

IV. NET ACCUMULATION BY STAKE MEASUREMENTS

Kotaro YOKOYAMA*

Observers: Kotaro Yokoyama and
Shun'ichi Kobayashi

The net accumulation of snow (cm in thickness) was measured by means of the stake method at the intervals of about 2 km along the oversnow traverse routes in 1973-1974 (see Fig. A and report I in this volume).

Table 1 shows the routes (or stations) and periods of the stake measurement. The average annual accumulation for four years was obtained along routes A and S (S169-S239), as shown in Tables 2 and 3, respectively. As regards all the other routes, the net accumulation obtained pertains to the respective subdivisional periods of the year concerned, and is shown in Tables 4-9. The net accumulation measured by two 200-stake farms, one at S122 and the other at Mizuho Camp (Yamada et al., 1975), was shown in Tables 8 and 9. Positions and elevations of stations are tabulated in report II.

Reference

Yamada, T., H. Narita, F. Okuhira, H. Fukutani, I. Fujisawa and T. Shiratsuchi (1975): Net accumulation of snow by stake measurements in Sôya Coast-Mizuho Plateau in 1971-1973. Glaciological Research Program in Mizuho Plateau-West Enderby Land, Part 2, 1969-1973. JARE Data Rep., 27 (Glaciology), 10-67.

* Disaster Prevention Research Institute, Kyoto University, Uji 611.

Table 1. Traverse routes and observation periods in respective tables.

Table No.	Route or station	Periods of observation
Table 2	Route A	November/December 1969 - December 1973/January 1974
3	S169-S239	November 1969 - January 1974
4	Route X	December 1971 - January 1974 (with the breakdown in 2) (subdivisioinal periods)
5	S31-S121	January 1973 - January 1974
6	Route S-H-Z (S16-H3-S122-Z104)	January 1973 - January 1974 (with the breakdown in 5) (subdivisioinal periods)
7	Traverse survey stations	September 1973 - January 1974
8	Mizuho Camp (200-stake farm)	January 1973 - November 1973 (with the breakdown in 4) (subdivisioinal periods)
9	S122 (200-stake farm)	January 1973 - January 1974

Table 2. Average annual net accumulation (cm in depth) along route A.

Station No.	Accumulation (cm/year)	Station No.	Accumulation (cm/year)	Station No.	Accumulation (cm/year)
A 003	- 6	A 040	32	A 076	28
004				077	20
005	- 5	041	23	078	2
006	- 7	042	15	079	- 5
007	- 2	043	27	080	1
008	- 7	044	25		
009		045	25	081	14
010	- 7	046	16	082	5
		047	- 5	083	26
011	- 4	048	10	084	25
012	- 6	049	- 5	085	0
013	- 5	550		086	23
014	5			087	25
015	- 5	051	13	588	
016		052	7	089	33
017	- 4	053	14	090	5
018	- 5	054	10		
019	3	055	- 4	591	
020	- 4	056	15	092	- 5
		057	- 1	593	
021	- 1	558		094	11
022	- 4	059	16	095	- 3
023	- 1	060	19	096	36
024	- 4			097	29
025		061	4	098	0
026	- 3	062	3	099	13
027	14	063	15	100	21
028	10	064	- 1	101	7
029	- 3	065	22	102	18
030		066	- 8	103	9
		067	- 4	604	
031	- 5	068	20	105	10
032	17	069	4	606	
033	20	070	16	107	45
034	13			108	10
035	- 4	071	2	109	20
036	6	072	13	110	30
037	- 4	073	14		
038	19	574		111	18
039	- 3	075	21	112	33

Station No.	Accumulation (cm/year)	Station No.	Accumulation (cm/year)	Station No.	Accumulation (cm/year)
A 113	10	A 131	7	A 148	16
114	12	632		149	17
115	13	133	47	650	
116	4	634			
117	50	135	40	151	14
118	30	636		652	
619		638		653	
120	2	637		154	
		138	17	155	- 4
121	- 1	639		656	
122	15	140	- 3	157	
123	4			658	
624		141	57	159	- 3
125	- 1	142	0	160	18
126	8	643			
127	14	144	14	161	- 1
128	23	145	10	162	- 2
129	10	146	11	163	1
130	32	147		164	6

Table 3. Average annual net accumulation (cm in depth) at S169-S239.

