0.05505	0.04549
11 0		1.197	-0.01814	0.07491	1.674	-0.03284	1.964	-0.04150	0.04775
11 30		1.011	-0.01330	0.07777	1.380	-0.03224	1.639	-0.03129	0.04800
12 0		1.135	-0.01714	0.07020	1.575	-0.04322	1.932	-0.04644	0.05251
12 30		1.170	-0.01272	0.06725	1.543	-0.03962	1.875	-0.03848	0.04274
13 0		1.173	-0.01710	0.06467	1.609	-0.03034	1.939	-0.02820	0.05211
13 30		1.352	-0.01299	0.06668	1.829	-0.03174	2.273	-0.02168	0.02756
14 0		1.282	-0.01700	0.06295	1.868	-0.04455	2.369	-0.04747	0.03121
14 30		1.410	-0.01982	0.07207	2.012	-0.04492	2.621	-0.04658	0.01998
15 0		1.295	-0.01353	0.01066	1.905	-0.04049	2.470	-0.03480	0.03557
15 30		1.210	-0.00954	-0.00139	1.917	-0.03229	2.501	-0.02809	-0.00429
16 0		0.937	-0.00664	-0.00856	1.710	-0.02750	2.184	-0.01958	-0.00730
16 30		0.637	-0.00093	-0.00591	1.564	-0.00410	2.510	-0.00244	-0.00272
17 0		0.404	-0.00221	-0.00712	1.674	-0.01880	2.759	-0.00304	-0.00342
17 30		0.565	-0.00198	-0.00603	1.379	-0.01500	2.527	-0.00332	-0.00460
18 0		0.432	-0.00097	-0.00331	1.409	-0.00960	2.817	-0.00299	-0.00646
18 30		0.435	-0.00197	-0.00410	1.421	-0.01112	2.910	-0.00794	-0.00332
19 0		0.484	-0.00388	-0.00410	1.305	-0.01229	2.716	-0.01306	-0.00590
19 30		0.430	-0.00160	-0.00315	1.141	-0.01064	2.333	-0.00792	-0.00592
20 0		0.496	-0.00206	-0.00404	1.405	-0.01082	2.767	-0.00729	-0.00549
20 30		0.537	-0.00220	-0.00355	1.347	-0.01147	2.442	-0.00758	-0.00421
21 0		0.456	-0.00154	-0.00582	1.281	-0.01117	2.881	-0.00308	-0.00511
21 30		0.519	-0.00194	-0.00713	1.283	-0.00440	2.801	-0.00554	-0.00220
22 0		0.441	-0.00145	-0.00444	1.184	-0.00620	2.433	-0.01620	-0.00181
22 30		0.595	-0.00352	-0.00514	1.312	-0.01079	2.544	-0.02162	-0.00116
23 0		0.428	-0.00035	-0.00391	1.093	-0.00632	2.213	-0.01224	0.00154
23 30		0.443	0.00011	-0.00277	1.125	-0.00069	2.208	-0.01906	0.00443

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	I	R4	G1	G2	T1	T2	T3	ST1	ST2	ST3	T01	T02	T03
<b>NICHI HEIKIN (M-D)</b>													
11 2	10.36	3.21	-1.04	-0.01	13.71	13.43	13.81	13.90	14.35	15.94	5.10	5.09	5.12
11 3	13.05	3.76	-1.14	-0.00	10.02	10.93	11.35	12.97	13.83	15.87	0.66	0.64	1.20
11 4	13.41	3.98	-1.16	-0.02	7.53	8.95	9.89	10.54	11.99	15.70	-2.90	-2.74	-2.61
11 5	12.58	4.10	-1.03	-0.04	9.49	10.33	11.17	10.67	11.53	15.32	2.22	2.13	1.47
11 6	12.46	5.08	-0.89	-0.05	10.46	11.82	12.65	11.27	11.86	14.96	4.34	4.12	3.73
<b>HANJUN (5) HEIKIN</b>													
<b>HANJUN NICHI HENKA (M-M)</b>													
0 0	0.02	-3.30	-1.96	-0.02	7.28	8.35	9.79	10.40	12.77	15.65	1.64	2.09	1.65
0 30	-0.09	-3.50	-1.98	-0.02	6.64	8.11	9.29	10.23	12.64	15.65	1.32	1.64	1.31
1 0	0.23	-3.67	-2.01	-0.02	6.65	7.87	9.11	10.05	12.52	15.65	0.98	1.03	1.14
1 30	-0.24	-3.80	-2.04	-0.02	6.47	7.43	8.53	9.91	12.40	15.64	0.91	0.90	0.79
2 0	-0.07	-3.67	-1.99	-0.02	6.30	7.27	8.49	9.79	12.28	15.64	0.71	0.63	0.51
2 30	0.04	-4.00	-2.06	-0.02	5.96	6.48	8.10	9.70	12.18	15.65	0.78	0.73	0.33
3 0	-0.02	-3.12	-1.96	-0.02	5.82	6.55	7.56	9.60	12.07	15.64	0.83	0.72	0.29
3 30	-0.08	-3.08	-1.94	-0.02	5.73	6.33	7.45	9.54	11.96	15.64	0.76	0.62	0.32
4 0	0.05	-3.63	-2.01	-0.02	5.38	6.25	7.24	9.47	11.88	15.64	0.49	0.46	0.28
4 30	-0.10	-4.14	-2.09	-0.02	5.06	5.98	7.01	9.31	11.80	15.63	0.44	0.30	0.05
5 0	-0.01	-4.13	-2.10	-0.02	4.53	5.69	6.52	9.13	11.71	15.64	0.45	0.25	-0.37
5 30	0.10	-3.45	-2.04	-0.01	4.15	5.40	6.43	8.94	11.61	15.63	0.12	0.13	-0.40
6 0	1.40	-2.19	-1.88	-0.02	4.44	5.38	6.19	8.82	11.51	15.63	0.36	0.29	-0.41
6 30	0.48	-0.72	-1.70	-0.02	5.03	5.47	6.02	8.75	11.41	15.63	0.61	0.68	1.14
7 0	13.81	2.55	-1.25	-0.02	6.48	6.42	6.55	6.84	11.32	15.63	1.04	1.32	1.80
7 30	21.26	7.97	-0.59	-0.02	6.13	7.97	7.82	9.09	11.25	15.62	1.79	1.92	2.18
8 0	27.77	12.76	-0.02	-0.02	9.70	9.57	9.33	9.45	11.22	15.61	2.19	2.10	2.37
8 30	33.84	17.18	0.52	-0.02	11.33	11.09	10.84	9.88	11.22	15.61	2.24	2.08	2.36
9 0	38.86	21.13	0.99	-0.02	12.77	12.47	12.25	10.42	11.27	15.61	2.10	1.92	2.14
9 30	43.19	24.32	1.39	-0.02	14.11	13.63	13.33	11.09	11.36	15.60	2.54	2.33	2.54
10 0	46.09	26.49	1.64	-0.02	15.14	14.48	14.40	11.89	11.52	15.60	2.32	2.18	2.29
10 30	46.33	26.93	1.73	-0.02	15.96	15.44	15.15	12.80	11.72	15.59	1.75	1.53	1.69
11 0	45.17	26.48	1.49	-0.02	16.34	15.82	15.55	13.02	11.99	15.58	1.47	1.20	1.42
11 30	43.87	26.04	1.63	-0.02	16.64	16.13	15.86	15.10	12.32	15.58	1.56	1.32	1.54
12 0	41.51	24.70	1.50	-0.03	17.05	16.57	16.30	16.22	12.71	15.57	1.53	1.47	1.71
12 30	38.86	22.82	1.26	-0.03	17.19	16.71	16.44	17.02	13.11	15.56	1.28	1.11	1.25
13 0	38.89	22.58	1.24	-0.03	17.47	17.00	16.77	17.51	13.50	15.56	1.25	1.07	1.25
13 30	31.83	17.18	0.59	-0.03	17.27	16.83	16.79	17.53	13.86	15.55	1.72	1.66	1.77
14 0	27.99	13.95	0.22	-0.02	17.42	17.03	16.96	17.32	14.14	15.54	1.73	1.71	1.87
14 30	21.59	9.10	-0.36	-0.03	17.17	16.87	16.93	17.03	14.35	15.54	1.59	1.59	1.83
15 0	14.17	2.81	-1.11	-0.03	16.80	16.40	16.75	16.49	14.49	15.53	1.		

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NICHI HEIKIN (M-D)

	D	U1	UW1	UT1	U2	UW2	U3	UW3	UT3
11 7	0.609	-0.00498	0.00983	1.128	-0.01482	1.808	-0.01574	0.00844	0.00589
11 8	1.000	-0.01053	0.00791	1.594	-0.02862	2.315	-0.02511	0.00569	0.00609
11 9	1.311	-0.01875	0.01430	2.045	-0.03137	2.601	-0.03366	0.00609	0.00704
11 10	0.822	-0.00694	0.00693	1.517	-0.02026	2.154	-0.01798	0.00704	0.00745
11 11	0.496	-0.00726	0.00898	1.071	-0.01903	1.799	-0.03291	0.00745	

HANJUN (S) HEIKIN

HANJUN NICHI HEIKIN (M-D)

	D	U1	UW1	UT1	U2	UW2	U3	UW3	UT3
0 0	0.444	-0.00148	-0.00190	0.879	-0.00190	1.725	-0.02322	0.00604	0.00275
0 30	0.549	-0.00230	-0.00254	0.950	-0.00597	1.807	-0.02140	0.00275	0.00437
1 0	0.375	-0.00359	-0.00291	1.073	-0.00957	1.468	-0.01813	0.00558	0.00558
1 30	0.472	-0.00276	-0.00150	0.872	-0.00849	1.701	-0.01978	0.00457	0.00254
2 0	0.526	-0.00280	-0.00134	1.008	-0.00742	1.679	-0.02165	0.00254	0.00254
2 30	0.449	-0.00097	-0.00134	0.923	-0.01331	1.712	-0.01419	0.00254	0.00815
3 0	0.412	-0.00122	-0.00067	0.874	-0.00721	1.583	-0.01009	0.00275	0.00275
3 30	0.500	-0.00132	-0.00057	1.119	-0.00561	1.818	-0.00954	0.00275	0.00275
4 0	0.517	-0.00178	-0.00242	1.018	-0.00676	1.525	-0.01019	0.00275	0.00275
4 30	0.519	-0.00216	-0.00178	1.048	-0.00628	1.464	-0.00735	0.00275	0.00275
5 0	0.547	-0.00218	-0.00280	1.128	-0.01330	1.939	-0.00710	0.00275	0.00275
5 30	0.395	-0.00125	-0.00100	0.926	-0.00572	1.827	-0.00576	0.00275	0.00275
6 0	0.407	-0.00034	-0.00017	1.003	-0.00324	1.806	-0.00259	0.00275	0.00275
6 30	0.472	-0.00208	-0.00020	0.931	-0.01309	1.792	-0.00897	0.00275	0.00275
7 0	0.485	-0.00442	0.00475	0.730	-0.01461	1.368	-0.01242	0.00545	0.00760
7 30	0.527	-0.00564	0.01188	0.764	-0.01098	1.084	-0.01822	0.00545	0.00760
8 0	0.806	-0.00888	0.02069	0.880	-0.02270	0.985	-0.02267	0.01573	0.01573
8 30	0.950	-0.01385	0.03280	0.991	-0.03775	1.167	-0.03134	0.03759	0.03759
9 0	0.947	-0.01178	0.04277	1.191	-0.04932	1.328	-0.04810	0.03524	0.03524
9 30	1.060	-0.01908	0.04609	1.318	-0.06176	1.595	-0.05121	0.04441	0.04441
10 0	1.276	-0.02229	0.05419	1.605	-0.04674	1.892	-0.04354	0.03962	0.03962
10 30	1.259	-0.02333	0.05818	1.670	-0.04074	2.057	-0.04829	0.04068	0.04068
11 0	1.262	-0.02305	0.05565	1.732	-0.03878	2.250	-0.03310	0.03355	0.03355
11 30	1.431	-0.02090	0.05427	1.945	-0.04525	2.456	-0.04732	0.03759	0.03759
12 0	1.507	-0.01941	0.04860	2.092	-0.03981	2.739	-0.04461	0.03332	0.03332
12 30	1.551	-0.02520	0.03380	2.176	-0.04503	3.022	-0.05304	0.03453	0.03453
13 0	1.642	-0.02151	0.03458	2.288	-0.03961	3.158	-0.04350	0.04281	0.04281
13 30	1.732	-0.02335	0.02829	2.444	-0.04496	3.469	-0.05960	0.03772	0.03772
14 0	1.760	-0.02253	0.01981	2.512	-0.04047	3.604	-0.06251	0.02968	0.02968
14 30	1.677	-0.02579	0.01451	2.482	-0.04827	3.542	-0.07085	0.03205	0.03205
15 0	1.708	-0.02053	0.00850	2.506	-0.04438	3.613	-0.05944	0.02781	0.02781
15 30	1.626	-0.02001	0.00320	2.514	-0.03710	3.768	-0.06411	0.02014	0.02014
16 0	1.573	-0.02135	-0.00040	2.581	-0.03240	3.959	-0.03881	0.01884	0.01884
16 30	1.311	-0.01525	-0.00585	2.265	-0.03412	3.766	-0.03011	0.01484	0.01484
17 0	1.153	-0.01172	-0.00724	2.172	-0.03140	3.598	-0.03588	0.00832	0.00832
17 30	1.148	-0.01309	-0.00859	2.070	-0.02677	3.601	-0.03458	0.00375	0.00375
18 0	1.061	-0.01431	-0.01016	2.035	-0.02357	3.274	-0.03140	-0.00242	-0.00242
18 30	0.921	-0.00902	-0.01068	1.905	-0.02485	2.690	-0.01654	-0.00514	-0.00514
19 0	0.715	-0.00495	-0.00809	1.529	-0.01904	2.782	-0.01885	-0.00237	-0.00237
19 30	0.751	-0.00361	-0.00914	1.645	-0.01720	2.889	-0.02056	0.00048	0.00048
20 0	0.785	-0.00611	-0.00480	1.247	-0.01102	2.293	-0.00957	-0.00123	-0.00123
20 30	0.567	-0.00160	-0.00480	1.118	-0.00884	2.043	-0.01530	0.00445	0.00445
21 0	0.525	-0.00170	-0.00339	1.247	-0.01102	2.187	-0.01424	0.00430	0.00430
21 30	0.193	-0.00004	-0.00220	1.095	-0.01106	2.316	-0.01742	0.00192	0.00192
22 0	0.409	-0.00188	-0.00368	1.060	-0.01744	2.371	-0.01580	0.00401	0.00401
22 30	0.461	-0.00292	-0.00210	1.086	-0.01148	1.875	-0.02496	0.00915	0.00915
23 0	0.589	-0.00288	-0.00135	0.938	-0.00358	1.593	-0.01040	0.00742	0.00742
23 30	0.469	-0.00212	-0.00175	0.940	-0.00392				

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NICHI HEIKIN (M-D)

	I	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	TD1	TD2	TD3
11 7	8.15	3.92	-0.97	-0.04	11.89	12.35	12.81	11.66	11.98	14.73	7.27	6.97	6.60
11 8	8.99	3.02	-0.98	-0.03	14.06	14.18	14.43	14.08	13.82	14.61	7.30	7.10	7.16
11 9	11.58	2.49	-1.13	-0.01	12.44	12.91	13.61	12.43	13.15	14.71	0.83	0.80	0.98
11 10	8.80	1.85	-1.31	-0.01	7.46	8.72	9.43	9.92	11.29	14.69	-1.73	-1.66	-1.47
11 11	5.90	1.54	-1.06	-0.03	8.90	9.27	9.69	10.51	11.40	14.43	1.92	1.86	1.79

HANJUN (S) HEIKIN

HANJUN NICHI HEIKIN (M-D)

	D	U1	UW1	UT1	U2	UW2	U3	UW3	UT3
0 0	0.06	-3.23	-1.81	-0.02	7.91	9.44	10.13	10.48	12.27
0 30	-0.03	-3.21	-1.81	-0.03	7.54	8.93	10.04	10.28	12.18
1 0	0.00	-2.83	-1.77	-0.03	7.38	8.42	9.50	10.12	12.09
1 30	0.07	-2.88	-1.78	-0.02	7.03	8.07	8.87	9.99	12.00
2 0	-0.14	-3.04	-1.79	-0.02	6.97	7.96	8.72	9.85	11.90
2 30	-0.05	-2.79	-1.77	-0.03	6.67	7.51	8.48	9.73	11.81
3 0	-0.03	-2.45	-1.74	-0.02	6.43	7.48	8.35	9.64	11.72
3 30	-0.17	-2.36	-1.73	-0.03	6.37	7.46	8.38	9.55	11.63
4 0	-0.07	-2.56	-1.76	-0.02	6.36	7.22	7.87	9.48	11.55
4 30	-0.09	-2.85	-1.79	-0.03	6.13	6.98	7.71	9.38	11.47
5 0	-0.02	-2.69	-1.75	-0.03	5.94	6.79	7.66	9.26	11.39
5 30	-0.19	-2.64	-1.77	-0.02	5.65	6.43	7.61	9.17	11.32
6 0	0.53	-1.97	-1.69	-0.02	5.53	6.70	7.67	9.05	11.24
6 30	4.53	-0.42	-1.47	-0.02	5.98	6.71	7.70	9.04	11.17
7 0	9.06	1.65	-1.23	-0.02	6.95	7.05	7.94	9.14	11.11
7 30	14.22	3.73	-0.72	-0.02	8.27	8.10	8.21	9.39	11.05
8 0	18.20	8.98	-0.33	-0.02	9.68	9.48	9.30	9.76	11.04
8 30	23.01	12.58	0.10	-0.02	11.05	10.78	10.54	10.26	11.03
9 0	29.33	16.37	0.54	-0.02	12.57	12.26	11.97	10.84	11.13
9 30	31.20	18.25	0.77	-0.03	13.85	13.51	13.26	11.51	11.24
10 0	32.29	18.80	0.85	-0.03	14.90	14.52	14.28	12.25	11.40
10 30	33.60	19.99	1.00	-0.02	15.65	15.29	15.11	12.94	11.61
11 0	34.47	20.95	1.10	-0.03	16.34	16.04	15.83	13.82	11.85
11 30	34.02	20.70	1.09	-0.02	16.94	16.56	16.34	14.61	12.13
12 0	30.28	17.86	0.74	-0.03	17.18	16.85	16.70	15.31	12.44
12 30	24.77	14.16	0.30	-0.03	17.20	16.88	16.78	15.64	12.75
13 0	22.10	13.84	0.49	-0.03	17.34	17.01	16.75	15.77	13.03
13 30	22.10	11.49	-0.00	-0.04	17.35	17.04	16.92	15.82	13.27
14 0	18.23	8.81	-0.32	-0.02	17.19	16.99	16.97	15.62	13.46
14 30	13.59	5.52	-0.71	-0.03	16.69	16.58	16.57	15.33	13.61
15 0	10.17	1.99	-1.14	-0.03	16.28	16.23	16.27	15.00	13.70
15 30	5.19	-0.94	-1.46	-0.03	15.50	15.43	15.71	14.56	13.74
16 0	1.59	-3.69	-1.82	-0.03	14.97	14.99	15.16	14.07	13.75
16 30	0.11	-4.68	-1.93	-0.03	13.77	14.22	14.51	13.59	13.70
17 0	-0.05	-4.59	-1.92	-0.03	13.04	13.59	13.96	13.15	13.63
17 30	-0.05	-4.47							

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	D	U1	U-1	WT1	U2	U-2	U3	U-3	WT3
NICHI HEIKIN (M-D)									
11 22		0.559	-0.00298	0.01504	1.055	-0.00887	1.691	-0.01745	0.01124
11 23		0.799	-0.00684	0.00681	1.417	-0.02460	2.162	-0.02055	0.00609
11 24		0.511	-0.00170	0.00589	0.944	-0.00975	1.662	-0.00752	0.00290
11 25		0.561	-0.00472	0.01252	1.083	-0.01135	2.017	-0.02570	0.01937
11 26		0.665	-0.00726	0.00986	1.065	-0.01654	1.717	-0.03367	0.01758
HANJUN (S) HEIKIN									
		0.619	-0.00456	0.01002	1.113	-0.01410	1.910	-0.02094	0.01184
HANJUN NICHI HENKA (M-M)									
0 0		0.278	0.00251	-0.00220	0.647	0.00220	1.281	-0.00811	0.00290
0 30		0.335	0.00126	-0.00123	0.938	0.00361	2.015	-0.01238	0.00512
1 0		0.368	0.00054	-0.00303	0.921	-0.00950	1.880	-0.00735	0.00105
1 30		0.408	0.00047	-0.00177	0.735	-0.00246	1.449	-0.01355	0.00185
2 0		0.182	-0.00020	-0.00209	0.828	-0.00046	1.389	-0.00765	0.00202
2 30		0.406	-0.00050	-0.00072	1.062	-0.00671	1.711	-0.01561	0.00194
3 0		0.399	-0.00042	-0.00251	0.974	-0.00453	1.644	-0.00531	0.00193
3 30		0.453	-0.00138	-0.00261	0.979	-0.00924	1.743	-0.00531	0.00275
4 0		0.508	-0.00333	-0.00159	0.992	-0.00638	1.864	-0.01237	0.00201
4 30		0.576	-0.00190	-0.00205	1.034	-0.00150	1.593	-0.01428	0.00012
5 0		0.598	-0.00515	-0.00299	1.075	-0.01122	1.956	-0.00371	0.00812
5 30		0.646	-0.00345	-0.00288	1.221	-0.00717	2.184	-0.00679	0.00935
6 0		0.575	-0.00298	-0.00310	1.101	-0.00761	1.719	-0.00823	0.01131
6 30		0.627	-0.00364	-0.00214	1.142	-0.00974	1.902	-0.02329	0.00622
7 0		0.556	-0.00544	-0.00119	0.950	-0.01019	1.515	-0.01515	0.00428
7 30		0.627	-0.00677	0.00617	0.888	-0.00567	1.328	-0.02664	0.01109
8 0		0.738	-0.01116	0.01614	0.905	-0.02381	1.348	-0.03526	0.01449
8 30		0.808	-0.01185	0.02504	0.931	-0.02228	1.203	-0.04268	0.03471
9 0		0.820	-0.00930	0.03496	0.914	-0.01621	1.010	-0.05576	0.04444
9 30		0.925	-0.01274	0.04365	1.041	-0.00901	1.127	-0.05792	0.05485
10 0		0.981	-0.01674	0.05276	1.103	-0.01236	1.235	-0.05020	0.06400
10 30		1.041	-0.01742	0.05269	1.208	-0.01116	1.412	-0.04478	0.05114
11 0		1.046	-0.01588	0.05557	1.239	-0.00852	1.585	-0.03593	0.05567
11 30		0.931	-0.01493	0.06028	1.144	-0.01637	1.549	-0.05277	0.05235
12 0		0.829	-0.01195	0.05763	0.995	-0.02580	1.165	-0.03244	0.03566
12 30		0.721	-0.00317	0.05362	0.860	-0.01664	1.029	-0.02805	0.03191
13 0		0.774	-0.00831	0.04387	0.991	-0.01923	1.256	-0.03505	0.03564
13 30		0.909	-0.00806	0.03504	1.149	-0.02617	1.404	-0.03900	0.02981
14 0		0.955	-0.00922	0.02602	1.259	-0.01354	1.545	-0.03990	0.02889
14 30		1.052	-0.00955	0.01446	1.450	-0.02991	1.911	-0.03731	0.01734
15 0		0.879	-0.00772	0.00278	1.369	-0.02328	2.005	-0.02360	0.00321
15 30		0.908	-0.00727	-0.00743	1.527	-0.02681	2.210	-0.02445	-0.00523
16 0		0.732	-0.00345	-0.00702	1.463	-0.01665	2.286	-0.01514	-0.00586
16 30		0.851	-0.00161	-0.00525	1.540	-0.01482	2.447	-0.01152	-0.00885
17 0		0.535	-0.00110	-0.00309	1.481	-0.01581	2.573	-0.00866	-0.00575
17 30		0.538	-0.00141	-0.00412	1.498	-0.01442	2.792	-0.01048	-0.00207
18 0		0.627	-0.00098	-0.00305	1.286	-0.01254	2.478	-0.00694	-0.00247
18 30		0.318	0.00047	-0.00188	1.249	-0.00723	2.489	-0.00200	-0.00210
19 0		0.338	0.00023	-0.00300	1.340	-0.00682	2.445	-0.00123	-0.00274
19 30		0.564	-0.00381	-0.00843	1.500	-0.01662	2.678	-0.00632	-0.00423
20 0		0.634	-0.00252	-0.00672	1.309	-0.02071	2.474	-0.01103	-0.00776
20 30		0.606	-0.00183	-0.00628	1.390	-0.01592	2.324	-0.00557	-0.00444
21 0		0.437	-0.00176	-0.00370	1.020	-0.00794	1.967	-0.00350	-0.00252
21 30		0.383	-0.00017	-0.00020	0.974	-0.00864	1.874	-0.00326	-0.00184
22 0		0.311	0.00013	-0.00049	0.961	-0.00561	1.653	-0.00113	-0.00021
22 30		0.341	0.00124	-0.00081	0.916	-0.00209	1.892	-0.00354	-0.00051
23 0		0.417	0.00297	-0.00003	0.877	0.00179	1.658	-0.00071	-0.00021
23 30		0.402	0.00032	-0.00199	0.960	-0.00588	1.777	-0.00685	-0.00123

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	I	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	TD1	TD2	TD3
NICHI HEIKIN (M-D)													
11 22	10.13	2.64	-0.70	-0.04	6.45	7.63	8.50	8.44	9.42	13.04	-1.21	-1.43	-1.89
11 23	7.07	2.33	-0.91	-0.05	8.45	8.84	9.36	8.51	9.14	12.72	0.95	0.79	0.79
11 24	5.95	-0.02	-1.14	-0.05	7.53	8.25	9.33	8.84	9.72	12.47	-0.84	-0.71	-0.76
11 25	10.44	2.98	-0.88	-0.05	5.02	6.13	7.30	6.00	8.19	12.33	-2.60	-2.85	-1.67
11 26	7.27	3.45	-0.75	-0.07	7.60	7.49	8.26	7.71	8.20	12.01	6.89	0.61	0.57
HANJUN (S) HEIKIN													
	8.17	2.28	-0.91	-0.05	7.01	7.89	8.65	8.08	8.94	12.52	-0.56	-0.66	-0.89
HANJUN NICHI HENKA (M-M)													
0 0	0.06	-2.80	-1.54	-0.05	2.63	4.92	6.95	6.30	8.28	12.44	-1.95	-1.98	-2.82
0 30	-0.09	-2.57	-1.52	-0.05	2.70	4.44	6.47	6.17	8.47	12.54	-2.05	-2.34	-2.21
1 0	0.05	-2.12	-1.48	-0.05	2.79	4.22	6.16	6.08	8.54	12.43	-1.19	-1.24	-2.59
1 30	0.02	-2.26	-1.50	-0.05	2.48	3.95	5.30	6.00	8.46	12.63	-1.11	-1.25	-2.86
2 0	-0.06	-2.17	-1.49	-0.05	2.21	3.50	5.17	5.89	8.36	12.62	-1.96	-2.06	-3.08
2 30	0.10	-1.54	-1.44	-0.05	2.10	2.99	4.19	5.80	8.27	12.62	-2.01	-2.22	-3.08
3 0	-0.17	-1.46	-1.41	-0.05	2.35	2.92	3.66	5.76	8.18	12.61	-2.03	-2.21	-2.79
3 30	0.05	-1.52	-1.42	-0.05	2.33	2.84	3.71	5.17	8.11	12.61	-2.20	-2.40	-2.49
4 0	0.17	-1.50	-1.43	-0.05	2.29	2.84	3.91	5.74	8.04	12.61	-2.27	-2.43	-2.71
4 30	0.02	-1.10	-1.37	-0.05	2.39	2.81	4.19	5.72	7.98	12.61	-2.44	-2.39	-2.43
5 0	0.10	-1.81	-1.47	-0.05	2.49	2.85	4.16	5.76	7.93	12.60	-2.54	-2.46	-2.49
5 30	-0.02	-1.93	-1.47	-0.05	2.30	2.76	4.43	5.71	7.88	12.60	-2.89	-2.61	-2.84
6 0	0.17	-1.27	-1.40	-0.05	2.24	2.69	4.11	5.65	7.83	12.59	-2.91	-2.83	-2.99
6 30	1.75	-0.27	-1.30	-0.05	2.50	2.95	4.22	5.68	7.79	12.59	-2.79	-2.76	-2.66
7 0	4.85	-1.37	-1.09	-0.05	2.87	3.08	3.75	5.77	7.74	12.58	-2.71	-2.61	-1.92
7 30	9.54	3.65	-0.81	-0.05	3.73	3.68	3.94	5.89	7.72	12.58	-2.20	-1.85	-1.23
8 0	16.59	7.99	-0.32	-0.05	4.94	4.79	4.85	6.15	7.72	12.57	-1.53	-1.15	-0.62
8 30	22.01	10.76	0.02	-0.05	6.67	6.48	6.40	6.51	7.72	12.57	-0.47	-0.27	-0.02
9 0	27.50	14.30	0.43	-0.05	8.23	7.94	7.71	6.94	7.72	12.56	0.29	0.22	0.38
9 30	27.93	14.48	0.47	-0.05	9.56	9.29	9.08	7.53	7.86	12.56	0.20	0.27	0.45
10 0	27.91	14.23	0.47	-0.05	10.60	10.11	10.07	8.18	7.99	12.55	0.15	0.14	0.24
10 30	31.32	17.13	0.81	-0.06	11.45	11.12	10.87	8.89	8.16	12.55	-0.04	-0.13	-0.06
11 0	32.29	17.52	0.87	-0.05	12.02	11.69	11.51	9.75	8.38	12.54	0.22	0.17	0.13
11 30	34.08	18.45	0.99	-0.05	12.53	12.14	11.89	10.75	8.63	12.54	0.10	-0.11	-0.20
12 0	33.17	17.36	0.88	-0.05	13.02	12.49	12.43	11.62	8.93	12.53	0.10	-0.21	-0.21
12 30	30.65	15.93	0.72	-0.05	13.49	13.19	12.89	12.32	9.26	12.52	0.21	-0.02	-0.08
13 0	26.74	13.46	0.44	-0.05	13.71	13.43	13.14	12.61	9.58	12.51	-0.38	-0.57	-0.55
13 30	22.38	10.48	0.10	-0.05	11.82	13.55	13.33	12.51	9.87	12.51	-0.50	-0.44	-0.46
14 0	18.24	7.31	-0.24	-0.05	13.94	13.69	13.45	12.29	10.09	12.49	-0.32	-0.58	-0.50
14 30	12.69	3.23	-0.71	-0.04	13.64	13.51	13.41	12.22	10.26				

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	D	U1	U41	U11	U2	U42	U3	U43	U13
NICHI HEIKIN (H-D)									
11 27	0.706	-0.00000	0.03058	1.128	-0.01026	1.586	-0.01810	0.05467	0.01564
11 28	0.952	-0.00850	0.00970	1.389	-0.02274	2.191	-0.02345	0.02967	0.02077
11 29	1.650	-0.02342	0.01323	2.602	-0.04982	4.056	-0.05544	0.00766	0.01539
11 30	0.713	-0.00289	0.00994	1.258	-0.01171	1.934	-0.01574	0.01539	0.01539
12 1	0.586	-0.00752	0.01258	1.265	-0.01169	2.014	-0.02183	0.01539	0.01539
HANJUN (S) HEIKIN	0.917	-0.00927	0.01522	1.528	-0.02146	2.356	-0.02692		
HANJUN NICHI HEIKI (H-M)									
0 0	0.904	-0.00970	-0.00194	1.441	-0.01711	2.500	-0.04176		
0 30	1.016	-0.01218	-0.00160	1.700	-0.02158	2.987	-0.03455		
1 0	0.953	-0.01644	-0.00300	1.678	-0.02721	3.037	-0.04595		
1 30	0.827	-0.01001	-0.00477	1.453	-0.01850	2.815	-0.04247		
2 0	1.020	-0.01040	-0.00273	1.693	-0.02560	2.887	-0.03826		
2 30	0.793	-0.00650	0.00062	1.241	-0.00907	2.122	-0.01121		
3 0	0.692	-0.00320	-0.00349	1.388	-0.00574	2.107	-0.02088		
3 30	0.563	-0.00103	-0.00104	1.161	0.00074	2.083	-0.00642		
4 0	0.660	-0.00142	0.00029	1.318	-0.00038	2.433	-0.00782		
4 30	0.635	-0.00135	-0.00154	1.128	-0.00543	2.252	-0.00378		
5 0	0.649	-0.00097	-0.00199	1.158	-0.00718	2.056	-0.01154		
5 30	0.900	-0.00204	-0.00184	1.503	-0.00968	2.217	-0.00608		
6 0	0.612	-0.00692	0.02443	1.324	-0.02187	2.345	-0.00518		
6 30	0.399	-0.00665	0.00145	0.868	-0.00812	1.630	-0.00727	0.02221	0.01068
7 0	0.481	-0.00256	0.01324	0.738	-0.00612	1.432	-0.00077	0.02299	0.02299
7 30	0.605	-0.00376	0.01264	0.829	-0.00668	1.274	-0.01231	0.00795	0.00795
8 0	0.828	-0.00659	0.01479	0.944	-0.01071	1.261	-0.02828	0.00742	0.00742
8 30	1.035	-0.01011	0.01857	1.253	-0.03184	1.505	-0.04689	0.01726	0.01726
9 0	1.089	-0.01717	0.03720	1.380	-0.03331	1.434	-0.04775	0.03916	0.03916
9 30	1.138	-0.02431	0.05673	1.585	-0.04574	1.917	-0.05636	0.04914	0.04914
10 0	1.227	-0.01684	0.05131	1.639	-0.04623	2.034	-0.05166	0.07414	0.07414
10 30	1.202	-0.01729	0.06990	1.597	-0.04679	1.958	-0.05712	0.07985	0.07985
11 0	1.149	-0.01722	0.05841	1.612	-0.03598	1.942	-0.05043	0.03409	0.03409
11 30	1.121	-0.00848	0.04670	1.440	-0.03348	1.704	-0.03834	0.03733	0.03733
12 0	1.075	-0.01056	0.04989	1.371	-0.03332	1.577	-0.03754	0.01381	0.01381
12 30	1.150	-0.00738	0.04239	1.485	-0.02172	1.676	-0.02032	0.05445	0.05445
13 0	1.142	-0.00400	0.04214	1.422	-0.02298	1.667	-0.02750	0.05178	0.05178
13 30	1.009	-0.01401	0.05715	1.356	-0.02723	1.686	-0.02644	0.03736	0.03736
14 0	1.113	-0.00520	0.03505	1.489	-0.02317	1.467	-0.03092	0.01673	0.01673
14 30	1.122	-0.00959	0.01427	1.610	-0.02718	2.140	-0.02688	0.02644	0.02644
15 0	1.255	-0.01029	0.00245	1.877	-0.03483	2.665	-0.03833	0.00513	0.00513
15 30	0.891	-0.00886	-0.00442	1.487	-0.02596	2.330	-0.03595	-0.03312	-0.03312
16 0	0.717	-0.00684	0.03437	1.383	-0.01374	2.149	-0.02004		
16 30	0.755	-0.00863	0.02078	1.862	-0.02108	2.808	-0.02961		
17 0	0.843	-0.01002	-0.00523	1.968	-0.02475	2.808	-0.02961		
17 30	0.581	-0.00596	-0.00025	1.657	-0.01994	2.354	-0.02100		
18 0	0.674	-0.00908	0.02197	1.447	-0.01937	2.401	-0.01725		
18 30	0.877	-0.00870	0.01509	1.740	-0.02154	2.761	-0.01721		
19 0	1.254	-0.01885	0.01394	2.207	-0.02106	3.481	-0.03440		
19 30	1.344	-0.02539	0.02024	2.226	-0.02102	3.879	-0.03235		
20 0	0.936	-0.01472	0.01977	1.784	-0.01958	3.006	-0.01792		
20 30	1.186	-0.01571	-0.00189	2.246	-0.03411	3.722	-0.01439		
21 0	0.680	-0.00506	-0.00437	1.545	-0.02688	2.825	-0.01120		
21 30	0.487	-0.00679	-0.00154	1.426	-0.01396	2.577	-0.01640		
22 0	0.942	-0.00706	-0.00388	1.880	-0.01499	3.025	-0.02059		
22 30	0.924	-0.00846	-0.00457	1.831	-0.02030	3.228	-0.04059		
23 0	1.164	-0.01112	-0.00421	1.988	-0.01792	3.274	-0.04571		
23 30	1.158	-0.01191	-0.00527	1.977	-0.02010	3.104	-0.04606		

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	I	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	T01	T02	T03
NICHI HEIKIN (H-D)													
11 27	1.52	1.03	-0.92	-0.06	10.42	10.42	10.43	9.83	9.87	11.77	8.25	8.15	8.10
11 28	6.65	2.23	-0.75	-0.03	11.21	11.37	11.45	11.19	11.12	11.74	5.98	5.97	8.04
11 29	10.68	0.05	-1.03	-0.01	7.81	8.48	8.97	7.99	9.27	11.92	7.45	7.09	6.59
11 30	10.42	2.15	-0.80	-0.03	7.85	9.02	9.68	8.11	8.78	11.81	-0.89	-0.82	-0.80
12 1	10.42	1.96	-0.85	-0.04	5.79	7.54	8.28	7.08	8.30	11.61	-2.91	-2.95	-2.80
HANJUN (S) HEIKIN	7.86	1.48	-0.87	-0.04	8.62	9.36	9.76	8.84	9.47	11.77	0.60	0.61	0.79
HANJUN NICHI HEIKI (H-M)													
0 0	-0.10	-2.92	-1.35	-0.04	7.78	8.45	8.81	8.35	9.58	11.80	0.94	0.93	0.82
0 30	0.09	-2.75	-1.34	-0.05	7.50	8.07	8.59	8.23	9.52	11.80	0.33	0.24	0.13
1 0	-0.22	-3.56	-1.43	-0.04	7.44	7.81	8.47	8.10	9.46	11.79	-0.19	-0.20	-0.21
1 30	-0.16	-3.49	-1.42	-0.04	6.88	7.61	8.25	7.95	9.40	11.79	-0.27	-0.18	-0.30
2 0	0.00	-3.25	-1.43	-0.04	6.49	7.47	8.03	7.80	9.33	11.80	-0.11	-0.13	-0.11
2 30	0.08	-2.98	-1.43	-0.04	5.63	7.19	7.70	7.65	9.26	11.79	0.21	0.27	0.16
3 0	-0.08	-3.02	-1.41	-0.04	5.33	6.99	7.56	7.50	9.09	11.80	0.17	0.12	0.26
3 30	-0.02	-2.95	-1.43	-0.04	5.10	6.52	7.25	7.37	9.09	11.80	0.05	0.02	0.08
4 0	0.21	-2.87	-1.42	-0.04	5.25	6.43	7.59	7.26	9.01	11.79	0.15	0.22	0.05
4 30	0.13	-2.77	-1.41	-0.03	4.90	6.31	7.40	7.12	8.93	11.80	0.33	0.39	0.07
5 0	-0.45	-2.88	-1.42	-0.04	4.64	5.98	6.87	7.02	8.76	11.80	-0.47	-0.34	-0.00
5 30	0.36	-2.38	-1.38	-0.04	4.48	5.68	6.45	6.92	8.67	11.80	-0.14	-0.00	-0.29
6 0	0.22	-2.31	-1.37	-0.04	4.41	5.32	6.18	6.82	8.70	11.80	-0.44	-0.39	-0.65
6 30	2.34	-1.34	-1.28	-0.03	4.01	5.31	6.09	6.72	8.63	11.79	-0.15	-0.07	-0.44
7 0	6.41	0.10	-1.10	-0.04	4.97	5.88	6.57	6.71	8.55	11.80	-0.07	0.12	1.33
7 30	10.87	2.55	-0.81	-0.04	6.50	6.47	6.58	6.84	8.49	11.79	0.00	0.63	1.66
8 0	14.79	5.49	-0.45	-0.03	7.57	7.41	7.23	7.06	8.44	11.80	0.61	0.70	1.49
8 30	18.71	8.39	-0.13	-0.04	8.62	8.39	8.16	7.36	8.44	11.79	0.85	0.71	1.22
9 0	22.06	10.92	0.17	-0.03	9.51	9.26	8.97	7.72	8.46	11.79	0.57	0.46	0.20
9 30	27.45	14.39	0.57	-0.03	10.29	10.04	9.79	8.15	8.52	11.80	0.33	0.38	0.74
10 0	31.63	17.07	0.89	-0.03	11.18	10.88	10.62	8.71	8.61	11.79	0.88	0.84	1.22
10 30	34.07	19.02	1.10	-0.03	11.90	11.55	11.24	9.45	8.73	11.79	1.24	1.10	1.43
11 0	32.20	18.05	1.01	-0.03	12.40	12.05	11.76	10.35	8.93	11.79	1.34	1.16	1.53
11 30	31.31	18.02	1.00	-0.04	12.89	12.47	12.17	11.23	9.17	11.79	1.64	1.36	1.69
12 0	31.21	17.62	0.98	-0.04	13.29	12.94	12.63	12.04	9.45	11.79	1.37	1.05	1.31
12 30	27.34	15.12	0.71	-0.04	13.55	13.27	12.97	12.46	9.74	11.78	1.01	0.74	0.87
13 0	24.89	13.22	0.49	-0.04	13.81	13.53	13.25	12.59	10.02	11.78	0.93	0.76	0.88
13 30	22.06	10.57	0.20	-0.04	13.93	13.65	13.44	12.45	10.25	11.78	0.69	0.60	0.75
14 0	17.30	7.07	-0.18	-0.04	14.06	13.80	13.65	12.26	10.42	11.77	0.51		

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NICHI HEIKIN (M-b)

	U1	UW1	WT1	U2	UW2	U3	UW3	WT3
12 7	0.452	-0.00251	0.01377	0.830	-0.00850	1.329	-0.01677	0.01470
12 8	0.734	-0.00594	0.01211	1.354	-0.02085	2.725	-0.02201	0.01345
12 9	0.612	-0.00435	0.01133	1.142	-0.01517	1.901	-0.02186	0.01164
12 10	0.623	-0.00237	-0.00011	1.161	-0.00789	1.735	-0.00861	-0.00162
12 11	1.247	-0.01176	0.01928	2.358	-0.03261	2.989	-0.01821	-0.00512

HANJUN (S) HEIKIN  
HANJUN NICHI HEIKIN (M-H)

	U1	UW1	WT1	U2	UW2	U3	UW3	WT3
0 0	0.440	0.00164	-0.00177	0.946	0.00320	1.208	-0.00654	0.00130
0 30	0.517	-0.00122	-0.00219	1.252	-0.01165	1.867	-0.01371	0.00324
1 0	0.385	0.00008	-0.00175	0.913	-0.00562	1.711	-0.01243	0.00359
1 30	0.570	-0.00001	-0.00253	1.052	-0.00394	1.654	-0.00692	0.00158
2 0	0.588	-0.00154	-0.00157	1.257	-0.01307	2.043	-0.00291	-0.00193
2 30	0.509	-0.00205	-0.00250	1.129	-0.01209	2.134	-0.00982	-0.00083
3 0	0.735	-0.00543	-0.00424	1.417	-0.01514	2.447	-0.00746	-0.00356
3 30	0.839	-0.00703	-0.00351	1.567	-0.02140	2.898	-0.00954	-0.00034
4 0	0.887	-0.00700	-0.00575	1.681	-0.02460	2.611	-0.02052	-0.00131
4 30	0.854	-0.00632	-0.00639	1.662	-0.01814	2.593	-0.01644	-0.00174
5 0	0.794	-0.00250	-0.00501	1.483	-0.01143	2.290	-0.01755	-0.00171
5 30	0.582	0.00033	-0.00222	1.131	-0.01122	1.641	-0.00785	-0.00219
6 0	0.651	-0.00071	-0.00272	1.239	-0.01583	2.029	-0.00730	-0.00114
6 30	0.665	0.00079	-0.00118	1.104	-0.00837	1.758	-0.00529	-0.00225
7 0	0.889	-0.00549	0.00654	1.547	-0.01886	2.227	-0.01602	-0.00264
7 30	0.825	-0.00978	0.04940	1.269	-0.02330	2.076	-0.02525	0.00631
8 0	1.035	-0.01283	0.05434	1.544	-0.02285	2.146	-0.01392	0.01470
8 30	1.023	-0.01489	0.05882	1.488	-0.03112	2.042	-0.04544	0.02186
9 0	1.150	-0.01328	0.06428	1.623	-0.03681	2.129	-0.04556	0.02045
9 30	1.057	-0.01423	0.04559	1.474	-0.03454	1.851	-0.04690	0.03177
10 0	1.249	-0.01762	0.04144	1.652	-0.04665	1.891	-0.04189	0.03187
10 30	1.355	-0.01956	0.04239	1.847	-0.05298	2.127	-0.04620	0.03755
11 0	1.449	-0.02447	0.04001	1.957	-0.05762	2.150	-0.04326	0.03590
11 30	1.391	-0.01733	0.03885	1.907	-0.04555	2.335	-0.05272	0.03052
12 0	1.258	-0.00937	0.04203	1.696	-0.02762	1.958	-0.03644	0.03293
12 30	1.267	-0.01559	0.04243	1.742	-0.03290	1.947	-0.02812	0.02788
13 0	1.244	-0.01340	0.03530	1.675	-0.03304	1.956	-0.03373	0.02017
13 30	1.052	-0.01137	0.03355	1.487	-0.01032	1.779	-0.03376	0.02030
14 0	1.151	-0.01079	0.01957	1.637	-0.02295	1.870	-0.03302	0.01701
14 30	0.941	-0.00674	0.01235	1.400	-0.02252	1.677	-0.02735	0.00662
15 0	1.122	-0.00801	0.00145	1.660	-0.03766	1.874	-0.03449	0.00125
15 30	0.695	-0.00190	-0.00501	1.126	-0.02142	1.393	-0.02048	-0.00519
16 0	0.651	0.00012	-0.00473	1.233	-0.01001	1.082	-0.01182	-0.00340
16 30	0.539	-0.00004	-0.00348	1.162	-0.01131	2.067	-0.00754	-0.00281
17 0	0.265	0.00112	-0.00059	0.903	-0.00095	1.868	-0.00644	-0.00287
17 30	0.322	0.00054	-0.00423	1.055	0.00378	1.655	-0.00445	-0.00525
18 0	0.213	0.00123	-0.00525	1.002	0.00514	1.644	0.00544	-0.00277
18 30	0.299	0.00197	-0.00012	1.154	0.00708	2.080	0.00620	-0.00206
19 0	0.383	0.00139	0.00036	0.950	0.00211	1.908	0.00180	-0.00231
19 30	0.389	0.00014	-0.00417	1.242	-0.00352	2.154	0.00098	-0.00200
20 0	0.299	0.00130	-0.00468	1.401	-0.00436	2.354	0.00513	0.00207
20 30	0.337	-0.00047	-0.00115	1.239	-0.00008	2.088	0.00110	-0.00233
21 0	0.423	-0.00167	-0.00168	1.072	-0.00166	2.189	-0.00374	0.00070
21 30	0.368	-0.00451	-0.00034	1.078	-0.00770	2.162	-0.00134	0.00329
22 0	0.352	-0.00079	-0.00171	1.102	-0.00693	2.352	-0.01230	0.00379
22 30	0.573	0.00122	-0.00207	0.780	-0.00254	2.097	-0.00381	0.00107
23 0	0.355	0.00098	-0.00347	0.773	0.00095	1.480	-0.00323	0.00121
23 30						1.178	-0.00807	0.00066

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NICHI HEIKIN (M-b)

	I	RH	G1	G2	T1	T2	T3	ST1	ST2	ST3	TD1	TD2	TD3
12 7	9.04	2.16	-0.78	-0.09	2.10	3.59	4.56	3.56	4.98	10.22	-5.77	-5.97	-4.67
12 8	9.17	2.29	-0.43	-0.10	5.05	6.64	8.35	4.63	5.44	9.83	-3.12	-3.13	-3.75
12 9	7.58	1.96	-0.59	-0.09	7.07	9.05	10.52	5.76	6.16	9.57	-0.79	-0.80	-1.02
12 10	2.63	0.45	-0.73	-0.08	8.45	9.23	10.36	6.03	6.42	9.47	5.21	4.70	4.19
12 11	4.09	0.17	-0.79	-0.06	4.93	5.60	5.93	6.68	7.45	9.46	-1.96	-1.82	-1.43

HANJUN (S) HEIKIN  
HANJUN NICHI HEIKIN (M-H)

	I	RH	G1	G2	T1	T2	T3	ST1	ST2	ST3	TD1	TD2	TD3
0 0	0.11	-1.89	-1.11	-0.04	2.68	4.85	7.49	3.96	5.85	9.79	-1.75	-1.91	-2.69
0 30	-0.02	-1.98	-1.10	-0.09	2.25	4.16	6.71	3.87	5.78	9.79	-2.21	-2.44	-3.59
1 0	-0.39	-1.81	-1.11	-0.09	1.90	3.93	6.08	3.82	5.71	9.79	-2.12	-2.38	-3.44
1 30	0.07	-1.71	-1.16	-0.08	1.52	3.24	5.07	3.76	5.66	9.78	-2.22	-2.59	-3.69
2 0	0.21	-1.84	-1.19	-0.08	1.37	2.44	3.99	3.70	5.60	9.78	-2.49	-2.96	-3.79
2 30	0.36	-1.82	-1.19	-0.08	1.21	2.11	3.70	3.64	5.55	9.77	-2.45	-3.21	-3.98
3 0	-0.07	-1.77	-1.17	-0.08	0.90	1.45	2.90	3.59	5.49	9.77	-3.27	-3.75	-4.48
3 30	-0.21	-1.47	-1.17	-0.08	0.64	1.54	3.04	3.53	5.44	9.77	-3.47	-4.01	-4.83
4 0	0.06	-1.29	-1.14	-0.08	0.82	1.44	3.12	3.49	5.39	9.77	-3.57	-4.15	-4.59
4 30	0.16	-1.27	-1.12	-0.08	1.01	1.52	3.11	3.47	5.34	9.77	-3.44	-4.24	-4.38
5 0	0.10	-1.12	-1.14	-0.08	0.99	1.48	3.92	3.46	5.30	9.76	-3.46	-4.07	-4.25
5 30	0.24	-1.08	-1.11	-0.09	0.66	1.32	3.00	3.43	5.26	9.76	-3.59	-4.14	-4.50
6 0	-0.13	-0.88	-1.07	-0.08	0.75	1.24	2.35	3.42	5.22	9.76	-3.68	-4.00	-4.18
6 30	0.81	-0.47	-1.02	-0.08	0.60	1.37	2.37	3.48	5.19	9.76	-3.91	-4.03	-4.25
7 0	3.01	0.55	-0.49	-0.08	1.30	1.54	2.52	3.52	5.16	9.75	-3.85	-3.78	-3.41
7 30	6.91	2.43	-0.48	-0.08	2.09	2.06	3.06	3.49	5.14	9.75	-3.44	-3.29	-2.69
8 0	10.06	4.28	-0.43	-0.08	2.88	2.79	3.06	3.49	5.14	9.75	-3.39	-3.19	-2.82
8 30	13.23	5.92	-0.25	-0.07	3.80	3.64	3.84	3.86	5.13	9.74	-2.84	-2.80	-2.48
9 0	18.47	8.77	0.08	-0.08	4.98	4.76	4.70	4.10	5.15	9.74	-2.27	-2.33	-2.04
9 30	24.61	12.42	0.51	-0.09	6.41	6.11	6.00	4.48	5.19	9.74	-1.55	-1.55	-1.57
10 0	24.42	12.52	0.51	-0.09	7.86	7.53	7.37	5.03	5.25	9.73	-1.04	-1.14	-1.11
10 30	23.97	12.26	0.53	-0.08	8.92	8.55	8.45	5.68	5.37	9.73	-0.73	-0.81	-0.83
11 0	24.38	12.57	0.59	-0.08	9.91	9.54	9.50	6.41	5.52	9.72	-0.55	-0.52	-0.55
11 30	27.30	14.69	0.86	-0.08	10.96	10.56	10.51	7.20	5.72	9.72	-0.47	-0.42	-0.32
12 0	27.38	14.73	0.86	-0.08	11.80	11.42	11.33	8.02	5.96	9.71	-0.19	-0.25	-0.13
12 30	25.97	13.48	0.71	-0.09	12.51	12.14	12.07	8.64	6.22	9.71	-0.16	-0.32	-0.03
13 0	22.51	10.78	0.40	-0.09	12.90	12.58	12.47	8.87	6.49	9.70	0.21	0.07	0.23
13 30	19.05	8.24	0.12	-0.08	13.10	12.89	12.85	9.02	6.75	9.70	0.50	0.32	0.52
14 0	15.86	5.75	-0.12	-0.07	13.22	12.96	13.05	8.97	6.96	9.70	0.77	0.74	0.71
14 30	12.15	2.97	-0.40	-0.08	13.22	13.14	13.29	8.86	7.13	9.69	1.06	0.98	0.82
15 0	7.94	-0.46	-0.76	-0.08	13.42	13.39	13.50	8.65	7.27	9.69	0.95	1.06	1.06
15 30	3.44	-2.73	-1.05	-0.08	13.20	13.11	13.27						

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	U1	UW1	WT1	U2	UW2	U3	UW3	WT3
NICHI HEIKIN (M-O)								
12 12	0.512	-0.00483	0.01224	0.972	-0.01096	1.127	-0.01254	0.01114
12 13	0.542	-0.00421	0.01224	0.973	-0.01174	1.475	-0.01810	0.01422
12 14	0.717	-0.00751	0.01992	1.175	-0.02137	1.079	-0.02194	0.01115
12 15	0.613	-0.00659	0.01846	1.204	-0.02064	1.250	-0.02678	0.02021
12 16	0.492	-0.00212	0.02031	0.916	-0.01203	1.548	-0.01601	0.01250
HANJUN (S) HEIKIN (H-M)	0.575	-0.00427		1.048	-0.01405	1.622	-0.01591	0.01033
HANJUN NICHI HENKA (H-M)								
0 0	0.375	0.00144	-0.00032	1.081	-0.00150	1.801	-0.00272	0.00198
0 30	0.303	0.00194	-0.00179	0.926	-0.00061	1.762	-0.00399	0.00327
1 0	0.322	0.00110	-0.00108	1.046	0.00192	1.784	-0.00031	0.00345
1 30	0.588	-0.00136	-0.00208	1.213	-0.01058	1.932	-0.00529	-0.00075
2 0	0.403	0.00004	-0.00136	0.879	-0.00572	1.713	-0.00453	0.00012
2 30	0.419	-0.00037	-0.00176	0.915	-0.00501	1.650	-0.00114	0.00220
3 0	0.597	-0.00165	0.00103	1.091	-0.01361	1.634	-0.00899	0.00374
3 30	0.573	-0.00409	-0.00081	1.303	-0.02102	2.154	-0.01244	-0.00217
4 0	0.489	-0.00144	0.00043	0.876	-0.00758	1.564	-0.001125	0.00212
4 30	0.428	-0.00254	-0.00120	1.015	-0.00540	1.400	-0.00200	0.00224
5 0	0.348	0.00038	-0.00037	0.911	-0.00321	1.452	-0.00763	0.00110
5 30	0.362	0.00246	-0.00099	0.921	-0.00288	1.657	-0.00205	0.00226
6 0	0.425	-0.00071	-0.00076	0.986	0.00004	1.725	-0.001048	0.01287
6 30	0.507	-0.00138	-0.00076	1.168	-0.01311	2.147	-0.003182	0.00778
7 0	0.584	-0.00042	0.00036	1.021	-0.01602	1.763	-0.01526	0.00586
7 30	0.699	-0.00810	0.00368	1.165	-0.02366	1.652	-0.01679	-0.00077
8 0	0.749	-0.01498		1.085	-0.02380	1.724	-0.02068	0.01335
8 30	0.939	-0.02584		1.247	-0.04249	1.705	-0.02861	0.01381
9 0	0.970	-0.01611		1.192	-0.04380	1.425	-0.01607	0.02540
9 30	0.986	-0.01383	0.03567	1.194	-0.03926	1.443	-0.04935	0.03445
10 0	1.213	-0.01876	0.04224	1.497	-0.05151	1.787	-0.04975	0.04027
10 30	1.220	-0.02228	0.05273	1.462	-0.05732	1.743	-0.06070	0.05410
11 0	1.115	-0.02132	0.05571	1.372	-0.05371	1.596	-0.05614	0.04522
11 30	0.964	-0.01811	0.05524	1.179	-0.03562	1.305	-0.04337	0.04762
12 0	0.906	-0.01572	0.05487	1.123	-0.03311	1.580	-0.03405	0.03772
12 30	0.882	-0.00555	0.05246	1.021	-0.03004	1.188	-0.02629	0.03478
13 0	0.940	-0.00734	0.04435	1.154	-0.02462	1.366	-0.02845	0.03243
13 30	0.946	-0.01087	0.03340	1.207	-0.02972	1.481	-0.03656	0.02319
14 0	1.216	-0.01059	0.02409	1.555	-0.03981	1.886	-0.03578	0.01937
14 30	0.983	-0.00499	0.01144	1.216	-0.03119	1.524	-0.02967	0.00810
15 0	0.753	-0.00336	0.00160	1.072	-0.01574	1.378	-0.02080	-0.00050
15 30	0.529	0.00021	-0.00116	0.966	-0.00650	1.447	-0.00817	-0.00001
16 0	0.538	0.00050	0.00077	0.949	-0.00128	1.564	-0.00515	-0.00034
16 30	0.279	0.00125	0.00011	0.781	0.00017	1.449	0.00164	0.00298
17 0	0.272	0.00108	-0.00001	0.717	-0.00063	1.525	0.00087	0.00155
17 30	0.259	0.00148	0.00014	0.588	0.00053	1.084	0.00115	0.00033
18 0	0.278	0.00089	-0.00149	0.856	-0.00064	1.245	-0.00023	-0.00031
18 30	0.357	0.00163	-0.00008	0.899	0.00051	1.636	0.00144	0.00105
19 0	0.279	0.00078	-0.00290	0.601	0.00093	1.386	0.00187	0.00012
19 30	0.258	0.00138	-0.00174	0.975	0.00080	1.499	0.00047	-0.00050
20 0	0.326	0.00096	-0.00109	0.992	-0.00092	1.813	-0.00098	0.00021
20 30	0.519	0.00154	-0.00042	0.705	0.00178	1.536	-0.00681	-0.00203
21 0	0.330	0.00128	-0.00070	1.036	0.00050	1.444	-0.00881	0.00014
21 30	0.169	0.00044	-0.00161	1.142	-0.00185	1.457	-0.001679	0.00044
22 0	0.347	0.00210	0.00035	1.092	-0.00086	1.593	-0.00738	0.00016
22 30	0.286	0.00194	0.00047	0.878	-0.00003	1.389	-0.00497	-0.00004
23 0	0.295	0.00211	-0.00166	1.001	0.00070	1.643	-0.00064	0.00054
23 30	0.407	0.00248	-0.00010	1.041	0.00050	1.961	-0.00064	0.00056

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	I	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	TD1	TD2	TD3
NICHI HEIKIN (M-O)													
12 12	10.14	3.07	-0.58	-0.05	1.32	3.51	4.84	3.50	5.08	9.48	-8.14	-7.73	-8.07
12 13	8.62	2.75	-0.58	-0.08	2.81	4.07	5.05	3.55	4.61	9.20	-4.74	-4.35	-4.77
12 14	5.61	1.73	-0.58	-0.08	6.11	7.37	8.30	5.28	5.68	8.91	-0.50	0.59	-1.16
12 15	4.43	0.88	-0.68	-0.07	5.66	6.99	8.15	4.96	5.71	8.81	0.57	0.27	-0.38
12 16	8.42	2.71	-0.46	-0.07	4.81	6.58	7.84	4.63	5.79	8.74	-0.61	0.87	-2.16
HANJUN (S) HEIKIN (H-M)	7.44	2.23	-0.58	-0.07	4.16	5.71	6.84	4.38	5.29	9.03	-2.58	-2.66	-3.31
HANJUN NICHI HENKA (H-M)													
0 0	-0.04	-1.32	-1.04	-0.07	0.31	2.49	4.68	2.99	5.25	9.10	-3.57	-4.07	-5.47
0 30	-0.01	-1.22	-1.01	-0.07	-0.14	2.05	4.12	2.87	5.14	9.09	-3.93	-4.22	-5.67
1 0	0.07	-1.01	-1.02	-0.07	-0.43	1.81	4.03	2.75	5.05	9.09	-3.45	-4.33	-6.08
1 30	0.02	-1.07	-1.02	-0.07	-0.22	1.47	3.24	2.64	4.95	9.09	-3.99	-4.56	-5.84
2 0	0.26	-0.75	-1.01	-0.07	-0.57	1.16	2.32	2.58	4.87	9.09	-4.12	-4.74	-6.13
2 30	0.15	-0.77	-0.97	-0.07	-0.56	1.44	3.09	2.52	4.78	9.09	-3.93	-4.58	-6.22
3 0	-0.08	-0.81	-1.00	-0.07	-0.66	1.15	2.75	2.49	4.71	9.07	-4.53	-4.70	-6.29
3 30	0.08	-0.95	-1.00	-0.07	-0.79	0.56	2.39	2.44	4.64	9.08	-4.60	-5.10	-6.66
4 0	-0.26	-0.65	-1.02	-0.07	-1.07	0.48	1.90	2.40	4.58	9.08	-4.87	-5.29	-7.11
4 30	0.01	-0.95	-1.03	-0.07	-1.21	0.17	1.63	2.35	4.52	9.08	-5.02	-5.61	-7.45
5 0	-0.10	-0.87	-1.03	-0.07	-1.37	0.05	1.55	2.30	4.46	9.08	-5.02	-5.81	-7.82
5 30	0.27	-0.92	-1.04	-0.07	-1.51	-0.05	1.96	2.25	4.40	9.08	-4.84	-5.90	-7.91
6 0	-0.03	-0.74	-1.01	-0.07	-1.55	-0.35	1.68	2.23	4.35	9.07	-5.47	-6.16	-7.74
6 30	0.85	-0.95	-0.93	-0.06	-1.33	-0.23	1.55	2.23	4.30	9.07	-5.77	-5.88	-7.58
7 0	4.99	1.44	-0.76	-0.06	-0.59	0.06	1.77	2.27	4.26	9.07	-5.60	-5.20	-5.57
7 30	10.25	4.59	-0.40	-0.07	0.59	0.71	1.99	2.35	4.23	9.07	-5.52	-4.80	-3.93
8 0	14.52	6.88	-0.12	-0.06	2.06	1.95	2.57	2.49	4.21	9.06	-5.38	-4.44	-2.93
8 30	18.18	8.74	0.10	-0.07	3.57	3.40	3.56	2.71	4.21	9.06	-4.51	-3.75	-2.41
9 0	21.58	10.43	0.32	-0.06	4.91	4.71	4.60	3.02	4.22	9.06	-3.06	-2.94	-1.90
9 30	24.05	12.10	0.52	-0.07	6.15	5.88	5.77	3.40	4.26	9.05	-2.85	-2.81	-2.09
10 0	28.01	14.56	0.82	-0.06	7.36	7.01	6.85	3.90	4.34	9.05	-2.58	-2.64	-2.08
10 30	29.61	16.24	0.99	-0.06	8.45	8.05	7.85	4.61	4.45	9.05	-1.71	-1.93	-1.39
11 0	29.09	15.72	0.96	-0.06	9.45	9.07	8.91	5.45	4.62	9.05	-1.49	-1.78	-1.35
11 30	27.89	14.82	0.90	-0.07	10.04	9.44	9.57	6.33	4.84	9.04	-1.47	-1.52	-1.51
12 0	29.57	15.78	1.01	-0.07	10.70	10.16	10.19	7.12	5.10	9.04	-1.47	-1.52	-1.60
12 30	28.44	14.57	0.87	-0.07	11.65	11.20	11.03	7.82	5.38	9.03	-1.12	-1.27	-1.45
13 0	25.09	11.80	0.59	-0.06	12.17	11.76	11.56	8.07	5.67	9.03	-0.92	-1.01	-1.19
13 30	21.95	9.17	0.27	-0.07	12.65	12.28	12.12	8.30	5.93	9.03	-1.18	-1.11	-1.25
14 0	18.39	6.18	-0.05	-0.07	12.92	12.10	12.44	8.32	6.17	9.02	-1.05	-1.05	-1.14
14 30	12.11	2.23	-0.44	-0.07	12.75	12.50	12.45	8.18	6.34	9.01	-0.64	-0.66	-0.83
15 0	7.76	-0.61	-0.78	-0.07	12.16	12.28	12.29	7.91	6.51	9.01	-0.51	-0.52	-0.34

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	U1	U41	LT1	U2	UW2	U3	UW3	WT3
NICHI HEIKIN (M-D)								
12 17	0.797	-0.00515	0.01064	1.379	-0.02497	2.924	-0.02141	0.00943
12 18	1.427	-0.01322	-0.00414	2.304	-0.03711	3.763	-0.02742	-0.00140
12 19	0.748	-0.01016	0.00197	1.742	-0.02184	1.778	-0.01126	0.01222
12 20	1.233	-0.01748	0.00923	1.934	-0.02178	3.119	-0.01507	0.01077
12 21	0.869	-0.00601	0.01276	1.266	-0.01518	1.909	-0.02387	0.01889
HANJUN (S) HEIKIN (H-M)								
0 0	0.975	-0.01040	0.00605	1.427	-0.02548	2.429	-0.03284	0.01507
0 30	0.554	-0.00141	-0.00255	1.075	-0.01599	1.724	-0.01750	0.00043
0 10	0.533	-0.00252	-0.00308	1.171	-0.02148	2.023	-0.01422	0.00217
1 0	0.561	-0.00154	-0.00197	1.048	-0.02153	2.728	-0.01488	0.00149
1 30	0.439	-0.00077	-0.00102	0.899	-0.01146	1.425	-0.01202	0.00120
2 0	0.484	-0.00390	-0.00047	1.007	-0.01171	1.545	-0.01641	0.00321
2 30	0.443	-0.00141	-0.00111	0.925	-0.01352	1.337	-0.00651	0.00097
3 0	0.509	-0.00174	-0.00210	0.902	-0.00555	1.303	-0.01636	0.00225
3 30	0.489	-0.00137	-0.00215	0.923	-0.00306	1.473	-0.01291	0.00127
4 0	0.427	-0.00378	-0.00293	1.112	-0.00075	1.970	-0.01915	0.00199
4 30	0.674	-0.00667	-0.00160	1.263	-0.02421	2.259	-0.01757	-0.00158
5 0	0.466	-0.00470	-0.00207	1.227	-0.02597	1.884	-0.02525	0.00002
5 30	0.708	-0.00534	-0.00264	1.292	-0.02577	1.938	-0.02267	0.00247
6 0	0.656	-0.00252	-0.00283	1.206	-0.01474	1.454	-0.00990	-0.00141
6 30	0.698	-0.00227	-0.00511	1.321	-0.01610	1.882	-0.01578	-0.00511
7 0	0.789	-0.00501	-0.00441	1.477	-0.02045	2.220	-0.01048	-0.00343
7 30	0.891	-0.00789	-0.00083	1.444	-0.02354	2.722	-0.02087	0.00136
8 0	1.312	-0.01544	0.00888	1.482	-0.03335	2.125	-0.03094	0.00041
8 30	1.427	-0.01584	0.01334	1.563	-0.04285	1.979	-0.04384	0.01406
9 0	1.396	-0.02054	0.01988	1.933	-0.04720	2.357	-0.05042	0.01901
9 30	1.359	-0.01798	0.02703	1.822	-0.04277	2.240	-0.05750	0.03344
10 0	1.269	-0.01944	0.03095	1.738	-0.04054	2.219	-0.06012	0.03442
10 30	1.239	-0.01944	0.04021	1.678	-0.03678	2.135	-0.04796	0.03714
11 0	1.191	-0.01944	0.04288	1.607	-0.03345	2.112	-0.05511	0.03849
11 30	1.502	-0.02463	0.03787	2.037	-0.04058	2.432	-0.07419	0.04915
12 0	1.539	-0.02670	0.03923	2.171	-0.04505	2.936	-0.07234	0.04945
12 30	1.573	-0.02091	0.03636	2.247	-0.04942	3.172	-0.06804	0.05594
13 0	1.490	-0.02104	0.03405	2.155	-0.04378	3.024	-0.06308	0.06232
13 30	1.746	-0.02487	0.02969	2.535	-0.03134	3.587	-0.05938	0.05577
14 0	2.107	-0.02642	0.02503	3.171	-0.04624	4.383	-0.06424	0.05825
14 30	1.932	-0.02815	0.01627	2.879	-0.04273	4.248	-0.06502	0.04794
15 0	1.770	-0.02072	0.00720	2.498	-0.04286	3.952	-0.05622	0.03724
15 30	1.423	-0.01856	0.00100	2.268	-0.03249	3.422	-0.06314	0.02761
16 0	1.307	-0.01643	-0.00281	2.278	-0.02514	3.503	-0.04433	0.02135
16 30	1.252	-0.01369	-0.00307	2.355	-0.03507	3.517	-0.04015	0.01689
17 0	1.358	-0.01566	-0.00628	2.397	-0.03552	3.429	-0.03994	0.00715
17 30	1.077	-0.01052	-0.00708	2.091	-0.02441	3.149	-0.03375	0.00282
18 0	1.031	-0.00747	-0.00405	1.909	-0.01792	2.985	-0.03343	0.00215
18 30	0.833	-0.00915	-0.00565	1.749	-0.02021	2.422	-0.03923	0.00745
19 0	0.812	-0.00467	-0.00654	1.467	-0.01350	2.147	-0.03108	0.00355
19 30	0.723	-0.00788	-0.00715	1.415	-0.02110	2.323	-0.03273	0.00033
20 0	0.770	-0.00886	-0.00253	1.555	-0.02208	2.416	-0.03444	-0.00174
20 30	0.753	-0.00548	-0.00835	1.432	-0.02130	2.388	-0.02452	0.00203
21 0	0.626	-0.00203	-0.00366	1.091	-0.01290	1.824	-0.02176	0.00402
21 30	0.443	-0.00130	-0.00321	0.994	-0.00380	1.679	-0.01570	0.00440
22 0	0.509	-0.00154	-0.00187	1.130	-0.00857	1.933	-0.02743	0.00646
22 30	0.637	-0.00128	-0.00292	1.281	-0.01592	2.196	-0.01622	0.00148
23 0	0.679	-0.00276	-0.00388	1.295	-0.01384	2.361	-0.02614	-0.00036
23 30	0.617	-0.00370	-0.00533	1.243	-0.01874	2.286	-0.02144	0.00282

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	I	RW	G1	G2	T1	T2	T3	ST1	ST2	ST3	T01	T02	T03
NICHI HEIKIN (M-D)													
12 17	8.66	2.48	-0.41	-0.04	7.34	8.04	8.75	5.56	5.91	8.64	1.45	0.94	0.29
12 18	1.16	0.23	-0.76	-0.05	6.72	6.76	6.92	6.06	6.48	8.63	-0.92	-0.92	-0.79
12 19	1.38	0.18	-0.70	-0.04	2.73	2.68	2.72	5.26	6.12	8.69	-2.96	-3.01	-2.41
12 20	7.98	0.34	-0.71	-0.04	1.74	1.80	1.99	4.32	5.46	8.66	-10.24	-10.10	-9.97
12 21	9.48	0.29	-0.76	-0.06	0.02	1.67	2.83	2.30	3.85	8.49	-11.05	-11.04	-11.25
HANJUN (S) HEIKIN (H-M)													
0 0	-0.02	-1.97	-0.95	-0.05	2.17	2.98	3.57	4.12	5.65	8.65	-2.67	-2.91	-3.52
0 30	-0.19	-1.89	-0.95	-0.05	2.23	2.44	3.10	4.08	5.60	8.65	-3.07	-3.02	-3.21
1 0	-0.02	-2.05	-0.97	-0.05	2.07	2.51	3.10	4.05	5.54	8.64	-2.96	-3.12	-3.21
1 30	-0.07	-1.77	-0.96	-0.05	1.61	2.39	3.07	4.02	5.49	8.64	-3.03	-3.21	-3.75
2 0	-0.30	-1.94	-0.97	-0.05	1.31	2.20	2.91	3.97	5.45	8.64	-3.14	-3.21	-3.97
2 30	0.12	-2.05	-0.98	-0.05	1.20	1.96	2.86	3.92	5.41	8.65	-3.34	-3.48	-4.01
3 0	0.11	-2.04	-1.00	-0.05	1.07	1.61	2.71	3.85	5.36	8.64	-3.60	-3.67	-4.09
3 30	-0.20	-2.30	-1.07	-0.05	0.88	1.58	2.67	3.82	5.32	8.65	-3.65	-3.77	-4.34
4 0	0.17	-2.53	-1.07	-0.05	0.60	1.21	2.19	3.74	5.28	8.65	-3.89	-3.72	-4.64
4 30	0.43	-1.81	-0.99	-0.05	0.50	1.18	2.48	3.68	5.24	8.64	-4.07	-4.17	-4.73
5 0	0.18	-1.69	-0.95	-0.04	0.55	1.13	2.02	3.67	5.19	8.64	-4.29	-4.26	-4.78
5 30	0.11	-1.81	-0.98	-0.04	0.67	1.25	1.82	3.65	5.15	8.64	-4.60	-4.47	-4.81
6 0	0.19	-1.99	-1.04	-0.04	0.72	1.31	2.19	3.64	5.12	8.64	-4.43	-4.54	-4.69
6 30	0.49	-1.68	-1.00	-0.05	0.64	1.51	2.25	3.62	5.09	8.64	-5.06	-5.05	-5.34
7 0	2.91	-0.62	-0.89	-0.04	1.14	1.52	2.16	3.59	5.06	8.64	-5.19	-5.16	-4.51
7 30	6.06	0.67	-0.73	-0.05	1.79	1.81	2.13	3.64	5.04	8.64	-5.16	-5.12	-3.94
8 0	9.49	2.97	-0.46	-0.05	2.49	2.33	2.35	3.72	5.02	8.64	-4.94	-4.88	-3.96
8 30	12.57	5.29	-0.21	-0.05	3.29	3.08	3.00	3.85	5.00	8.64	-4.55	-4.40	-3.81
9 0	15.96	7.69	0.05	-0.05	4.19	3.98	3.94	4.05	5.01	8.64	-4.50	-4.40	-4.15
9 30	18.49	9.39	0.25	-0.05	5.01	4.77	4.74	4.26	5.03	8.64	-4.51	-4.40	-4.39
10 0	19.36	9.68	0.10	-0.05	5.64	5.38	5.36	4.52	5.07	8.63	-4.45	-4.54	-4.40
10 30	24.55	12.92	0.67	-0.04	6.22	5.92	5.87	4.85	5.13	8.63	-4.58	-4.65	-4.50
11 0	24.16	12.61	0.64	-0.05	6.88	6.55	6.53	5.14	5.21	8.63	-4.82	-4.90	-4.77
11 30	24.18	12.80	0.65	-0.05	7.43	7.10	7.09	6.01	5.33	8.63	-5.07	-4.98	-4.85
12 0	23.77	12.46	0.66	-0.05	7.96	7.71	7.64	6.67	5.48	8.63	-5.15	-5.04	-4.93
12 30	22.93	11.85	0.61	-0.04	8.58	8.24	8.05	7.14	5.68	8.63	-6.21	-4.96	-5.89
13 0	19.56	9.43	0.34	-0.05	8.67	8.39	8.20	7.17	5.86	8.63	-6.01	-5.82	-5.89
13 30	16.73	7.16	0.11	-0.04	8.75	8.51	8.34	7.20	6.02	8.62	-6.42	-6.28	-6.21
14 0	13.79	4.79	-0.13	-0.05	8.84	8.55	8.50	7.09	6.15	8.62	-6.77	-6.58	-6.39
14 30	10.05	1.98	-0.43	-0.05	8.61	8.42	8.49	6.91	6.24	8.61	-6.53	-6.22	-6.15
15 0	6.31	-1.02	-0.77	-0.05	8.18	8.08	8.11	6.66	6.30	8.61	-6.55	-6.36	-6.25
15 30	2.57	-3.16	-1.02	-0.05	7.44	7.56	7.59	6.38	6.33	8.61	-6.25	-6.11	-6.06
16 0	0.33	-4.02	-1.12	-0.05	6.37	7.02	7.20	6.04	6.34	8.61	-6.16	-6.07	-5.85
16 30	-0.02	-4.15	-1.15	-0.05									

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		U1	U1	U1	U2	U2	U2	U3	U3	U3
NICHI HEIKIN	( M-O )									
12 22		0.675	-0.00433	0.00335	0.971	-0.01457	0.00471	1.801	-0.02515	0.00925
12 23		1.258	-0.01644		1.740	-0.03008		3.051	-0.03049	
12 24		1.162	-0.01515	0.01930	1.747	-0.02160	0.00194	3.228	-0.01535	0.04460
12 25		0.557	-0.00259	0.01200	1.053	-0.01141	0.01029	1.789	-0.00925	0.07242
12 26		0.641	-0.00527	0.01272	1.103	-0.01582	0.01744	1.787	-0.02193	0.01400
HANJUN ( S ) HEIKIN	( M-M )	0.845	-0.00883		1.323	-0.01446		2.325	-0.02744	
HANJUN NICHI HEIKIN	( M-M )									
0 0		0.759	-0.00315		1.137	-0.00373		2.042	-0.01766	
0 30		0.690	-0.00358		1.051	-0.00454		2.061	-0.01889	
1 0		0.734	-0.00570		1.174	-0.00819		2.053	-0.00793	
1 30		0.662	0.00003		1.096	-0.00686		2.050	-0.01266	
2 0		0.708	-0.00311		1.185	-0.01244		2.256	-0.02273	
2 30		0.612	-0.00252		1.100	-0.00508		1.993	-0.01767	
3 0		0.512	-0.00065		0.967	-0.01118		2.131	-0.00825	
3 30		0.565	-0.00126		1.210	-0.00763		2.139	-0.01758	
4 0		0.556	-0.00133		0.987	-0.00513		1.933	-0.02106	
4 30		0.526	-0.00012		0.915	-0.00568		1.603	-0.01452	
5 0		0.446	0.00014		0.917	-0.00754		1.529	-0.00665	
5 30		0.354	0.00381		0.974	-0.00614		1.580	-0.00618	
6 0		0.513	-0.00015	-0.00274	1.045	-0.00720	0.00047	1.971	-0.01178	0.00200
6 30		0.519	-0.00282	-0.00145	1.061	-0.01177	0.00161	2.391	-0.01729	0.00110
7 0		0.533	-0.00220	-0.00033	0.968	-0.01250	0.00403	1.814	-0.00272	0.00546
7 30		0.767	-0.00753	0.00180	1.246	-0.02956	0.01475	2.090	-0.01992	0.00753
8 0		0.840	-0.01190	0.00822	1.137	-0.03212	0.01688	1.811	-0.01992	0.00753
8 30		0.968	-0.01611	0.01976	1.167	-0.03178	0.02703	1.576	-0.00334	0.02574
9 0		1.152	-0.01989	0.02627	1.425	-0.04569	0.03764	1.963	-0.04011	0.03008
9 30		1.364	-0.02453	0.03558	1.619	-0.05226	0.05033	2.261	-0.04560	0.04586
10 0		1.232	-0.02192	0.03666	1.339	-0.03714	0.04345	2.070	-0.04735	0.04580
10 30		1.243	-0.02414	0.04453	1.311	-0.04140	0.04992	1.970	-0.04860	0.04757
11 0		1.246	-0.01980	0.05112	1.499	-0.03790	0.05226	2.101	-0.04709	0.05607
11 30		1.166	-0.01955	0.05092	1.472	-0.03526	0.05027	2.132	-0.04662	0.05251
12 0		1.179	-0.01809	0.04450	1.517	-0.04452	0.04779	2.083	-0.05752	0.04165
12 30		1.571	-0.01977	0.04523	2.016	-0.03800	0.05741	2.943	-0.05760	0.05292
13 0		1.609	-0.02420	0.03625	2.135	-0.04385	0.04306	3.169	-0.05472	0.03827
13 30		1.473	-0.01919	0.02944	1.958	-0.03627	0.04026	2.862	-0.04212	0.04044
14 0		1.328	-0.01548	0.02377	1.821	-0.03116	0.03225	2.784	-0.04052	0.02944
14 30		1.239	-0.01309	0.01559	1.651	-0.03390	0.02320	2.528	-0.04187	0.02216
15 0		1.003	-0.01752	0.00599	1.497	-0.03467	0.01293	2.389	-0.04242	0.01412
15 30		0.793	-0.00794	0.00020	1.361	-0.01330	0.00455	2.244	-0.03032	0.01175
16 0		0.716	-0.00621	-0.00155	1.314	-0.01295	0.00244	2.291	-0.02933	0.01091
16 30		0.754	-0.00878	-0.00263	1.387	-0.01233	0.00384	2.523	-0.02929	
17 0		0.610	-0.00821	-0.00259	1.241	-0.00374	-0.02571	2.356	-0.02557	
17 30		0.449	-0.00777	-0.00267	1.521	-0.01240	-0.04354	2.923	-0.02242	
18 0		0.716	-0.01325	-0.00064	1.527	-0.00978	-0.03305	3.252	-0.01958	
18 30		0.756	-0.01209	0.02190	1.503	-0.01438	-0.04357	3.258	-0.02129	
19 0		0.913	-0.00766	0.04031	1.616	-0.01558	-0.03758	3.250	-0.02190	
19 30		0.889	-0.01277	0.01120	1.581	-0.00928	0.01767	3.141	-0.02348	
20 0		0.844	-0.00315	0.00988	1.470	-0.00225	-0.00165	3.034	-0.02419	
20 30		0.677	-0.00389	0.00249	1.178	-0.00026	0.02505	2.736	-0.03654	
21 0		0.452	-0.00362	0.00133	1.125	0.00036	-0.00972	2.294	-0.00991	
21 30		0.658	-0.00050	0.00930	1.135	-0.00850	-0.04595	2.228	-0.01776	
22 0		0.686	-0.00311	0.00643	1.220	-0.01023	-0.04461	2.460	-0.01001	
22 30		0.706	-0.00352	0.01349	1.199	-0.00981	-0.04731	2.285	-0.00076	
23 0		0.751	-0.00384	0.01181	1.337	-0.00538	-0.04743	2.665	-0.00699	
23 30		0.733	-0.00226	0.01840	1.188	-0.00501	-0.02349	2.697	-0.01544	