Station No.	Accumulation (cm/year)	Station No.	Accumulation (cm/year)	Station No.	Accumulation (cm/year)
S 169	24	S 193		S 217	22
170		194		218	
171		195		219	
172	20	196	16	220	
173	13	197	- 4	221	20
174		198	15	222	25
175	13	199	35	223	24
176	16	200	9	224	17
177	22	201		225	17
178		202		226	33
179		203	24	227	19
180		204	8	228	10
181	32	205	16	229	19
182	29	206	27	230	- 2
183	9	207		231	18
184	28	208		232	26
185		209		233	
186	- 2	210	31	234	
187	0	211	27	235	
188	31	212		236	11
189	10	213	7	237	16
190		214	13	238	28
191		215	27	239	22
192		216			

Table 4. Net accumulation (cm in depth) along route X.

Station No.	Period	Dec. 1971- Nov. 1973 (697 days)	Nov. 1973- Jan. 1974 (66 days)	Station No.	Period	Dec. 1971- Nov. 1973 (697 days)	Nov. 1973- Jan. 1974 (66 days)
X 1		90	- 3	X 11		64	- 8
2		11	- 1	12		28	1
3		10	- 4	13		28	- 8
4		40	- 6	14		81	- 2
5		53	- 4	15		88	- 6
6		53	-13	16		49	- 5
7		25	0	17		40	- 3
8		92	- 4	18		54	- 6
9		54	9	19		5	- 4
10		10	- 4				

Table 5. Net accumulation (cm in depth) at S31-S121.

Station No.	Jan. 1973 - Jan. 1974 (366-367 days)	Station No.	Jan. 1973 - Jan. 1974 (366-367 days)	Station No.	Jan. 1973 - Jan. 1974 (366-367 days)
S 31	50	S 61	66	S 91	18
32	56	62	47	92	40
33	52	63	60	93	23
34	54	64	47	94	36
35	59	65	36	95	33
36	19	66	28	96	
37	45	67	62	97	13
38	29	68	42	98	15
39	53	69	62	99	43
40	55	70	45	100	- 8
41	54	71	34	101	20
42	44	72	39	102	16
43	55	73	56	103	26
44	36	74	32	104	14
45	60	75	13	105	9
46	42	76	51	106	14
47	60	77	19	107	0
48	39	78	50	108	-10
49	46	79	31	109	4
50	79	80	28	110	3
51	61	81	37	111	0
52	54	82	16	112	11
53	72	83	13	113	-8
54	23	84	28	114	3
55	60	85	25	115	-9
56	31	86	122	116	8
57	87	87	30	117	-9
58	69	88	8	118	-12
59	34	89	25	119	18
60	40	90	12	120	-4

Table 6. Net accumulation (cm in depth) along route S-H-Z.

Period Station No.	Jan. - Apr. 1973 (73-92 days)	Apr. - Aug. 1973 (103-127 days)	Aug. - Oct. 1973 (48-64 days)	Oct. - Nov. 1973 (28-40 days)	Nov. 1973- Jan. 1974 (72-80 days)	Jan. 1973- Jan. 1974 (367-368 days)
S 17						35
17-2	22	22	12	- 4	-19	33
18	6	3	46	0	-20	35
19	10	27	8	←-8→		37
20	37	80	55	-19	-11	142
21	22	-1	0	32	-16	37
22	7	47	-3	-5	0	46
23	26	44	10	-7	-22	51
24	38	37	21	-16	-5	75
25	18	9	17	-10	-6	28
26	←67→		3	-5	-22	43
27	14	8	16	-3	-13	22
28	22	3	33	13	-11	60
29	31	←31→		55	-66	51
30	15	41	10	0	-16	50
H 3	34	27	9	-2	-10	58
6	←53→		-3	-3	-12	35
12	24	29	5	0	-10	48
18	16	11	24	-3	-6	42
24	13	4	13	-2	-3	25
30	9	42	21	-3	-6	63
45	6	19	14	-6	-99	-66
51	6	10	24	←-13→		27
57	17	34	2	←-7→		46
62	8	30	10	←-11→		37
66	5	116	-78	-2	-5	36
70	22	9	18	-2	-13	34

Period Station No.	Jan. - Apr. 1973 (73-92 days)	Apr. - Aug. 1973 (103-127 days)	Aug. - Oct. 1973 (48-64 days)	Oct. - Nov. 1973 (28-40 days)	Nov. 1973- Jan. 1974 (72-80 days)	Jan. 1973- Jan. 1974 (367-368 days)
H 74	9	24	12	-4	-6	35
76	10	-6	49	-13	-5	35
80	13	50	-12	0	-7	44
82	6	25	1	-2	-8	22
86	25	16	← 6 →		-4	43
88	10	18	12	-3	-4	33
90	21	-1	← 20 →		-6	34
92	10	14	← 5 →		-3	26
96	12	20	33	-9	-2	54
100	-2	17	8	-3	-5	15
104	9	3	12	-7	-8	9
108	1	20	20	-10	-7	24
112	-3	36	6	-7	-9	23
116	10	1	16	1	-7	21
120	18	18	-1	-5	-7	23
124	9	6	12	-6	-5	16
128	12	-45	62	-3	10	36
132	2	← 4 →		-4	-4	-2
136	6	23	← -3 →		-6	20
140	11	22	0	-2	-2	29
144	17	14	0	0	-6	25
146	54	-24	8	-2	4	40
150	1	13	15	-3	-6	20
154	3	1	25	-2	-3	24
156	6	10	4	-2	8	26
160	5	19	4	-4	-2	22
164	16	24	← 8 →		-1	47
168	22	14	-2	-1	-5	28