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		I	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	TD1	TD2	TD3
NICHI HEIKIN	( M-O )													
12 22		3.69	-0.03	-0.76	-0.08	1.04	1.51	2.15	2.31	3.47	8.16	-7.44	-7.51	-7.52
12 23		4.44	1.00	-0.61	-0.08	3.35	3.47	3.90	3.57	4.09	7.86	-3.44	-3.41	-3.49
12 24		9.33	1.80	-0.39	-0.08	6.06	6.87	7.39	5.15	5.38	7.63	-4.01	-3.75	-3.60
12 25		9.44	2.83	-0.38	-0.05	3.56	4.94	5.76	3.58	4.35	7.61	-6.31	-6.25	-6.42
12 26		9.15	1.60	-0.45	-0.06	3.08	4.49	5.91	3.43	4.47	7.53	-5.00	-5.05	-5.62
HANJUN ( S ) HEIKIN	( M-M )	7.21	1.44	-0.52	-0.07	3.42	4.29	5.02	3.65	4.35	7.76	-5.25	-5.20	-5.33
HANJUN NICHI HEIKIN	( M-M )													
0 0		0.06	+3.68	+1.11	-0.08	0.93	1.97	2.89	2.68	4.27	7.84	-5.12	-5.13	-5.48
0 30		-0.00	-4.02	-1.16	-0.07	0.43	1.45	2.77	2.57	4.20	7.83	-5.32	-5.52	-5.94
1 0		0.07	-4.01	-1.19	-0.07	0.05	1.33	2.36	2.48	4.15	7.83	-5.36	-5.59	-6.15
1 30		0.09	-3.76	-1.12	-0.08	-0.16	1.03	1.99	2.39	4.09	7.83	-5.47	-5.66	-6.30
2 0		-0.04	-3.58	-1.12	-0.07	-0.37	1.00	1.81	2.30	4.02	7.83	-5.66	-5.89	-6.40
2 30		0.01	-3.17	-1.06	-0.07	-0.55	0.80	1.55	2.23	3.96	7.82	-5.61	-5.98	-6.51
3 0		0.15	-3.05	-1.08	-0.07	-0.81	0.76	1.63	2.11	3.91	7.82	-5.61	-6.12	-6.55
3 30		0.04	-2.87	-1.03	-0.07	-0.87	0.59	1.58	2.11	3.85	7.81	-5.74	-6.02	-6.86
4 0		0.04	-2.35	-1.01	-0.07	-0.63	0.54	1.27	2.06	3.80	7.82	-5.77	-6.12	-6.59
4 30		-0.15	-2.17	-0.96	-0.07	-0.88	0.39	1.02	2.01	3.74	7.81	-5.87	-6.18	-6.74
5 0		-0.11	-2.31	-1.01	-0.07	-1.09	0.18	0.83	1.95	3.70	7.81	-6.05	-6.39	-7.05
5 30		0.13	-1.85	-0.93	-0.07	-1.25	0.03	0.64	1.90	3.66	7.81	-6.44	-6.51	-7.29
6 0		0.12	-1.94	-0.98	-0.07	-1.30	-0.17	0.57	1.83	3.61	7.80	-6.79	-6.76	-7.44
6 30		0.46	-1.40	-0.92	-0.07	-1.52	-0.08	0.60	1.77	3.56	7.80	-7.00	-6.87	-7.72
7 0		3.64	0.53	-0.49	-0.07	-1.33	-0.22	0.59	1.72	3.51	7.79	-6.73	-6.49	-6.83
7 30		9.23	2.97	-0.43	-0.06	-0.06	0.39	1.10	1.70	3.47	7.79	-6.61	-6.03	-5.08
8 0		15.24	4.55	-0.23	-0.07	1.53	1.67	1.72	1.74	3.43	7.79	-6.03	-5.49	-4.36
8 30		18.75	7.50	0.08	-0.06	2.73	2.55	2.48	1.89	3.40	7.79	-5.13	-4.98	-4.27
9 0		22.67	10.54	0.45	-0.07	3.92	3.76	3.69	2.12	3.38	7.78	-4.85	-4.86	-4.07
9 30		25.90	13.10	0.73	-0.06	5.21	5.02	4.92	2.51	3.40	7.78	-4.52	-4.62	-4.34
10 0		27.35	14.14	0.87	-0.06	6.21	6.02	5.85	3.00	3.46	7.78	-4.32	-4.32	-4.17
10 30		30.50	16.34	1.13	-0.06	7.33	7.03	6.91	3.65	3.55	7.77	-4.19	-4.26	-4.11
11 0		32.77	17.64	1.28	-0.07	8.33	8.06	7.92	4.52	3.70	7.77	-4.70	-4.59	-4.60
11 30		29.18	15.31	1.02	-0.07	8.88	8.49	8.39	5.48	3.90	7.76	-4.71	-4.68	-4.64
12 0		24.71	12.50	0.72	-0.07	9.23	8.86	8.75	6.15	4.16	7.76	-4.81	-4.92	-4.83
12 30		27.50	14.40	0.96	-0.07	9.80	9.46	9.29	6.79	4.42	7.75	-5.25	-5.28	-5.23
13														

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	U1	U41	WT1	U2	U42	WT2	U3	U43	WT3
NICHI HEIKIN (M-D)									
13 1	0.635	-0.00837	0.01471	1.129	-0.01861	0.01844	1.967	-0.03157	0.01925
13 2	0.956	-0.01343	0.01419	1.511	-0.02541	0.02394	2.550	-0.04267	0.02413
13 3	0.504	-0.00265	0.00699	0.713	-0.01033	0.01014	1.731	-0.01949	0.00857
13 4	0.661	-0.00382	0.01527	1.220	-0.01569	0.01677	2.262	-0.02563	0.01678
13 5	0.629	-0.00459	0.01113	1.051	-0.01529	0.01571	1.809	-0.02071	0.01294
HANJUN (S) HEIKIN	0.477	-0.00657	0.01204	1.169	-0.01717	0.01700	2.024	-0.02601	0.01513
HANJUN NICHI HEIKIN (M-M)									
0 0	0.199	0.00169	0.00954	1.119	-0.00180	0.00080	2.090	-0.01243	0.00684
0 30	0.471	0.00557	-0.00125	1.055	-0.00408	0.00127	1.889	-0.01137	0.00511
1 0	0.487	-0.00015	-0.00151	1.095	-0.00552	0.00199	2.085	-0.01168	0.00448
1 30	0.609	-0.00065	-0.00576	1.208	-0.00884	-0.00012	1.935	-0.01610	0.00291
2 0	0.604	-0.00157	-0.00411	1.173	-0.00567	0.00080	2.202	-0.01404	0.00383
2 30	0.507	-0.00259	-0.00479	1.082	-0.01072	0.00300	2.041	-0.01444	-0.00119
3 0	0.555	-0.00221	-0.00281	1.124	-0.01487	0.00330	2.010	-0.01569	0.00125
3 30	0.633	-0.00451	-0.00554	1.224	-0.00900	0.00194	2.382	-0.02295	0.00811
4 0	0.405	-0.00701	-0.00616	1.111	-0.02365	0.00460	2.753	-0.03759	0.01428
4 30	0.700	-0.00356	-0.00332	1.218	-0.01698	0.00462	2.233	-0.02158	0.00146
5 0	0.441	-0.00126	-0.00388	1.022	-0.01537	0.00136	2.377	-0.02280	0.00465
5 30	0.578	-0.00225	-0.00262	1.006	-0.01476	0.00298	1.995	-0.02212	0.00114
6 0	0.792	-0.00126	-0.00263	1.359	-0.00462	0.00514	2.150	-0.01340	0.00096
6 30	0.495	-0.00166	-0.00357	0.936	-0.01180	0.00410	2.031	-0.01354	0.00353
7 0	0.617	-0.00464	-0.00165	1.166	-0.01770	0.00707	2.019	-0.01585	0.00446
7 30	0.614	-0.00470	0.00074	0.861	-0.01280	0.00700	1.529	-0.02098	0.00446
8 0	0.668	-0.00960	0.00780	0.854	-0.02275	0.01704	1.568	-0.02436	0.00416
8 30	0.831	-0.01051	0.01425	1.004	-0.02353	0.02132	1.427	-0.04042	0.02142
9 0	0.931	-0.01847	0.02544	1.134	-0.04120	0.04213	1.581	-0.04570	0.02884
9 30	1.020	-0.02031	0.03171	1.188	-0.03952	0.04536	1.576	-0.04890	0.04115
10 0	1.196	-0.02328	0.04531	1.422	-0.05430	0.05625	1.827	-0.05462	0.03914
10 30	1.123	-0.01878	0.03580	1.524	-0.05644	0.06978	1.622	-0.04705	0.04463
11 0	1.079	-0.01447	0.06631	1.260	-0.04229	0.06763	1.420	-0.03130	0.05502
11 30	1.107	-0.01327	0.06751	1.269	-0.03682	0.06455	1.591	-0.04778	0.03042
12 0	1.131	-0.01930	0.06977	1.340	-0.03454	0.06959	1.724	-0.04478	0.03130
12 30	1.233	-0.01514	0.06308	1.482	-0.03114	0.07284	1.951	-0.04771	0.05340
13 0	1.325	-0.01977	0.05987	1.633	-0.03450	0.06650	2.143	-0.05647	0.04648
13 30	1.116	-0.01482	0.04857	1.361	-0.03370	0.05444	1.806	-0.04992	0.04871
14 0	1.283	-0.02112	0.04250	1.640	-0.04252	0.05634	2.233	-0.05547	0.04619
14 30	1.047	-0.01995	0.03155	1.379	-0.03394	0.03632	1.769	-0.03760	0.03049
15 0	0.681	-0.01122	0.01861	0.849	-0.01833	0.02648	1.227	-0.03624	0.02494
15 30	0.633	-0.00972	0.00582	0.920	-0.01788	0.01029	1.372	-0.02326	0.01797
16 0	0.619	-0.00494	-0.00110	1.095	-0.01246	0.00386	1.456	-0.01384	0.00481
16 30	0.524	-0.00416	-0.00168	1.157	-0.00897	0.00053	2.176	-0.02494	0.00133
17 0	0.502	-0.00598	-0.00266	1.144	-0.00294	0.00019	2.287	-0.01854	0.00133
17 30	0.539	-0.00847	-0.00128	1.347	-0.01073	0.00017	2.447	-0.01912	0.01503
18 0	0.427	-0.00639	-0.00286	1.220	-0.01284	-0.00011	2.056	-0.01262	0.00523
18 30	0.343	-0.00152	-0.00335	1.091	-0.01464	-0.00211	2.299	-0.01104	0.00340
19 0	0.345	0.00016	-0.00335	1.203	-0.00310	-0.00352	2.454	-0.01311	0.00496
19 30	0.368	0.00196	-0.00483	1.357	-0.00555	-0.00486	2.732	-0.02045	0.00200
20 0	0.424	0.00289	-0.00154	1.016	-0.00704	-0.00514	2.223	-0.00661	-0.00120
20 30	0.262	0.00133	0.00131	0.759	0.00466	-0.00045	1.850	0.00366	-0.00185
21 0	0.351	0.00204	-0.00148	1.088	0.00339	0.00115	2.071	-0.00775	0.00141
21 30	0.422	0.00142	-0.00200	1.050	-0.00569	0.00012	2.389	-0.01378	0.00149
22 0	0.471	0.00186	-0.00124	1.080	-0.00595	-0.00043	2.449	-0.01065	0.00031
22 30	0.367	0.00274	0.00048	0.888	-0.00073	-0.00212	1.988	-0.00616	-0.00020
23 0	0.317	0.00284	-0.00370	1.156	-0.00286	-0.00231	2.170	-0.02155	0.00237
23 30	0.577	-0.00772	-0.00411	1.344	-0.00854	0.00084	2.757	-0.02717	0.00558

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	1	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	T01	T02	T03
NICHI HEIKIN (M-D)													
13 1	9.66	1.30	-0.48	-0.08	1.30	2.41	3.37	1.65	2.58	6.75	-10.01	-9.76	-9.91
13 2	10.00	1.02	-0.46	-0.08	3.03	4.06	4.81	2.34	2.99	6.57	-8.73	-8.72	-8.97
13 3	5.44	0.26	-0.57	-0.08	1.25	2.67	3.74	2.08	2.92	6.44	-7.97	-7.79	-7.94
13 4	9.86	2.82	-0.22	-0.07	2.87	4.63	5.65	2.48	3.11	6.35	-6.96	-6.31	-7.00
13 5	7.56	2.01	-0.25	-0.07	4.25	5.51	6.29	3.22	3.55	6.28	-3.81	-3.93	-4.36
HANJUN (S) HEIKIN	8.50	1.48	-0.39	-0.08	2.54	3.86	4.77	2.16	3.03	6.49	-7.31	-7.30	-7.44
HANJUN NICHI HEIKIN (M-M)													
0 0	0.19	-3.57	-0.99	-0.07	-2.45	0.78	2.69	1.08	2.81	6.55	-8.65	-8.59	-9.74
0 30	-0.05	-3.28	-1.03	-0.07	-2.36	-0.75	1.80	1.01	2.74	6.54	-8.77	-8.78	-9.53
1 0	0.00	-2.53	-0.90	-0.08	-2.46	-0.54	1.32	0.96	2.69	6.54	-9.19	-9.01	-9.47
1 30	-0.02	-2.52	-0.93	-0.07	-2.22	-0.87	0.65	0.92	2.43	6.34	-8.74	-8.99	-9.15
2 0	-0.01	-2.60	-0.92	-0.07	-2.19	-1.11	0.67	0.89	2.38	6.54	-8.69	-8.90	-9.62
2 30	0.16	-2.71	-0.94	-0.07	-2.39	-1.59	0.15	0.86	2.53	6.54	-8.66	-8.92	-9.57
3 0	-0.06	-2.92	-0.99	-0.08	-2.74	-1.88	0.49	0.83	2.49	6.53	-8.73	-9.00	-9.61
3 30	-0.08	-3.46	-1.04	-0.08	-2.55	-1.08	-0.62	0.81	2.45	6.53	-8.88	-9.00	-9.37
4 0	0.07	-3.27	-1.02	-0.07	-2.48	-2.12	-0.84	0.79	2.42	6.53	-9.02	-9.20	-9.36
4 30	0.07	-2.86	-0.98	-0.08	-2.60	-2.10	-0.67	0.76	2.38	6.52	-9.23	-9.21	-9.52
5 0	-0.00	-2.99	-0.97	-0.07	-2.67	-1.96	-0.85	0.74	2.34	6.52	-9.09	-9.14	-9.67
5 30	0.04	-2.71	-0.98	-0.08	-2.79	-1.82	-1.11	0.73	2.32	6.52	-8.95	-9.15	-9.81
6 0	0.15	-2.55	-0.94	-0.08	-2.59	-2.76	-1.19	0.72	2.29	6.52	-9.16	-9.27	-9.48
6 30	0.22	-2.07	-0.91	-0.08	-2.42	-2.04	-1.22	0.72	2.26	6.52	-9.11	-9.26	-9.44
7 0	2.36	-0.80	-0.74	-0.07	-2.45	-2.14	-1.38	0.72	2.24	6.51	-9.03	-9.15	-9.00
7 30	6.54	0.79	-0.55	-0.07	-1.79	-1.67	-1.34	0.73	2.23	6.51	-8.73	-8.66	-8.25
8 0	10.89	3.24	-0.25	-0.08	-0.70	-0.82	-0.72	0.75	2.20	6.51	-8.34	-8.23	-7.89
8 30	17.32	6.35	0.12	-0.07	0.73	0.59	0.80	0.81	2.19	6.51	-7.82	-7.71	-7.38
9 0	22.71	10.76	0.59	-0.08	2.32	2.09	2.08	0.89	2.18	6.51	-7.06	-6.92	-6.72
9 30	25.30	12.50	0.81	-0.07	4.02	3.71	3.56	1.00	2.18	6.51	-6.40	-6.29	-6.57
10 0	31.29	15.84	1.19	-0.07	5.38	5.05	4.92	1.17	2.20	6.50	-6.07	-6.11	-6.27
10 30	33.09	17.01	1.45	-0.07	6.81	6.40	6.20	1.55	2.23	6.50	-5.52	-5.68	-5.90
11 0	35.38	18.45	1.51	-0.08	8.14	7.65	7.19	2.23	2.29	6.49	-5.18	-5.44	-5.56
11 30	36.58	19.23	1.62	-0.08	9.18	8.71	8.51	3.21	2.41	6.50	-5.54	-5.55	-5.84
12 0	35.13	18.02	1.49	-0.07	10.06	9.58	9.37	4.31	2.60	6.48	-5.51	-5.55	-5.70
12 30	33.65	16.99	1.39	-0.08	10.74	10.24	10.05	5.24	2.85	6.49	-5.48	-5.47	-5.88
13 0	31.37												

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		U1	U-1	W1	U2	U-2	W2	U3	U-3	W3
NICHII HEIKIN (M-D)										
13	6	0.706	-0.00243	0.01177	1.323	-0.01265	0.01176	2.269	-0.00951	0.00550
13	7	0.772	-0.00540	0.00127	1.271	-0.01677	0.00815	2.413	-0.02650	0.00461
13	8	0.655	-0.00347	0.01991	2.344	-0.01203	0.01760	3.619	-0.00821	0.01274
13	9	0.586	-0.00215	0.01627	1.220	-0.01452	0.00931	2.208	-0.01725	0.00765
13	10	0.758	-0.00430	0.00590	1.343	-0.02375	0.01378	2.120	-0.02230	0.00742
HANJUN (S) HEIKIN										
HANJUN NICHII HEIKIN (M-M)										
0	0	0.783	-0.00877	-0.00497	1.534	-0.02128	-0.00387	2.731	-0.05341	0.00275
0	30	0.765	-0.00492	-0.00741	1.527	-0.02232	-0.00025	2.478	-0.02538	-0.00060
1	0	0.750	-0.00067	-0.00484	1.257	-0.00831	0.00215	1.767	-0.00635	0.00050
1	30	0.559	-0.00040	-0.00255	1.093	-0.01061	0.00338	1.854	-0.00952	-0.01029
2	0	0.645	-0.00192	-0.00020	1.081	-0.01323	0.00667	2.027	-0.02045	0.00225
2	30	0.624	-0.00175	-0.00012	1.068	-0.01298	0.00874	3.194	-0.00642	0.00877
3	0	0.486	-0.00014	-0.00274	1.016	-0.00969	0.00275	3.728	-0.01565	0.00425
3	30	0.595	-0.00024	-0.00442	2.049	-0.01222	0.00149	4.193	-0.01919	0.00490
4	0	0.537	-0.00107	-0.00579	2.753	-0.01699	0.00215	4.057	-0.02242	0.00511
4	30	0.526	-0.00059	0.00013	2.725	-0.00915	0.01155	3.643	-0.01394	0.00435
5	0	0.543	-0.00069	0.00006	2.743	-0.00275	0.01124	3.819	-0.01502	0.00316
5	30	0.514	-0.00012	-0.00020	2.672	-0.00233	0.00383	3.818	-0.01446	0.00557
6	0	0.579	-0.00052	-0.00250	2.830	-0.00332	0.00928	3.755	-0.01276	0.00605
6	30	0.575	-0.00205	-0.00023	2.867	-0.01198	0.00564	3.749	-0.01292	0.00665
7	0	0.620	-0.00431	0.00025	2.768	-0.01226	0.00757	3.489	-0.00715	0.00364
7	30	0.611	-0.00434	0.00153	2.335	-0.01318	0.00788	3.005	-0.00898	0.00231
8	0	0.653	-0.00404	0.02472	1.187	-0.01713	0.01334	3.351	-0.01313	0.00246
8	30	1.004	-0.01244	0.01611	1.298	-0.03641	0.02676	3.556	-0.02184	0.01075
9	0	1.055	-0.01275	0.02175	1.333	-0.04173	0.03376	3.559	-0.02876	0.01786
9	30	1.182	-0.01555	0.06142	1.351	-0.04686	0.04170	2.551	-0.02881	0.02265
10	0	1.120	-0.01789	0.04522	1.450	-0.04977	0.04695	1.848	-0.00420	0.02900
10	30	0.969	-0.01015	0.04467	1.219	-0.02978	0.04351	1.507	-0.01320	0.03654
11	0	1.063	-0.01354	0.05322	1.271	-0.03176	0.05256	1.575	-0.03981	0.04906
11	30	1.099	-0.01301	0.05476	1.335	-0.03588	0.06101	1.623	-0.03829	0.04101
12	0	1.157	-0.01386	0.07742	1.401	-0.04290	0.05269	1.763	-0.04789	0.04144
12	30	0.915	-0.00582	0.09044	1.098	-0.01524	0.04686	1.407	-0.02202	0.03640
13	0	0.871	-0.00051	0.05409	1.084	-0.01986	0.04055	1.504	-0.01501	0.02440
13	30	1.093	-0.00463	0.03312	1.339	-0.02117	0.02775	1.764	-0.02368	0.01516
14	0	0.933	-0.00309	0.02496	1.143	-0.02236	0.02148	1.496	-0.02439	0.01348
14	30	0.927	-0.00365	0.01635	1.294	-0.02488	0.01540	1.777	-0.01486	0.00767
15	0	1.270	-0.01172	0.00310	1.788	-0.04346	0.01172	2.573	-0.03760	0.00474
15	30	1.077	-0.00782	-0.00256	1.594	-0.02336	0.00214	2.316	-0.02657	-0.00027
16	0	0.897	-0.00331	-0.00705	1.492	-0.01608	-0.00169	2.276	-0.01663	-0.00492
16	30	0.763	-0.00123	-0.00988	1.463	-0.02091	-0.00618	2.267	-0.01356	-0.00307
17	0	0.628	-0.00004	-0.00457	1.393	-0.01203	-0.00531	2.349	-0.00999	-0.00489
17	30	0.485	-0.00070	-0.00284	1.430	-0.00521	-0.00301	2.244	-0.00197	-0.00416
18	0	0.370	-0.00132	-0.00083	1.269	-0.00239	-0.00176	2.157	-0.00342	0.00169
18	30	0.284	-0.00116	-0.00081	0.950	-0.00080	-0.00261	1.939	-0.00034	0.00388
19	0	0.259	-0.00016	-0.00087	1.017	-0.00084	-0.00002	2.113	-0.00397	-0.00025
19	30	0.238	-0.00151	-0.00060	0.824	-0.00098	-0.00111	2.061	-0.00137	-0.00036
20	0	0.239	-0.00071	-0.00146	0.840	-0.00072	-0.00217	2.101	-0.00098	-0.00124
20	30	0.323	-0.00116	-0.00071	0.797	-0.00230	-0.00132	2.003	-0.00600	0.00075
21	0	0.323	-0.00121	-0.00143	0.877	-0.00172	-0.00486	1.933	-0.00441	0.00042
21	30	0.308	-0.00168	-0.00585	1.147	-0.01131	-0.00306	2.090	-0.01138	-0.00201
22	0	0.491	-0.00088	-0.00473	1.103	-0.01662	-0.00477	1.907	-0.01351	-0.00265
22	30	0.512	-0.00089	-0.00672	1.180	-0.00999	-0.00358	2.250	-0.01144	-0.00442
23	0	0.585	-0.00043	-0.00358	1.367	-0.01030	-0.00016	2.652	-0.01440	-0.00120
23	30	0.492	-0.00009	-0.00565	1.141	-0.00938	-0.00245	2.204	-0.01344	0.00013

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		I	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	T01	T02	T03
NICHII HEIKIN (M-D)														
13	6	9.65	0.48	-0.42	-0.05	3.11	4.05	5.84	2.79	3.52	6.29	-8.14	-8.24	-8.71
13	7	1.75	0.36	-0.46	-0.05	1.18	1.85	3.06	1.84	2.86	6.27	-3.22	-3.63	-4.31
13	8	7.52	3.13	-0.14	-0.06	2.52	3.96	4.98	3.05	3.59	6.18	-1.78	-1.94	-3.07
13	9	8.85	2.41	-0.08	-0.05	6.14	7.57	9.09	3.35	3.64	6.14	-0.39	-0.27	-2.01
13	10	6.53	1.26	-0.15	-0.06	7.74	8.63	9.43	4.98	4.84	6.17	2.04	1.68	1.07
HANJUN (S) HEIKIN														
HANJUN NICHII HEIKIN (M-M)														
0	0	-0.09	-3.13	-0.73	-0.04	2.80	4.33	5.55	1.98	3.41	6.20	-3.14	-3.60	-5.03
0	30	0.12	-2.96	-0.73	-0.05	2.22	3.44	5.21	1.94	3.36	6.21	-2.81	-3.46	-4.96
1	0	-0.03	-2.57	-0.74	-0.04	0.89	2.31	5.02	1.87	3.31	6.21	-2.80	-4.69	-5.84
1	30	-0.05	-2.04	-0.69	-0.05	0.38	1.41	3.22	1.80	3.26	6.20	-4.37	-5.32	-6.27
2	0	0.04	-2.13	-0.71	-0.06	-0.34	0.95	2.18	1.72	3.22	6.21	-5.12	-5.70	-6.51
2	30	-0.13	-1.98	-0.78	-0.06	-0.61	0.67	2.04	1.64	3.16	6.20	-5.27	-5.86	-6.65
3	0	0.09	-1.59	-0.66	-0.05	-0.33	0.99	2.42	1.59	3.11	6.21	-5.19	-5.72	-6.41
3	30	0.01	-1.96	-0.69	-0.05	0.43	1.31	2.81	1.54	3.06	6.21	-5.36	-5.66	-6.15
4	0	-0.11	-2.09	-0.70	-0.05	0.67	1.58	2.96	1.49	3.02	6.21	-5.45	-5.65	-6.13
4	30	-0.39	-2.10	-0.68	-0.06	0.05	1.47	2.60	1.45	2.97	6.21	-5.25	-5.63	-6.24
5	0	-0.10	-1.97	-0.68	-0.05	-0.05	1.24	2.86	1.40	2.93	6.21	-5.39	-5.68	-6.28
5	30	-0.08	-1.65	-0.69	-0.05	-0.39	1.21	2.84	1.36	2.89	6.21	-5.44	-5.66	-6.37
6	0	0.03	-1.67	-0.68	-0.05	-0.88	0.77	2.37	1.35	2.85	6.22	-5.63	-5.86	-6.77
6	30	0.08	-1.33	-0.66	-0.05	-1.06	0.35	2.06	1.32	2.81	6.22	-5.44	-5.94	-6.88
7	0	2.12	-0.50	-0.57	-0.05	-0.85	0.35	2.00	1.32	2.78	6.22	-5.19	-5.73	-6.71
7	30	5.85	1.25	-0.36	-0.04	-0.07	0.60	2.07	1.34	2.74	6.22	-5.07	-5.22	-5.07
8	0	10.18	3.55	-0.08	-0.05	1.27	1.37	2.39	1.40	2.72	6.22	-4.62	-4.61	-3.94
8	30	14.89	5.99	0.22	-0.05	2.58	2.40	2.81	1.50	2.70	6.22	-4.07	-3.99	-3.54
9	0	18.56	8.39	0.49	-0.05	3.89	3.62	3.56	1.67	2.70	6.22	-3.50	-3.51	-3.19
9	30	19.29	10.19	0.69	-0.05	4.82	4.57	4.52	1.97	2.71	6.22	-3.10	-3.16	-2.96
10	0	21.53	11.77	0.83	-0.06	5.61	5.27	5.26	2.44	2.75	6.22	-2.62	-2.70	-2.67
10	30	24.43	13.49	1.02	-0.05	6.43	6.06	6.02	3.05	2.83	6.22	-1.92	-2.12	-2.10
11	0	29.84	15.71	1.30	-0.05	7.56	7.17	7.13	3.77	2.96	6.22	-1.32	-1.41	-1.40
11	30	30.76	16.78	1.36	-0.05	8.38	8.18	8.06	4.58	3.13	6.22	-0.99	-0.82	-0.72
12	0	30.06	15.50	1.30	-0.05	9.47	9.03	8.90	5.41	3.34	6.22	-0.44	-0.14	-0.42
12	30	28.46	14.46	1.23	-0.05	10.39	9.91	9.49	6.12	3.59	6.22	-0.04	-0.02	0.37
13	0	24.48	13.											

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	U1	U41	LT1	U2	U2	LT2	U3	U3	LT3
<b>NICHI HEIKIN (M-D)</b>									
13 11	1.050	-0.00443	0.00834	1.514	-0.02258	0.00340	2.249	-0.01898	-0.00147
13 12	0.809	-0.00637	0.02533	1.184	-0.02232	0.01026	1.749	-0.02157	0.00441
13 13	3.106	-0.00074	0.02931	1.708	-0.01239	0.02654	3.237	-0.00214	1.05724
13 14	0.714	-0.00136		1.310	-0.01282		3.188	-0.01142	
13 15	0.900	-0.00293		1.580	-0.01735		2.117	-0.02454	
<b>HANJUN (S) HEIKIN</b>									
HANJUN NICHI HENKA (M-M)	1.314	-0.00302		1.860	-0.01732		2.696	-0.01584	
0 0	0.798	-0.00678		1.373	-0.00907		3.528	-0.01803	
0 30	0.782	-0.00121		1.628	-0.00384		3.819	-0.01816	
1 0	0.744	0.00204		1.752	-0.00700		3.509	-0.00910	
1 30	0.731	-0.00124		1.914	-0.01244		3.267	-0.00048	
2 0	0.984	-0.00110		2.012	-0.01237		3.581	-0.01496	
2 30	0.694	0.00015		1.219	-0.00627		3.250	-0.01350	
3 0	0.748	-0.00023		2.114	-0.01198		3.210	-0.00767	
3 30	0.874	0.00148		2.441	-0.00764		3.090	-0.01757	
4 0	0.757	-0.00229		2.035	-0.02243		3.848	-0.00675	
4 30	0.901	-0.00228		1.740	-0.02153		3.187	-0.01179	
5 0									
5 30									
6 0									
6 30									
7 0									
7 30									
8 0									
8 30									
9 0									
9 30									
10 0									
10 30									
11 0									
11 30									
12 0									
12 30									
13 0	1.306	-0.01548		2.300	-0.02220		2.568	-0.02514	
13 30	1.883	-0.00985		3.123	-0.02810		2.420	-0.04684	
14 0	1.606	-0.01120		2.303	-0.03721		3.076	-0.06503	
14 30	1.569	-0.00192		2.320	-0.04434		3.173	-0.02974	
15 0	1.444	-0.00892		2.225	-0.03184		2.960	-0.01208	
15 30	1.276	-0.00765		2.151	-0.03483		2.791	-0.02958	
16 0	0.992	-0.00436		1.670	-0.02256		2.513	-0.01875	
16 30	0.783	-0.00248		1.818	-0.01508		2.274	-0.01052	
17 0	0.783	-0.00277		1.789	-0.02169		2.137	-0.01254	
17 30	0.763	-0.00236		1.393	-0.01560		2.137	-0.02094	
18 0	0.602	-0.00090		1.312	-0.00997		1.931	-0.00928	
18 30	1.038	-0.01722		2.046	-0.02915		2.663	-0.01334	
19 0	0.813	-0.01163		1.934	-0.02852		2.422	-0.01544	
19 30	0.636	-0.00324		1.477	-0.02732		2.301	-0.01903	
20 0	0.685	-0.00083		1.427	-0.01919		1.971	-0.00717	
20 30	0.662	-0.00215		1.283	-0.01772		1.725	-0.02194	
21 0	1.036	-0.00864		2.005	-0.02148		4.127	-0.02660	
21 30	1.026	-0.01268		2.113	-0.02773		4.207	-0.02437	
22 0	0.844	-0.00913		2.162	-0.02798		3.787	-0.01594	
22 30	0.680	-0.00758		1.168	-0.01745		1.616	-0.01544	
23 0	0.695	-0.00658		1.309	-0.00693		3.562	-0.01710	
23 30	0.855	-0.00933		1.646	-0.00443		3.944	-0.02522	

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	I	RN	G1	G2	T1	T2	T3	ST1	ST2	ST3	T01	T02	T03
<b>NICHI HEIKIN (M-D)</b>													
13 11	6.43	2.24	-0.14	-0.02	5.20	6.17	6.69	4.22	4.70	6.33	-5.33	-5.39	-5.94
13 12	5.72	1.77	-0.16	-0.02	4.50	4.45	4.44	5.02	5.19	6.47	-7.44	-7.31	-7.09
13 13	2.57	-1.26	-0.45	-0.01	-0.45	-0.48	-0.44	3.57	4.50	6.60	-4.86	-5.03	-4.91
13 14	11.15	-1.52	-0.56	-0.02	-1.81	-1.10	-0.67	2.74	3.70	6.59	-8.14	-8.19	-8.36
13 15	9.78	-0.80	-0.50	-0.04	0.26	1.12	2.14	1.57	2.79	6.46	-9.38	-9.25	-9.16
<b>HANJUN (S) HEIKIN</b>													
HANJUN NICHI HENKA (M-M)	7.13	0.09	-0.36	-0.02	1.54	2.02	2.55	3.44	4.18	6.49	-7.03	-7.03	-7.09
0 0	-0.02	-0.61	-0.44	-0.03	0.14	1.00	2.16	3.47	4.54	6.46	-5.49	-5.62	-6.60
0 30	-0.06	-0.61	-0.46	-0.02	0.17	0.85	1.73	3.38	4.50	6.46	-5.55	-5.72	-6.45
1 0	-0.32	-0.57	-0.47	-0.02	0.09	0.56	1.39	3.30	4.44	6.47	-5.72	-6.06	-6.63
1 30	0.04	-0.47	-0.48	-0.02	-0.22	0.28	0.87	3.24	4.38	6.47	-6.45	-7.01	-7.01
2 0	0.07	-0.59	-0.48	-0.02	-0.29	0.24	1.24	3.18	4.33	6.47	-6.46	-6.53	-6.91
2 30	-0.23	-0.68	-0.49	-0.02	-0.27	0.25	1.00	3.13	4.29	6.47	-6.26	-6.58	-6.88
3 0	-0.29	-0.61	-0.48	-0.02	-0.47	0.17	0.86	3.09	4.24	6.47	-6.10	-6.80	-7.25
3 30	-0.17	-0.53	-0.45	-0.02	-1.04	-0.34	0.36	3.00	4.20	6.48	-6.85	-7.15	-7.80
4 0	0.16	-0.54	-0.50	-0.02	-1.36	-0.62	0.20	2.93	4.16	6.48	-6.92	-7.54	-8.29
4 30	-0.20	-0.67	-0.49	-0.02	-1.66	-0.62	0.38	2.87	4.11	6.48	-7.05	-7.71	-8.83
5 0	0.12	-0.49	-0.46	-0.02	-1.92	-0.75	0.07	2.82	4.07	6.48	-7.48	-7.90	-8.96
5 30	0.11	-0.54	-0.45	-0.02	-2.10	-0.80	-0.23	2.77	4.02	6.48	-7.84	-8.00	-8.92
6 0	-0.09	-0.61	-0.48	-0.02	-2.39	-1.25	-0.32	2.73	3.98	6.49	-7.96	-8.19	-9.02
6 30	0.33	-0.68	-0.49	-0.02	-2.46	-1.50	-0.14	2.66	3.94	6.49	-7.83	-8.55	-9.16
7 0	2.01	-0.47	-0.46	-0.03	-2.58	-1.40	-0.15	2.63	3.91	6.49	-7.39	-8.16	-8.91
7 30	6.52	-0.05	-0.42	-0.02	-2.18	-1.42	-0.33	2.62	3.87	6.49	-6.62	-7.40	-7.57
8 0	11.31	-0.50	-0.44	-0.02	-1.20	-0.83	-0.05	2.63	3.84	6.49	-6.44	-6.44	-5.73
8 30	16.86	1.14	-0.25	-0.02	-0.08	0.01	0.42	2.67	3.81	6.49	-5.99	-5.86	-5.23
9 0	23.23	2.86	-0.04	-0.03	1.32	1.28	1.60	2.78	3.78	6.50	-6.15	-5.49	-4.30
9 30	27.61	3.70	0.72	-0.02	2.36	2.23	2.36	2.91	3.77	6.49	-6.34	-6.04	-5.03
10 0	26.34	2.46	-0.06	-0.03	3.13	3.06	3.01	3.10	3.78	6.50	-6.80	-6.28	-5.49
10 30	30.98	4.62	0.19	-0.02	3.82	3.80	3.66	3.33	3.81	6.50	-6.61	-6.45	-6.09
11 0	26.57	2.96	-0.03	-0.02	4.45	4.38	4.23	3.62	3.85	6.50	-7.21	-7.53	-6.76
11 30	29.20	3.94	0.09	-0.02	4.97	4.84	4.65	3.81	3.91	6.50	-7.72	-7.83	-7.27
12 0	29.43	6.53	0.19	-0.03	5.36	5.23	5.09	4.05	3.98	6.50	-7.87	-7.94	-7.72
12 30	26.58	5.83	0.32	-0.02	5.58	5.50	5.30	4.28	4.06	6.50	-7.66	-7.76	-7.58
13 0	23.03	5.36	0.26	-0.02	5.65	5.60	5.48	4.39	4.15	6.50	-7.74	-7.76	-7.58
13 30	17.92	3.40	0.05	-0.03	5.71	5.70	5.60	4.41	4.22	6.50	-7.79	-7.64	-7.37
14 0	16.86	3.48	0.06	-0.02	5.80	5.80	5.83	4.39	4.29	6.50	-7.51	-7.27	-6.88
14 30	12.72	1.83	-0.13	-0.03	5.73	5.76	5.85	4.41	4.34	6.50	-7.92	-7.53	-7.16
15 0	7.98	-0.22	-0.16	-0.01	5.55	5.63	5.76	4.39	4.39	6.50	-7.98	-7.50	-7.15
15 30	4.27	-1.39	-0.49	-0.02	5.11	5.27	5.40	4.30	4.42	6.50	-7.52	-7.31	-7.15
16 0	1.79	-2.15	-0.58	-0.02	4.67	4.88	5.09	4.21	4.44	6.50	-7.17	-6.99	-6.81
16 30	0.23	-2.73	-0.69	-0.02	3.97	4.30	4.72	4.12	4.45	6.50	-6.66	-6.56	-6.37
17 0	-0.08	-2.96	-0.70	-0.03	3.17	4.23	4.98	4.01	4.46	6.50	-6.21	-6.50	-6.23
17 30	0.08	-2.91	-0.73	-0.02	2.80	3.87	4.35	3.93	4.44	6.50	-6.22	-6.41	-6.26
18 0	-0.05	-2.69	-0.73	-0.02	2.31	3.47	4.23	3.83	4.42	6.49	-6.55	-6.27	-6.45
18 30	-0.01	-2.05	-0.64	-0.03	2.18	3.07	3.84	3.75	4.40	6.50	-6.35	-6.11	-6.11
19 0	0.04	-2.06	-0.59	-0.02	2.22	2.79	3.44	3.68	4.37	6.50	-6.33	-6.29	-6.10
19 30	0.06	-2.28	-0.59	-0.02	2.14	2.71	3.50	3.63	4.35	6.50	-6.19	-6.02	-6.13
20 0	-0.19	-1.96	-0.53	-0.									

## 第 2 篇 (气温日变化表)

## 第 2 篇 (気温日変化表)

### 1 要素の説明

気温：Air Temperature (LOW, MID, UPP)

観測鉄塔に取りつけた通風式白金抵抗温度計によって得られた気温の自記記録紙から読み取った値である。読み取りは3時間間隔におこない、8個の平均から日平均値(D-MEAN)を求めた。同時に、1日8回の読み取り値のうち最大値(D-MAX)、最小値(D-MIN)を求めた。また、各時間別月平均値(T-MEAN)と月平均値を求めた。

表に示されているLOW, MIDおよびUPPは観測鉄塔でのそれぞれ地表面からの高度1.6m, 12.4mおよび30.0mにおける観測値である。単位は°Cである。

なお、数値99.90は欠測を示し、平均値を求める場合の母数に含まれていない。

### 2 統計期間

LOW (1.6 m)

1978年1月1日～1月20日, 2月7日～2月25日, 2月27日～3月22日, 4月7日～9月28日, 10月1日～1979年3月31日。

MID (12.4 m)

1978年10月15日～1979年3月31日。

UPP (30.0 m)

1978年10月15日～1979年3月31日。

なお、表中の月を示す英文字は次の通りである。

JAN	-	1月	MAY	-	5月	SEP	-	9月
FEB	-	2月	JUN	-	6月	OCT	-	10月
MAR	-	3月	JUL	-	7月	NOV	-	11月
APR	-	4月	AUG	-	8月	DEC	-	12月

Fig. 7に地上1.6mにおける気温の年変化を示す。(林 陽生)

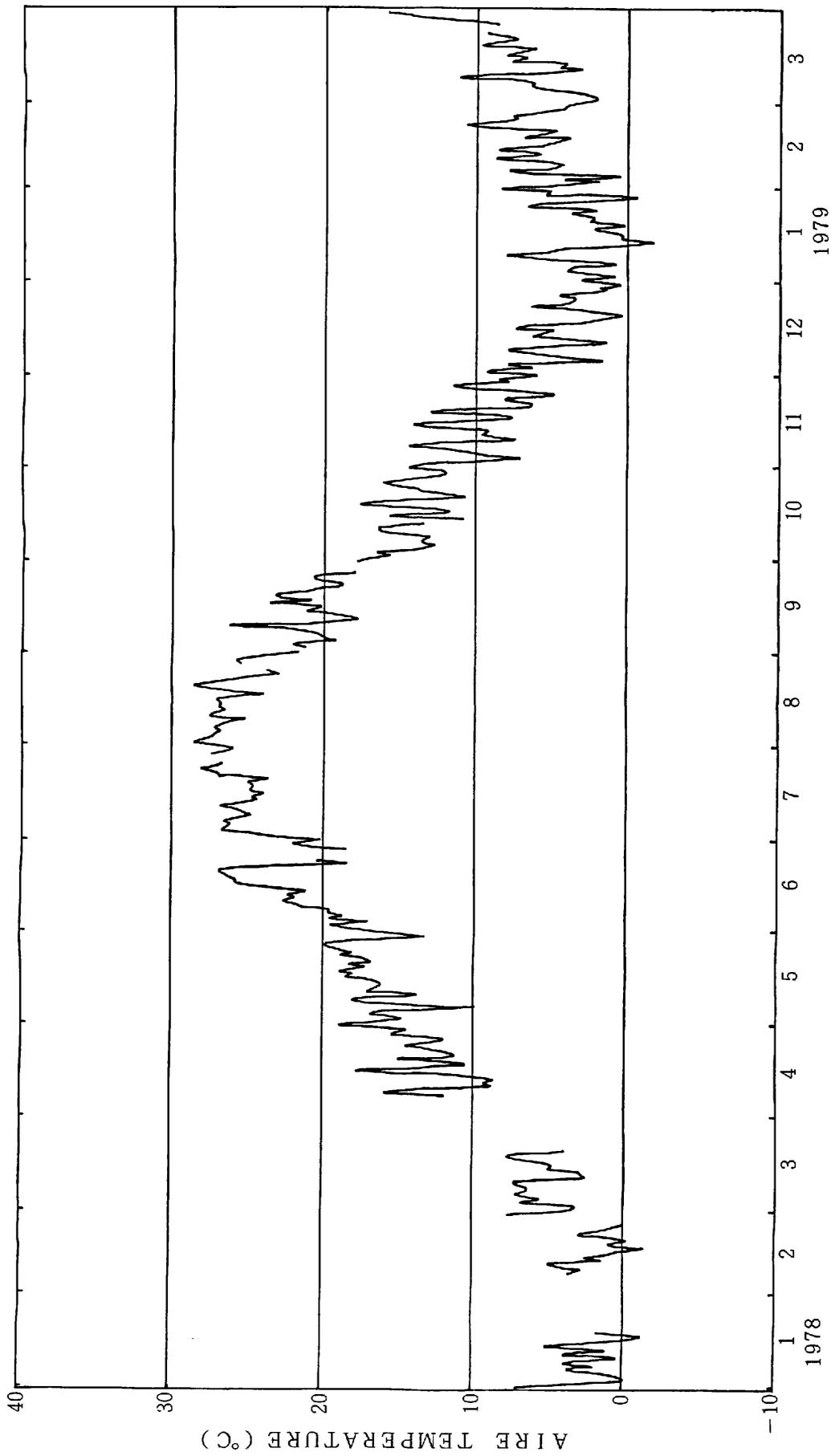


Fig. 7 Annual variation of daily mean temperature. ( 16m above ground surface ). ( 1978. 1. 1~1979. 3. 31 )

1978 DAY	JAN 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	6.07	5.00	4.60	5.70	9.50	9.70	9.00	7.50	7.13	9.70	4.60
2	5.90	0.70	-0.70	2.10	5.80	4.80	4.80	3.00	3.30	5.90	-0.70
3	3.50	-1.00	-1.60	-0.90	1.70	2.60	-1.10	-3.30	-0.01	1.50	-3.10
4	-4.87	-6.20	-7.20	-0.90	4.10	6.10	0.10	-1.10	-1.53	6.10	-7.20
5	-3.00	-5.20	-2.80	1.70	5.80	8.70	0.10	-0.80	0.56	8.70	-5.20
6	-2.50	-3.00	-0.40	4.20	9.10	10.50	1.80	-0.30	2.43	10.50	-3.00
7	-1.20	-2.20	-2.70	3.60	10.70	13.10	7.40	0.20	3.64	13.10	-2.70
8	-1.30	1.00	0.30	1.00	4.70	7.40	1.10	0.30	1.81	7.40	-1.30
9	-1.00	-0.30	-3.10	1.30	10.00	11.00	6.10	6.70	3.84	11.00	-3.10
10	3.20	1.10	0.90	2.00	5.70	5.90	0.90	-3.00	2.09	5.90	-3.00
11	-4.00	-4.40	-7.00	2.00	6.90	9.30	0.50	-0.40	0.36	9.30	-7.00
12	-2.30	-2.70	-2.80	5.20	12.80	12.50	6.10	2.70	3.94	12.80	-2.80
13	-2.00	-3.50	-3.90	-0.70	5.10	8.90	4.90	3.70	1.56	8.90	-3.90
14	5.30	3.00	2.80	2.90	9.40	12.20	5.40	1.90	5.11	12.20	1.90
15	0.80	0.30	-1.30	2.00	9.50	13.60	7.70	4.90	4.69	13.60	-1.30
16	4.40	5.20	0.90	3.00	3.40	4.30	-0.20	-2.70	2.25	5.20	-2.70
17	-4.20	-3.30	-4.60	-0.50	4.60	5.90	-0.20	-2.20	-0.56	5.90	-4.60
18	-4.40	-2.70	-1.70	-1.20	-0.50	0.10	0.30	0.20	-1.24	0.30	-4.40
19	-1.20	-2.70	-2.80	-1.30	4.40	9.10	4.30	3.00	1.63	9.10	-2.80
20	-1.10	0.	-2.60	2.00	7.20	8.30	5.40	99.90	2.74	8.30	-2.60
21	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
22	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
23	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
24	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
25	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
26	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
27	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
28	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
29	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
30	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
31	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
T-MEAN	-0.29	-1.08	-1.79	1.66	6.50	8.19	3.22	1.07	2.19		

1978 DAY	FEB 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
2	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
3	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
4	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
5	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
6	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
7	99.90	99.90	99.90	99.90	7.50	10.40	6.00	-1.80	5.53	10.40	-1.80
8	-2.00	2.20	0.20	4.20	8.00	9.20	4.40	2.00	3.53	9.20	-2.00
9	0.50	-1.70	-3.20	1.80	6.50	7.30	6.20	3.90	2.66	7.30	-3.20
10	2.30	1.70	1.90	2.30	5.70	7.30	6.20	5.80	4.15	7.30	1.70
11	5.70	5.10	4.00	4.00	6.00	6.70	5.70	2.50	4.96	6.70	2.50
12	0.10	0.70	0.90	1.90	3.80	2.50	1.20	0.10	1.40	3.80	0.10
13	0.	0.	-2.10	-0.50	5.70	10.00	4.90	2.30	2.54	10.00	-2.10
14	1.20	-0.70	-1.20	0.50	2.80	3.50	1.60	0.50	1.15	3.50	-1.20
15	1.00	0.60	0.	-1.20	1.80	3.00	1.90	-2.80	0.54	3.00	-2.80
16	-2.70	-6.10	-8.00	-0.10	2.50	4.40	0.10	-1.60	-1.44	4.40	-8.00
17	-0.20	-1.70	-1.50	-0.10	3.00	3.30	1.10	0.70	0.58	3.30	-1.70
18	-1.00	-2.60	-4.50	1.10	5.80	5.50	3.70	-1.00	0.87	5.80	-4.50
19	-0.90	-3.70	-3.70	0.40	3.80	3.50	0.20	-1.90	-0.29	3.80	-3.70
20	-3.80	-5.70	-5.80	2.00	8.60	9.70	3.20	1.20	1.18	9.70	-5.80
21	2.10	-2.60	-4.00	2.10	10.70	8.70	4.00	1.60	2.83	10.70	-4.00
22	-0.70	-1.70	-1.70	3.30	8.50	8.50	1.60	-1.90	1.99	8.50	-1.70
23	-1.30	-4.00	-3.20	1.60	6.80	5.50	1.50	-0.20	0.84	6.80	-4.00
24	-3.80	-6.70	-7.10	1.00	5.00	7.20	2.50	1.00	-0.11	7.20	-7.10
25	0.80	-3.70	-1.30	2.10	4.50	99.90	99.90	99.90	-0.12	4.50	-4.30
26	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
27	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
28	5.80	1.00	1.10	7.40	11.80	13.10	10.30	10.10	7.58	13.10	1.00
T-MEAN	0.22	-1.56	-2.22	1.78	5.94	7.20	3.73	1.41	2.13		

1978 DAY	MAR 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	7.30	8.10	5.10	6.20	6.30	6.70	0.30	0.30	4.79	8.10	0.30
2	-2.40	0.20	-4.20	3.80	8.90	10.50	7.10	2.30	3.28	10.50	-4.20
3	-1.30	-3.50	-4.20	1.20	9.00	11.00	8.10	5.20	3.16	11.00	-4.20
4	2.30	0.20	0.30	8.10	13.60	11.80	9.80	7.90	6.75	13.60	0.20
5	6.00	3.00	0.20	5.00	8.10	10.00	6.40	5.50	5.53	10.00	0.20
6	3.90	3.90	3.00	6.70	10.10	11.10	7.90	5.00	6.45	11.10	3.00
7	4.90	5.30	1.90	7.10	10.50	12.40	8.20	6.50	7.10	12.40	1.90
8	4.90	2.90	1.40	9.20	7.70	11.50	7.00	5.70	6.29	11.50	1.40
9	5.40	5.30	4.70	6.70	9.00	8.70	5.60	5.00	6.35	9.00	4.70
10	5.20	5.20	4.80	6.40	8.70	9.30	9.70	6.70	7.00	9.70	4.80
11	5.70	4.40	4.30	9.10	11.30	11.90	7.20	3.20	7.14	11.90	3.20
12	1.80	-1.90	-0.60	2.70	7.40	6.90	4.10	0.	2.55	7.40	-1.90
13	-0.50	-2.00	-3.30	4.00	8.30	8.30	5.50	1.70	2.75	8.30	-3.30
14	-0.20	-3.90	-5.20	5.60	9.10	8.60	5.40	3.60	2.88	9.10	-5.20
15	1.90	1.10	-0.70	5.00	9.20	10.50	7.00	5.00	4.88	10.50	-0.70
16	3.90	2.40	1.50	5.00	7.70	9.50	5.90	2.10	4.65	9.50	1.50
17	0.50	0.90	-1.60	5.20	11.20	12.70	7.30	4.90	5.15	12.70	-1.60
18	4.30	2.20	2.90	7.00	10.60	11.80	8.30	6.70	6.73	11.80	2.20
19	7.40	6.20	6.60	6.90	8.20	10.60	9.10	6.10	7.64	10.60	6.10
20	4.50	2.60	2.90	8.00	11.90	13.40	9.90	5.60	7.10	13.40	2.60
21	0.	-0.30	0.	6.70	8.00	7.50	5.20	3.80	3.86	8.00	-0.30
22	4.30	5.00	3.00	4.00	6.30	99.90	99.90	99.90	4.56	6.50	3.00
23	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
24	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
25	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
26	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
27	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
28	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
29	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
30	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
31	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
T-MEAN	3.15	2.15	1.04	5.89	9.15	10.13	6.90	4.32	5.31		

1978 DAY	APR 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
2	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
3	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
4	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
5	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
6	99.90	99.90	99.90	99.90	99.90	99.90	99.90	99.90	*****	*****	*****
7	99.90	99.90	99.90	99.90	99.90	12.50	10.00	7.60	9.97	12.30	7.60
8	6.00	6.10	4.20	12.90	18.90	20.50	15.10	12.10	11.98	20.50	4.20
9	9.70	9.20	9.80	19.00	21.90	21.10	19.50	16.10	15.79	21.90	9.20
10	13.30	8.70	7.70	11.70	15.60	17.30	12.30	9.50	12.01	17.30	7.70
11	9.00	6.70	7.10	9.20	11.60	10.40	8.30	8.10	8.80	11.60	6.70
12	7.00	6.30	6.80	9.40	11.70	11.40	11.30	9.20	9.14	11.70	6.30
13	7.70	5.30	8.10	9.20	9.50	10.30	10.10	8.40	8.58	10.30	5.30
14	6.00	5.10	5.80	10.90	13.40	14.70	11.80	11.10	9.85	14.70	5.10
15	11.50	8.10	8.20	99.90	17.90	20.40	17.80	15.40	14.19	20.40	8.10
16	15.00	15.00	15.70	19.00	19.00	20.70	19.00	18.10	17.69	20.70	15.00
17	18.20	16.00	14.20	14.00	13.70	12.90	11.20	10.30	13.81	18.20	10.30
18	9.20	9.50	9.40	12.90	12.20	11.50	9.90	10.10	10.56	12.90	9.20
19	11.20	9.30	8.30	12.80	15.60	13.70	11.70	10.80	11.67	15.60	8.30
20	10.80	10.70	12.00	15.00	19.90	22.10	16.40	12.20	14.89	22.10	10.70
21	11.20	10.10	10.00	11.40	11.70	12.10	12.50	10.20	11.15	12.50	10.00
22	8.50	8.00	5.50	12.40	15.00	17.30	13.30	11.60	11.45	17.30	5.50
23	10.70	9.00	6.10	13.70	18.00	18.30	14.50	13.00	12.66	18.00	6.10
24	12.90	12.80	12.90	15.40	16.70	14.80	15.40	14.30	14.40	16.70	12.80
25	14.00	13.30	11.70	14.10	99.90	18.90	12.10	10.20	13.47	18.90	10.20
26	4.70	2.50	5.00	13.60	17.40	19.20	14.40	12.70	11.84	19.20	2.50
27	9.50	8.50	8.60	13.70	20.10	19.90	17.50	13.50	13.89	20.10	8.50
28	9.80	8.10	9.50	17.80	20.90	21.00	22.00	13.80	15.36	22.00	8.10
29	14.50	12.70	11.90	12.50	15.90	15.90	15.70	15.00	14.26	15.90	11.90
30	13.30	13.20	13.10	14.70	17.00	18.60	17.40	17.10	15.55	18.60	13.10
T-MEAN	10.60	9.30	9.70	13.42	16.08	16.38	14.34	12.10	12.68		

1978 DAY	MAY 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	17.20	17.50	17.90	19.20	19.90	20.40	20.20	18.20	18.81	20.40	17.20
2	17.00	17.00	17.10	19.60	20.80	17.10	15.50	11.30	16.92	20.80	11.30
3	9.70	10.00	9.20	16.10	21.10	19.70	17.20	15.40	14.80	21.10	9.20
4	13.30	12.40	12.20	18.20	22.70	21.40	18.00	16.30	16.81	22.70	12.20
5	13.90	11.20	11.80	19.10	24.00	22.50	14.00	16.30	16.60	24.00	11.20
6	14.70	12.20	11.30	12.60	14.30	18.30	11.60	9.20	13.03	18.30	9.20
7	8.90	8.30	7.20	7.60	11.00	12.00	12.30	11.00	9.79	12.30	7.20
8	10.90	10.30	11.00	14.70	18.70	18.30	16.10	15.50	14.44	18.70	10.30
9	15.00	14.80	15.10	18.70	18.50	18.10	19.10	18.10	17.18	19.10	14.80
10	18.10	17.70	17.20	17.90	18.80	18.90	18.00	17.50	18.01	18.90	17.20
11	17.30	13.90	12.80	13.10	14.10	13.20	12.80	11.80	13.63	17.30	11.80
12	12.00	12.50	12.50	17.50	21.40	23.40	20.80	16.50	17.08	23.40	12.00
13	15.50	17.80	12.80	17.20	19.60	19.90	16.70	13.70	16.65	19.90	12.80
14	13.70	12.80	13.30	18.50	19.60	19.60	16.90	14.00	16.05	19.60	12.80
15	12.00	11.80	12.00	19.80	21.10	21.50	17.20	14.20	16.20	21.50	11.80
16	11.00	10.00	11.20	18.00	23.80	24.70	19.70	14.70	16.64	24.70	10.00
17	14.20	12.80	13.50	19.10	24.20	24.50	21.00	18.20	18.44	24.50	12.80
18	17.10	16.90	11.70	19.40	21.00	20.50	19.10	17.80	17.94	21.00	11.70
19	18.20	18.80	13.70	19.10	20.90	20.10	21.00	18.50	18.79	21.00	13.70
20	17.70	16.10	17.10	18.00	18.30	18.50	16.30	15.20	17.15	18.50	15.20
21	14.90	14.30	14.30	18.90	22.30	24.30	20.70	16.10	18.23	24.30	14.30
22	15.90	14.40	15.20	17.20	19.10	20.90	16.90	15.10	16.84	20.90	14.40
23	13.50	11.10	12.90	18.80	22.00	23.80	19.50	17.10	17.34	23.80	11.10
24	16.40	14.20	15.10	20.00	22.50	23.50	19.90	16.10	18.71	23.50	14.20
25	16.60	13.20	16.70	21.00	21.40	20.40	17.70	15.10	18.01	21.40	15.10
26	14.50	13.90	15.10	21.30	24.90	25.00	21.70	17.10	19.19	25.00	13.90
27	14.10	12.80	14.90	21.70	26.00	27.10	22.30	18.90	19.73	27.10	12.80
28	16.70	15.90	16.00	21.50	23.90	24.10	21.00	19.10	19.78	24.10	15.90
29	19.50	18.60	18.50	20.10	22.70	20.20	15.90	14.70	18.78	22.70	14.70
30	14.00	13.10	11.30	12.10	12.90	13.50	14.00	14.00	13.11	14.00	11.30
31	12.90	8.30	13.10	17.50	20.00	21.00	18.50	15.40	15.84	21.00	8.30
T-MEAN	14.72	13.76	13.67	17.85	20.37	20.53	17.79	15.62	16.79		

1978 DAY	JUN 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	10.80	8.70	12.50	22.90	25.20	27.00	23.90	15.10	18.26	27.00	8.70
2	11.90	9.20	12.30	21.10	26.70	27.20	22.80	19.90	18.89	27.20	9.20
3	15.70	12.70	14.80	20.50	25.30	26.70	22.00	18.20	19.49	26.70	12.70
4	17.60	17.20	16.90	16.90	16.30	17.40	17.70	16.40	17.05	17.70	16.30
5	16.40	13.80	15.30	21.30	25.30	25.80	99.90	18.80	19.53	25.80	13.80
6	16.80	16.80	15.70	21.30	23.50	23.60	16.70	17.00	18.68	23.60	14.70
7	17.00	16.30	16.70	20.00	23.20	23.90	21.70	18.50	19.64	23.90	16.30
8	15.40	14.50	16.50	21.60	25.30	26.40	23.00	13.90	19.58	26.40	13.90
9	16.50	17.40	18.30	22.50	27.00	27.00	23.90	20.30	21.61	27.00	16.50
10	18.30	17.90	19.70	23.70	26.20	24.40	23.10	20.90	21.78	26.20	17.90
11	20.20	19.20	20.20	25.00	25.00	25.50	23.70	21.70	22.56	25.50	19.20
12	20.00	19.00	19.10	23.20	25.10	24.70	22.30	21.90	21.91	25.10	19.00
13	21.30	20.80	20.70	21.10	22.10	26.50	24.20	21.50	22.28	26.50	20.70
14	20.10	19.80	20.20	19.60	23.70	25.30	21.70	18.30	21.09	25.30	18.30
15	17.10	16.80	17.10	22.10	28.30	30.00	25.70	18.30	21.09	30.00	16.80
16	23.00	23.70	24.10	27.80	27.30	27.50	24.90	23.20	25.29	27.40	23.20
17	23.00	21.10	24.00	29.50	30.10	29.10	25.30	23.40	25.79	30.10	23.00
18	22.70	22.30	23.50	21.50	30.20	29.50	26.70	23.70	25.76	30.20	21.50
19	23.00	22.80	24.30	29.70	30.20	29.20	26.10	24.90	26.15	30.20	22.80
20	23.50	22.80	23.10	28.20	31.00	27.90	25.80	29.70	26.50	31.00	22.80
21	24.70	25.00	25.10	28.00	29.20	29.40	28.50	24.70	26.83	29.40	24.70
22	23.20	23.00	23.10	23.80	29.50	29.00	26.10	23.00	25.09	29.50	23.00
23	18.00	17.90	18.30	18.30	18.90	19.00	18.80	18.50	18.44	19.00	17.90
24	18.30	18.60	17.20	20.00	22.10	22.90	22.10	21.90	20.39	22.90	17.20
25	20.30	20.00	20.80	99.90	23.10	23.70	24.30	23.80	22.57	25.70	20.00
26	22.40	99.90	99.90	99.90	99.90	99.90	99.90	99.90	22.40	22.40	22.40
27	99.90	99.90	99.90	99.90	21.50	20.80	20.00	18.60	20.25	21.60	18.60
28	18.00	18.40	17.90	17.30	20.00	19.40	18.40	18.00	18.54	20.00	17.30
29	17.70	17.70	18.10	22.20	25.00	25.10	21.80	19.30	20.49	25.10	17.70
30	18.50	17.90	18.60	23.10	26.70	27.00	24.00	20.10	21.99	27.00	17.90
T-MEAN	19.05	18.35	19.08	22.81	25.28	25.64	22.97	20.64	21.74		

1978 DAY	JUL 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	19.97	18.70	19.90	20.20	20.70	20.97	21.10	20.47	20.20	21.10	18.70
2	20.00	20.10	20.70	24.20	26.10	27.70	26.30	23.20	21.56	27.70	20.00
3	22.07	20.70	21.40	24.70	26.60	29.10	27.60	24.40	24.56	29.10	20.70
4	21.30	23.20	22.90	26.90	30.10	31.40	28.70	26.40	26.58	31.40	22.90
5	23.70	24.90	25.30	28.70	29.10	29.30	26.30	24.00	26.51	29.30	24.00
6	23.70	22.60	23.10	27.60	30.30	30.50	27.10	24.70	26.23	30.50	22.60
7	23.00	22.30	23.70	27.00	30.90	31.90	28.30	25.30	25.81	31.90	22.30
8	23.70	23.40	24.30	28.10	31.30	31.00	22.40	22.30	25.81	31.30	22.30
9	21.30	21.60	22.20	24.00	27.90	29.20	27.80	24.80	24.85	29.20	21.30
10	23.50	23.00	24.00	26.60	24.70	30.10	27.20	23.40	25.34	30.10	23.00
11	21.20	21.20	25.40	25.10	28.20	29.60	26.80	24.60	25.76	29.60	21.20
12	23.70	23.20	29.70	26.80	28.80	30.40	27.20	24.20	26.75	30.40	23.20
13	22.90	21.30	23.50	27.50	28.50	29.20	27.00	23.40	25.39	29.20	21.30
14	22.00	20.30	21.70	25.80	28.10	29.30	25.30	22.90	24.42	29.30	20.30
15	22.30	21.70	23.30	26.70	28.20	27.70	25.00	21.90	24.60	28.20	21.70
16	20.50	20.30	21.20	25.20	28.00	28.20	25.90	22.00	23.91	28.20	20.30
17	21.70	21.10	23.50	26.20	29.10	28.80	25.50	23.00	24.86	29.10	21.10
18	21.20	20.00	26.90	26.00	29.00	28.40	24.70	22.60	24.85	29.00	20.00
19	21.80	20.00	21.10	26.20	29.90	29.80	25.10	23.60	24.69	29.90	20.00
20	22.20	21.80	22.70	26.90	28.70	28.90	25.60	23.00	24.98	28.90	21.80
21	22.30	20.60	22.00	23.00	27.10	25.10	24.70	23.70	23.56	27.10	20.60
22	23.90	23.70	24.20	28.40	30.50	31.60	28.00	25.10	26.93	31.60	23.70
23	24.20	23.00	23.90	28.30	32.10	32.80	26.30	23.90	27.06	32.80	23.00
24	24.90	24.70	24.70	29.30	31.90	33.50	29.30	25.90	28.02	33.50	24.70
25	24.90	24.00	24.80	28.80	32.40	33.90	28.30	25.00	26.89	32.40	24.00
26	23.60	21.70	24.00	27.30	31.10	31.50	28.30	24.80	26.72	31.50	21.70
27	22.70	21.80	22.80	27.90	31.30	32.90	28.20	29.90	26.80	32.90	21.80
28	22.70	21.80	22.80	27.90	31.30	32.90	28.20	29.90	26.80	32.90	21.80
29	24.00	23.10	24.10	29.30	32.10	32.30	28.80	25.10	27.35	32.30	23.10
30	22.60	22.10	23.00	28.40	31.40	31.10	28.70	24.50	26.48	31.40	22.10
31	22.20	21.00	22.90	29.30	30.00	29.70	27.60	25.20	25.99	30.00	21.00
T-MEAN	22.76	22.04	23.43	26.60	29.22	29.79	26.67	24.02	25.59		
1978 DAY	AUG 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	25.00	24.00	24.60	27.20	29.40	27.00	28.10	25.70	26.38	29.40	24.00
2	25.60	25.10	25.20	31.20	33.10	31.50	29.00	27.20	28.49	33.10	25.10
3	26.80	26.60	27.50	28.60	29.60	29.10	27.90	26.80	27.86	29.60	26.60
4	26.70	26.20	26.40	27.40	29.20	30.00	27.90	25.20	27.38	30.00	25.20
5	24.50	22.80	22.80	29.60	32.60	32.70	28.50	24.30	27.23	32.70	22.80
6	24.00	21.00	21.70	28.40	31.10	33.20	29.90	25.80	26.89	33.20	21.00
7	24.00	23.50	24.10	28.90	31.80	31.70	28.00	25.50	27.19	31.80	23.50
8	24.80	22.90	24.00	29.20	30.80	30.80	27.20	25.80	26.94	30.80	22.90
9	25.30	24.90	24.50	27.90	31.50	29.40	25.00	23.60	26.51	31.50	23.60
10	22.50	22.10	22.50	24.20	28.30	30.20	26.70	24.60	25.14	30.20	22.10
11	24.00	22.70	23.10	29.00	33.30	33.50	29.10	25.40	27.51	33.50	22.70
12	23.80	22.90	23.20	29.80	32.50	32.80	27.80	25.10	27.24	32.80	22.90
13	23.90	23.70	23.30	28.70	32.20	32.60	23.10	25.40	26.61	32.60	23.70
14	23.60	22.60	23.60	28.90	31.90	31.20	28.00	25.90	26.96	31.90	22.60
15	23.90	22.00	21.60	29.90	31.10	31.20	28.70	26.50	26.86	31.20	21.60
16	25.10	24.00	23.60	28.20	31.10	31.90	27.80	25.20	27.11	31.90	23.60
17	23.80	22.00	24.30	31.20	28.30	29.10	25.40	24.40	26.06	31.20	22.00
18	23.60	23.10	23.00	26.10	25.40	25.10	23.00	22.20	23.94	26.10	22.20
19	22.30	22.20	22.20	23.80	29.70	32.70	27.90	23.40	25.44	32.70	22.20
20	23.60	22.50	23.30	26.90	32.10	31.90	28.30	26.10	26.84	32.10	22.50
21	25.10	25.20	24.90	30.60	33.60	32.90	29.20	26.00	28.44	33.60	24.90
22	24.90	22.40	22.10	29.80	34.90	35.40	29.20	23.20	27.74	35.40	22.40
23	21.20	19.80	20.20	24.70	32.80	33.80	28.40	25.20	26.26	33.80	19.80
24	23.00	20.90	19.80	27.40	32.90	31.00	26.20	22.60	25.48	32.90	19.80
25	20.90	19.60	17.00	25.30	27.60	27.80	23.70	21.40	22.91	27.80	17.00
26	20.40	18.30	18.20	25.80	29.30	28.00	25.90	23.50	23.68	29.30	18.30
27	21.40	19.30	19.90	29.90	30.90	30.90	29.90	29.90	20.35	30.90	19.30
28	22.90	20.00	19.90	26.80	31.30	30.10	26.80	22.50	27.35	31.30	20.00
29	20.90	20.00	19.80	26.80	31.30	32.30	28.00	24.70	25.48	32.30	19.80
30	21.90	21.70	22.50	26.70	30.10	31.00	27.10	24.20	25.65	31.00	21.70
31	23.40	22.80	21.80	26.00	28.40	28.20	23.70	22.60	24.61	28.40	21.80
T-MEAN	23.64	22.56	22.79	28.01	30.86	30.91	27.18	24.67	26.34		
1978 DAY	SEP 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	21.90	22.10	22.00	22.00	22.50	22.50	19.90	19.60	21.63	22.50	19.60
2	18.80	16.00	17.00	23.50	26.80	26.80	21.90	20.00	20.57	26.80	16.00
3	20.60	18.10	17.30	21.50	26.00	24.90	21.10	20.20	21.21	26.00	17.30
4	19.90	19.70	20.50	21.60	24.70	25.50	22.40	21.30	21.95	25.50	19.70
5	19.50	18.70	19.00	20.00	19.90	19.50	19.10	17.90	19.20	20.00	17.90
6	17.80	16.00	15.70	19.90	23.90	25.10	22.20	19.20	20.00	25.10	15.70
7	17.00	17.50	19.10	21.00	24.00	23.90	19.90	18.90	20.16	24.00	17.00
8	19.40	17.60	18.10	22.80	24.20	24.40	20.00	18.00	20.56	24.40	17.60
9	17.10	14.50	15.00	22.80	27.50	29.00	24.80	23.80	21.81	29.00	14.50
10	23.00	22.00	21.10	27.50	32.70	32.00	27.80	23.90	26.23	32.70	21.10
11	23.50	22.90	21.30	20.90	21.30	19.90	19.30	19.70	21.10	23.50	19.30
12	19.30	18.20	17.10	18.10	18.00	18.00	17.20	16.90	17.85	19.30	16.90
13	15.80	15.80	16.00	18.00	20.20	20.10	19.90	20.50	18.29	20.50	15.80
14	18.90	18.00	19.50	21.70	22.00	21.10	20.40	18.80	20.05	22.00	18.00
15	18.70	18.90	18.40	24.00	25.00	23.60	21.10	19.00	21.15	25.00	18.40
16	17.80	18.20	19.80	21.70	23.00	21.80	19.90	19.50	20.09	23.00	17.80
17	19.30	19.10	19.50	23.50	31.00	30.40	24.80	20.90	23.59	31.00	19.10
18	19.10	14.20	14.40	24.40	27.50	26.50	20.40	20.00	20.81	27.50	14.20
19	20.90	19.50	18.70	23.50	25.60	27.90	24.50	22.50	22.89	27.90	18.70
20	20.90	19.60	19.80	24.00	27.90	27.80	24.10	21.40	23.19	27.90	19.60
21	21.70	21.10	20.90	21.30	22.10	22.30	19.30	19.50	21.02	22.10	19.30
22	19.10	18.50	18.70	22.50	24.50	22.80	18.50	18.30	20.34	24.50	18.30
23	17.00	17.10	17.00	19.10	20.70	20.00	19.80	19.00	18.71	20.70	17.00
24	18.70	17.90	17.00	17.60	20.70	23.30	18.70	16.80	18.84	23.30	16.80
25	15.80	16.30	18.10	22.40	26.50	26.30	21.10	19.90	20.55	26.50	15.80
26	19.70	19.10	17.80	22.50	24.70	25.60	19.30	16.50	20.45	25.60	16.50
27	14.40	14.70	13.80	22.00	22.80	21.00	17.90	16.90	17.93	22.80	13.80
28	14.30	14.30	14.30	19.90	19.90	19.90	19.90	19.90	14.60	14.90	14.30
29	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90
30	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90
T-MEAN	18.94	18.07	18.15	21.84	24.19	24.22	20.98	19.59	20.69		

1978 DAY	OCT 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	16.00	14.20	13.10	20.10	22.30	21.80	17.40	16.90	17.73	22.30	13.10
2	16.20	12.60	11.70	18.40	23.10	22.20	17.20	16.50	17.24	23.10	11.70
3	10.90	8.40	9.30	17.80	22.40	22.40	17.70	16.10	15.43	22.40	8.40
4	13.10	11.30	9.90	18.10	22.70	21.60	17.60	16.00	16.56	22.70	9.90
5	17.80	14.10	13.80	14.20	13.80	13.10	11.50	11.20	13.71	17.80	11.20
6	11.40	11.50	11.80	12.90	14.20	15.10	13.20	10.90	12.63	15.10	10.90
7	10.50	9.60	12.30	14.90	17.70	16.40	12.40	13.40	13.40	17.70	9.60
8	13.20	9.40	11.00	15.60	16.20	16.90	13.00	12.80	13.51	16.90	9.40
9	8.40	7.50	7.20	13.70	19.90	17.70	14.70	15.00	13.01	19.90	7.20
10	14.70	14.00	15.50	15.90	20.00	15.30	15.80	14.00	15.65	20.00	14.00
11	14.10	14.60	15.60	18.70	19.40	17.00	16.10	15.20	16.34	19.40	14.10
12	14.10	14.70	13.90	17.80	19.70	19.60	15.60	14.90	16.29	19.70	13.90
13	13.70	12.80	11.90	15.20	15.90	15.30	12.40	10.00	13.40	15.90	10.00
14	7.00	3.90	2.50	12.00	99.90	17.70	10.10	9.60	8.97	17.70	2.50
15	6.70	5.70	6.10	11.90	15.70	15.00	12.70	12.20	10.75	15.70	5.70
16	12.20	13.40	14.00	16.70	22.10	20.80	15.50	9.80	15.56	22.10	9.80
17	7.80	5.50	4.70	13.70	19.40	20.00	11.10	8.20	11.55	20.00	4.70
18	7.10	5.30	4.10	13.60	19.40	19.90	15.40	13.50	12.54	19.90	4.10
19	14.90	14.10	13.10	13.80	16.50	17.30	16.70	16.60	15.38	17.30	13.10
20	16.50	16.30	16.30	17.50	19.40	20.40	17.70	16.90	17.63	20.40	16.30
21	15.70	16.50	15.10	18.50	20.10	19.50	14.10	9.30	16.10	20.10	9.30
22	8.10	4.10	4.30	14.30	17.10	18.30	11.80	9.50	10.69	18.30	4.10
23	6.50	8.30	7.90	8.00	19.00	21.10	15.70	14.30	12.60	21.10	6.50
24	10.90	9.70	7.80	13.30	19.80	19.20	15.60	13.20	13.69	19.80	7.80
25	11.20	10.20	8.50	13.00	19.50	20.30	14.20	12.80	13.71	20.30	8.50
26	12.20	10.10	9.30	14.70	21.70	20.90	17.70	16.50	15.39	21.70	9.30
27	14.70	13.60	13.70	18.10	19.70	16.70	15.80	16.20	16.06	19.70	13.60
28	15.80	15.00	17.40	15.30	14.50	13.70	12.90	12.90	14.69	17.40	12.90
29	11.50	11.00	11.70	12.30	13.20	13.70	13.30	12.90	12.45	13.70	11.00
30	12.00	9.20	8.50	12.90	15.50	16.60	9.30	11.80	11.98	16.60	8.50
31	12.80	7.10	8.50	11.50	16.70	17.00	12.50	10.60	12.09	17.00	7.10
T-MEAN	12.13	10.76	10.66	15.05	18.55	18.15	14.41	13.35	14.11		
1978 DAY	OCT 0	MIN 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15	9.20	7.30	6.10	11.70	15.20	14.80	12.80	12.20	11.16	15.20	6.10
16	12.20	13.70	14.00	16.20	21.90	21.10	17.10	15.00	16.40	21.90	12.20
17	10.50	10.40	6.70	15.00	18.10	19.60	14.80	12.70	13.48	19.60	6.70
18	9.80	8.20	5.40	11.00	18.80	19.60	15.80	15.80	13.14	19.60	5.40
19	15.00	14.20	13.00	13.60	16.20	17.20	16.70	16.50	15.30	17.20	13.00
20	16.40	16.20	16.20	17.30	19.10	20.00	17.70	17.00	17.49	20.00	16.20
21	16.00	16.40	15.80	18.20	19.20	19.20	15.00	10.60	16.30	19.20	10.60
22	9.90	7.90	6.30	14.90	16.40	17.80	13.60	12.00	12.35	17.80	6.30
23	8.40	8.40	7.90	7.70	18.10	20.80	17.40	15.60	13.04	20.80	7.70
24	13.00	10.20	8.40	12.70	19.20	19.50	18.30	16.50	14.73	19.50	8.40
25	12.10	10.80	8.50	12.70	19.10	20.20	17.50	15.70	14.58	20.20	8.50
26	12.70	11.50	10.30	14.60	21.00	20.70	18.10	16.70	15.70	21.00	10.30
27	16.70	14.00	13.70	17.90	19.50	16.60	15.80	16.30	16.06	19.50	13.70
28	16.00	15.00	17.40	15.30	14.50	13.70	12.90	12.90	14.71	17.40	12.90
29	11.50	10.90	12.00	12.20	13.10	13.60	13.30	13.20	12.48	13.60	10.90
30	12.50	10.20	9.00	12.70	15.20	16.40	12.80	12.30	12.64	16.40	9.00
31	12.60	8.30	10.10	11.30	16.30	16.80	13.30	12.30	12.63	16.80	8.30
T-MEAN	13.03	11.82	11.29	14.77	18.06	18.01	15.55	14.57	14.63		
1978 DAY	OCT 0	UPP 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15	10.80	7.60	6.10	11.40	14.80	14.60	12.80	12.20	11.29	14.80	6.10
16	12.20	14.40	14.20	16.30	21.80	21.80	18.30	16.10	16.91	21.80	12.20
17	11.00	12.30	9.20	14.30	17.70	19.50	15.30	14.80	14.51	19.50	9.20
18	11.90	7.80	6.10	12.70	18.70	19.70	16.50	16.00	13.68	19.70	6.10
19	15.20	14.20	12.90	13.40	16.00	17.10	16.70	16.50	15.23	17.10	12.90
20	16.40	16.20	16.20	17.10	18.80	20.00	17.80	17.10	17.45	20.00	16.20
21	16.70	16.40	16.10	18.00	18.80	19.40	16.10	12.00	16.49	19.40	12.00
22	10.70	9.40	9.30	14.80	16.20	17.70	14.20	13.20	13.19	17.70	9.30
23	11.60	8.50	7.90	7.40	17.70	20.60	18.40	16.50	13.58	20.60	7.40
24	15.70	10.80	9.30	12.50	19.00	19.70	19.20	17.70	15.49	19.70	9.30
25	13.00	12.30	8.50	12.70	18.90	20.10	18.80	18.80	15.39	20.10	8.50
26	14.10	12.60	13.90	14.30	20.60	20.60	18.20	17.70	16.50	20.60	12.60
27	15.30	14.00	13.70	17.70	19.30	16.40	15.80	17.20	16.18	19.30	13.70
28	16.70	15.30	17.90	15.20	14.50	13.80	13.10	13.50	15.06	17.90	13.10
29	12.00	10.90	12.30	12.10	12.90	13.50	13.60	13.70	12.43	13.70	10.90
30	13.10	11.30	10.40	12.60	15.00	16.40	13.40	12.80	13.13	16.40	10.40
31	12.70	11.10	11.40	11.10	16.00	16.80	14.10	13.60	13.35	16.80	11.10
T-MEAN	13.10	12.04	11.40	14.12	17.37	17.64	15.54	15.00	14.56		

1978 DAY	NOV 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	9.57	10.00	9.70	15.00	20.70	20.00	15.40	14.90	14.40	20.70	9.50
2	14.57	7.70	9.70	14.10	17.50	16.50	12.20	12.60	13.35	17.50	7.70
3	10.07	9.60	5.00	12.50	15.50	15.70	10.30	5.50	10.51	15.70	5.00
4	2.50	3.20	0.10	2.40	15.00	14.20	6.50	5.00	7.07	15.00	0.10
5	4.30	2.70	1.70	10.50	17.90	18.50	11.40	7.70	9.29	18.50	1.70
6	6.80	5.10	4.00	12.00	13.80	19.80	10.00	8.20	9.26	19.80	4.00
7	6.80	5.30	4.20	12.10	18.40	17.60	15.10	14.20	11.71	18.40	4.20
8	13.10	12.10	11.40	14.00	19.00	19.10	13.60	12.30	14.33	19.10	11.40
9	10.10	8.30	7.00	9.10	21.10	20.30	13.70	7.80	12.15	21.10	7.00
10	4.00	1.50	-0.10	9.80	13.80	12.80	9.30	7.50	7.33	13.80	-0.10
11	6.90	5.20	6.10	9.70	12.90	13.10	11.10	7.90	9.11	13.10	5.20
12	5.90	5.60	4.20	11.00	14.90	14.20	10.90	9.40	9.65	14.90	4.20
13	9.70	8.40	8.80	8.80	9.60	9.70	9.40	9.10	9.19	9.70	8.40
14	9.50	10.20	10.70	13.20	17.00	17.40	13.70	12.70	13.05	17.40	9.50
15	12.10	10.00	11.00	14.30	16.20	19.80	15.20	13.50	14.10	19.80	10.00
16	11.80	8.20	4.00	12.80	15.50	15.80	8.70	8.10	10.61	15.80	4.00
17	6.90	7.20	7.00	4.50	7.40	9.20	9.00	4.80	7.48	9.20	4.80
18	3.60	3.30	2.30	9.40	14.70	15.90	9.50	11.50	8.78	15.90	2.30
19	12.00	11.80	10.30	11.20	15.50	17.30	13.00	12.80	12.99	17.30	10.30
20	12.50	10.30	8.80	13.20	15.60	14.30	5.30	3.00	10.38	15.60	3.00
21	1.40	0.20	0.10	7.40	13.70	14.70	8.20	4.50	6.30	14.70	0.10
22	2.20	3.30	2.80	6.20	13.30	14.20	6.00	3.00	6.38	14.20	2.20
23	1.90	1.80	2.70	9.10	13.70	14.00	11.80	9.70	8.09	14.00	1.80
24	6.80	5.70	5.90	8.60	11.10	13.10	6.20	5.60	7.88	13.10	5.60
25	0.50	-0.90	-0.70	6.30	11.60	13.00	5.80	2.50	4.76	13.00	-0.90
26	1.50	0.40	0.90	6.10	13.20	13.20	11.30	10.30	7.11	13.20	0.40
27	9.90	9.20	9.40	9.40	10.70	11.50	11.20	11.30	10.30	11.10	9.20
28	11.10	10.80	9.60	10.10	15.10	16.30	10.50	8.10	11.45	16.30	8.10
29	7.20	1.90	1.00	8.40	12.80	13.60	9.40	7.70	7.75	13.60	1.00
30	7.20	2.50	0.90	10.50	14.30	14.30	8.20	9.10	8.38	14.30	0.90
T-MEAN	7.41	6.02	5.28	10.48	14.74	15.31	10.40	8.71	9.79		

1978 DAY	NOV 0	MIN 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	11.00	10.00	9.80	15.00	20.00	20.10	15.80	15.00	14.59	20.10	9.80
2	15.00	10.00	9.90	15.80	17.00	16.40	12.80	12.70	13.70	17.00	9.90
3	10.50	9.90	7.30	12.20	14.90	15.50	11.10	7.70	11.14	15.50	7.30
4	5.10	3.90	4.80	9.30	14.60	14.70	10.50	11.20	9.26	14.70	3.90
5	5.00	3.10	2.00	10.20	17.70	18.20	14.20	11.20	10.20	18.20	2.00
6	7.20	5.50	4.40	11.90	13.30	19.50	15.00	12.00	11.10	19.50	4.40
7	9.20	6.30	5.20	11.00	17.90	17.50	15.50	14.60	12.15	17.90	5.20
8	13.20	12.20	11.70	13.90	18.80	19.00	14.00	12.80	14.45	19.00	11.70
9	10.20	8.70	7.30	8.70	21.00	20.30	14.20	9.80	12.52	21.00	7.30
10	8.20	5.30	3.60	9.80	13.80	12.60	9.90	8.10	8.91	13.80	3.60
11	7.10	5.20	6.20	9.30	12.60	13.00	11.30	9.40	9.26	13.00	5.20
12	8.30	7.90	5.50	10.90	14.50	14.20	11.70	11.20	10.52	14.50	5.50
13	11.00	8.40	8.80	8.70	9.50	9.70	9.40	9.50	9.38	11.00	8.40
14	9.90	10.50	10.80	13.20	16.80	17.50	13.80	12.90	13.15	17.50	9.90
15	12.50	10.20	11.00	14.30	16.70	19.70	15.80	14.30	14.31	19.70	10.20
16	12.30	9.90	8.10	12.70	15.10	15.70	11.10	9.50	11.80	15.70	8.10
17	8.70	7.30	7.00	8.20	7.40	9.20	9.00	7.10	7.99	9.20	7.00
18	3.70	3.50	2.30	9.30	14.30	15.80	12.20	12.10	9.15	15.80	2.30
19	12.20	11.80	10.20	11.10	15.00	17.20	14.50	14.20	13.27	17.20	10.20
20	13.00	10.20	9.30	13.00	15.60	14.40	8.60	5.40	11.27	15.60	5.40
21	4.40	3.10	1.20	7.50	13.30	14.70	9.40	7.80	7.68	14.70	1.20
22	4.60	3.50	3.00	6.20	12.70	14.10	9.50	6.80	7.55	14.10	3.00
23	5.00	2.10	2.70	9.00	13.30	14.00	12.10	10.20	8.55	14.00	2.10
24	9.40	7.20	6.50	8.40	11.00	13.00	9.00	7.70	9.02	13.00	6.50
25	2.70	0.40	0.10	6.50	12.00	13.00	8.70	6.70	6.25	13.00	0.10
26	3.90	1.00	1.10	6.00	13.00	13.20	11.70	10.60	7.45	13.20	1.00
27	9.90	9.20	9.40	9.30	10.50	11.30	11.20	11.30	10.26	11.30	9.20
28	11.10	10.80	9.50	9.90	15.00	16.40	11.70	8.30	11.59	16.40	8.30
29	7.50	4.50	2.80	8.00	12.20	13.60	9.90	8.30	8.35	13.60	2.80
30	7.80	6.90	3.40	10.50	13.80	14.20	10.50	9.50	9.58	14.20	3.40
T-MEAN	8.62	6.97	6.16	10.33	14.44	15.25	11.80	10.26	10.48		