Period Station No.	Jan. - Apr. 1973 (73-92 days)	Apr. - Aug. 1973 (103-127 days)	Aug. - Oct. 1973 (48-64 days)	Oct. - Nov. 1973 (28-40 days)	Nov. 1973- Jan. 1974 (72-80 days)	Jan. 1973- Jan. 1974 (367-368 days)
H 172	5	24	-1	0	-6	22
176	21	5	13	-3	-5	31
180	5	14	2	-3	6	24
184	8	15	3	-4	-8	14
188	19	0	0	-1		
190	12	10	0	-2	-6	14
192	2	13	0	← 1 →		16
194	5	23	5	-2	-6	25
196	27	22	0	3	-13	39
198	2	17	-2	-2	-5	10
200	8	26	-20	-2	-3	9
204	4	10	0	-2	-5	7
208	2	6	0	0	0	8
212	19	3	1	-1	5	27
214	10	9	0	-1	-5	13
218	11	7	-6	0	1	13
222	2	13	2	-4	-7	6
226	11	0	0	-1	-4	6
230	100	12	-2	-5	-15	90
234	19	0	2	-2	-5	14
238	29	-1	0	-2	-5	21
242	18	0	-1	-1	-5	11
246	16	-3	7	-5	5	20
250	6	0	1	-2	-4	1
254	-2	21	-2	1	-4	14
258	14	24	-13	-1	-4	20
262	0	17	0	-1	-7	9
266	10	10	37	-7	-8	42

Period StationNo.	Jan. - Apr. 1973 (73-92 days)	Apr. - Aug. 1973 (103-127 days)	Aug. - Oct. 1973 (48-64 days)	Oct. - Nov. 1973 (28-40 days)	Nov. 1973- Jan. 1974 (72-80 days)	Jan. 1973- Jan. 1974 (367-368 days)
H 270	8	26	-1	1	1	35
274	13	0	2	-2	-3	10
278	8	26	-1	3	-6	30
282	8	15	0	-1	0	22
286	1	-2	-3	1	-5	-8
290	4	4	-5	0	-4	-1
294	7	1	0	0	-6	2
298	-3	31	← 7 →		-11	24
300	29	0	1	-1	-5	24
302	3	8	2	-2	-5	6
306	-2	0	1	-1	-4	6
S 122	← 6 →		2	-2	-3	3
Z 2	10	-2	3	-3	-4	4
4	-1	1	-1	0	-4	-5
5	-1	0	5	-1	-2	1
6	← 0 →		1	-1	-4	-4
8	← 13 →		2	-3	-4	8
10	2	1	0	-1	-3	-1
12	3	4	3	-1	-6	3
14	0	20	0	-3	-8	9
16	-3	0	0	0	-5	-8
18	-1	← 10 →		-2	-6	1
20	14	4	0	0	-6	12
22	-1	25	13	-1	-10	26
24	3	-1	0	1	-4	-1
26	6	← 33 →		-3	-13	23
28	4	1	0	-1	-5	-1
30	0	4	6	-4	-7	-1
32	0	-1	0	0	-2	-3

Period Station No.	Jan. - Apr. 1973 (73-92 days)	Apr. - Aug. 1973 (103-127 days)	Aug. - Oct. 1973 (48-64 days)	Oct. - Nov. 1973 (28-40 days)	Nov. 1973- Jan. 1974 (72-80 days)	Jan. 1973- Jan. 1974 (367-368 days)
Z 34	0	1	1	-1	1	2
36	-3	3	34	-16	-8	10
38	0	0	10	-1	-13	-4
40	-1	0	2	-2	-3	-4
42	10	0	← -1 →		-5	4
44	1	-1	19	-3	-14	2
48	3	4	2	-1	2	10
52	11	1	0	-1	-7	4
56	-1	1	7	-2	-8	-3
60	0	-1	18	-6	-4	7
62	← 30 →			-2	-2	26
66	1	4	← -1 →		-6	-2
70	23	0	1	-11	-6	7
74	-1	0	0	0	4	3
76	10	-2	12	0		
78	0	← 1 →		-1		
80	0	2	21	-2	-10	11
82	-1	15	5	0	-8	11
84	← 0 →		0	-1	-3	-4
86	3	-3	0	-2	-2	-4
88	18	0	← 0 →		-4	14
90	-1	2	3	-3	-2	-1
92	4	1	1	-2	-1	3
94	9	9	1	-2	-5	12
96	19	-1	2	-2	-4	14
98	8	0	2	-2	-3	5
100	18	2	0	-2	-2	16
102	-2	12	← 0 →		4	14
104			0	0	-6	