1978 DAY	NOV 0	UPP 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	11.80	10.50	10.30	15.00	19.90	20.70	16.40	15.20	14.98	20.70	10.30
2	15.00	10.60	10.90	15.60	16.70	16.60	13.40	13.10	13.99	16.70	10.60
3	11.10	10.20	8.70	11.80	14.60	15.50	11.80	9.40	11.58	15.50	8.70
4	8.10	6.00	4.30	9.00	14.30	15.10	11.50	12.50	10.08	15.10	4.30
5	6.20	4.20	2.70	10.10	17.40	18.10	15.20	14.50	11.05	18.10	2.70
6	8.30	6.40	5.30	11.50	13.00	19.30	17.00	13.70	11.81	19.30	5.30
7	11.60	7.00	6.00	10.70	17.00	17.40	15.90	15.70	12.74	17.60	6.00
8	13.30	12.30	11.70	13.60	18.60	19.60	14.50	13.20	14.60	19.60	11.70
9	10.30	11.20	9.00	8.50	20.70	20.10	14.70	10.10	13.08	20.70	8.50
10	8.70	6.20	6.50	9.60	13.50	12.50	10.40	9.40	9.60	13.50	6.20
11	7.30	5.20	6.20	8.90	12.40	12.90	11.60	10.80	9.41	12.90	5.20
12	10.30	9.70	7.50	10.70	14.20	14.10	12.00	11.90	11.24	14.20	7.50
13	11.30	8.50	8.80	8.70	9.60	10.00	10.00	9.60	9.56	11.30	8.50
14	10.00	11.10	11.20	13.20	16.60	17.70	14.30	13.10	13.40	17.70	10.00
15	13.00	10.90	11.50	14.30	16.30	19.70	17.10	15.20	14.75	19.70	10.90
16	13.10	11.50	8.70	12.30	14.90	15.60	12.00	10.60	12.34	15.60	8.70
17	9.60	8.70	7.00	8.10	7.60	9.50	9.70	7.50	8.46	9.70	7.00
18	6.60	5.80	2.30	9.30	14.10	15.70	13.00	12.50	9.41	15.70	2.30
19	12.40	11.80	10.00	10.90	14.60	17.10	15.50	14.50	13.33	17.10	10.00
20	13.60	12.10	10.00	13.20	15.60	14.70	9.30	7.40	11.99	15.60	7.40
21	7.80	4.10	4.00	7.40	13.10	14.30	10.70	8.00	8.68	14.30	4.00
22	5.60	3.90	4.10	5.70	12.40	14.00	11.60	10.50	8.48	14.00	3.90
23	9.00	2.80	3.00	8.80	13.00	14.00	12.50	10.70	9.23	14.00	2.80
24	10.10	8.40	8.30	8.60	10.60	12.90	10.40	7.70	9.61	12.90	7.70
25	4.90	2.90	5.30	6.70	12.70	12.40	9.80	9.30	8.05	12.80	2.90
26	5.30	1.70	1.50	5.80	12.80	13.20	11.80	10.90	7.88	13.20	1.50
27	9.90	9.50	9.40	9.10	10.20	11.10	11.20	11.30	10.21	11.30	9.10
28	11.30	10.80	9.40	9.60	14.70	16.50	12.30	8.80	11.88	16.50	8.80
29	8.10	4.70	5.20	7.50	11.80	14.00	10.70	9.00	8.88	14.00	4.70
30	8.50	8.20	4.30	10.00	13.20	14.00	11.60	10.00	9.98	14.00	4.30
T-MEAN	9.67	7.81	7.09	10.14	14.22	15.29	12.58	11.20	11.00		

1978 DAY	DEC 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	4.40	2.30	0.90	6.00	12.30	13.70	4.80	2.40	5.85	13.70	0.90
2	3.90	2.10	0.10	4.60	14.50	14.40	8.20	7.00	6.90	14.80	0.10
3	2.10	9.20	6.90	12.40	16.40	15.50	7.80	4.00	9.26	16.40	2.10
4	3.70	1.20	1.50	5.00	9.10	11.60	9.70	7.90	6.21	11.60	1.20
5	4.00	4.00	6.70	12.20	13.70	11.30	6.80	4.00	7.78	13.70	4.00
6	-2.40	-3.40	-2.00	4.50	8.00	8.30	0.70	-1.70	1.51	8.30	-3.40
7	-3.00	-4.30	-4.90	2.00	9.50	11.20	3.70	0.50	1.84	11.20	-4.90
8	0.90	-0.70	-1.60	4.00	13.70	16.90	6.20	2.40	5.23	16.90	-1.60
9	0.70	0.	2.20	6.70	15.70	17.20	7.70	5.00	6.90	17.20	0.
10	3.00	1.90	1.30	5.00	11.60	14.00	13.40	12.30	7.81	14.00	1.30
11	11.70	7.50	6.40	4.20	6.10	7.70	3.00	0.	5.84	11.70	0.
12	-2.70	-3.00	-4.40	2.50	8.10	9.80	1.30	-0.80	1.35	9.80	-4.40
13	-1.20	-1.90	-4.30	0.90	9.60	9.70	4.90	2.60	2.54	9.70	-4.30
14	0.70	2.40	2.90	6.80	11.90	14.70	4.50	3.60	6.19	14.70	0.70
15	2.40	0.80	0.	6.00	9.60	15.20	6.00	3.50	5.41	15.20	0.
16	2.30	-0.90	-2.00	4.10	11.70	12.70	7.10	3.80	4.85	12.70	-2.00
17	2.10	1.90	1.50	5.20	14.10	15.70	11.00	7.50	7.38	15.70	1.50
18	4.90	6.80	6.40	7.60	8.20	7.70	6.50	4.30	6.55	8.20	4.30
19	4.80	2.90	3.60	3.10	2.40	2.80	2.10	1.50	2.90	4.80	1.50
20	1.10	-0.10	-0.60	0.90	6.40	7.00	1.70	-0.70	1.96	7.00	-0.70
21	-2.80	-5.80	-6.40	1.00	6.30	9.10	1.80	-1.10	0.26	9.10	-6.40
22	-1.90	-3.70	-3.70	-0.50	5.80	6.10	2.70	2.30	0.89	6.10	-3.70
23	0.	-0.70	-0.60	2.90	7.70	6.90	4.60	4.10	3.11	7.70	-0.70
24	4.50	4.30	3.00	6.10	12.10	10.60	5.60	2.50	6.31	12.10	2.50
25	2.50	-2.30	-2.80	2.50	9.20	9.50	6.80	5.00	3.80	9.50	-2.80
26	2.30	-0.50	-2.00	2.10	10.20	12.30	2.70	0.10	3.40	12.30	-2.00
27	-1.00	-1.90	-0.10	2.70	10.30	12.50	4.30	1.20	3.50	12.50	-1.90
28	2.30	1.30	1.80	3.10	7.90	8.40	7.30	3.60	4.46	8.40	1.30
29	-0.70	-3.30	-4.60	0.	6.20	8.00	1.70	3.50	1.39	8.00	-4.60
30	2.30	-1.20	-1.60	2.40	6.10	5.40	1.40	-0.30	1.81	6.10	-1.60
31	-3.30	-2.90	-4.70	1.00	6.90	8.30	-0.60	-2.10	0.32	8.30	-4.70
T-MEAN	1.54	0.39	-0.05	4.16	9.72	10.79	5.08	2.83	4.31		

1978 DAY	DEC 0	MIN 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	5.70	4.60	2.00	5.90	11.80	13.60	9.10	8.00	7.59	13.60	2.00
2	6.30	5.50	0.30	4.40	14.30	14.80	11.30	9.00	8.21	14.80	0.30
3	5.50	10.40	7.70	12.40	16.40	15.70	10.10	7.90	10.76	16.40	5.50
4	5.10	1.90	1.70	5.00	8.90	11.50	11.30	8.10	6.69	11.50	1.70
5	7.00	5.00	7.00	12.00	13.10	11.60	7.00	4.70	8.42	13.10	4.70
6	0.80	0.20	-1.30	4.30	7.60	8.20	4.70	1.70	3.28	8.20	-1.30
7	-0.80	-2.30	-3.20	1.50	9.50	11.00	7.70	4.30	3.46	11.00	-3.20
8	1.60	-0.50	-1.20	3.90	13.10	16.60	10.30	7.70	6.35	16.60	-1.20
9	4.70	2.30	3.10	6.70	15.00	16.90	12.20	10.20	8.89	16.90	2.30
10	7.10	2.70	1.70	4.90	11.50	14.60	14.70	14.70	8.99	14.70	1.70
11	12.90	7.50	6.60	4.10	6.00	7.40	5.60	2.10	6.53	12.90	2.10
12	0.30	0.70	-3.00	2.40	7.00	9.50	6.40	5.30	3.58	9.50	-3.00
13	2.20	-1.60	-2.90	1.20	9.20	11.00	7.80	5.40	4.04	11.00	-2.90
14	2.50	2.40	3.00	6.60	11.50	14.10	9.70	8.10	7.29	14.10	2.40
15	4.90	2.40	0.70	5.80	9.50	15.00	11.00	7.40	7.09	15.00	0.70
16	4.30	3.30	1.30	4.00	11.30	12.40	10.00	6.30	6.61	12.40	1.30
17	5.70	2.70	1.80	5.00	13.70	15.60	11.40	8.20	8.04	15.60	1.80
18	4.80	7.30	6.40	7.60	8.10	7.60	6.50	4.30	6.80	8.10	4.30
19	4.80	1.00	3.70	3.10	2.40	2.80	2.10	1.50	2.92	4.80	1.50
20	1.10	-0.20	-0.60	0.60	6.20	6.80	2.20	-0.20	1.99	6.80	-0.60
21	-2.40	-3.70	-4.10	0.70	5.90	8.90	5.10	3.10	1.69	8.90	-4.10
22	-1.30	-2.80	-3.70	-0.70	5.50	6.10	4.80	2.80	1.34	6.10	-3.70
23	0.80	-0.60	-0.60	2.80	7.40	6.90	4.90	4.30	3.24	7.40	-0.60
24	4.80	4.40	4.70	8.20	12.00	10.60	6.20	4.00	6.86	12.00	4.00
25	4.30	0.20	1.00	2.30	8.80	9.20	7.30	5.30	4.80	9.20	0.20
26	3.20	-0.30	-1.60	1.90	9.60	12.00	8.00	4.20	4.43	12.00	-1.60
27	1.00	-0.70	-0.10	2.50	9.80	12.20	8.90	5.60	4.90	12.20	-0.70
28	4.50	1.30	1.80	3.00	7.70	8.40	8.00	6.90	5.20	8.40	1.30
29	1.80	-0.20	-1.50	0.50	6.00	7.80	4.50	4.40	2.91	7.80	-1.50
30	2.60	-0.70	-1.10	2.40	5.50	5.30	1.80	-0.10	1.96	5.50	-1.10
31	-0.70	-1.80	-3.10	1.10	6.70	7.90	4.30	2.00	2.05	7.90	-3.10
T-MEAN	3.45	1.68	0.85	4.07	9.39	10.72	7.59	5.37	5.39		

1978 DAY	DEC 0	UPP 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	6.30	4.90	2.50	5.70	11.50	13.30	10.30	10.10	8.08	13.30	2.50
2	8.10	7.30	1.40	4.20	13.80	14.80	12.30	9.70	8.95	14.80	1.40
3	7.70	11.20	9.60	12.40	15.90	16.30	12.20	9.40	11.84	16.30	7.70
4	6.30	2.60	2.20	4.80	8.70	11.30	12.10	8.60	7.07	12.10	2.20
5	7.70	6.50	8.60	11.50	12.40	11.30	7.00	5.00	8.75	12.40	5.00
6	2.50	1.50	0.20	4.00	7.20	8.30	5.30	4.40	4.15	8.30	0.20
7	1.60	-1.70	-2.60	1.20	9.20	10.80	9.20	7.00	4.34	10.80	-2.60
8	3.60	0.40	4.20	3.90	12.70	16.60	13.00	9.80	8.02	16.60	0.40
9	8.30	6.20	4.40	7.40	14.50	16.90	13.90	12.30	10.50	16.90	4.40
10	10.70	3.70	2.80	4.80	11.80	15.70	15.10	15.70	10.04	15.70	2.80
11	13.40	7.50	6.60	4.10	6.00	7.40	6.50	2.90	6.80	13.40	2.90
12	1.70	2.00	-0.80	2.40	7.60	9.40	8.00	6.20	4.56	9.40	-0.80
13	6.10	-1.00	-1.80	1.30	9.00	11.00	10.00	8.80	5.43	11.00	-1.80
14	3.80	3.20	3.10	6.60	11.50	14.30	10.90	10.40	7.98	14.30	3.10
15	8.20	5.40	5.90	5.80	10.00	15.00	12.30	8.70	8.91	15.00	5.40
16	5.60	4.80	4.80	3.90	11.00	12.30	10.30	8.20	7.61	12.30	3.90
17	6.00	4.00	3.50	4.70	13.50	15.60	11.90	9.80	8.63	15.60	3.50
18	9.20	7.50	6.40	7.60	8.10	7.60	6.50	4.30	7.15	9.20	4.30
19	4.80	3.00	4.00	3.30	3.00	3.00	2.10	1.50	3.09	4.80	1.50
20	1.10	-0.20	-0.60	0.40	6.20	6.50	3.30	1.40	2.26	6.50	-0.60
21	-1.20	-0.20	-2.60	0.40	5.80	9.00	6.70	4.00	2.74	9.00	-2.60
22	1.00	-1.70	-3.60	-0.70	5.30	6.10	6.20	5.10	2.21	6.20	-3.60
23	1.70	0.	-0.20	2.70	7.30	7.40	5.60	4.80	3.68	7.40	-0.20
24	5.10	4.50	5.10	8.30	11.80	10.80	7.70	4.00	7.16	11.80	4.00
25	4.80	3.40	2.40	2.00	8.50	9.20	7.70	7.00	5.48	9.20	2.00
26	3.40	1.50	-0.80	1.70	9.10	11.80	9.70	9.80	5.80	11.80	-0.80
27	6.50	0.	0.20	2.20	9.50	12.20	10.80	7.00	6.05	12.20	0.
28	7.50	2.20	2.00	2.90	7.50	8.40	8.70	7.00	5.78	8.70	2.00
29	4.50	1.50	0.60	0.90	5.80	8.20	5.20	5.10	3.98	8.20	0.60
30	3.10	0.	0.20	2.40	5.00	5.10	2.70	0.60	2.39	5.10	0.
31	-0.50	0.	-1.40	1.30	6.20	7.90	4.80	3.70	2.75	7.90	-1.40
T-MEAN	5.12	2.91	2.14	4.00	9.22	10.76	8.65	6.85	6.20		

1979 DAY	JAN 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	-3.90	-4.70	-6.30	0.80	8.70	10.20	1.70	3.40	1.24	10.20	-4.70
2	-1.70	0.	-2.60	2.80	9.40	10.50	6.50	-0.70	7.98	10.50	-2.60
3	-3.10	-3.10	-4.90	0.10	6.10	9.20	3.60	-1.50	0.78	9.20	-4.90
4	-2.20	-2.20	-2.90	1.10	11.40	13.10	3.20	1.00	2.84	13.10	-2.90
5	-1.10	-2.50	0.20	2.30	12.10	12.50	4.20	3.20	3.88	12.50	-2.50
6	6.70	-1.50	-1.90	5.20	8.70	9.70	3.50	-1.80	3.58	9.70	-1.90
7	-1.00	-2.20	-1.60	0.30	2.50	5.90	3.30	0.30	0.69	5.90	-1.60
8	2.10	-2.20	-1.70	-0.70	6.90	13.30	4.10	0.20	2.75	13.30	-2.20
9	0.	-1.70	-1.20	3.70	13.10	16.00	8.00	4.70	5.32	16.00	-1.70
10	7.00	4.40	3.40	7.40	13.80	13.80	8.90	4.50	7.90	13.80	3.40
11	1.30	2.50	-1.00	6.30	10.30	8.90	7.40	5.80	5.19	10.30	-1.00
12	3.20	2.70	1.50	1.00	6.80	7.90	6.70	4.80	4.54	7.80	1.50
13	1.20	0.20	-0.10	-0.20	-0.10	0.60	-0.80	-2.20	-0.17	1.20	-2.20
14	-1.80	-4.00	-7.00	-3.50	2.50	3.20	-1.00	-1.90	-1.69	3.20	-7.00
15	-1.70	-4.50	-4.80	-2.00	6.70	7.60	0.30	2.30	0.10	7.60	-4.80
16	-0.80	99.90	99.90	99.90	8.20	9.80	4.20	-0.50	4.18	9.80	-0.80
17	-3.20	-4.90	-5.80	0.	7.50	8.70	1.00	-0.40	0.36	8.70	-5.80
18	-2.50	-2.80	-4.20	0.40	6.80	7.00	5.30	4.00	1.75	7.00	-4.20
19	3.10	1.30	-0.90	3.00	5.40	5.00	1.50	-1.00	2.18	5.40	-1.00
20	-4.20	-5.00	-5.40	-0.60	4.60	7.60	3.30	-1.70	-0.17	7.60	-5.40
21	-3.20	-4.70	-5.00	-0.30	8.80	12.80	6.70	3.30	2.10	12.80	-5.00
22	3.50	1.70	-3.80	2.40	6.70	7.40	-0.70	-0.10	2.18	7.40	-3.80
23	-1.50	-2.10	-5.10	0.50	9.30	11.70	6.10	0.50	2.83	11.70	-5.10
24	-1.40	-2.10	-3.20	2.00	12.40	13.40	8.00	-0.10	3.83	13.40	-3.20
25	-2.70	-2.20	-5.00	3.50	8.30	10.00	3.20	2.20	2.16	10.00	-5.00
26	2.00	2.20	2.10	8.00	13.60	15.40	7.40	2.20	6.61	15.40	2.00
27	0.70	-0.50	-1.10	4.40	13.10	14.50	8.60	3.00	5.34	14.50	-1.10
28	-1.10	-2.10	-3.70	1.80	6.10	7.00	3.00	-2.80	1.03	7.00	-3.70
29	-4.00	-6.00	-7.50	0.10	3.30	3.80	3.40	2.00	-0.61	3.80	-7.50
30	0.	1.60	4.20	9.70	6.40	9.30	7.00	4.90	5.39	9.70	0.
31	4.10	0.80	4.20	8.20	5.70	6.00	5.80	6.10	5.11	8.20	0.80
T-MEAN	-0.31	-1.45	-2.31	2.33	7.92	9.40	4.29	1.35	2.69		

1979 DAY	JAN 0	MIN 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	-1.90	-4.30	-4.30	0.50	8.40	9.90	5.70	4.10	2.26	9.90	-4.30
2	0.30	0.90	-0.90	2.80	9.10	10.20	6.70	3.10	4.03	10.20	-0.90
3	1.30	-3.00	-1.80	-0.10	5.80	9.10	6.30	3.60	2.65	9.10	-3.00
4	-0.80	-1.80	-2.70	1.20	11.20	12.90	8.20	5.00	4.15	12.90	-2.70
5	5.50	-1.30	0.20	2.10	11.60	12.10	9.10	7.20	5.81	12.10	-1.30
6	7.30	2.90	1.50	5.00	8.30	9.50	4.60	3.70	5.35	9.50	1.50
7	-0.80	-1.60	-1.00	0.30	2.50	5.80	4.20	2.70	1.51	5.80	-1.60
8	3.20	-2.40	-1.90	-0.90	6.60	13.00	9.70	5.40	4.09	13.00	-2.40
9	2.60	-0.10	2.70	3.60	12.90	15.90	11.90	9.10	7.32	15.90	-0.10
10	10.00	4.70	4.00	7.20	13.20	13.80	11.70	8.90	9.19	13.80	4.00
11	4.30	5.70	4.70	6.00	9.80	8.90	7.50	6.00	6.61	9.80	4.30
12	3.50	2.80	2.20	2.90	6.40	7.60	6.70	4.80	4.59	7.60	2.20
13	1.20	0.30	-0.20	-0.40	-0.20	0.80	-0.80	-2.30	-0.20	1.20	-2.30
14	-1.80	-3.50	-6.70	-3.50	3.00	3.30	0.10	-0.80	-1.24	3.30	-6.70
15	-2.30	-4.00	-4.30	-1.90	6.80	7.70	6.70	3.00	2.11	7.70	-4.30
16	0.90	99.90	99.90	99.90	8.20	10.00	5.10	2.50	5.34	10.00	0.90
17	-1.70	-2.40	-4.90	-0.30	7.20	8.50	5.10	2.50	1.75	8.50	-4.90
18	0.20	-2.40	-2.90	0.10	6.60	7.10	5.60	5.00	2.41	7.10	-2.90
19	3.80	2.00	-0.70	3.00	4.80	4.90	2.10	-0.40	2.44	4.90	-0.70
20	-1.70	-3.00	-3.90	-1.00	4.30	7.30	4.80	2.60	1.17	7.30	-3.90
21	-0.40	-2.10	-4.20	-0.50	8.40	12.80	7.40	3.90	3.16	12.80	-4.20
22	4.20	2.00	-1.70	2.50	6.40	7.50	4.00	1.50	3.36	7.50	-1.70
23	2.50	-0.40	-4.40	0.50	8.90	11.20	6.80	5.10	3.78	11.20	-4.40
24	3.20	-0.40	-2.70	2.00	12.10	13.60	8.80	4.30	5.11	13.60	-2.70
25	1.20	-0.60	-0.20	3.30	7.90	9.90	7.80	6.00	4.41	9.90	-0.60
26	2.30	2.20	2.70	7.80	12.50	15.00	10.60	8.00	7.61	15.00	2.20
27	6.50	3.60	-0.10	4.00	12.70	14.20	9.60	3.60	6.76	14.20	-0.10
28	0.90	-0.30	-1.20	1.60	5.70	6.80	3.50	0.	2.13	6.80	-1.20
29	-2.30	-3.60	-5.60	0.	3.10	3.70	3.40	2.00	0.09	3.70	-5.60
30	0.	1.60	4.20	9.70	6.70	9.20	8.20	8.60	6.03	9.70	0.
31	6.70	3.70	5.50	8.20	5.70	6.00	5.80	6.10	5.96	8.20	3.70
T-MEAN	1.88	-0.16	-0.95	2.19	7.64	9.30	6.29	4.01	3.82		

1979 DAY	JAN 0	UPP 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	1.30	-3.30	-3.70	0.40	8.10	9.90	6.10	4.30	2.89	9.90	-3.70
2	2.00	1.70	-0.30	2.80	9.10	10.60	7.70	5.70	4.91	10.60	-0.30
3	3.20	-2.20	-0.60	1.00	5.60	9.10	6.80	6.60	3.69	9.10	-2.20
4	0.50	-0.20	-1.30	1.10	11.00	12.90	9.90	8.60	5.31	12.90	-1.30
5	8.70	0.50	0.20	1.90	11.60	12.10	10.40	8.50	6.71	12.10	0.20
6	8.00	4.60	3.80	4.90	8.10	9.90	6.20	6.30	6.68	9.90	3.80
7	0.70	1.80	-0.20	0.30	2.60	5.80	4.60	5.00	2.58	5.80	-0.20
8	5.70	-2.50	-2.00	-1.00	6.20	13.00	11.50	10.00	5.11	13.00	-2.50
9	4.70	1.30	6.70	4.30	12.70	15.90	13.30	11.70	8.83	15.90	1.30
10	11.10	5.50	4.80	7.00	13.10	13.80	14.00	10.50	9.98	14.00	4.80
11	7.00	6.30	5.80	5.80	9.60	9.40	7.60	6.00	7.19	9.60	5.80
12	3.30	2.80	2.20	2.80	6.20	7.50	6.70	4.80	4.54	7.50	2.20
13	1.80	0.30	-0.20	-0.40	-0.20	0.90	-0.70	-2.40	-0.11	1.80	-2.40
14	-1.40	-1.70	-5.50	-1.30	2.80	3.30	1.30	0.40	-0.26	3.30	-5.50
15	-0.60	-3.90	-1.70	-1.50	6.70	7.80	6.20	5.00	2.00	7.80	-3.90
16	3.00	99.90	99.90	99.90	8.20	10.00	5.70	3.70	6.12	10.00	3.00
17	0.90	0.50	-2.70	-0.50	7.00	8.30	6.80	5.00	3.22	8.30	-2.70
18	2.10	0.30	-1.20	0.	6.30	7.80	6.40	6.10	3.50	7.80	-1.20
19	4.00	2.20	0.	3.00	4.20	4.50	2.70	-0.20	2.49	4.50	-0.20
20	-0.90	-2.20	-2.70	-1.20	3.90	7.10	5.20	4.20	1.74	7.10	-2.70
21	2.60	-0.10	-2.00	-0.40	8.20	13.10	8.10	5.10	4.53	13.10	-2.00
22	4.30	2.90	-0.30	2.20	6.10	7.20	5.10	2.10	3.70	7.20	-0.30
23	4.80	1.50	-2.10	1.00	8.70	13.10	7.50	7.50	5.25	13.10	-2.10
24	6.80	1.50	0.80	1.90	12.00	13.10	10.10	5.50	6.45	13.20	0.80
25	2.80	1.30	2.80	1.10	7.70	9.80	8.10	6.40	5.25	9.80	1.10
26	3.30	2.40	2.70	7.70	12.70	14.90	11.00	9.10	7.98	14.90	2.40
27	6.20	5.20	0.50	1.80	12.40	14.10	11.10	4.20	7.24	14.10	0.50
28	2.50	1.00	0.	1.40	5.50	6.60	4.60	0.30	2.71	6.60	0.
29	-1.10	-2.70	-4.50	-0.10	2.90	3.50	3.40	2.00	0.43	3.50	-4.50
30	0.	1.90	4.80	10.10	6.80	9.20	9.20	9.70	6.46	10.10	0.
31	8.30	6.00	7.10	8.20	6.00	6.00	5.80	6.10	6.69	8.30	5.80
T-MEAN	3.42	1.18	0.33	2.28	7.46	9.30	7.17	5.41	4.61		

1979 DAY	FFS 0	Low 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	6.20	6.50	6.80	7.20	8.60	13.40	11.00	7.00	8.34	13.40	6.20
2	5.20	1.00	0.	4.60	8.80	9.00	5.20	-0.70	4.25	9.00	-0.70
3	-3.40	-4.50	-3.10	0.40	7.80	10.00	4.70	3.30	1.90	10.00	-4.50
4	-0.30	-1.30	-2.00	3.00	10.70	12.60	7.50	3.00	6.15	12.60	-2.00
5	-3.20	-3.60	-3.10	0.40	4.60	4.30	3.00	1.60	0.50	4.60	-3.60
6	1.10	1.10	2.40	3.50	10.20	12.70	9.40	7.20	5.98	12.70	1.10
7	5.30	6.80	3.20	7.80	11.60	12.20	8.70	6.70	7.70	12.20	3.20
8	2.10	1.80	0.	4.30	8.10	11.00	6.30	6.00	4.95	11.00	0.
9	3.70	-0.60	-2.20	2.50	9.20	9.80	5.90	5.70	4.25	9.80	-2.20
10	6.80	3.40	4.20	5.70	9.30	8.40	7.40	6.30	6.44	9.30	3.40
11	6.50	5.20	3.70	4.40	15.20	18.00	11.00	5.50	8.69	18.00	3.70
12	1.40	-0.60	-1.30	7.60	14.50	14.80	6.70	2.30	5.68	14.80	-1.30
13	0.	-1.30	-1.00	6.40	12.70	13.30	9.20	9.80	6.14	13.30	-1.30
14	9.00	7.10	6.40	7.50	9.70	12.10	8.70	7.40	8.69	12.10	6.40
15	5.90	1.00	0.70	5.60	7.40	9.50	7.20	5.40	5.34	9.50	0.70
16	3.40	1.30	-1.00	4.80	10.10	11.30	7.90	2.80	5.08	11.30	-1.00
17	0.60	-2.00	0.10	4.90	8.90	6.60	5.30	4.90	3.66	8.90	-2.00
18	4.10	4.70	3.90	9.50	11.90	12.00	4.10	4.60	6.85	12.00	3.90
19	-0.60	-0.60	-2.00	5.30	14.80	12.40	7.30	4.70	5.16	14.80	-2.00
20	2.40	-2.90	-3.00	5.00	10.60	12.70	9.00	3.00	4.60	12.70	-3.00
21	1.10	2.60	2.00	7.70	15.70	19.60	14.80	8.50	9.00	19.60	1.10
22	7.00	8.20	5.90	14.60	16.60	12.80	10.30	9.70	10.64	16.60	5.90
23	9.10	7.10	6.40	7.30	8.70	9.10	8.00	6.60	7.81	9.10	6.40
24	5.40	5.70	6.10	7.20	9.50	9.50	8.00	6.60	7.25	9.50	5.40
25	5.30	5.10	4.70	8.50	11.10	11.90	6.90	6.30	7.48	11.90	4.70
26	6.00	6.30	6.20	6.60	6.70	6.90	6.40	5.10	6.28	6.90	5.10
27	4.30	2.90	-0.60	4.70	4.90	7.50	5.80	3.10	4.07	7.50	-0.60
28	2.60	-0.90	-0.70	1.60	10.00	10.60	5.40	4.00	4.08	10.60	-0.90
T-MEAN	3.49	2.13	1.53	5.67	10.28	11.21	7.54	5.23	5.89		

1979 DAY	FER 0	Min 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	6.20	6.50	6.80	7.20	8.40	13.30	11.50	9.30	8.65	13.30	6.20
2	6.30	3.90	1.60	4.70	9.30	9.00	5.70	1.50	5.25	9.30	1.50
3	-0.40	-1.70	-2.40	0.40	7.30	9.80	6.70	5.00	3.09	9.80	-2.40
4	0.	-1.00	-1.40	2.80	9.70	12.70	7.90	3.30	4.23	12.70	-1.40
5	1.60	-1.00	-0.90	0.30	4.20	4.20	3.00	1.60	1.63	4.20	-1.00
6	1.20	1.70	2.40	3.50	10.20	12.70	10.20	8.00	6.24	12.70	1.20
7	5.80	7.30	4.10	7.70	11.30	12.20	9.00	7.20	8.08	12.20	4.10
8	1.30	1.80	0.90	4.10	7.90	10.80	7.00	6.00	5.23	10.80	0.90
9	3.70	1.30	-1.50	2.50	8.70	9.80	6.10	5.80	4.55	9.80	-1.50
10	6.80	3.40	4.20	5.70	9.10	8.30	7.80	6.40	6.44	9.10	3.40
11	6.50	5.20	3.70	4.30	14.70	17.80	14.00	6.80	9.13	17.80	3.70
12	4.90	2.70	1.60	7.50	14.00	14.40	10.30	6.00	7.64	14.40	1.60
13	6.00	2.60	-0.10	6.30	12.40	13.10	9.50	9.80	7.48	13.10	-0.10
14	9.00	7.10	6.40	7.30	9.40	12.00	10.50	8.80	8.81	12.00	6.40
15	7.20	2.50	3.00	5.40	7.30	9.20	7.40	5.80	5.98	9.20	2.50
16	4.30	2.00	-0.40	4.60	9.30	10.90	8.30	5.40	5.55	10.90	-0.40
17	1.80	0.30	0.10	4.60	8.80	6.50	5.80	4.90	4.10	8.80	0.10
18	4.40	4.90	4.40	9.40	11.50	12.00	7.70	5.30	7.45	12.00	4.40
19	2.10	1.30	0.40	4.90	14.20	12.00	7.70	4.90	5.96	14.20	0.40
20	3.40	0.80	-2.40	4.70	10.00	12.50	10.60	6.30	5.74	12.50	-2.40
21	3.80	3.00	2.20	7.40	15.00	19.50	15.10	13.10	9.89	19.50	2.20
22	10.60	9.50	7.60	14.30	16.10	12.70	10.40	9.70	11.36	16.10	7.60
23	9.30	7.10	6.40	7.20	8.40	9.00	8.00	6.50	7.74	9.30	6.40
24	5.60	6.00	6.50	7.50	9.50	9.70	8.00	6.60	7.43	9.70	5.60
25	5.90	5.60	5.30	8.10	10.70	11.50	7.00	6.30	7.55	11.50	5.30
26	5.90	6.30	6.20	6.50	6.60	6.80	6.40	5.10	6.23	6.80	5.10
27	4.30	3.00	0.90	4.20	4.90	7.30	5.80	3.30	4.46	7.30	0.90
28	3.00	1.70	0.20	1.50	9.60	10.50	6.30	4.70	4.69	10.50	0.20
T-MEAN	4.72	3.35	2.35	5.52	9.95	11.09	8.35	6.26	6.45		

1979 DAY	FER 0	UPP 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	6.20	6.50	6.70	7.20	8.20	13.10	11.90	10.00	8.73	13.10	6.20
2	6.50	5.00	3.20	5.10	9.80	8.80	5.90	2.60	3.86	9.80	2.60
3	2.40	0.	-0.80	0.30	7.10	9.80	7.10	6.00	4.01	9.80	-0.80
4	2.40	0.	-1.00	2.50	9.50	13.00	9.00	3.80	4.90	13.00	-1.00
5	1.60	0.	-0.30	0.20	4.10	4.00	3.00	2.20	1.85	4.10	-0.30
6	1.60	2.00	2.20	3.30	10.00	12.50	10.30	8.80	6.34	12.50	1.60
7	6.90	8.00	5.80	7.70	11.10	12.60	9.20	7.10	8.55	12.60	5.80
8	4.30	1.90	1.60	4.30	7.70	10.50	7.60	6.10	5.50	10.50	1.60
9	3.80	2.80	0.	2.90	8.30	9.90	6.50	6.10	5.04	9.90	0.
10	6.80	3.40	4.40	6.00	9.20	8.10	8.00	7.00	6.61	9.20	3.40
11	6.90	5.50	3.70	4.10	14.30	17.70	14.40	8.40	9.38	17.70	3.70
12	6.00	5.50	4.00	7.30	13.90	14.10	11.60	8.40	8.88	14.10	4.00
13	6.70	4.90	1.60	6.00	11.90	13.70	10.00	10.00	8.10	13.70	1.60
14	9.60	7.10	6.30	7.20	9.20	11.80	11.20	10.20	9.08	11.80	6.30
15	8.00	4.70	4.00	5.20	7.20	9.50	7.90	7.10	6.70	9.50	4.00
16	4.90	3.30	0.60	4.50	9.10	10.60	9.10	7.10	6.11	10.60	0.60
17	2.90	2.90	0.20	4.40	8.70	6.40	5.60	5.50	4.60	8.70	0.20
18	4.70	3.90	5.10	9.20	10.70	11.80	8.30	5.90	7.65	11.80	4.70
19	4.70	4.30	1.90	4.70	13.60	11.70	7.70	5.10	6.71	11.60	1.90
20	4.90	3.00	-1.50	4.50	9.70	12.30	11.20	9.00	6.61	12.30	-1.50
21	5.40	3.40	2.80	7.20	14.70	19.40	15.30	13.90	10.26	19.40	2.80
22	11.40	13.40	9.20	14.40	16.10	12.70	10.80	9.70	12.21	16.10	9.20
23	9.30	7.10	6.40	7.10	8.20	8.90	8.00	6.40	7.68	9.30	6.40
24	6.10	6.30	6.70	7.70	9.50	9.90	8.00	6.90	7.63	9.90	6.10
25	6.20	5.70	5.60	7.80	10.30	11.40	7.40	6.30	7.59	11.40	5.60
26	6.00	6.30	6.20	6.40	6.30	6.70	6.30	5.30	6.19	6.70	5.30
27	4.20	3.10	3.30	4.00	5.20	7.10	5.90	5.30	4.76	7.10	3.10
28	3.50	2.00	2.10	1.60	9.50	10.50	6.30	5.00	5.06	10.50	1.60
T-MEAN	5.49	4.41	3.21	5.45	9.75	11.02	8.70	6.97	6.88		

1979 DAY	MAR 0	LOW 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	1.90	0.60	-3.00	5.80	9.70	4.40	4.20	1.90	3.19	9.70	-3.00
2	0.30	-3.00	-5.10	4.70	7.30	9.00	3.60	-0.60	2.03	9.00	-5.10
3	-3.30	-4.00	-5.30	3.70	8.80	7.30	6.30	4.20	7.09	8.80	-5.10
4	5.20	1.00	0.30	0.80	2.50	3.90	3.60	3.10	7.82	5.20	0.30
5	2.60	-1.30	-2.00	4.30	8.70	9.80	6.10	3.80	4.00	9.80	-2.00
6	3.70	-0.30	-1.80	6.90	10.80	13.20	8.30	7.80	5.85	13.20	-1.80
7	3.80	0.90	-1.70	8.30	11.20	12.30	9.00	6.70	6.34	12.30	-1.70
8	5.10	5.00	3.80	6.30	7.70	9.80	7.30	4.00	6.18	9.80	3.80
9	1.10	-0.70	-1.40	8.90	14.70	15.40	10.30	8.90	7.15	15.40	-1.40
10	8.50	7.70	6.90	12.10	16.10	14.90	11.80	11.10	11.14	16.10	6.90
11	10.00	9.40	7.50	8.30	12.40	11.40	5.50	2.00	8.31	12.40	2.00
12	-2.40	-3.00	-2.00	5.20	8.10	7.20	5.90	4.70	2.96	8.10	-3.00
13	3.20	2.60	2.70	4.10	5.40	7.80	5.80	3.20	4.43	7.80	2.60
14	-1.40	-2.70	-3.90	6.80	11.20	8.70	7.40	6.00	4.01	11.20	-3.90
15	5.70	5.20	3.10	8.40	12.00	11.60	8.70	6.30	7.65	12.00	3.10
16	4.00	-0.20	1.50	8.70	12.60	12.40	8.80	5.80	6.70	12.60	-0.20
17	2.20	1.10	3.00	8.40	13.00	15.20	12.40	8.80	8.01	15.20	1.10
18	4.70	3.30	0.10	10.30	12.70	12.80	7.80	1.40	6.64	12.80	0.10
19	2.40	3.40	0.20	6.20	10.50	10.50	7.80	7.80	6.10	10.50	0.20
20	8.40	6.30	6.00	9.40	12.00	14.40	11.20	8.90	9.63	14.40	6.00
21	10.10	8.50	7.20	8.50	10.30	7.80	6.20	5.80	8.05	10.30	5.80
22	2.30	-1.60	-1.60	7.00	13.40	15.30	13.00	9.00	7.13	15.30	-1.60
23	8.10	3.80	0.80	8.00	12.00	13.40	13.80	5.70	8.23	13.80	0.80
24	7.60	6.70	5.50	6.60	10.30	11.30	13.90	13.90	9.39	13.90	5.50
25	10.90	10.70	7.70	99.90	99.90	99.90	99.90	99.90	9.77	10.70	7.70
26	99.90	99.90	99.90	99.90	12.40	15.40	11.50	7.40	11.68	15.40	7.40
27	5.00	0.80	1.90	11.10	14.70	15.30	11.70	7.00	8.66	14.70	0.80
28	7.20	3.90	1.10	10.10	16.30	18.10	14.30	12.00	10.26	18.10	1.10
29	8.00	11.20	4.20	12.80	20.10	21.20	16.80	13.30	13.45	21.20	4.20
30	12.30	12.00	12.50	16.00	14.90	13.40	13.00	20.30	14.30	20.30	12.00
31	17.00	15.50	14.70	15.90	19.20	18.00	14.70	12.20	15.90	19.20	12.20
T-MEAN	5.15	3.41	2.10	8.01	11.78	12.06	9.36	7.09	7.37		