Table 7. Net accumulation (cm in depth) at traverse survey stations along route H-Z.

Station No.	Sept. 1973-Jan. 1974 (125-137 days)	Station No.	Sept. 1973-Jan. 1974 (125-137 days)
H 97-1	2	H 283	-14
101-1	-17	289	-10
104-1	-6	291-1	-15
113-1	0	295-1	-9
114-1	-18	302	-10
124	-14	S 122	
127	-7	Z 2	-12
131-1	-10	4-1	-17
137	-6	6-1	-8
143	-4	8	-11
148-1	-8	11-1	-7
155	-7	15-1	-17
159	-9	19	-9
166	1	22-1	-13
174	-7	26	-13
178	3	29	-13
184	-8	31	-10
189	-4	33	-8
194	-3	35	-8
198	3	37	-7
201	-8	38-1	-16
207	4	39-1	-5
213	-9	42-1	-10
219	-5	46-1	-13
225	-12	53-1	-5
231	-2	60-1	-10
237	-6	66	-9
243	-7	70	-17
245-1	-8	73-1	-8
251-1	-12	75	-9
253	-6	79-2	-9
256	-9	81-2	-12
262	-9	85	-17
266	-7	88-1	-9
272	-10	90	-20
275-1	-12		

Table 8. Net accumulation (cm in depth) at a 200-stake farm of Mizuho Camp.

Period No. of stake	Jan. - Apr. 1973 (102 days)	Apr. - Sept. 1973 (147 days)	Sept. - Oct. 1973 (26 days)	Oct. - Nov. 1973 (40 days)	Jan. - Nov. 1973 (315 days)
202	0	- 1	0	1	0
201	- 2	0	0	0	- 2
200	- 6	1	0	- 1	- 6
199	- 5	2	0	0	- 3
198	- 5	16	3	- 4	9
197	- 1	2	13	1	15
196	8	0	20	- 2	26
195	1	1	23	-11	14
194	5	1	7	- 7	6
193	- 3	1	4	- 1	1
192	- 3	2	2	- 1	0
191	- 3	2	0	0	- 1
190	0	2	1	0	3
189	- 2	4	0	0	2
188	- 3	12	- 6	0	3
187	- 3	2	0	- 1	- 2
186	- 3	2	0	0	- 1
185	- 2	0	0	0	- 2
184	- 2	2	0	- 1	- 1
183	- 3	1	1	- 1	- 2
182	- 3	0	- 1	1	- 3
181	- 2	3	- 3	0	- 2
180	2	8	0	0	10
179	4	12	0	0	16
178	2	19	2	- 2	21
177	0	20	1	0	21
176	- 1	18	0	0	17
175	- 2	17	0	0	15
174	- 2	13	0	0	11
173	0	3	0	- 1	2
172	0	5	0	0	5
171	- 2		5	0	3
170	- 2	11	- 9	- 1	- 1
169	- 1	1	4	- 2	2

Period No. of stake	Jan. - Apr. 1973 (102 days)	Apr. - Sept. 1973 (147 days)	Sept. - Oct. 1973 (26 days)	Oct. - Nov. 1973 (40 days)	Jan. - Nov. 1973 (315 days)
168	5	- 4	0	0	1
167	- 3	3	4	- 2	2
166	5	- 1	0	0	4
165	- 4	4	4	0	4
164	- 2	9	2	0	9
163	- 3	7	0	0	4
162	1	3	0	0	4
161	- 3	8	0	- 2	3
160	3	4	0	- 2	5
159	7	0	0	0	7
158	0	0	0	0	0
157	0	0	0	0	0
156	- 4	2	0	- 2	- 4
155	- 3	4	- 4	- 1	- 4
154	0	0	0	0	0
153	6	0	0	0	6
152	1	6	1	- 4	4
151	- 2	9	8	- 7	8
150	- 5	11	2	- 2	6
149	- 5	5	8	- 1	7
148	8	0	11	1	20
147	2	1	14	5	22
146	- 9	4	23	3	21
145	-12	2	27	3	20
144	0	3	37	1	41
143	- 5	0	40	0	35
142	-10	2	36	-10	18
141	0	0	39	-11	28
140	- 1	4	36	-10	29
139	- 3	4	34	-12	23
138	- 1	1	38	-11	27
137	2	0	34	- 3	33
136	- 3	0	21	1	19
135	- 1	2	7	9	17
134	0	1	8	10	19
133	1	1	8	8	18