1979 DAY	MAR 0	Min 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	2.30	1.30	1.10	5.70	9.20	4.40	4.50	2.40	3.91	9.20	1.10
2	0.80	-1.30	-2.60	4.20	7.00	8.60	4.10	1.20	2.73	8.60	-2.60
3	0.0	-1.40	-2.70	3.30	7.90	7.20	6.50	4.30	3.16	7.90	-2.70
4	5.20	3.00	0.30	0.80	2.30	3.70	3.40	3.30	2.76	5.20	0.30
5	2.70	-0.10	-0.20	4.10	7.80	9.40	6.20	4.20	4.26	9.40	-0.20
6	4.40	2.10	-1.30	4.60	10.20	12.80	10.90	8.10	6.51	12.80	-1.30
7	6.50	2.80	0.20	8.00	10.60	12.10	9.10	7.00	7.04	12.10	0.20
8	5.30	5.00	3.80	6.30	7.70	9.50	8.20	7.10	6.61	9.50	3.80
9	3.70	1.30	1.10	8.90	13.80	15.20	10.50	9.20	7.96	15.20	1.10
10	8.70	7.70	8.10	11.70	15.70	15.00	12.00	12.00	11.36	15.70	7.70
11	10.00	9.50	7.80	8.30	11.80	10.80	6.10	2.30	8.33	11.80	2.30
12	-0.20	-1.10	-1.20	4.60	7.50	6.90	5.90	4.70	3.39	7.50	-1.20
13	3.20	2.60	2.70	4.10	5.50	7.80	5.80	3.50	4.38	7.80	2.60
14	0.20	-1.30	-1.30	6.30	10.40	8.70	7.40	6.10	4.54	10.40	-1.30
15	5.70	5.20	4.00	8.20	11.20	11.20	8.90	6.70	7.64	11.20	4.00
16	4.60	3.10	2.20	8.70	12.10	11.90	9.40	6.20	7.30	12.10	2.20
17	4.00	2.50	3.00	8.20	12.50	15.30	12.80	11.10	8.68	15.30	2.50
18	7.40	4.70	2.10	10.00	12.00	12.40	8.00	3.90	7.56	12.00	2.10
19	3.00	3.70	0.80	5.70	9.80	10.30	8.00	7.80	6.16	10.30	0.80
20	8.80	6.50	6.00	9.40	11.90	14.10	12.00	10.30	9.88	14.10	6.00
21	10.30	8.60	7.20	8.10	9.80	7.70	6.20	5.80	7.96	10.30	5.80
22	2.80	0.20	-1.40	6.40	12.80	15.00	13.40	9.70	7.39	15.00	-1.40
23	8.30	4.60	2.20	7.20	11.10	13.20	14.00	6.00	8.33	14.00	2.20
24	7.60	6.00	5.40	6.30	10.20	11.30	13.60	14.10	9.34	14.10	5.40
25	11.00	10.80	8.30	99.90	99.90	99.90	99.90	99.90	10.03	11.00	8.30
26	99.90	99.90	99.90	99.90	12.00	15.10	12.00	9.80	12.23	15.10	9.80
27	5.70	2.90	2.40	10.80	16.30	15.00	12.00	9.80	9.16	16.30	2.40
28	7.30	5.70	1.20	9.70	15.60	17.30	14.60	12.50	10.49	17.30	1.20
29	10.40	12.30	4.20	12.10	19.40	21.00	17.20	13.70	13.79	21.00	4.20
30	12.60	12.20	12.50	16.00	14.80	13.30	13.00	21.10	14.44	21.10	12.20
31	17.70	16.00	15.10	16.30	18.40	17.70	15.30	13.00	16.19	18.40	13.00
T-MEAN	6.01	4.50	3.03	7.75	11.24	11.80	9.71	7.90	7.74		

1979 DAY	MAR 0	Upp 3	6	9	12	15	18	21	D-MEAN	D-MAX	D-MIN
1	4.70	1.00	2.30	5.50	8.60	4.60	5.30	3.10	4.64	8.60	2.30
2	1.90	0.20	0.10	3.90	7.00	8.40	5.30	2.30	3.64	8.40	0.10
3	1.00	0.0	-1.00	3.30	7.50	7.20	6.90	5.00	3.74	7.50	-1.00
4	5.20	3.20	0.30	0.60	2.00	3.60	3.60	3.30	2.72	5.20	0.30
5	2.80	0.30	0.30	3.80	7.30	9.20	6.30	4.80	4.35	9.20	0.30
6	5.70	3.30	-0.70	4.30	10.00	12.60	11.30	8.90	6.93	12.60	-0.70
7	7.30	3.00	1.30	7.70	10.40	12.10	9.70	7.20	7.34	12.10	1.30
8	5.30	5.00	3.80	6.50	8.10	9.40	9.10	8.50	6.96	9.40	3.80
9	4.60	2.80	3.20	8.70	13.40	15.10	10.80	9.60	8.53	15.10	2.80
10	9.70	8.00	8.80	11.50	15.30	15.00	12.00	12.20	11.56	15.30	8.00
11	10.00	9.70	8.50	8.30	11.40	10.30	6.60	3.30	8.11	11.40	3.30
12	1.90	0.20	0.10	4.30	7.40	6.90	5.90	4.70	3.95	7.40	0.20
13	3.20	2.30	3.30	4.00	5.20	7.40	5.80	5.40	4.43	7.40	2.30
14	3.70	2.00	2.10	6.90	10.00	8.70	7.60	6.40	5.81	10.00	2.00
15	5.70	5.20	4.40	8.10	11.00	11.40	8.90	7.30	7.25	11.40	4.40
16	5.20	2.00	4.20	8.40	11.40	11.80	9.70	7.00	7.74	11.80	4.20
17	5.80	3.20	2.90	8.00	12.70	15.20	12.90	11.30	8.94	15.20	2.90
18	9.10	6.30	4.10	9.60	11.40	12.30	8.00	5.00	8.23	12.30	4.10
19	3.40	4.00	1.30	5.70	9.70	10.30	8.50	8.20	6.39	10.30	1.30
20	8.80	6.40	6.00	9.20	11.90	14.00	12.20	9.40	9.76	14.00	6.00
21	10.50	8.90	7.70	8.10	9.80	7.90	6.60	5.80	8.15	10.50	5.80
22	4.00	1.60	-0.40	6.40	12.40	14.70	14.50	10.20	7.93	14.70	-0.40
23	8.30	4.90	3.70	7.00	10.60	13.20	14.30	7.00	8.43	14.30	3.70
24	7.80	4.00	5.30	6.40	10.10	11.70	13.70	14.50	9.44	14.50	5.30
25	11.00	10.80	9.70	99.90	99.90	99.90	99.90	99.90	10.50	11.00	9.70
26	99.90	99.90	99.90	99.90	11.50	15.00	12.40	10.00	12.25	15.00	10.00
27	8.60	3.70	3.40	10.70	15.30	15.30	12.20	10.10	9.09	15.30	3.40
28	7.30	7.20	2.10	9.40	15.10	17.30	14.80	12.50	10.74	17.30	2.10
29	10.80	13.20	4.30	12.30	19.10	20.80	17.20	14.10	14.00	20.80	4.30
30	13.00	12.70	13.10	16.00	14.80	13.30	13.00	21.10	14.63	21.10	12.70
31	18.10	18.20	15.70	16.70	17.80	17.30	15.30	12.90	16.33	18.20	12.90
T-MEAN	6.81	5.32	4.02	7.60	10.95	11.74	10.02	8.37	8.11		

第 3 篇 ( 水 文 表 )

### 第 3 篇 (水文表)

#### 1 要素の説明

**地下水水位** : Groundwater Level (GW 1, GW 2, GW 3)

**測定方法** ポテンショメータを感部としたフロート (直径 100 cm) 型水位発信器を使用して、水位変化を抵抗変化として取り出し、さらに変換器を通して 0 ~ 10m V の電圧変化として電子管記録計に記録している。

**観測場所** 地下水水位観測井は圃場内の東南部に 3ヶ所設置している (Fig. 2 の D 地点)。観測井の口径は 150mm、長さはそれぞれ GW 1 が 2.2m (ストレーナーの位置は 0.7 ~ 2m)、GW 2 が 10m (同 8 ~ 9m)、GW 3 が 22m (同 14 ~ 18m) である。

**観測場所の地質柱状の概要は**、地表面から 0.6 m までが盛土 (粘土を一部含むロームを表土の混合物) 0.6 ~ 1.0 m がローム、1 ~ 5.2 m が粘土、5.2 ~ 8 m が細砂、8 ~ 18.5 m がレンズ状の粘土層を挟む小礫混り細砂、18.5 ~ 22m が細砂混り粘土である。

**計算方法** 記録紙上の毎日の午前 9 時の値を日水位とした。そして、このデータをもとに半旬別平均値、日平均値を計算している。

**単位** 単位は地表面から地下水面までの距離を cm で示したものである。

**地温** : Soil Temperature (S T 1, S T 2, S T 3, S T 4)

**測定方法** 直径 10mm、長さ 15cm の防水型ステンレス保護管に収められた白金抵抗体 (0.3 級) を用いて、地中温度の測定をおこなっている。

**観測場所** 測定場所は圃場内の東南部 (C 地点) にあり、測定深度は地表面から 2 cm (S T 1)、10cm (S T 2)、50cm (S T 3)、100 cm (S T 4) である。地下 1 m まで穴を掘り、その側壁に地表面と平行にセンサーを挿入した後、埋め戻してある。

**計算方法** 地下 2、10cm については、記録紙上から毎日の最大、最小温度と、その時刻を読み取って日の値とした。地下 50、100 cm では日変化がほとんど認められないため、午前 9 時の読み取り値を日温度としている。地下 2、10cm では、日最大値、日最小値をもとに最大値、最小値の半旬別平均値を求め、それらの平均値を地下 2、10cm の半旬別平均値とした。地下 50、100 cm では、日温度をもとに半旬別平均値を計算した。月平均値は半旬別平均値から計算したものである。

**単位** 単位は °C である。

**蒸発散量** : Evapotranspiration (E T)

**測定方法** 直径 2 m、深さ 2 m の円筒型容器に土をつめたウェイングライシメータを使用して測定をおこなっている。総重量は約 9 トンである。蒸発あるいは降水による重量変化を ± 250 kg (水深換算約 80mm) の範囲で測定でき、秤量感度は 500 g (同 0.16 mm) である。容器内の土はほとんど不攪乱状態で採取したものであり、また表面の状態も周囲のそれと同様であるため、ウェイングライシメータによる測定値は、ほぼ自然状態の地表面蒸発散量であるといえる。

観測場所 観測圃場中央から西に20m (F地点) に設置されている。

計算方法 その日の午前0時から翌日の午前0時の間に記録した蒸発量を日蒸発散量とし、日蒸発散量を積算して、半旬別および月別の積算値を得ている。

単位 単位はmmで、水深換算してある。

蒸発量 : Evaporation (E)

測定方法 水面からの蒸発量を測定するため、口径120cm、深さ25cmの円筒型の大型蒸発計を使用している。この容器から導水管で通じた口径15.5cm、深さ30cmの測定タンク内の水位変化を、フロート(外径14cm)で検出し、ポテンショメータにより水位変化を抵抗変化としてとらえ、さらに変換器を通して0~10mVの電圧変化として電子管記録計に記録している。測定範囲は100mmである。

観測場所 圃場中央から南に10m (G地点) に設置されている。

計算方法 午前0時から翌日の午前0時まで記録した蒸発量をその日の日蒸発量とし、日蒸発量を積算して、半旬別および日別の積算値を得ている。

単位 単位はmmで、水深換算してある。

日降水量 : Precipitation (P)

測定方法 1転倒0.5mm、直径20cmの転倒ます型隔測自記雨量計を使用している。わずかの降水の検出と強度を知る目的から、0.0083mmを1パルスとした降雨強度計も併設している。

観測場所 測定場所は圃場中央から南へ20m (E地点) であり、周囲に障害物は存在しない。

計算方法 その日の午前0時と翌日の午前0時の間に記録した雨量を日降水量とし、日降水量を積算して、半旬別および月別の積算値を得ている。

単位 単位はmmで、水深換算してある。

## 2 統計期間

第3篇にある各観測要素については、1977年8月1日~1979年3月31日間の観測値が示してある。その間欠測が生じた場合には、平均値あるいは積算値も含めて表の中では空白としている。Fig. 8に地下水水位、Fig. 9に地温、Fig. 10に降水量の年変化を示す。(佐倉 保夫)

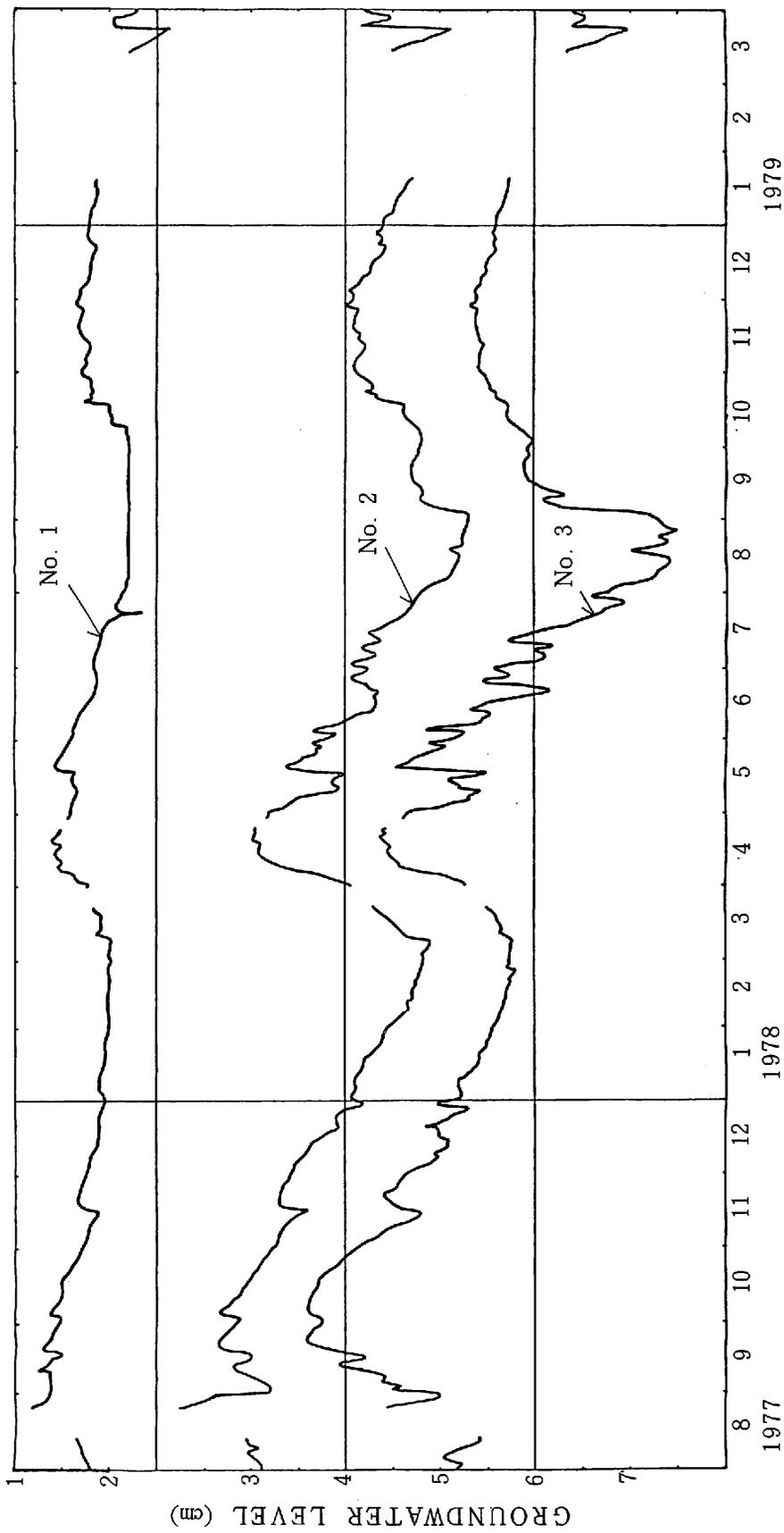


Fig. 8 Annual changes of groundwater levels below land surface. (1977. 8. 1 ~ 1979. 3. 31)

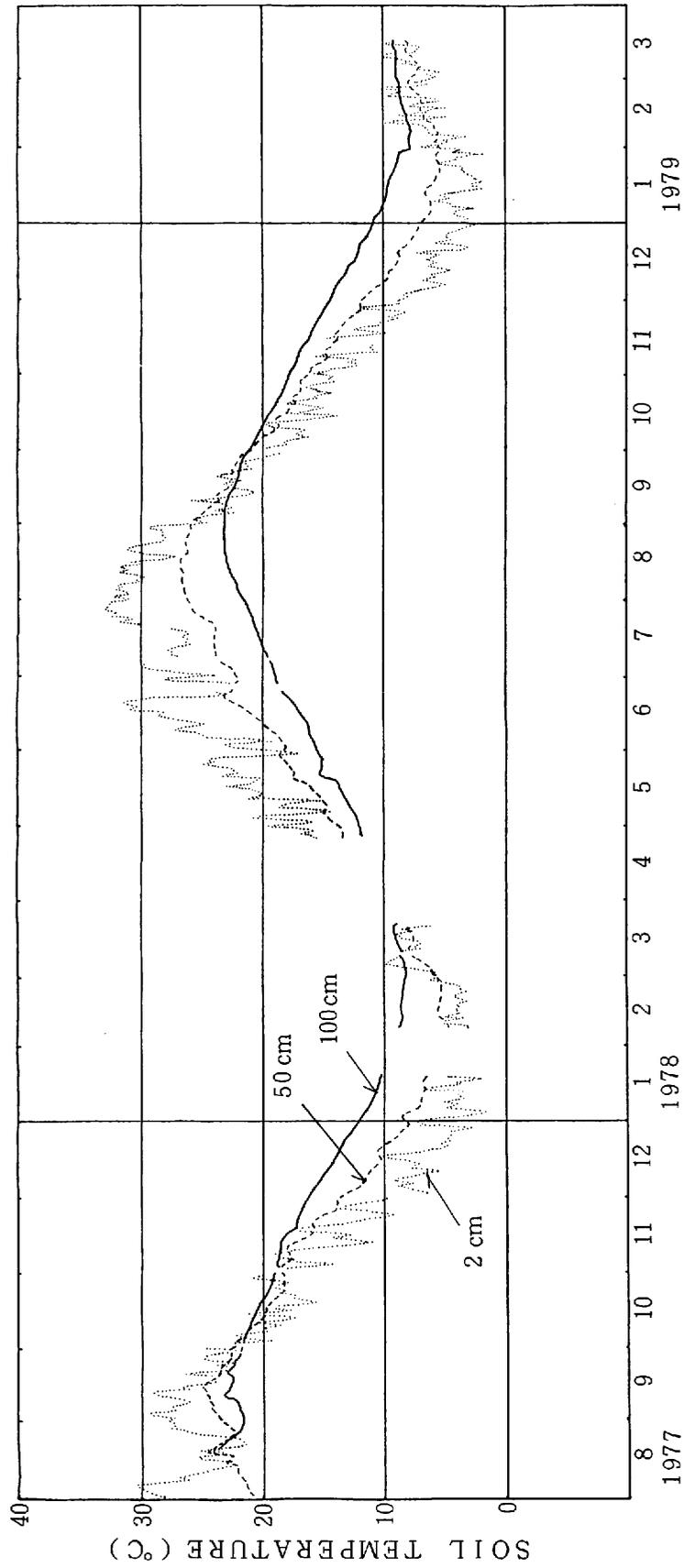


Fig. 9 Annual changes of soil temperatures. (1977. 8. 1~1979. 3. 31)

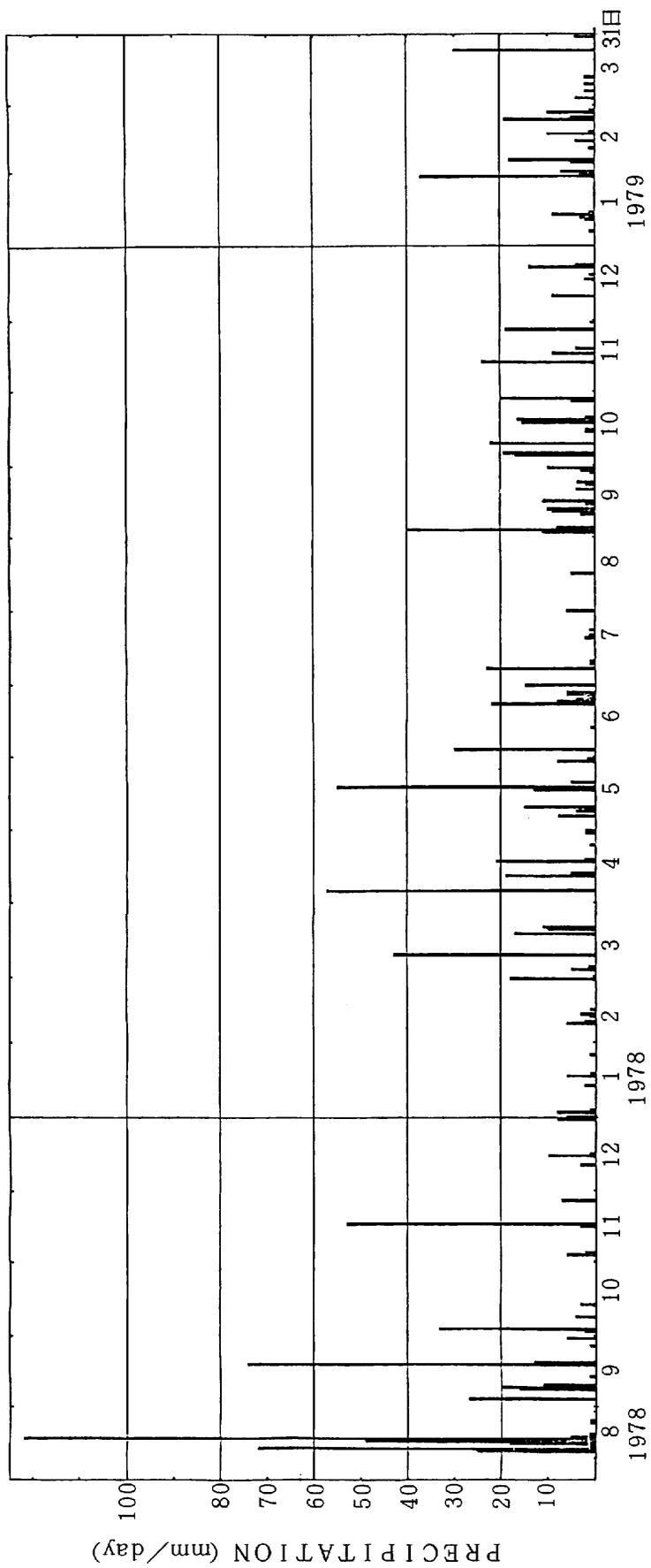


Fig.10 Annual variation of daily precipitation. (1977. 8. 1~1979. 3. 31)

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)			
	(2-2")			2CM		10CM									
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX. (TIME)	MIN. (TIME)	MAX. (TIME)	MIN. (TIME)								
1	179	311	518	30.6	(17)	25.6	(8)	24.4	(15)	24.1	(7)	20.8			
2	177	310	520	31.4	(17)	26.6	(8)	24.5	(18)	24.3	(0)	21.0			
3	17A	310	523	31.8	(17)	27.0	(8)	25.0	(17)	24.5	(5)	21.1			
4	175	305	511	32.3	(17)	27.1	(7)	25.4	(14)	24.8	(2)	21.3			
5	173	305	507	32.4	(17)	28.2	(8)	25.5	(16)	25.2	(2)	21.3			
5-DAYS				31.7		26.9		25.0		24.6			SUM.	SUM.	SUM.
MEAN	17A	308	516		29.3			24.8				21.1	( )	( )	( )
6	173	301	503	32.5	(16)	28.1	(8)	26.0	(15)	25.4	(6)	21.4			
7	171	297	513	30.2	(16)	26.5	(8)	25.9	(12)	25.8	(5)	21.6			
8	171	297	512	27.1	(0)	25.1	(23)	25.8	(11)	25.7	(23)	21.7			
9	171	308	552	29.2	(16)	24.7	(7)	25.5	(11)	25.2	(23)	21.9			
10	169	300	527	28.5	(16)	24.6	(7)	25.1	(15)	25.0	(23)	22.1			
5-DAYS				29.5		25.9		25.7		25.4			SUM.	SUM.	SUM.
MEAN	171	301	521		27.7			25.6				21.7	( )	( )	( )
11	166	295	513	25.6	(18)	24.2	(10)	25.1	(6)	25.0	(23)	22.1			
12	166	298	538	25.4	(15)	23.5	(8)	25.0	(0)	24.6	(23)	22.1			
13	165	298	529	24.7	(14)	23.4	(23)	24.5	(6)	24.3	(23)	22.1			
14				21.7	(0)	21.6	(10)	24.1	(1)	23.5	(23)	23.1	25.0	-25.4	-24.5
15				23.8	(17)	21.4	(7)	23.2	(10)	23.0	(23)	22.7	72.0		
5-DAYS				24.5		22.8		24.4		24.0			1.0		0.3
MEAN					21.7			24.2				22.4	SUM.	SUM.	SUM.
16				26.7	(17)	22.7	(7)	25.0	(6)	23.6	(23)	22.7	( )	( )	( )
17				25.8	(17)	24.8	(7)	24.2	(23)	23.7	(0)	22.4	18.0	-17.1	-16.5
18				26.0	(16)	24.3	(23)	25.9	(17)	24.7	(1)	24.8	49.0	-52.6	-48.2
19				23.8	(15)	21.8	(23)	24.7	(0)	22.9	(23)	24.3	122.0		
20				28.0	(12)	22.4	(6)	24.8	(14)	24.7	(7)	24.0	5.0	-5.1	-5.4
5-DAYS				26.1		23.2		24.9		23.7			1.0	0.	1.5
MEAN					24.6			24.3				23.6	SUM.	SUM.	SUM.
21				25.4	(14)	21.1	(6)	23.8	(17)	22.0	(9)	23.7	9.5 (105.0)	( )	( )
22				22.4	(14)	19.8	(23)	22.6	(0)	21.7	(23)	23.4	23.4	0.	12.9
23				23.7	(17)	19.2	(6)	22.2	(18)	20.1	(8)	23.1	0.	0.	3.4
24				24.4	(17)	19.2	(2)	22.0	(17)	20.4	(8)	22.7	0.	0.	1.3
25				24.2	(17)	19.9	(6)	22.7	(19)	20.8	(7)	22.4	0.	0.	1.6
5-DAYS				24.0		19.9		22.9		20.0			1.0	0.	0.1
MEAN					21.9			21.9				23.1	SUM.	SUM.	SUM.
26	119	225	443	28.0	(12)	20.9	(6)	24.4	(16)	21.6	(7)	22.5	22.9 ( 1.7)	( 12.9)	( 9.3)
27	123	234	467	29.1	(12)	22.8	(6)	25.4	(16)	22.9	(7)	22.5	1.0	2.7	1.2
28	132	240	480	29.7	(15)	23.9	(6)	26.7	(17)	23.2	(8)	22.5	22.0	0.	2.4
29	135	247	484	32.2	(16)	23.9	(6)	27.9	(16)	23.6	(7)	22.9	21.9	0.	2.7
30	137	257	503	32.2	(16)	22.1	(5)	27.9	(16)	23.7	(8)	23.0	21.8	0.	4.2
31	138	260	501	31.7	(11)	22.9	(5)	27.5	(17)	24.2	(6)	23.0	21.7	0.	4.5
5-DAYS				30.5		22.5		28.5		23.2			0.	2.2	3.5
MEAN	131	244	476		26.5			24.0				22.7	SUM.	SUM.	SUM.
MONTHLY												21.9 ( 1.0)	( 13.0)	( 12.5)	
MEAN					25.6			24.3		22.4	( )	( )	( )	( )	( )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) OF LOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2-2")	(10")	(22")	2CM		10CM						
	NO.1 WELL NO.2 WELL NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	147	318	480	32.0 (14)	23.8 (6)	28.0 (17)	24.4 (7)	23.5	21.7	0.	0.8	2.7
2	141	315	444	30.9 (14)	23.6 (3)	27.3 (17)	24.4 (7)	23.4	21.7	0.	1.6	3.2
3	142	322	444	34.4 (14)	23.4 (6)	29.2 (17)	24.5 (8)	23.8	21.7	0.	2.3	5.1
4	144	323	440	34.4 (14)	24.2 (23)	29.3 (16)	25.4 (8)	23.9	21.7	27.0	-25.8	-12.5
5	141	314	448	32.5 (14)	22.0 (6)	28.3 (16)	23.9 (8)	24.2	21.9	0.	4.1	3.8
S-DAYS				32.8	23.5	28.4	24.5			SUM.	SUM.	SUM.
MEAN	142	316	459		24.2		24.5	23.8	21.7 (27.0)		(4.8)	(14.4)
6	142	302	436	32.1 (14)	22.4 (6)	28.3 (16)	24.0 (8)	24.3	21.9	0.	3.0	4.7
7	140	310	440	31.1 (14)	23.9 (5)	27.9 (17)	24.7 (8)	24.1	21.9	0.	2.1	2.5
8	142	316	440	31.7 (14)	21.4 (6)	27.8 (16)	25.0 (8)	24.3	22.0	16.0	-15.2	-13.1
9	138	311	442	27.8 (16)	24.7 (5)	26.2 (18)	24.8 (7)	24.5	22.2	20.9	-20.1	-12.2
10	121	288	421	30.1 (14)	24.5 (6)	27.5 (17)	24.8 (8)	24.4	23.0	11.0	-8.5	-9.2
S-DAYS				30.5	23.3	27.5	24.7			SUM.	SUM.	SUM.
MEAN	137	305	434		26.9		26.1	24.3	22.2 (47.0)		(5.1)	(7.2)
11	129	287	403	32.0 (13)	25.2 (6)	26.1 (14)	25.4 (7)	24.7	23.2	0.	3.4	3.7
12	131	290	412	33.4 (15)	24.6 (6)	29.4 (16)	25.1 (7)	24.7	22.9	0.		
13	134	304	398	32.9 (13)	25.0 (23)	28.9 (16)	25.8 (8)	24.8	22.8			
14	135	280	395	28.3 (14)	23.5 (6)	26.4 (17)	24.8 (8)	25.0	22.7	1.0	0.1	-0.1
15	140	283	396	30.8 (13)	22.9 (23)	27.1 (15)	24.4 (8)	24.8	22.7	0.	1.7	2.5
S-DAYS				31.5	24.2	27.6	25.1			SUM.	SUM.	SUM.
MEAN	134	287	399		27.9		26.3	24.8	22.9 ( )	( )	( )	( )
16	140	300	423	29.3 (14)	19.2 (6)	25.9 ( )	22.1 (8)	24.6	22.6	0.	2.5	4.6
17	150	301	420	28.1 (12)	17.4 (6)	25.2 (17)	20.6 (8)	24.2	22.6	0.	2.1	3.8
18	151	307	418	27.7 (14)	20.7 (5)	25.1 (17)	22.1 (7)	23.8	22.5	0.	0.5	2.0
19	143	307	315	24.9 (17)	22.4 (23)	24.2 (18)	22.2 (9)	23.6	22.5	74.0		
20	118	263	380	32.0 (13)	21.3 (6)	27.1 (17)	21.7 (7)	23.5	23.0	13.0		
S-DAYS				28.4	20.2	25.5	21.6			SUM.	SUM.	SUM.
MEAN	147	293	391		24.3		23.6	23.9	22.6 (87.0)	( )	( )	( )
21	129	274	385	28.7 (13)	21.1 (7)	25.4 (17)	22.6 (7)	23.5	22.8	0.	-0.2	2.9
22	136	265	364	24.9 (13)	20.2 (6)	23.5 (15)	21.9 (8)	23.5	22.6	0.	2.5	3.4
23	133	245	360	25.9 (14)	19.7 (6)	23.2 (17)	21.0 (8)	23.3	22.4	0.	2.1	1.9
24	135	244	358	27.7 (14)	20.1 (6)	24.4 (17)	21.3 (8)	22.9	22.3	0.	1.6	1.5
25	140	264	359	26.1 (12)	18.6 (6)	23.4 (15)	20.7 (8)	22.4	22.3	0.	2.1	3.5
S-DAYS				26.7	19.9	24.0	21.5			SUM.	SUM.	SUM.
MEAN	135	267	366		23.3		22.8	23.2	22.5 (0.)	(0.)	(8.3)	(15.5)
26	140	270	367	28.8 (13)	18.7 (6)	24.5 (16)	20.4 (7)	22.6	22.1	0.	1.7	2.1
27	140	277	360	29.8 (13)	20.3 (6)	25.5 (17)	21.4 (8)	22.6	22.0	1.0	1.0	1.2
28	141	277	364	29.2 (14)	20.0 (6)	25.2 (17)	21.6 (8)	22.6	21.9	0.	2.4	4.1
29	143	280	366	26.5 (14)	20.3 (6)	24.1 (16)	21.5 (9)	22.6	21.9	0.	0.5	2.0
30	144	280	367	24.2 (14)	20.7 (7)	22.8 (17)	21.5 (8)	22.6	21.9	6.0	-5.7	-5.3
S-DAYS				27.6	19.9	24.4	21.5			SUM.	SUM.	SUM.
MEAN	142	275	363		23.8		22.9	22.6	22.0 (7.0)	(5.6)	(9.4)	( )
MONTHLY												
MEAN	138	291	402		25.7		24.7	23.8	22.3 ( )	( )	( )	( )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) OF LOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2-2")	(10")	(22")	2CM		10CM						
	NO.1 WELL NO.2 WELL NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	147	287	374	29.9 (14)	19.4 (7)	25.1 (16)	20.7 (8)	22.7	21.7	0.	2.9	2.7
2				( )	( )	( )	( )			0.	2.2	3.4
3	150	290	374	25.0 (13)	19.7 (6)	23.0 (15)	20.9 (8)	22.2	21.5	2.0	-1.0	0.7
4	150	287	371	20.1 (15)	18.1 (23)	20.1 (15)	19.3 (23)	22.1	21.6	33.0	-33.1	
5	137	268	360	25.5 (13)	16.8 (6)	23.2 (16)	18.3 (8)	21.6	21.6	0.	1.0	2.5
S-DAYS				25.5	16.8	23.2	18.3			SUM.	SUM.	SUM.
MEAN										(35.0)	(6.1)	( )
6	139	248	360	27.4 (14)	17.2 (6)	23.3 (16)	19.1 (8)	21.3	21.5	0.	2.3	1.9
7	140	270	359	25.8 (13)	17.5 (6)	22.7 (16)	19.3 (8)	21.3	21.3	0.	2.9	3.7
8	142	273	359	20.9 (12)	18.5 (6)	20.4 (17)	19.7 (8)	21.2	21.2	0.	0.9	1.4
9	145	278	360	22.0 (16)	17.5 (8)	19.7 (17)	18.7 (10)	21.1	21.1	4.0	-5.2	-4.8
10	147	280	360	22.4 (13)	17.1 (4)	20.5 (17)	18.3 (7)	20.8	21.1	0.	1.0	0.
S-DAYS				23.7	17.6	21.3	19.0			SUM.	SUM.	SUM.
MEAN	143	274	360		20.6		20.2	21.1	21.2 (4.0)	(7.1)	(5.3)	( )
11	148	290	381	19.9 (13)	16.9 (23)	19.4 (15)	18.7 (9)	20.6	21.0	0.	1.7	1.5
12	150	285	363	25.1 (13)	15.6 (7)	21.9 (16)	17.2 (8)	20.4	20.9	0.	2.9	3.2
13	150	287	363	24.1 (13)	13.6 (6)	20.6 (16)	16.3 (8)	20.1	20.8	0.	1.9	2.4
14	150	290	366	19.3 (15)	14.7 (5)	18.4 (18)	16.7 (8)	20.0	20.7	3.0	-3.7	-3.4
15	150	290	368	25.5 (13)	13.3 (6)	21.5 (17)	16.8 (8)	19.8	20.5	0.	2.1	1.1
S-DAYS				22.8	15.2	20.2	17.1			SUM.	SUM.	SUM.
MEAN	150	286	368		19.0		18.7	20.2	20.8 (3.0)	(8.6)	(8.7)	( )
16	151	292	366	24.6 (14)	17.9 (6)	21.4 (16)	18.9 (8)	19.7	20.5	0.	1.8	1.4
17	153	294	372	18.3 (13)	16.7 (7)	18.3 (17)	17.9 (23)	19.8	20.3	0.	1.6	2.5
18	150	295	370	22.2 (12)	15.7 (7)	19.8 (16)	17.1 (8)	19.8	20.3	0.	1.8	2.0
19	151	298	370	24.1 (14)	13.3 (7)	20.3 (16)	16.1 (8)	19.5	20.2	0.	2.0	2.7
20	152	307	372	18.1 (14)	13.2 (23)	17.6 (17)	16.1 (23)	19.3	20.1	0.	1.4	3.0
S-DAYS				21.5	15.4	19.5	17.2			SUM.	SUM.	SUM.
MEAN	151	294	370		14.4		18.4	19.6	20.3 (0.)	(9.0)	(11.5)	( )
21	153	301	375	22.5 (14)	11.1 (7)	18.7 (17)	16.1 (8)	19.2	20.1	0.	1.5	1.3
22	159	309	381	23.4 (14)	11.6 (7)	19.2 (17)	16.3 (8)	18.8	19.9	0.	1.5	3.2
23	160	309	385	22.2 (15)	12.3 (6)	19.0 (17)	16.4 (8)	18.5	19.8	0.	1.4	1.7
24	161	308	384	24.2 (14)	13.1 (7)	19.9 (17)	15.3 (8)	18.4	19.7	0.	1.4	1.1
25	152	309	389	23.1 (14)	12.4 (7)	19.4 (16)	15.1 (8)	18.3	19.5	0.	3.4	2.4
S-DAYS				23.1	12.1	19.2	14.7			SUM.	SUM.	SUM.
MEAN	150	307	383		17.6		17.0	18.6	19.8 (0.)	(7.2)	(2.7)	( )
26	164	311	393	24.4 (14)	14.5 (7)	20.3 (17)	16.1 (8)	18.3	19.4	0.	1.1	1.5
27	166	314	397	24.0 (14)	13.4 (7)	20.0 (17)	15.0 (8)	18.3	19.3	0.	1.4	2.4
28	168	319	400	20.4 (14)	14.4 (6)	21.4 (17)	16.3 (8)	18.3	19.2	0.	1.0	1.3
29	169	318	401	23.8 (14)	14.2 (6)	19.9 (17)	16.0 (8)	18.3	19.2	0.	1.2	1.4
30	170	320	405	22.4 (13)	19.2 (6)	19.4 (17)	16.2 (9)	18.3	19.1	0.	0.9	0.7
31	170	321	409	24.0 (14)	15.8 (7)	20.4 (17)	17.0 (9)	18.3	19.1	0.	1.0	1.8
S-DAYS				23.2	15.3	20.6	16.3			SUM.	SUM.	SUM.
MEAN	168	317	401		19.3		13.5	18.3	19.2 (0.)	(5.6)	(9.4)	( )
MONTHLY										(62.7)	(44.5)	( )
MEAN												

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)	(10M)	(22M)	2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	171	322	411	( )	( )	( )	( )	18.5	19.0	0.	1.2	2.2
2	174	325	417	( )	( )	( )	( )			0.	0.2	1.7
3	175	328	422	22.1 (17)	13.8 (5)	19.0 (14)	15.8 (7)	18.5	19.8	0.	1.8	2.3
4	177	327	430	15.2 (10)	12.5 (4)	15.4 (14)	14.9 (22)	18.4	18.9	6.7	-6.6	
5	177	331	431	21.9 (12)	12.5 (5)	18.1 (15)	14.1 (6)	18.0	18.9	2.0	0.4	-0.9
5-DAYS										SUM.	SUM.	SUM.
MEAN	175	327	422							( 8.0)	( 3.6)	( )
6	178	331	435	21.6 (12)	12.9 (5)	18.3 (15)	14.4 (7)	17.7	18.8	0.	1.8	1.4
7	179	335	438	19.7 (9)	12.2 (22)	18.3 (14)	12.7 (22)	17.7	18.8	0.	0.5	0.4
8	176	330	441	20.9 (15)	16.8 (4)	18.7 (17)	12.7 (6)	17.9	18.7	0.	0.8	0.6
9	179	332	447	23.0 (13)	15.1 (23)	19.7 (14)	12.1 (9)	17.9	18.6	0.	2.1	3.2
10	181	339	456	22.0 (14)	13.8 (7)	18.7 (16)	15.7 (9)	18.1	18.6	0.	1.7	2.9
5-DAYS										SUM.	SUM.	SUM.
MEAN	179	333	443		18.3	17.7		17.9	18.7 ( 0.)	( 6.9)	( 6.4)	( 9.4)
11	180	339	460	20.0 (14)	11.2 (7)	17.4 (16)	14.3 (9)	18.0	18.6	0.	1.5	1.2
12	181	340	469	18.0 (14)	8.5 (7)	15.4 (16)	12.3 (9)	17.8	18.6	0.	1.4	1.6
13	186	343	476	13.9 (14)	7.5 (7)	13.2 (17)	11.0 (8)	17.3	18.5	0.	0.8	1.5
14	188	346	480	14.8 (14)	11.3 (4)	14.0 (18)	12.5 (8)	16.7	18.4	0.	-1.0	-0.5
15	189	350	480	17.0 (14)	11.3 (4)	15.4 (15)	12.7 (8)	16.3	18.3	0.	0.7	0.6
5-DAYS										SUM.	SUM.	SUM.
MEAN	185	344	473		13.4	13.8		17.2	18.5 ( 0.)	( 4.4)	( 4.7)	( 3.0)
16	190	360	467	14.0 (12)	11.0 (0)	13.6 (17)	12.6 (9)	16.1	18.1	3.0	-3.7	-3.0
17	180	350	458	16.2 (13)	13.3 (0)	15.3 (17)	13.5 (0)	15.8	17.8	53.0	-52.5	-51.1
18	175	334	450	19.5 (14)	14.9 (23)	17.1 (16)	15.1 (8)	15.7	17.1	0.	2.1	1.3
19	169	331	450	20.8 (14)	13.3 (4)	17.4 (16)	14.5 (8)	15.9	17.3	0.	1.8	1.3
20	168	331	446	17.3 (14)	9.5 (7)	15.2 (17)	12.5 (9)	16.0	17.2	0.	2.2	2.5
5-DAYS										SUM.	SUM.	SUM.
MEAN	176	341	454		15.0	15.7	13.6	15.9	17.5 ( 56.0)	( 5.9)	( 6.9)	( 4.9)
21	167	330	445	17.9 (14)	8.4 (7)	14.9 (14)	11.3 (9)	15.9	17.2	0.	2.3	2.2
22	167	330	440	16.3 (14)	7.8 (7)	13.9 (17)	10.6 (9)	15.6	17.3	0.	0.3	0.1
23	169	331	443	14.0 (14)	6.5 (6)	12.5 (16)	9.8 (9)	15.3	17.2	0.	1.8	2.3
24	170	331	442	14.0 (14)	4.4 (7)	11.7 (17)	8.0 (9)	14.9	17.1	0.	1.2	0.7
25	170	334	450	14.2 (14)	4.7 (7)	11.7 (17)	8.0 (9)	14.4	17.0	0.	0.8	0.9
5-DAYS										SUM.	SUM.	SUM.
MEAN	169	331	444		10.8	11.2		15.2	17.2 ( 0.)	( 6.4)	( 6.2)	( 4.7)
26	171	333	456	13.1 (14)	8.8 (7)	11.9 (17)	10.0 (9)	13.9	16.9	0.	0.1	0.7
27	172	333	456	17.3 (14)	10.6 (23)	14.1 (17)	11.5 (8)	13.9	16.8	7.0	-5.7	-6.5
28	172	337	457	16.0 (15)	9.4 (6)	13.5 (17)	10.9 (8)	13.9	16.6	0.	0.7	0.7
29	175	340	461	14.3 (13)	9.6 (7)	12.8 (16)	11.0 (9)	13.8	16.4	0.	0.7	1.3
30	175	340	461	14.0 (13)	6.1 (23)	12.2 (13)	9.3 (23)	13.9	16.3	0.	1.6	2.4
5-DAYS										SUM.	SUM.	SUM.
MEAN	173	337	458		11.9	11.7	10.5	13.9	16.6 ( 7.0)	( )	( )	( 5.1)
MONTHLY												
MEAN	176	336	449						( 71.0)	( )	( )	( )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)	(10M)	(22M)	2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	176	341	469	13.8 (11)	5.6 (4)	11.4 (15)	8.3 (7)	13.7	16.2	0.	1.0	1.3
2	176	341	464	( )	( )	( )	( )	13.5	16.1	0.	1.1	1.4
3	178	346	470	10.6 (14)	2.2 (7)	9.2 (16)	6.5 (9)	13.1	16.0	0.	1.0	1.4
4	179	346	478	11.9 (14)	2.9 (8)	9.4 (17)	5.8 (9)	12.6	15.9	0.	0.8	1.1
5	180	347	478	11.5 (14)	4.6 (7)	9.5 (17)	6.8 (9)	12.1	15.7	0.	0.4	0.6
5-DAYS										SUM.	SUM.	SUM.
MEAN	178	344	472					13.0	16.0 ( 0.)	( 3.3)	( 6.7)	( 6.7)
6	180	350	480	13.2 (14)	4.6 (7)	10.3 (17)	6.9 (9)	11.9	15.5	0.	0.6	0.7
7	180	351	485	11.4 (14)	3.1 (8)	9.1 (16)	6.1 (9)	11.8	15.4	0.	0.8	0.8
8	181	353	488	12.7 (14)	5.9 (7)	10.0 (17)	7.5 (9)	11.6	15.2	0.	0.8	0.8
9	181	356	487	12.8 (14)	5.1 (8)	10.3 (17)	7.3 (9)	11.5	15.1	0.	0.6	0.7
10	182	360	493	12.0 (14)	3.1 (8)	9.4 (16)	6.2 (9)	11.4	14.9	0.	0.7	1.7
5-DAYS										SUM.	SUM.	SUM.
MEAN	181	354	487		4.4	9.8	6.8	11.6	15.2 ( 0.)	( 3.3)	( 5.0)	( 5.0)
11	184	360	501	11.2 (14)	2.7 (8)	8.8 (17)	5.6 (9)	11.3	14.7	0.	0.6	1.0
12	185	363	505	6.7 (14)	3.9 (4)	6.0 (17)	6.1 (8)	11.1	14.6	3.0	-3.2	-2.7
13	188	361	510	12.3 (14)	3.1 (8)	9.1 (17)	5.5 (9)	10.8	14.5	0.	1.0	-0.5
14	188	363	508	12.1 (14)	2.8 (8)	8.9 (17)	5.2 (9)	10.6	14.3	0.	0.9	0.5
15	190	370	508	10.8 (14)	3.1 (7)	8.5 (17)	5.6 (9)	10.4	14.2	0.	0.4	0.5
5-DAYS										SUM.	SUM.	SUM.
MEAN	187	363	506		3.1	8.3	5.6	10.8	14.5 ( 3.0)	( 2.9)	( 1.8)	( 1.8)
16	190	370	510	10.3 (15)	5.3 (7)	9.1 (17)	6.8 (9)	10.3	14.0	10.0	-10.7	-9.2
17	190	375	498	12.5 (15)	6.5 (7)	10.2 (18)	7.6 (8)	10.3	13.9	1.0	0.6	-0.3
18	190	380	498	13.3 (14)	6.8 (23)	10.8 (16)	8.3 (8)	10.5	13.9	0.	1.2	0.2
19	190	382	499	11.1 (14)	3.6 (8)	9.1 (16)	6.4 (9)	10.7	13.8	0.	1.4	1.7
20	190	386	497	10.4 (14)	3.4 (4)	8.3 (17)	5.7 (9)	10.5	13.6	0.	0.9	1.0
5-DAYS										SUM.	SUM.	SUM.
MEAN	190	379	500		5.1	9.5	7.0	10.5	13.8 ( 11.0)	( 4.1)	( 2.2)	( 2.2)
21	190	393	493	9.1 (14)	2.4 (8)	7.7 (16)	4.7 (10)	10.3	13.6	0.	0.9	1.5
22	190	391	489	7.6 (13)	1.9 (9)	6.3 (17)	4.2 (10)	10.0	13.5	0.	0.9	1.5
23	190	390	501	8.7 (14)	2.0 (8)	6.4 (17)	3.9 (9)	9.6	13.3	0.	0.6	0.5
24	190	390	508	7.0 (15)	1.7 (9)	6.8 (17)	4.1 (10)	9.3	13.3	0.	0.6	0.5
25	190	390	508	6.7 (15)	2.7 (2)	5.9 (17)	4.2 (8)	9.0	13.1	0.	0.4	0.
5-DAYS										SUM.	SUM.	SUM.
MEAN	190	391	498		2.1	6.5	4.4	9.6	13.4 ( 0.)	( 3.4)	( 4.0)	( 4.0)
26	190	392	512	6.7 (14)	2.7 (8)	5.8 (16)	4.1 (10)	8.8	12.9	0.	1.0	1.3
27	192	395	522	7.5 (14)	1.4 (8)	5.8 (17)	3.4 (10)	8.7	12.7	0.	0.8	1.6
28	192	398	525	7.4 (14)	1.4 (9)	5.6 (17)	3.5 (10)	8.5	12.6	0.	0.4	1.0
29	193	399	530	5.2 (16)	0. (8)	4.2 (17)	2.4 (10)	8.3	12.4	0.	0.4	0.4
30	195	418	494	10.0 (14)	3.2 (8)	7.6 (18)	4.3 (9)	8.0	12.3	0.	0.8	1.0
31	195	419	498	7.4 (14)	6.2 (9)	7.0 (17)	6.5 (10)	8.0	12.1	8.0	-6.6	-7.5
5-DAYS										SUM.	SUM.	SUM.
MEAN	193	404	514		5.0	6.0	5.0	8.4	12.5 ( 8.0)	( 3.6)	( 4.5)	( 4.5)
MONTHLY												
MEAN	187	373	496			6.8		10.7	14.2 ( 22.0)	( 21.6)	( 27.5)	( 27.5)

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAWN SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M) NO.1 WELL	(10M) WELL NO.2	(22M) WELL NO.3	2CM		10CM						
	MAX. (TIME)	MIN. (TIME)	MAX. (TIME)	MIN. (TIME)	MAX. (TIME)	MIN. (TIME)						
1	196	410	505	9.4 (15)	5.9 (8)	4.3 (18)	6.4 (9)	8.3	12.0	4.0	-4.2	-7.0
2	197	410	521	8.3 (13)	2.9 (7)	4.9 (16)	5.2 (9)	8.5	11.9	0.	0.9	0.3
3	195	404	521	3.9 (1)	1.9 (23)	5.4 (0)	5.6 (23)	8.9	11.8	8.0	-11.4	-10.3
4	194	408	523	2.1 (15)	1.3 (23)	3.4 (0)	2.9 (23)	8.2	11.7	1.0	0.2	-1.0
5	191	404	520	2.1 (16)	1.2 (9)	3.9 (19)	3.5 (11)	7.7	11.5	0.	0.9	0.5
5-DAYS MEAN				5.2	2.6	5.6	4.3			SUM.	SUM.	SUM.
6	195	408	518		3.9		5.0	8.3	11.8	( 15.0)	( 1.9)	( 0.8)
7	190	410	516	7.0 (15)	1.1 (8)	4.8 (18)	2.3 (11)	7.2	11.3	0.	1.4	2.3
8	190	410	519	8.3 (14)	1.4 (8)	5.7 (17)	1.8 (9)	7.0	11.2	0.	1.4	0.9
9	189	409	519	5.9 (16)	1.9 (8)	4.9 (17)	1.2 (10)	7.0	11.2	0.	0.3	0.3
10	190	410	519	8.3 (15)	1.5 (8)	5.8 (17)	2.9 (10)	7.0	11.0	0.	0.7	0.4
5-DAYS MEAN				4.9	1.7	4.4	3.2	7.0	10.9	0.	1.4	2.6
11	190	410	518	6.9	1.5	5.1	2.3			SUM.	SUM.	SUM.
12	190	412	527	6.1 (15)	1.1 (10)	4.4 (17)	2.6 (11)	7.0	11.1	( 0.)	( 5.2)	( 6.7)
13	190	409	530	6.6 (15)	1.5 (9)	5.0 (17)	2.9 (10)	6.9	10.8	0.	0.8	0.8
14	192	417	532	5.5 (15)	1.5 (9)	4.4 (18)	1.9 (11)	6.8	10.7	0.	1.0	1.4
15	193	417	533	9.4 (15)	3.6 (4)	4.7 (18)	4.0 (6)	6.7	10.6	2.0	-1.8	-2.0
16	193	419	537	8.7 (15)	2.4 (9)	6.4 (18)	3.8 (10)	6.8	10.5	0.	1.0	0.7
5-DAYS MEAN				7.3	2.0	5.4	3.0			SUM.	SUM.	SUM.
17	192	415	532		4.6		4.2	6.8	10.7	( 2.0)	( 3.0)	( 3.8)
18	194	420	537	4.2 (16)	2.2 (23)	5.3 (0)	3.8 (21)	6.9	10.5			
19	195	420	540	6.7 (15)	1.4 (9)	5.0 (17)	3.0 (10)	6.9	10.4			
20	195	421	542	2.1 (0)	1.8 (8)	3.9 (0)	2.8 (21)	6.8	10.4	6.0	-9.2	-1.8
21	195	420	540	7.2 (15)	1.5 (7)	4.8 (17)	2.5 (8)	6.7	10.3	1.0	1.2	-7.2
22	195	426	541	( )	( )	( )	( )	6.5	10.2	0.	1.4	1.3
5-DAYS MEAN				( )	( )	( )	( )			SUM.	SUM.	SUM.
23	195	421	540	( )	( )	( )	( )	6.8	10.4	( )	( )	( )
24	195	428	542	( )	( )	( )	( )			0.	0.7	1.0
25	195	430	544	( )	( )	( )	( )			0.	1.5	-1.1
26	196	434	546	( )	( )	( )	( )			0.	0.9	6.1
27	196	435	548	( )	( )	( )	( )			0.	0.6	-0.8
28	197	437	547	( )	( )	( )	( )			0.	0.8	3.3
5-DAYS MEAN										SUM.	SUM.	SUM.
29	196	433	545	( )	( )	( )	( )	( 0.)	( 4.5)	( 10.4)		
30	197	438	550	( )	( )	( )	( )			0.	0.4	-0.2
31	197	436	550	( )	( )	( )	( )			1.0	0.2	1.9
5-DAYS MEAN				( )	( )	( )	( )			0.	0.7	1.9
1	199	440	550	( )	( )	( )	( )			0.	0.4	0.2
2	199	440	553	( )	( )	( )	( )			0.	0.4	-3.8
3	199	442	553	( )	( )	( )	( )			0.	0.6	1.3
4	198	443	553	( )	( )	( )	( )			0.	0.6	1.3
5-DAYS MEAN										SUM.	SUM.	SUM.
MONTHLY MEAN	194	421	534	( 1.0)	( 2.7)	( 5.3)	( )	( )	( )	( )	( )	( )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAWN SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M) NO.1 WELL	(10M) WELL NO.2	(22M) WELL NO.3	2CM		10CM						
	MAX. (TIME)	MIN. (TIME)	MAX. (TIME)	MIN. (TIME)	MAX. (TIME)	MIN. (TIME)						
1	200	445	555	( )	( )	( )	( )			0.	0.4	-1.3
2	200	450	558	( )	( )	( )	( )			0.	0.6	0.6
3	200	451	560	( )	( )	( )	( )			0.	0.9	2.5
4	200	454	561	( )	( )	( )	( )			0.	0.8	3.4
5	200	458	561	( )	( )	( )	( )			0.	0.7	3.8
5-DAYS MEAN										SUM.	SUM.	SUM.
6	200	452	559	( )	( )	( )	( )	( 0.)	( 3.9)	( 10.3)		
7	200	460	561	( )	( )	( )	( )			0.	0.5	2.8
8	199	464	560	( )	( )	( )	( )			0.	0.2	2.8
9	200	467	560	5.9 (15)	0. (9)	5.5 (18)	1.3 (10)	4.7	8.8	0.	0.6	5.4
10	200	468	563	5.4 (14)	0.7 (9)	3.9 (18)	1.9 (10)	4.7	8.7	4.0	-4.4	-5.2
11	200	467	562	7.2 (15)	3.1 (7)	5.3 (19)	3.4 (9)	4.9	8.6	2.0	-1.9	-2.2
5-DAYS MEAN										SUM.	SUM.	SUM.
12	200	465	561	( 8.0)	( 1.3)	( 10.4)	( )					
13	200	467	562	6.5 (16)	3.3 (23)	5.4 (17)	4.5 (9)	5.1	8.6	0.	0.	0.
14	205	472	565	4.0 (15)	2.5 (23)	3.9 (15)	3.5 (23)	5.5	8.6	1.0	-4.1	-4.5
15	200	472	569	8.3 (15)	2.1 (8)	5.6 (17)	2.9 (10)	5.6	8.5	3.0	1.6	0.8
16	200	472	568	5.3 (15)	2.0 (9)	4.4 (18)	3.1 (11)	5.6	8.5	0.	1.4	1.8
17	200	470	567	5.9 (15)	2.1 (9)	4.7 (17)	3.0 (10)	5.6	8.6	1.0	-0.2	-0.2
5-DAYS MEAN										SUM.	SUM.	SUM.
18	201	470	566	6.0	2.4	4.8	3.4					
19	200	471	570		4.2		4.1	5.5	8.6	( 5.0)	( 3.0)	( 2.6)
20	200	471	572	6.7 (15)	1.4 (10)	4.7 (17)	2.7 (11)	5.6	8.6	0.	1.3	-0.8
21	201	474	572	5.2 (14)	2.0 (9)	4.2 (17)	2.9 (11)	5.6	8.6	0.	0.8	1.1
22	200	474	572	6.7 (15)	1.6 (9)	4.6 (17)	2.6 (11)	5.6	8.5	0.	0.7	2.7
23	200	475	575	4.2 (15)	1.3 (9)	3.7 (18)	2.5 (11)	5.5	8.5	0.	0.5	0.
24	199	473	575	6.8 (14)	0.8 (9)	4.5 (18)	2.1 (11)	5.5	8.5	0.	0.8	3.1
5-DAYS MEAN				5.9	1.4	4.3	2.6			SUM.	SUM.	SUM.
25	200	473	573		3.7		3.5	5.6	8.5	( 0.)	( 3.9)	( 6.9)
26	200	477	572	7.2 (15)	1.2 (8)	4.9 (18)	2.5 (10)	5.4	8.5	0.	0.6	2.2
27	201	478	576	7.0 (15)	1.1 (9)	4.9 (18)	2.6 (10)	5.4	8.5	0.	0.7	2.2
28	200	477	578	5.1 (14)	0.9 (9)	3.9 (17)	2.3 (11)	5.4	8.4	0.	2.0	2.4
29	199	479	579	7.6 (15)	0. (9)	4.6 (18)	1.8 (11)	5.4	8.4	0.	2.8	2.8
30	199	478	580	6.1 (16)	0.9 (9)	4.2 (18)	2.3 (11)	5.3	8.4	0.	0.5	0.5
5-DAYS MEAN				6.6	0.8	4.5	2.3			SUM.	SUM.	SUM.
31	200	479	577		3.7		3.4	5.4	8.4	( 0.)	( )	( 10.1)
1	199	481	581	8.0 (15)	0.2 (8)	5.0 (18)	2.0 (11)	5.3	8.4	0.	0.	2.0
2	200	481	582	9.7 (15)	1.1 (9)	4.2 (18)	2.4 (10)	5.4	8.4	0.	0.	2.5
3	200	483	583	9.2 (15)	3.2 (6)	4.9 (23)	4.2 (8)	5.4	8.3	18.0	-18.1	-18.1
5-DAYS MEAN				9.0	1.5	4.7	2.9			SUM.	SUM.	SUM.
MONTHLY MEAN	200	482	582		5.2		4.5	5.4	8.4	( 18.0)	( )	( 4.9)

3. 1978

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (CM/DAY)
	(2.2M)			2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	202	478	582	7.6 (13)	2.9 (23)	6.5 (15)	4.8 (23)	5.8	8.3	0.	4.9	4.8
2	200	483	583	9.7 (16)	2.0 (9)	6.8 (18)	3.5 (11)	6.1	8.2	0.	1.5	2.0
3	199	482	583	8.9 (16)	2.5 (9)	6.7 (18)	3.9 (10)	6.1	8.2	0.	0.2	1.0
4	200	481	583	10.7 (15)	3.5 (7)	7.8 (18)	4.7 (9)	6.2	8.2	5.0	-5.5	-3.7
5	201	483	583	13.0 (15)	4.0 (7)	8.1 (18)	5.4 (9)	6.4	8.4	1.0	2.5	1.7
5-DAYS MEAN	200	481	583	10.0	3.0	7.2	4.5			SUM,	SUM,	SUM,
6	202	489	584	14.4 (15)	6.5 (7)	10.1 (17)	5.8 (8)	6.1	8.1	( 6.0)	( 10.0)	( 9.5)
7	201	488	583	13.8 (15)	5.6 (7)	10.1 (18)	7.5 (8)	6.7	8.4	0.	1.8	2.8
8	201	489	584	13.0 (14)	5.3 (7)	10.0 (17)	6.8 (9)	7.0	8.4	0.	1.1	2.4
9	202	490	587	11.5 (14)	6.1 (7)	9.3 (17)	7.2 (8)	7.3	8.5	0.	1.2	2.8
10	201	488	586	( )	( 0)	( )	( )	7.7	8.7	0.	1.2	2.3
5-DAYS MEAN	201	489	585							43.0	-45.2	-40.8
11	194	464	568	12.4 (15)	4.6 (7)	9.8 (17)	6.5 (8)	8.0	8.6	( 43.0)	( 5.3)	( 10.3)
12	187	462	564	10.6 (13)	3.4 (6)	8.6 (17)	5.3 (10)	8.0	8.7	0.	4.0	3.5
13	188	458	562	12.2 (14)	2.9 (7)	8.9 (17)	5.0 (9)	7.9	8.6	0.	1.4	1.2
14	187	454	560	10.8 (14)	3.0 (8)	7.9 (17)	5.0 (9)	7.8	8.9	0.	1.7	1.6
15	187	451	557	11.5 (14)	2.8 (7)	8.4 (18)	4.7 (9)	7.8	8.9	0.	1.4	3.7
5-DAYS MEAN	189	458	562	11.5	3.3	8.7	5.3	7.7	9.0	0.	1.2	3.3
16	187	448	556	12.0 (13)	7.4 (7)	9.1 (17)	7.0 (8)	7.9	8.8	( 0. )	( 9.7)	( 13.3)
17	0	0	0	13.6 (15)	3.5 (7)	9.8 (17)	5.5 (9)	7.6	9.0	0.	0.7	2.2
18	187	440	555	12.8 (15)	5.0 (6)	9.7 (18)	6.4 (9)	7.7	9.1	0.	1.0	3.9
19	188	438	553	11.7 (14)	5.4 (23)	9.5 (18)	7.4 (10)	7.8	9.1	0.	0.5	2.1
20	187	435	551	13.9 (14)	3.2 (6)	10.1 (17)	5.5 (8)	8.0	9.1	17.0	-16.5	-15.4
5-DAYS MEAN	180	435	551	12.8	4.4	9.6	6.2	8.1	9.1	0.	2.7	3.6
21	185	433	551	8.3 (15)	3.9 (6)	7.6 (17)	5.9 (8)	7.8	9.1	( 17.0)	( 4.9)	( 11.8)
22	170	427	544	( )	( )	( )	( )	8.1	9.2	10.0	-8.8	-8.2
23	178	425	542	( )	( )	( )	( )	7.9	9.0	11.0	-11.5	-11.5
24	0	0	0	( )	( )	( )	( )					
25	0	0	0	( )	( )	( )	( )					
5-DAYS MEAN	108	425	542							SUM,	SUM,	SUM,
26				( )	( )	( )	( )			( )	( )	( )
27				( )	( )	( )	( )			( )	( )	( )
28				( )	( )	( )	( )			( )	( )	( )
29				( )	( )	( )	( )			( )	( )	( )
30				( )	( )	( )	( )			( )	( )	( )
31				( )	( )	( )	( )			( )	( )	( )
5-DAYS MEAN										SUM,	SUM,	SUM,
MONTHLY MEAN										( )	( )	( )

4. 1978

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (CM/DAY)
	(2.2M)			2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	172	402	519	( )	( )	( )	( )					
2	173	399	520	( )	( )	( )	( )					
3	163	392	514	( )	( )	( )	( )					
4	161	378	506	( )	( )	( )	( )					
5	159	373	501	( )	( )	( )	( )			0.		2.2
5-DAYS MEAN	166	389	512							SUM,	SUM,	SUM,
6	158	365	492	( )	( )	( )	( )			( )	( )	( )
7	144	366	474	( )	( )	( )	( )			57.0		-50.8
8	141	335	460	( )	( )	( )	( )			0.		7.9
9	140	325	450	( )	( )	( )	( )			0.		4.8
10	142	320	448	( )	( )	( )	( )			0.		5.2
5-DAYS MEAN	145	338	465							SUM,	SUM,	SUM,
11	143	319	449	( )	( )	( )	( )			( 57.0)	( )	( 22.0)
12	142	311	444	( )	( )	( )	( )			0.		2.9
13	139	309	441	( )	( )	( )	( )			19.0		-14.1
14	138	305	438	( )	( )	( )	( )			5.0		-5.6
15				( )	( )	( )	( )			0.		2.4
5-DAYS MEAN	112	269	354							0.		2.4
16	140	305	437	( )	( )	( )	( )			SUM,	SUM,	SUM,
17	142	306	438	( )	( )	( )	( )			( 24.0)	( )	( 7.7)
18	143	307	441	( )	( )	( )	( )			0.		4.5
19	134	299	434	( )	( )	( )	( )			0.		2.5
20	135	298	433	( )	( )	( )	( )			21.0		-17.5
5-DAYS MEAN	139	303	437							2.0		5.5
21	137	299	430	( )	( )	( )	( )			0.		1.7
22	139	299	432	( )	( )	( )	( )			SUM,	SUM,	SUM,
23	141	300	435	( )	( )	( )	( )			( 23.0)	( )	( 11.3)
24	142	298	432	( )	( )	( )	( )			0.		2.3
25	143	300	435	( )	( )	( )	( )			0.		3.9
5-DAYS MEAN	140	299	433							0.		4.1
26				25.3 (14)	5.6 (5)	18.5 (17)	9.6 (7)	13.4	11.8	0.		1.1
27				22.7 (14)	9.1 (5)	17.7 (16)	11.9 (7)	13.3	11.9	0.		1.8
28				25.9 (13)	7.7 (5)	19.3 (16)	11.8 (7)	13.3	11.9	0.		5.1
29	162	313	455	18.0 (14)	13.4 (6)	15.8 (16)	14.0 (8)	13.4	12.0	0.		1.5
30	163	314	454	21.0 (15)	13.1 (5)	17.1 (17)	14.0 (6)	13.5	12.0	2.0		-2.9
5-DAYS MEAN				22.6	9.8	17.7	12.1			SUM,	SUM,	SUM,
MONTHLY MEAN					16.2		15.0	13.4	11.9	( 2.0)	( )	( 15.8)

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAMB SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)	(10M)	(22M)	2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	161	315	457	22.4 (16)	16.7 (5)	19.3 (17)	16.2 (6)	13.6	12.1	2.0		-2.2
2	163	314	460	28.2 (14)	12.8 (23)	21.0 (15)	16.7 (23)	14.0	12.1	0.	2.5	2.9
3	163	310	497	25.3 (12)	9.1 (5)	19.8 (15)	12.9 (7)	14.4	12.2	0.	2.4	4.8
4	164	333	495	28.2 (13)	13.3 (5)	21.4 (15)	14.8 (7)	14.5	12.3	0.	2.1	4.5
5	165	336	503	27.7 (13)	12.6 (5)	21.7 (16)	15.0 (7)	14.7	12.5	0.	2.0	4.4
5-DAYS				26.4	12.9	20.6	15.1			SUM.	SUM.	SUM.
MEAN	164	326	482		19.6		17.0	14.2	12.2 (2.0)	( )	( )	( 16.6)
6	167	340	507	19.2 (13)	12.1 (23)	17.1 (16)	14.7 (23)	15.1	12.6	0.	1.8	4.1
7	168	344	524	16.7 (14)	10.8 (6)	15.2 (18)	12.7 (10)	15.0	12.7	8.0	-9.0	-5.5
8	169	347	521	24.9 (11)	12.2 (4)	19.1 (15)	13.3 (6)	14.7	12.8	0.	2.8	1.5
9	170	363	566	20.2 (12)	15.3 (5)	18.3 (16)	15.7 (6)	14.8	12.9	4.0		-4.2
10	171	381	516	21.9 (14)	13.5 (5)	19.2 (16)	17.1 (7)	14.8	13.0	2.0		-3.5
5-DAYS				20.5	13.5	17.8	14.7			SUM.	SUM.	SUM.
MEAN	169	355	527		17.0		16.2	14.8	12.8 (14.0)	( )	( )	( 5.6)
11	171	390	534	17.1 (13)	13.3 (23)	16.5 (14)	13.1 (23)	15.1	13.1	15.0	-16.3	-15.5
12	168	375	512	29.7 (14)	12.7 (6)	22.7 (16)	14.0 (6)	15.2	13.2	0.	4.5	4.1
13	167	389	516	27.2 (13)	13.0 (5)	21.7 (16)	15.5 (7)	15.3	13.4	0.	3.6	5.8
14	168	381	499	26.3 (13)	13.7 (5)	21.3 (16)	15.7 (7)	15.6	13.5	0.	3.9	4.9
15	167	383	510	27.9 (14)	12.7 (5)	22.2 (16)	15.3 (6)	15.8	13.6	0.	3.5	5.1
5-DAYS				25.6	13.1	20.9	14.7			SUM.	SUM.	SUM.
MEAN	168	384	514		19.4		17.8	15.4	13.4 (15.0)	( 15.1)	( )	( 19.9)
16	162	387	512	31.4 (13)	11.6 (5)	23.5 (16)	14.9 (7)	16.0	13.7	0.	3.3	4.9
17	163	392	533	31.0 (13)	14.8 (5)	24.0 (16)	16.9 (7)	16.1	13.7	0.	2.9	5.2
18	164	400	544	23.8 (13)	17.9 (5)	21.1 (16)	18.7 (7)	16.5	13.9	13.0	-12.7	-11.2
19	169	359	492	23.0 (13)	17.8 (23)	21.0 (17)	18.9 (7)	17.0	14.3	55.0		
20	163	338	453	24.1 (14)	16.2 (4)	20.7 (16)	17.8 (6)	17.6	15.3	0.		
5-DAYS				26.7	15.7	22.1	17.4			SUM.	SUM.	SUM.
MEAN	166	375	508		21.2		19.8	16.6	14.2 (8.0)	( )	( )	( )
21	163	337	451	31.4 (13)	15.1 (5)	24.5 (16)	16.8 (7)	17.5	15.3	5.0		0.2
22	164	347	467	27.9 (13)	15.9 (23)	22.5 (16)	18.1 (6)	17.5	15.2	0.		4.8
23	165	350	448	31.7 (13)	12.8 (5)	24.8 (16)	16.0 (6)	17.7	15.1	0.		5.8
24	167	355	477	28.7 (13)	16.1 (5)	23.4 (17)	18.1 (7)	17.7	15.1	0.		4.9
25	168	353	468	30.9 (13)	16.1 (4)	23.9 (16)	18.1 (6)	17.9	15.2	0.	3.8	5.3
5-DAYS				30.1	15.2	23.8	17.4			SUM.	SUM.	SUM.
MEAN	165	348	466		22.7		20.6	17.7	15.2 (5.0)	( )	( )	( 20.8)
26	150	344	483	34.5 (13)	15.4 (5)	25.8 (16)	17.7 (6)	18.0	15.2	0.	3.7	5.0
27	152	368	503	32.1 (14)	15.6 (5)	25.5 (16)	18.3 (6)	18.1	15.1	0.	3.0	5.5
28	154	367	493	31.9 (14)	17.1 (5)	25.5 (16)	19.3 (6)	18.3	15.2	0.	2.9	7.0
29	155	375	507	28.9 (12)	17.8 (23)	19.1 (16)	20.4 (23)	18.6	15.4	0.	2.8	5.9
30	157	370	495	18.8 (13)	14.9 (6)	18.5 (15)	17.3 (20)	18.8	15.5	8.0	-8.7	-7.9
31	158	365	487	26.5 (13)	11.8 (4)	21.4 (16)	15.1 (7)	18.5	15.6	2.0	4.6	8.2
5-DAYS				28.8	15.4	22.6	18.0			SUM.	SUM.	SUM.
MEAN	154	368	495		22.1		20.3	18.4	15.3 (10.0)	( 17.0)	( )	( 31.8)
MONTHLY												
MEAN	159	359	499		20.3		18.8	16.2	13.8 (114.0)	( )	( )	( )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAMB SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)	(10M)	(22M)	2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	160	377	512	31.0 (14)	11.4 (5)	24.2 (17)	15.0 (6)	15.1	15.7	0.	3.0	7.9
2	161	383	524	32.3 (13)	12.7 (5)	25.0 (16)	16.5 (7)	18.0	15.8	0.	3.0	7.7
3	162	387	520	31.2 (15)	14.9 (5)	24.9 (17)	17.8 (7)	18.2	15.8	0.	2.3	4.8
4	163	391	527	20.0 (15)	17.9 (23)	21.3 (10)	19.1 (23)	18.5	15.9	30.0	-31.8	-29.8
5	161	365	486	31.0 (13)	14.7 (5)	24.9 (15)	17.1 (6)	18.6	16.1	0.	5.0	5.3
5-DAYS				29.1	14.3	24.1	17.1			SUM.	SUM.	SUM.
MEAN	161	381	514		21.7		20.6	18.5	15.9 (30.0)	( 13.3)	( )	( 25.6)
6	162	371	503	32.7 (14)	16.4 (5)	25.7 (15)	18.7 (7)	18.8	16.2	0.	4.9	5.5
7	163	387	535	31.7 (12)	18.1 (5)	25.4 (16)	19.6 (7)	18.9	16.2	0.		
8	164	393	544	34.4 (13)	16.2 (5)	27.0 (17)	19.0 (6)	19.1	16.2	0.		
9	166	401	503	35.0 (13)	19.5 (5)	27.9 (16)	20.9 (6)	19.4	16.3	0.	3.7	5.9
10	167	407	546	33.1 (13)	19.8 (5)	26.8 (15)	21.5 (6)	19.7	16.3	0.	3.1	5.2
5-DAYS				33.4	18.0	26.6	19.9			SUM.	SUM.	SUM.
MEAN	164	392	526		25.7		23.3	19.2	16.2 ( )	( )	( )	( )
11	168	409	553	30.0 (13)	18.9 (5)	25.7 (16)	21.1 (6)	20.0	16.4	0.	2.6	5.1
12	170	413	552	31.0 (13)	20.9 (5)	24.2 (16)	21.8 (7)	20.1	16.5	0.	2.6	5.1
13	172	430	538	31.5 (13)	22.1 (5)	24.3 (17)	22.6 (7)	20.3	16.7	1.0	0.8	1.9
14	173	427	531	34.8 (15)	21.1 (4)	23.0 (17)	22.2 (6)	20.5	16.8	0.	2.1	5.2
15	175	431	538	34.8 (13)	20.7 (3)	20.5 (17)	22.1 (7)	20.7	16.9	0.	2.8	6.0
5-DAYS				32.8	20.7	24.1	22.0			SUM.	SUM.	SUM.
MEAN	172	422	542		26.8		25.1	20.3	16.7 ( 1.0)	( 10.9)	( )	( 23.3)
16	177	433	547	31.8 (11)	24.3 (5)	27.3 (15)	24.6 (7)	21.0	17.0	0.	1.1	3.2
17	178	432	551	37.7 (14)	23.8 (4)	30.8 (16)	24.2 (6)	21.4	17.2	0.	2.9	
18	180	432	564	37.0 (15)	23.5 (5)	30.8 (16)	24.8 (6)	21.7	17.3	0.	2.8	
19	182	431	580	37.6 (13)	24.4 (4)	30.8 (16)	25.3 (7)	22.1	17.4	0.	2.7	
20	183	433	597	38.6 (14)	24.1 (5)	31.6 (15)	25.5 (6)	22.5	17.6	0.	2.6	6.0
5-DAYS				36.5	24.0	30.3	24.9			SUM.	SUM.	SUM.
MEAN	180	437	568		30.3		27.6	21.7	17.3 ( 0. )	( 12.1)	( )	( )
21	185	430	602	35.7 (14)	25.6 (5)	30.4 (17)	26.2 (7)	22.9	17.8	0.	2.6	6.9
22	185	435	617	34.2 (13)	25.1 (23)	29.5 (16)	26.1 (7)	23.2	18.0	0.	1.2	3.9
23	187	425	613	24.3 (10)	21.5 (23)	24.7 (10)	22.9 (23)	23.3	18.2	22.0	-23.5	-22.7
24	187	405	583	26.4 (14)	20.9 (5)	24.6 (16)	22.0 (7)	23.0	18.4	8.0	-8.9	-8.5
25	187	422	550	( )	( )	( )	( )	22.5	18.6	4.0	-1.7	-1.3
5-DAYS				( )	( )	( )	( )			SUM.	SUM.	SUM.
MEAN	184	423	593		( )	( )	( )	23.0	18.2 ( 34.0)	( 3.8)	( )	( 10.8)
26	188	473	547	( )	( )	( )	( )		2.0	-1.6	-2.0	
27	187	420	573	( )	( )	( )	( )		6.0	-4.4	-3.8	
28	187	407	573	24.9 (16)	20.7 (10)	23.4 (17)	21.8 (10)	22.3	18.8	6.0	-4.6	-4.1
29				33.4 (13)	20.9 (5)	27.8 (16)	21.7 (6)	22.0	18.9	0.	4.2	4.2
30	188	421	558	34.5 (13)	21.8 (5)	28.8 (16)	23.1 (7)	22.0	18.9	0.	4.1	4.9
5-DAYS										SUM.	SUM.	SUM.
MEAN									( 14.0)	( 8.5)	( )	( 9.1)
MONTHLY												
MEAN												

7, 1978

MONTHLY HYDROLOGICAL DATA														
DATE	GROUNDWATER LEVEL (CM)			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSTIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)		
	RELOW LAND SURFACE			2CM		10CM								
	(2.2M) NO.1 WELL	(10M) NO.2 WELL	(27M) NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)							
1	186	423	565	24.7 (14)	22.9 (5)	25.6 (0)	23.8 (23)	22.2	18.9	15.0	-15.4	-15.2		
2	185	409	557	31.1 (14)	22.7 (5)	27.2 (17)	23.2 (7)	22.3	19.0	0.	3.4	2.7		
3	184	405	573	32.1 (15)	23.6 (5)	28.0 (18)	24.2 (7)	22.3	19.1	0.	3.8	3.2		
4	183	413	594	33.5 (14)	25.2 (5)	29.1 (17)	25.3 (7)	22.5	19.1	0.	4.1	4.3		
5	185	412	612	33.4 (14)	26.4 (5)	29.3 (17)	26.5 (8)	22.9	19.2	0.	4.5	6.3		
5-DAYS MEAN	185	412	581	31.0	24.2	27.8	24.6			SUM.	SUM.	SUM.		
6	185	428	609	33.8 (14)	25.5 (5)	29.3 (16)	26.0 (7)	23.2	19.2	0.	5.0	5.9		
7	184	432	608	( )	( )	( )	( )	23.5	19.4	0.	5.3	5.1		
8	184	428	614	( )	( )	( )	( )			23.0	-27.4	-16.3		
9	189	414	595	29.2 (14)	24.6 (5)	27.2 (18)	25.1 (7)	23.9	19.6	0.	3.4	3.8		
10	189	420	602	30.1 (15)	25.0 (4)	27.8 (17)	25.5 (6)	23.8	19.7	1.0	2.9	3.2		
5-DAYS MEAN	188	424	606							SUM.	SUM.	SUM.		
11	190	418	621	28.9 (15)	25.8 (5)	27.3 (18)	26.0 (7)	23.9	19.9	1.0	3.3	2.0		
12	190	437	573	29.8 (16)	25.6 (5)	27.9 (17)	25.8 (7)	23.9	19.9	0.	4.9	4.9		
13	191	432	574	29.1 (14)	24.7 (5)	26.3 (16)	25.5 (7)	23.9	20.0	0.	4.5	4.4		
14	192	437	602	28.7 (14)	23.4 (5)	26.7 (17)	24.7 (7)	24.0	20.1	0.	3.6	3.8		
15	192	430	589	28.8 (14)	23.7 (5)	26.8 (17)	24.6 (7)	23.9	20.2	0.	4.5	4.2		
5-DAYS MEAN	191	431	592	29.0	24.6	27.0	25.3			SUM.	SUM.	SUM.		
16	193	424	607	29.0 (14)	23.2 (5)	26.9 (17)	24.3 (7)	23.9	20.0	1.0	21.6	21.5		
17	195	438	594	29.0 (14)	24.0 (5)	26.9 (17)	24.7 (7)	23.9	20.3	0.	5.5	5.8		
18	195	440	518	28.9 (14)	22.9 (5)	26.7 (17)	24.3 (7)	23.9	20.4	0.	4.9	6.2		
19	197	443	638	28.9 (14)	23.6 (5)	26.8 (16)	24.5 (7)	23.9	20.4	0.	5.0	5.0		
20	197	446	658	29.9 (16)	23.9 (5)	27.5 (17)	24.4 (7)	23.9	20.5	0.	4.4	3.7		
5-DAYS MEAN	195	438	623	29.3	23.5	27.0	24.5			SUM.	SUM.	SUM.		
21	200	458	642	( )	( )	27.3 (17)	24.6 (7)	23.9	20.4	0.	25.1	26.2		
22	204	460	640	34.7 (15)	25.3 (5)	30.2 (17)	25.5 (6)	24.0	20.7	1.0	-1.3	-2.2		
23	210	454	661	34.2 (13)	25.0 (5)	32.2 (16)	26.0 (7)	24.2	20.7	0.	1.8	3.5		
24	209	461	662	34.9 (14)	22.1 (5)	32.8 (16)	27.6 (7)	24.6	20.7	1.0	4.0	1.7		
25	205	465	672	37.9 (13)	26.7 (5)	32.5 (16)	27.7 (7)	25.1	20.8	0.	5.5	6.7		
5-DAYS MEAN	206	460	655			31.0	26.3			SUM.	SUM.	SUM.		
26	207	465	672	38.0 (14)	26.5 (5)	32.2 (16)	27.7 (7)	25.4	20.9	0.	4.2	5.9		
27	209	470	676	38.5 (14)	25.5 (5)	32.4 (16)	26.9 (7)	25.7	21.1	0.	4.7	5.7		
28	208	475	695	39.5 (14)	26.1 (5)	32.9 (16)	27.3 (7)	25.8	21.2	0.	4.8	3.2		
29	210	468	693	38.9 (14)	26.3 (5)	32.6 (16)	27.6 (7)	25.9	21.2	0.	4.6	5.9		
30	212	476	666	39.0 (13)	26.0 (5)	32.7 (16)	27.4 (7)	26.0	21.3	0.	4.9	6.3		
31				39.5 (14)	25.1 (5)	32.5 (16)	27.1 (7)	26.2	21.5	0.	4.7	5.8		
5-DAYS MEAN				38.9	25.9	32.6	27.3			SUM.	SUM.	SUM.		
MONTHLY MEAN					32.4		29.9	25.8	21.2	0.	28.2	32.8		
										( 44.0)	( 124.0)	( 130.8)		

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MONTHLY HYDROLOGICAL DATA														
DATE	GROUNDWATER LEVEL (CM)			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSTIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)		
	RELOW LAND SURFACE			2CM		10CM								
	(2.2M) NO.1 WELL	(10M) NO.2 WELL	(22M) NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)							
1	213	482	679	34.7 (14)	27.1 (6)	31.1 (15)	26.0 (7)	26.2	21.7	6.0	-3.1	-4.0		
2	216	472	652	37.9 (14)	26.4 (5)	32.3 (16)	27.7 (7)	26.3	21.7	0.	4.9	2.4		
3	218	480	687	33.9 (14)	27.7 (5)	30.7 (16)	28.2 (7)	26.4	21.9	0.	3.9	5.8		
4	214	484	690	35.0 (14)	27.0 (5)	31.0 (16)	27.8 (7)	26.5	22.0	0.	3.9	5.0		
5	214	493	700	38.0 (14)	26.0 (5)	32.1 (16)	27.2 (7)	26.5	22.1	0.	5.0	6.2		
5-DAYS MEAN	217	483	681	35.9	26.8	31.4	27.4			SUM.	SUM.	SUM.		
6	218	504	718	37.6 (14)	25.2 (5)	31.9 (16)	27.0 (7)	26.4	21.9	0.	4.4	5.8		
7	220	511	727	36.9 (14)	27.1 (5)	31.8 (16)	27.9 (7)	26.6	22.1	0.	3.8	5.0		
8	220	513	728	33.9 (14)	26.1 (5)	30.4 (16)	27.6 (7)	26.7	22.2	0.	3.3	4.8		
9	220	512	727	33.9 (12)	26.7 (5)	30.3 (15)	27.8 (7)	26.7	22.3	0.	2.5	3.9		
10	220	512	723	33.1 (15)	26.1 (6)	30.0 (17)	27.0 (7)	26.7	22.5	0.	2.4	3.3		
5-DAYS MEAN	220	511	724	35.1	26.2	30.9	27.5			SUM.	SUM.	SUM.		
11	220	512	724	30.7		29.2		26.6	22.2	0.	16.6	22.8		
12	220	512	730	35.5 (14)	25.7 (5)	31.0 (16)	26.9 (7)	26.6	22.6	0.	3.9	6.2		
13	220	517	738	37.0 (14)	26.1 (5)	31.7 (16)	27.2 (7)	26.5	22.7	0.	4.2	6.2		
14	220	520	748	35.6 (14)	26.3 (5)	31.0 (16)	27.5 (7)	26.7	22.8	0.	3.4	6.4		
15	220	521	742	37.1 (15)	26.2 (5)	31.3 (16)	27.5 (7)	26.8	22.9	0.	3.7	6.7		
16	220	514	730	34.4 (13)	25.7 (6)	30.5 (16)	27.1 (7)	26.8	22.9	0.	3.3	5.2		
5-DAYS MEAN	220	514	738	35.9	26.0	31.1	27.2			SUM.	SUM.	SUM.		
17	220	520	740	35.0 (14)	27.0 (6)	30.9 (17)	27.8 (8)	26.7	22.8	0.	18.7	26.4		
18	220	523	742	30.5 (15)	26.0 (5)	28.9 (16)	27.3 (7)	26.8	23.0	5.0	3.3	4.8		
19	220	518	718	28.9 (11)	25.0 (23)	27.9 (14)	26.4 (23)	26.8	23.0	0.	2.9	4.1		
20	219	517	703	33.9 (13)	24.8 (5)	29.0 (16)	25.8 (8)	26.5	23.1	0.	3.4	3.9		
21	219	518	727	34.8 (14)	25.1 (5)	29.9 (16)	26.1 (6)	26.2	23.1	0.	3.7	6.7		
5-DAYS MEAN	220	518	726	32.6	25.6	29.3	26.7			SUM.	SUM.	SUM.		
22	220	522	739		29.1	28.0		26.4	23.0	0.	15.3	19.5		
23	220	525	737	35.8 (14)	26.1 (5)	30.8 (16)	26.9 (7)	26.2	23.1	0.	4.3	6.4		
24	220	524	742	35.8 (14)	24.2 (6)	30.2 (16)	26.0 (8)	26.3	23.1	0.	4.6	6.7		
25	220	521	732	32.1 (13)	24.2 (5)	28.9 (16)	26.1 (7)	26.4	23.2	0.	4.4	6.7		
26	220	521	730	33.1 (14)	23.0 (6)	28.7 (16)	25.1 (8)	26.4	23.2	0.	3.2	5.4		
5-DAYS MEAN	220	523	736	34.6	24.5	29.9	26.2			SUM.	SUM.	SUM.		
27	220	524	743		29.6	28.0		26.3	23.1	0.	18.5	26.4		
28	220	524	743	33.0 (13)	27.8 (5)	29.2 (16)	24.8 (7)	26.2	23.2	0.	3.3	4.8		
29	220	530	750	33.4 (13)	23.0 (5)	28.8 (16)	24.9 (7)	26.0	23.2	0.	3.3	4.8		
30	220	530	740	33.1 (13)	23.3 (6)	28.8 (16)	25.0 (8)	26.0	23.2	0.	3.3	4.8		
31	220	530	734	32.9 (13)	23.4 (5)	29.7 (16)	25.0 (7)	25.9	23.2	0.	3.3	4.8		
5-DAYS MEAN	220	530	732	33.9	24.7	28.8	25.6			SUM.	SUM.	SUM.		
MONTHLY MEAN	220	528	732	33.0	25.0	28.8	25.7	25.9	23.2	0.	1.4	3.4		
					33.7	28.7	24.8			SUM.	SUM.	SUM.		
								26.0	23.2	0.	1.4	3.4		
										( 0. )	( 0. )	( 0. )		
										( 44.0)	( 124.0)	( 130.8)		

9. 1978

MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSTHETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)	(10M)	(22M)	2CM		10CM						
	NO. 1 WELL	NO. 2 WELL	NO. 3 WELL	MAX. (TIME)	MIN. (TIME)	MAX. (TIME)	MIN. (TIME)					
1	220	529	729	25.9 (0)	22.8 (23)	24.8 (0)	24.6 (23)	25.8	23.2	0.	1.6	1.9
2	221	530	728	30.0 (14)	21.0 (5)	24.3 (16)	23.2 (7)	25.7	23.2	0.	1.0	5.1
3	221	530	721	27.8 (13)	22.2 (6)	25.5 (15)	23.7 (8)	25.2	23.2	11.0	-10.1	-9.8
4	221	515	672	26.1 (15)	22.8 (23)	25.0 (16)	25.7 (8)	25.0	23.2	40.0	-10.7	-14.5
5	220	503	650	22.8 (13)	21.5 (23)	21.8 (0)	22.3 (23)	24.8	23.2	8.0	-6.6	-
5-DAYS				26.5	22.1	25.4	23.5			SUM.	SUM.	SUM.
MEAN	221	521	700		24.3		24.5	25.3	23.2	(59.0)	(4.6)	( )
6	221	493	677	27.5 (14)	20.5 (6)	24.2 (16)	21.8 (8)	24.5	23.2	0.	1.0	-
7	220	490	628	24.1 (12)	20.8 (5)	23.1 (16)	21.9 (8)	24.2	23.1	0.	1.2	1.2
8	221	482	610	25.5 (13)	20.3 (6)	23.6 (16)	21.5 (8)	23.9	23.0	0.	1.1	1.8
9	221	481	620	27.8 (14)	18.9 (6)	24.2 (16)	20.9 (8)	23.7	22.9	0.	1.2	1.2
10	221	479	610	29.5 (13)	22.1 (5)	25.9 (16)	22.8 (7)	23.5	22.8	0.	1.0	1.8
5-DAYS				26.9	20.5	24.2	21.8			SUM.	SUM.	SUM.
MEAN	221	485	619		23.7		23.0	24.0	23.0	(9.)	(15.5)	( )
11	221	442	632	24.0 (0)	22.0 (23)	24.5 (0)	22.8 (23)	23.6	22.8	1.0	-2.5	-1.7
12	221	482	621	21.8 (0)	20.1 (23)	22.8 (0)	21.5 (23)	23.7	22.7	9.0	-2.4	-9.5
13	221	480	612	21.3 (15)	19.6 (6)	21.4 (17)	20.8 (9)	23.4	22.7	10.0	-8.4	-
14	221	479	608	22.1 (15)	20.0 (6)	21.9 (17)	20.9 (7)	23.0	22.5	0.	1.3	0.4
15	221	478	602	24.0 (13)	20.6 (6)	22.7 (15)	21.7 (7)	22.7	22.3	2.0	-1.0	0.
5-DAYS				22.6	20.5	22.6	21.4			SUM.	SUM.	SUM.
MEAN	221	480	615		21.6		22.0	23.3	22.6	(24.0)	(1.3)	( )
16	221	472	599	22.9 (12)	21.2 (5)	22.2 (14)	21.6 (6)	22.7	22.2	11.0	-11.5	-11.8
17	221	470	592	26.5 (13)	21.2 (23)	23.9 (15)	21.9 (6)	22.5	22.1	0.	1.9	4.0
18	222	472	593	24.7 (14)	18.5 (6)	22.9 (16)	20.7 (8)	22.6	22.0	0.	1.8	1.8
19	221	471	592	24.9 (14)	20.4 (5)	23.2 (17)	21.3 (8)	22.5	22.0	0.	2.0	1.2
20	221	470	591	26.0 (13)	21.1 (5)	23.9 (17)	21.9 (7)	22.5	22.0	0.	2.2	2.0
5-DAYS				25.0	20.5	23.2	21.5			SUM.	SUM.	SUM.
MEAN	221	471	593		22.7		22.3	22.6	22.1	(11.0)	(12.9)	(11.9)
21	221	470	590	23.7 (14)	21.7 (23)	23.0 (0)	22.2 (23)	22.4	21.9	4.0	-1.1	-1.0
22	221	470	590	24.2 (13)	20.6 (23)	22.7 (15)	21.8 (23)	22.5	21.8	0.	1.7	1.7
23	221	470	590	21.7 (13)	19.9 (5)	21.6 (17)	21.0 (8)	22.4	21.8	2.0	-0.8	-0.7
24	221	471	590	22.7 (14)	19.6 (23)	21.9 (17)	20.8 (9)	22.3	21.7	4.0	-2.8	-4.0
25	220	472	591	23.2 (14)	18.9 (6)	22.0 (17)	20.0 (7)	22.1	21.8	0.	2.9	1.1
5-DAYS				23.0	20.1	22.2	21.2			SUM.	SUM.	SUM.
MEAN	221	471	590		21.6		21.7	22.3	21.8	(10.0)	(6.0)	(3.0)
26	220	471	592	23.4 (15)	19.7 (23)	22.4 (17)	20.9 (8)	22.0	21.8	0.	1.8	1.7
27	220	475	593	21.9 (14)	18.1 (5)	21.1 (17)	19.8 (8)	21.9	22.6	0.	2.0	1.4
28	220	478	595	20.1 (14)	18.0 (6)	20.1 (16)	19.3 (8)	21.8	21.5	1.0	-1.4	-0.9
29	220	478	594	18.7 (14)	18.2 (6)	19.7 (0)	19.1 (23)	21.5	21.5	3.0	-2.0	-2.5
30	220	477	592	( )	( )	( )	( )	21.0	21.0	10.0	-0.8	-9.0
5-DAYS										SUM.	SUM.	SUM.
MEAN	220	476	593					21.6	21.7	(14.0)	(3.8)	(1.1)
MONTHLY												
MEAN	221	484	618					23.2	22.4	(118.0)	(44.1)	( )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSTHETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)	(10M)	(22M)	2CM		10CM						
	NO. 1 WELL	NO. 2 WELL	NO. 3 WELL	MAX. (TIME)	MIN. (TIME)	MAX. (TIME)	MIN. (TIME)					
1	221	479	593	21.9 (14)	17.2 (6)	20.5 (17)	18.6 (8)	20.9	21.0	0.	2.7	1.3
2	221	480	594	21.9 (13)	16.8 (6)	20.4 (16)	18.4 (8)	20.7	20.9	0.	3.0	2.1
3	222	482	598	21.0 (14)	14.7 (6)	19.7 (17)	17.1 (8)	20.6	20.8	0.	2.6	2.6
4	222	481	597	21.1 (14)	15.7 (6)	19.8 (17)	17.4 (8)	20.3	20.6	0.	2.4	2.4
5	221	482	598	18.7 (0)	16.1 (23)	19.3 (0)	17.6 (23)	20.2	20.6	17.0	-17.8	-15.7
5-DAYS				20.9	14.1	19.9	17.8			SUM.	SUM.	SUM.
MEAN	221	481	596		18.5		18.9	20.5	20.8	(17.0)	(10.7)	(8.4)
6	220	471	593	17.1 (14)	14.7 (23)	17.5 (0)	16.6 (23)	20.0	20.5	19.0	-18.0	-
7	218	480	584	20.5 (14)	13.8 (5)	18.2 (16)	15.7 (7)	19.6	20.4	0.	2.1	-
8	218	480	588	20.8 (14)	13.2 (6)	18.4 (16)	15.2 (8)	19.3	20.3	0.	2.1	2.2
9	219	479	584	20.1 (14)	12.4 (6)	18.0 (16)	14.8 (8)	19.0	20.2	0.	1.6	1.8
10	185	467	580	21.9 (15)	16.1 (6)	19.6 (17)	16.9 (8)	18.8	20.0	22.0	-21.7	-20.3
5-DAYS				20.1	14.0	18.3	15.8			SUM.	SUM.	SUM.
MEAN	212	475	587		17.1		17.1	19.3	20.3	(41.0)	(5.8)	( )
11	202	470	575	22.2 (13)	16.1 (1)	19.7 (15)	17.1 (7)	18.7	19.9	0.	1.6	1.5
12	203	449	571	22.7 (15)	16.8 (23)	20.2 (16)	17.8 (8)	18.8	19.8	0.	1.7	2.0
13	203	463	572	18.9 (14)	14.2 (23)	18.3 (15)	16.8 (23)	18.9	19.7	0.	1.4	1.8
14	202	445	572	20.8 (14)	10.1 (6)	17.8 (16)	13.8 (8)	18.9	19.6	0.	1.8	2.0
15	202	461	570	15.8 (14)	10.9 (5)	15.7 (17)	13.7 (8)	18.5	19.5	2.0	-1.5	-1.2
5-DAYS				20.1	13.4	18.3	15.8			SUM.	SUM.	SUM.
MEAN	202	466	572		16.8		17.1	18.8	19.7	(2.0)	(6.3)	(7.3)
16	201	480	570	22.7 (13)	13.5 (23)	18.7 (16)	15.1 (5)	18.1	19.3	2.0	-0.4	-1.1
17	202	462	572	21.3 (14)	10.3 (6)	17.7 (16)	13.3 (8)	18.0	19.2	0.	2.0	2.2
18	207	443	573	20.0 (13)	9.8 (6)	17.0 (16)	12.7 (8)	17.8	19.1	0.	1.6	2.1
19	207	441	572	17.2 (15)	14.8 (8)	16.6 (17)	15.4 (10)	17.5	19.0	18.0	-18.1	-17.0
20	173	441	568	19.8 (15)	16.2 (6)	18.1 (17)	16.4 (8)	17.3	18.9	19.0	-	-
5-DAYS				20.2	12.9	17.6	14.6			SUM.	SUM.	SUM.
MEAN	195	457	571		16.6		16.1	17.7	19.1	(19.0)	( )	( )
21	181	433	560	21.4 (14)	13.2 (23)	18.9 (16)	16.0 (23)	17.4	18.8	2.0	-0.6	-
22	180	432	559	20.2 (14)	9.9 (6)	17.0 (16)	13.1 (8)	17.6	18.6	0.	1.8	-
23	180	433	559	20.1 (14)	11.3 (5)	16.9 (16)	13.2 (8)	17.2	18.5	0.	1.4	-
24	184	421	559	19.2 (13)	11.9 (6)	16.8 (16)	13.8 (8)	17.0	18.3	0.	0.9	0.4
25	180	429	552	18.1 (15)	12.4 (6)	16.5 (17)	14.0 (8)	16.9	18.2	0.	1.3	0.7
5-DAYS				19.8	11.7	17.2	14.0			SUM.	SUM.	SUM.
MEAN	181	430	558		15.8		15.6	17.2	18.5	(2.0)	(5.4)	(1.1)
26	181	437	553	19.2 (14)	11.8 (6)	17.0 (17)	13.8 (8)	16.9	18.2	0.	1.0	0.6
27	182	428	552	18.3 (12)	14.5 (5)	17.0 (15)	15.1 (7)	16.8	18.1	0.	0.	0.7
28	182	425	551	16.0 (11)	14.3 (23)	16.5 (0)	15.3 (23)	16.8	18.0	5.0	-5.6	-5.3
29	180	418	550	14.7 (15)	13.1 (6)	15.1 (0)	14.3 (9)	16.9	18.0	21.0	-19.1	-17.1
30	172	415	549	17.3 (13)	11.7 (7)	15.7 (16)	13.1 (8)	16.7	17.9	0.	1.3	0.9
31	170	414	548	17.2 (13)	11.0 (7)	15.2 (16)	12.8 (8)	16.4	17.8	0.	1.1	0.9
5-DAYS				17.1	12.7	16.1	14.1			SUM.	SUM.	SUM.
MEAN	178	422	551		14.9		15.1	16.7	18.0	(25.0)	(3.4)	(1.1)
MONTHLY												
MEAN	178	455	573		16.6		16.6	18.4	19.4	(126.0)	( )	( )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	FT MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)		(22M)	2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	171	410	543	19.7 (14)	11.5 (6)	14.4 (16)	12.9 (8)	16.2	17.8	0.	1.4	2.0
2	170	408	541	17.8 (14)	11.5 (6)	14.8 (16)	13.2 (8)	16.1	17.7	0.	1.4	2.0
3	172	408	541	18.2 (13)	10.0 (7)	14.4 (16)	12.7 (9)	16.0	17.4	0.	1.4	1.5
4				17.1 (13)	7.2 (7)	14.0 (16)	10.4 (9)	15.9	17.4	0.	1.5	2.0
5	177	415	545	17.2 (13)	7.1 (6)	13.9 (16)	9.8 (8)	15.5	17.5	0.	1.0	1.4
5-DAYS MEAN				18.0	9.5	15.1	11.8			SUM.	SUM.	SUM.
6	173	411	541		13.7		13.5	15.9	17.6 (0.)	( 4.3)	( 9.1)	
7	176	412	541	17.7 (13)	8.0 (7)	14.2 (16)	10.2 (8)	15.1	17.3	0.	1.3	1.7
8	177	413	541	16.0 (14)	7.9 (7)	13.7 (16)	10.2 (8)	14.8	17.2	0.	0.7	0.7
9	177	413	541	19.2 (13)	11.7 (23)	15.7 (16)	12.8 (8)	14.7	17.0	0.	1.0	2.0
10	180	420	546	18.0 (13)	9.8 (8)	14.9 (16)	12.0 (8)	14.8	17.0	0.	1.4	3.3
5-DAYS MEAN				15.9	6.7 (6)	12.8 (16)	9.9 (8)	14.9	16.9	0.	1.0	1.4
11	179	414	542		12.9		12.6			SUM.	SUM.	SUM.
12	179	420	547	12.8 (14)	8.8 (6)	12.4 (16)	10.5 (8)	14.9	17.1 (0.)	( 5.6)	( 9.5)	
13	180	422	548	14.0 (13)	7.8 (6)	12.7 (17)	10.7 (8)	14.7	16.8	0.	0.8	1.0
14	174	415	542	11.2 (12)	10.3 (7)	11.9 (15)	11.2 (23)	14.2	16.5	24.0	-23.0	-23.3
15	172	411	540	17.8 (13)	11.4 (5)	14.0 (16)	11.2 (5)	13.9	16.3	0.	0.8	0.2
5-DAYS MEAN				17.0	8.8	14.3	11.0	13.8	16.1	0.	0.9	1.4
16	171	414	540		12.4		11.0			SUM.	SUM.	SUM.
17	172	417	541	16.4 (13)	8.1 (7)	13.6 (16)	10.4 (9)	14.2	16.5 (24.0)	( 3.1)	( 3.8)	
18	170	412	540	10.7 (15)	8.0 (23)	11.5 (13)	10.3 (23)	14.0	16.0	9.0	1.2	2.0
19	170	410	538	15.2 (13)	6.9 (7)	12.3 (16)	9.0 (8)	13.8	15.9	0.	-0.8	-0.7
20	168	408	537	16.1 (14)	10.9 (0)	13.8 (16)	11.4 (7)	13.5	15.8	4.0	-1.1	-3.0
5-DAYS MEAN				14.8	7.2 (23)	12.8 (15)	10.3 (23)	13.4	15.7	0.	1.6	3.4
21	170	412	539		11.4		11.6			SUM.	SUM.	SUM.
22	170	410	538	14.0 (13)	5.4 (7)	11.3 (16)	8.2 (9)	13.7	15.9 (13.0)	( 3.6)	( 6.0)	
23	170	410	539	14.0 (13)	6.1 (6)	11.2 (16)	8.2 (8)	13.1	15.5	0.	1.0	1.4
24	170	412	540	11.9 (14)	5.3 (3)	10.5 (17)	7.9 (7)	12.8	15.4	0.	0.6	1.1
25	172	413	540	12.9 (14)	6.0 (23)	11.0 (16)	8.9 (23)	12.6	15.2	0.	0.6	1.0
5-DAYS MEAN				12.5	3.8 (7)	9.9 (16)	6.8 (9)	12.4	15.1	0.	0.6	0.9
26	170	411	539		9.2		9.4			SUM.	SUM.	SUM.
27	172	415	541	11.9 (13)	4.2 (6)	9.8 (17)	6.8 (7)	12.9	15.4 (0.)	( 3.6)	( 5.1)	
28	173	413	540	10.8 (14)	8.9 (0)	10.3 (17)	9.4 (6)	12.1	15.0	0.	0.3	1.1
29	167	402	535	14.8 (14)	8.9 (23)	12.7 (16)	10.3 (0)	11.8	14.8	0.		
30	165	400	532	12.3 (13)	5.0 (7)	10.2 (16)	8.0 (9)	12.0	14.7	0.		
5-DAYS MEAN				13.2	4.6 (7)	10.3 (16)	7.2 (9)	11.9	14.5	1.0		
MONTHLY MEAN	169	407	537	12.6	6.3	10.7	8.3			SUM.	( 20.0)	( 31.1)
					9.5		9.5	11.9	14.8 (57.0)	( )	( )	( )
							11.4					

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	FT MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2.2M)		(22M)	2CM		10CM						
	NO.1 WELL	NO.2 WELL	NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	168	410	539	12.2 (13)	4.7 (7)	9.8 (16)	7.0 (9)	11.8	14.4	0.	0.4	0.4
2	168	408	539	11.8 (12)	4.0 (6)	9.6 (16)	6.7 (8)	11.5	14.3	0.	0.6	0.6
3	169	408	538	12.3 (13)	4.6 (7)	9.7 (16)	6.8 (8)	11.2	14.2	0.	2.7	2.7
4	170	409	539	9.9 (14)	4.7 (6)	8.5 (16)	6.7 (8)	11.1	14.1	0.	0.3	0.3
5	170	404	537	10.0 (13)	3.5 (23)	8.4 (16)	6.6 (9)	10.9	14.0	0.	3.5	3.5
5-DAYS MEAN				11.2	6.3	9.2	6.7			SUM.	SUM.	SUM.
6	172	410	539		7.8		7.9			SUM.	( 1.3)	( 2.5)
7	176	414	543	9.2 (13)	2.0 (8)	7.2 (16)	4.7 (9)	10.7	14.0	0.	0.8	0.7
8	177	416	543	8.2 (14)	1.1 (7)	6.6 (17)	3.8 (10)	10.3	13.8	0.	0.5	0.8
9	178	418	544	9.8 (14)	1.8 (7)	7.2 (16)	4.0 (9)	9.9	13.7	0.	0.5	1.0
10	178	419	545	10.8 (14)	2.7 (3)	8.1 (16)	4.8 (6)	9.7	13.7	0.	0.4	0.8
5-DAYS MEAN				8.1	3.2 (5)	7.5 (19)	5.3 (8)	9.6	13.3	0.	-0.2	0.
11	180	415	543		2.2		4.5			SUM.	SUM.	SUM.
12	180	420	544	8.8 (14)	3.1 (23)	8.0 (16)	6.1 (23)	10.0	13.7 (0.)	( 2.2)	( 3.1)	
13	180	426	549	8.0 (14)	1.4 (8)	6.3 (16)	4.0 (10)	9.4	13.2	9.0	-0.6	-0.9
14	180	427	550	7.6 (13)	1.1 (7)	6.0 (16)	3.3 (9)	9.6	13.0	0.	0.7	0.6
15	180	427	550	8.8 (14)	2.8 (2)	7.1 (17)	4.7 (4)	9.0	13.0	0.	0.6	0.6
5-DAYS MEAN				8.7	3.9 (6)	8.0 (17)	4.8 (8)	8.9	12.8	0.	0.7	0.4
16	181	420	550		2.5		4.6			SUM.	SUM.	SUM.
17	182	431	551	8.9 (14)	1.8 (7)	6.9 (17)	3.9 (9)	9.2	13.0 (9.0)	( 1.8)	( 2.0)	
18	182	433	552	10.0 (14)	2.8 (7)	7.5 (16)	4.7 (9)	8.8	12.4	0.	0.5	0.3
19	183	437	553	6.8 (13)	5.0 (0)	6.8 (16)	6.1 (3)	8.7	12.3	2.0	-0.4	-0.8
20	183	439	555	5.8 (14)	4.7 (23)	6.2 (15)	5.8 (23)	8.8	12.2	0.	0.4	1.0
5-DAYS MEAN				13.0	1.9 (23)	6.1 (15)	4.5 (23)	8.8	12.1	1.0	0.9	1.0
21	183	440	559		3.2		5.0			SUM.	SUM.	SUM.
22	185	443	560	4.8 (14)	0.9 (7)	4.2 (17)	2.9 (9)	8.8	12.3 (3.0)	( 2.2)	( 2.1)	
23	187	443	560	5.7 (14)	1.8 (5)	4.9 (17)	3.1 (9)	8.0	12.0	14.0	-15.4	-11.3
24	182	438	558	9.0 (13)	2.7 (23)	6.8 (16)	4.6 (10)	7.8	11.8	4.0	-1.3	-3.2
25	178	438	558	7.2 (13)	1.1 (8)	5.3 (17)	3.1 (10)	7.8	11.6	0.	0.7	1.2
5-DAYS MEAN				6.5	1.5	5.2	3.3			SUM.	SUM.	SUM.
26	177	439	559		4.0		4.3			SUM.	( 18.0)	( 1.6)
27	177	438	559	8.1 (14)	1.5 (7)	5.9 (16)	3.1 (10)	7.6	11.3	0.	0.5	0.3
28	176	438	558	8.2 (14)	1.2 (5)	5.8 (16)	3.1 (7)	7.5	11.2	0.	0.2	0.9
29	178	434	556	5.8 (14)	2.9 (8)	5.3 (17)	4.0 (8)	7.4	11.2	0.	0.2	0.
30	178	438	558	6.2 (14)	1.1 (8)	5.0 (17)	3.0 (10)	7.3	11.0	0.	0.5	0.7
31	179	440	560	5.5 (13)	1.0 (8)	4.3 (16)	2.8 (10)	7.2	11.0	0.	0.6	0.8
5-DAYS MEAN				4.3	1.3 (8)	4.4 (17)	2.1 (11)	7.1	11.0	0.	0.5	0.9
MONTHLY MEAN	178	437	559	6.4	1.3	4.9	3.0	7.3	11.1 (0.)	( 2.5)	( 4.6)	( 4.6)
					5.5		5.6	9.1	12.7 (30.0)	( )	( )	( 21.1)

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2-2")			2CM		10CM						
	(10")	(22")	NO.1 WELL NO.2 WELL NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1	178	440	540	5.1 (15)	0.3 (8)	3.9 (17)	1.9 (10)	6.9	10.8	0.	0.6	0.5
2	179	440	540	6.2 (14)	0.4 (8)	4.2 (16)	2.1 (10)	6.8	10.8	0.	0.5	1.7
3	180	441	540	5.1 (15)	0.7 (8)	3.9 (17)	2.2 (10)	6.5	10.8	0.	0.3	0.1
4	180	441	560	6.6 (14)	0.4 (8)	4.5 (17)	2.1 (10)	6.3	10.5	0.	0.2	0.8
5	181	442	560	7.3 (13)	0.9 (4)	5.1 (16)	2.4 (8)	6.2	10.4	0.	0.6	1.0
5-DAYS				6.1	0.7	4.3	2.1			SUM.	SUM.	SUM.
MEAN	180	441	560		3.4		3.2	6.5	10.7 ( 0. )		( 2.2 )	( 3.2 )
6	182	443	562	6.9 (14)	0.8 (8)	4.8 (16)	2.5 (10)	6.2	10.2	0.	0.4	0.7
7	183	442	564	3.9 (16)	0.4 (6)	3.6 (18)	2.3 (9)	6.2	10.2	1.0	-0.6	-2.5
8	183	457	564	7.3 (14)	1.1 (3)	5.0 (17)	1.5 (7)	6.2	10.1	0.	0.4	-0.1
9	185	451	567	7.9 (14)	0.8 (8)	5.2 (17)	2.3 (10)	6.2	10.0	0.	0.6	0.6
10	186	452	568	8.7 (13)	2.8 (7)	6.2 (16)	3.8 (9)	6.2	10.0	0.	0.2	0.3
5-DAYS				6.9	1.3	5.0	2.5			SUM.	SUM.	SUM.
MEAN	186	450	565		4.1		3.7	6.2	10.1 ( 1.0 )		( 1.6 )	( 1.8 )
11	187	453	568	6.4 (13)	1.9 (8)	5.5 (17)	3.7 (10)	6.2	9.9	0.	0.5	1.2
12	188	457	549	7.1 (13)	3.7 (8)	5.9 (16)	4.6 (10)	6.5	9.8	2.0	-2.6	-0.7
13	188	457	570	4.7 ( 0 )	3.1 (23)	5.3 ( 0 )	4.1 (23)	6.7	9.8	3.0	-14.3	-14.3
14	188	460	571	3.1 ( 0 )	2.0 ( 9 )	4.0 ( 0 )	3.2 (23)	6.7	9.8	0.	1.0	-1.2
15	188	460	571	2.6 (16)	1.1 (10)	3.2 ( 0 )	2.6 (11)	6.6	9.7	1.0	1.0	-2.9
5-DAYS				4.8	2.4	4.8	3.6			SUM.	SUM.	SUM.
MEAN	188	457	570		3.6		4.2	6.5	9.8 ( 15.0 )		( 2.5 )	( 1.2 )
16	189	462	572	4.7 (15)	0.6 (8)	3.4 (17)	2.0 (11)	6.2	9.7	0.	0.8	3.4
17	188	464	572	4.7 (14)	0.4 (8)	3.4 (17)	1.8 (11)	6.0	9.7	0.	1.2	0.6
18	187	462	572	3.4 (16)	0.6 (9)	3.0 (18)	1.8 (11)	5.7	9.6	0.	0.4	0.2
19	187	466	572	4.4 (16)	0.7 (8)	3.3 (16)	2.0 (10)	5.7	9.5	0.	0.8	4.0
20	187	470	577	4.3 (15)	0.3 (10)	3.0 (17)	1.7 (11)	5.7	9.4	0.	0.3	1.0
5-DAYS				4.3	0.5	3.2	1.9			SUM.	SUM.	SUM.
MEAN					2.4		2.5	5.9	9.6 ( 0. )		( 3.5 )	( 9.1 )
21				5.3 (15)	0.4 (9)	3.7 (17)	1.7 (10)	5.4	9.3	0.	0.5	1.9
22				5.1 (14)	0.8 (9)	3.7 (17)	1.9 (11)	5.4	9.2	0.	0.6	1.5
23				5.6 (14)	0.4 (9)	3.7 (17)	1.7 (11)	5.3	9.1	0.	0.4	1.4
24				4.4 (15)	0.5 (9)	4.2 (17)	1.8 (10)	5.3	9.0	0.	0.5	1.4
25				5.7 (15)	0.5 (9)	3.9 (17)	1.8 (11)	5.3	9.0	0.	0.2	0.9
5-DAYS				5.6	0.5	3.9	1.8			SUM.	SUM.	SUM.
MEAN					3.1		2.8	5.3	9.1 ( 0. )		( 2.2 )	( 7.3 )
26				8.8 (15)	2.2 ( 0 )	5.8 (17)	2.9 ( 3 )	5.5	9.0	0.	0.5	1.5
27				8.5 (14)	1.2 (8)	5.7 (17)	2.8 (10)	5.6	8.9	0.	0.3	2.7
28				6.9 (14)	0.9 (8)	4.7 (16)	2.5 (11)	5.4	8.9	0.	0.6	1.3
29				2.5 (15)	0.4 (9)	2.8 (20)	1.9 (11)	5.7	8.8	0.	-1.4	-2.8
30				6.5 (16)	1.9 (4)	5.0 (18)	2.7 ( 6 )	5.4	8.8	37.0	-28.1	-28.1
31				4.7 (15)	1.7 ( 5 )	4.4 (23)	2.9 ( 7 )	5.2	7.4	3.0	-3.4	-3.4
5-DAYS				6.3	1.4	4.7	2.6			SUM.	SUM.	SUM.
MEAN					3.9		3.7	5.5	8.7 ( 40.0 )		( )	( 5.5 )
MONTHLY												
MEAN					3.4		3.4	6.0	9.7 ( 56.0 )		( )	( 28.1 )

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MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	(2-2")			2CM		10CM						
	(10")	(22")	NO.1 WELL NO.2 WELL NO.3 WELL	MAX.(TIME)	MIN.(TIME)	MAX.(TIME)	MIN.(TIME)					
1				9.1 (15)	4.4 (23)	6.8 (17)	4.4 ( 0 )	5.3	7.9	7.0		-7.3
2				9.0 (16)	1.8 (23)	6.2 (16)	3.5 ( 9 )	5.5	8.0	0.		5.3
3				8.3 (16)	1.0 ( 7 )	5.4 (17)	2.6 (10)	5.8	8.0	0.		1.0
4				9.1 (15)	1.0 ( 8 )	5.8 (17)	2.7 (10)	5.5	8.0	0.		1.7
5				4.8 (14)	1.0 ( 6 )	4.0 (16)	2.7 ( 9 )	5.6	8.0	0.		-3.4
5-DAYS				8.1	1.9	5.6	3.2			SUM.	SUM.	SUM.
MEAN					5.0		4.4	5.5	8.0 ( 12.0 )		( )	( 5.7 )
6				9.2 (14)	2.3 ( 3 )	6.1 (16)	2.4 ( 6 )	5.5	8.0	18.0		2.7
7				11.0 (14)	1.8 ( 7 )	7.0 (16)	3.2 ( 9 )	5.5	7.8	0.		1.5
8				10.1 (15)	2.2 ( 7 )	7.4 (17)	3.9 ( 9 )	5.7	7.8	0.		
9				11.2 (14)	1.8 ( 8 )	7.2 (16)	3.7 ( 9 )	5.8	8.0	0.		
10				8.9 (14)	4.7 ( 6 )	7.0 (16)	5.0 ( 8 )	5.9	8.0	0.		
5-DAYS				10.1	2.6	7.0	3.6			SUM.	SUM.	SUM.
MEAN					6.3		5.3	5.7	7.9 ( )		( )	( )
11				14.4 (14)	5.3 ( 7 )	9.8 (17)	6.0 ( 8 )	6.0	8.0	1.0	2.4	0.1
12				12.1 (12)	2.8 ( 7 )	8.6 (16)	4.8 ( 9 )	6.5	8.1	0.	2.4	2.5
13				7.6 (16)	1.8 ( 7 )	8.1 (17)	3.9 ( 9 )	6.8	8.2	0.	2.4	2.8
14				10.9 (15)	6.5 (23)	8.7 (17)	6.8 ( 7 )	6.8	8.2	4.1	-3.2	-3.4
15				9.8 (15)	3.2 ( 6 )	7.8 (17)	5.2 ( 8 )	6.9	8.3	0.	2.1	1.3
5-DAYS				11.0	3.9	8.6	5.3			SUM.	SUM.	SUM.
MEAN					7.4		7.0	6.6	8.2 ( 5.0 )		( 9.3 )	( 6.7 )
16				11.5 (14)	1.8 ( 7 )	7.9 (16)	4.1 ( 9 )	7.0	8.4	0.	1.9	2.5
17				6.8 (19)	2.5 ( 4 )	6.7 (16)	4.4 ( 8 )	7.0	8.4	10.0	-8.9	-8.9
18				12.0 (14)	1.8 ( 7 )	8.5 (16)	5.0 ( 9 )	6.8	8.5	1.0	1.5	1.4
19				11.7 (14)	1.8 ( 7 )	7.8 (16)	3.9 ( 9 )	6.7	8.5	0.	2.6	4.0
20				9.1 (15)	1.3 ( 7 )	6.9 (17)	3.5 ( 9 )	6.9	8.6	0.	2.2	1.4
5-DAYS				10.2	2.2	7.5	4.2			SUM.	SUM.	SUM.
MEAN					6.2		5.8	6.9	8.5 ( 11.7 )		( 8.2 )	( 9.7 )
21				13.2 (14)	3.7 ( 7 )	9.2 (17)	4.7 ( 9 )	6.8	8.7	0.	2.1	1.6
22				13.9 (13)	5.1 ( 7 )	9.8 (16)	6.2 ( 8 )	6.9	8.7	0.	2.1	1.2
23				9.5 (13)	7.7 (23)	8.8 (16)	7.9 ( 9 )	7.2	8.7	19.7	-18.6	-18.7
24				9.6 (14)	6.9 ( 7 )	8.7 (16)	7.5 ( 9 )	7.4	8.7	0.	-1.7	-1.5
25				14.8 (14)	5.6 ( 7 )	10.7 (16)	6.4 ( 9 )	7.7	8.7	0.	5.7	2.5
5-DAYS				12.2	5.8	9.4	6.6			SUM.	SUM.	SUM.
MEAN					9.0		8.0	7.2	8.7 ( 24.0 )		( 9.9 )	( 7.5 )
26				8.1 (13)	6.8 (23)	4.4 ( 0 )	7.7 (23)	7.4	8.8	10.7	-6.5	-6.5
27				8.3 (16)	4.5 ( 7 )	7.7 (17)	6.2 ( 9 )	8.0	8.8	1.0	3.1	3.1
28				12.2 (15)	2.6 ( 7 )	8.7 (16)	4.9 ( 9 )	8.0	8.5	0.	5.3	5.3
5-DAYS				9.5	4.6	8.3	6.2			SUM.	SUM.	SUM.
MEAN					7.1		7.3	7.2	8.8 ( 13.7 )		( 8.4 )	( )
MONTHLY												
MEAN					6.8		6.3	6.6	8.8 ( )		( )	( )

3, 1979

MONTHLY HYDROLOGICAL DATA

DATE	GROUNDWATER LEVEL (CM) BELOW LAND SURFACE			SOIL TEMPERATURE (°C)				50CM	100CM	RAINFALL (MM/DAY)	ET MEASURED BY WEIGHING LYSIMETER (MM/DAY)	EVAPORATION MEASURED BY CLASS-A PAN (MM/DAY)
	NO.1 WELL (12.2M)	NO.2 WELL (10M)	NO.3 WELL (22M)	2CM MAX.(TIME)	MIN.(TIME)	10CM MAX.(TIME)	MIN.(TIME)					
1				11.0 (14)	1.9 (7)	7.8 (16)	4.3 (9)	7.8	8.9	0.	4.1	
2				10.0 (13)	1.4 (7)	7.1 (16)	3.8 (9)	7.7	9.7	0.	3.2	2.5
3				11.7 (14)	1.2 (7)	7.8 (17)	3.3 (9)	7.4	9.0	0.	2.9	2.7
4				6.7 (15)	3.7 (23)	6.0 (18)	5.1 (9)	7.2	9.0	4.0	-2.0	-3.5
5				12.1 (14)	1.6 (7)	8.1 (16)	3.4 (9)	7.2	9.0	0.	2.8	1.8
5-DAYS MEAN				10.3	2.0	7.4	4.0			SUM.	SUM.	SUM.
6				11.2 (14)	2.3 (7)	8.2 (17)	4.3 (8)	7.5	9.0 (4.0)	( 11.0)	( )	( )
7				13.8 (14)	2.7 (7)	9.3 (16)	4.8 (8)	7.0	9.0	0.	1.8	1.9
8				10.2 (16)	4.7 (23)	8.4 (17)	6.8 (23)	7.2	9.0	2.0	0.6	1.6
9				14.4 (14)	2.4 (7)	9.8 (17)	4.8 (9)	7.4	9.0	0.	0.7	2.7
10				14.4 (14)	2.4 (7)	9.8 (17)	4.8 (9)	7.5	9.0	0.	1.7	2.4
5-DAYS MEAN				12.3 (12)	7.2 (6)	9.8 (16)	7.7 (8)	7.6	9.0	2.0	-1.6	-0.6
11				12.4	3.9	9.1	5.7			SUM.	SUM.	SUM.
12				13.5 (13)	5.3 (23)	10.7 (16)	7.9 (23)	7.3	9.0 (4.0)	( 4.0)	( 8.6)	( 8.6)
13				12.5 (13)	2.3 (7)	8.9 (16)	5.1 (9)	7.9	9.0	0.	2.4	3.7
14				9.4 (14)	4.7 (23)	8.3 (17)	6.8 (9)	8.2	9.0	0.	0.9	2.4
15	222	452	634	11.6 (13)	2.3 (7)	8.2 (16)	4.7 (9)	8.2	9.2	2.0	-0.9	0.2
5-DAYS MEAN	222	443	633	14.8 (13)	5.1 (7)	10.4 (17)	6.7 (8)	8.0	9.2			
16	232	458	643	12.4	3.9	9.3	6.2			SUM.	SUM.	SUM.
17	233	463	650	14.8 (14)	3.2 (6)	10.3 (17)	5.8 (9)	8.1	9.1 ( )	( )	( )	( )
18	239	467	650	( )	( )	( )	( )	8.1	9.2	0.	1.4	2.7
19	244	488	669	( )	( )	( )	( )	8.2	9.2	0.	1.2	2.2
20	245	489	671	( )	( )	( )	( )			0.	1.7	4.7
5-DAYS MEAN				( )	( )	( )	( )			0.	1.1	2.5
21	239	472	657	( )	( )	( )	( )			0.	1.0	1.0
22	251	490	674	( )	( )	( )	( )			SUM.	SUM.	SUM.
23	254	497	681	( )	( )	( )	( )			( 0. )	( 6.4)	( 13.3)
24	242	510	690	( )	( )	( )	( )			0.	1.2	3.1
25	264	512	698	( )	( )	( )	( )			0.	1.4	3.5
5-DAYS MEAN	247	486	677	( )	( )	( )	( )			0.	1.1	3.5
26	230	472	657	( )	( )	( )	( )			10.0	-31.0	-27.7
27	212	448	651	( )	( )	( )	( )			0.	2.0	2.9
28	206	443	652	( )	( )	( )	( )			SUM.	SUM.	SUM.
29	230	430	644	( )	( )	( )	( )			( 30.0)	( 5.7)	( 13.0)
30	230	430	644	( )	( )	( )	( )			0.	1.8	4.5
31	225	421	641	( )	( )	( )	( )			0.	4.1	3.2
5-DAYS MEAN				( )	( )	( )	( )			0.	3.7	4.2
MONTHLY MEAN				( )	( )	( )	( )			0.	3.7	4.2
				( )	( )	( )	( )			0.	3.7	4.2
				( )	( )	( )	( )			4.0	-2.1	-3.7
				( )	( )	( )	( )			0.	3.7	4.4
				( )	( )	( )	( )			SUM.	SUM.	SUM.
				( )	( )	( )	( )			( 4.0)	( 16.5)	( 24.4)
				( )	( )	( )	( )			( )	( )	( )