Period No. of stake	Jan. - Apr. 1973 (102 days)	Apr. - Sept. 1973 (147 days)	Sept. - Oct. 1973 (26 days)	Oct. - Nov. 1973 (40 days)	Jan. - Nov. 1973 (315 days)
132	1	1	16	0	18
131	1	8	12	0	21
130	- 2	3	17	- 7	11
129	0	0	13	- 1	12
128	- 2	0	12	- 4	6
127	- 2	- 8	19	- 2	7
126	- 1	2	4	5	10
125	- 2	1	0	4	3
124	4	1	0	1	6
123	0	1	0	0	1
122	- 1	1	0	0	0
121	0	0	0	0	0
120	2	3	0	0	5
119	13	0	0	- 1	12
118	12	1	0	- 1	12
117	4	0	0	0	4
116	- 1	2	0	- 1	0
115	- 1	0	0	0	- 1
114	6	2	0	- 1	7
113	5	2	0	- 2	5
112	- 3	1	0	- 2	- 4
111	- 1	1	- 1	0	- 1
110	- 2	1	0	0	- 1
109	- 2	-17	18	0	- 1
108	- 4	0	0	- 1	- 5
107	- 4	1	- 1	0	- 4
106	- 2	0	- 2	2	- 2
105	- 2	0	1	- 1	- 2
104	- 2	0	0	0	- 2
103	- 4	1	0	- 1	- 4
102	-10	2	4	- 4	- 8
1	2	14	- 1	0	15
2	3	13	1	- 1	16
3	1	8	1	- 1	9
4	- 1	17	1	- 1	16
5	4	14	0	2	20

Period No. of stake	Jan. - Apr. 1973 (102 days)	Apr. - Sept. 1973 (147 days)	Sept. - Oct. 1973 (26 days)	Oct. - Nov. 1973 (40 days)	Jan. - Nov. 1973 (315 days)
6	4	16	1	1	22
7	0	17	1	3	21
8	2	15	2	- 2	17
9	- 2	20	0	- 2	16
10	6	11	0	- 1	16
11	8	11	0	- 1	18
12	12	10	0	- 2	20
13	15	12	1	- 1	27
14	18	9	5	- 3	29
15	28	1	6	- 3	32
16	22	3	9	- 1	33
17	15	10	10	- 4	31
18	26	0	12	- 3	35
19	23	4	13	- 5	35
20	20	5	16	- 5	36
21	19	8	14	- 3	38
22	27	2	13	- 4	38
23	26	- 1	12	- 4	33
24	19	3	13	- 3	32
25	18	1	15	- 3	31
26	12	7	12	- 6	25
27	17	4	10	- 7	24
28	10	6	12	- 2	26
29	5	8	12	- 4	21
30	1	8	13	- 5	17
31	4	6	10	0	20
32	3	10	7	- 3	17
33	0	10	6	0	16
34	- 1	14	0	0	13
35	- 3	12	0	0	8
36	- 3	14	2	- 2	11
37	7	5	1	0	13
38	15	0	3	- 3	15
39	20	1	1	1	21
40	19	3	0	0	22
41	21	1	1	- 3	20

Period No. of stake	Jan. - Apr. 1973 (102 days)	Apr. - Sept. 1973 (147 days)	Sept. - Oct. 1973 (26 days)	Oct. - Nov. 1973 (40 days)	Jan. - Nov. 1973 (315 days)
42	32	0	0	- 1	31
43	25	1	0	- 1	25
44	14	0	0	0	14
45	9	0	1	- 4	6
46	- 4	- 1	1	- 1	- 5
47	0	0	0	- 1	- 1
48	1	0	0	0	1
49	0	0	0	0	0
50	- 1	0	1	- 1	- 1
52	3	8	0	- 2	9
53	9	12	0	- 5	16
54	8	16	0	- 1	23
55	5	16	0	0	21
56	1	22	1	0	24
57	5	17	1	4	27
58	14	10	0	6	30
59	14	7	1	9	31
60	19	6	0	9	34
61	19	5	1	12	37
62	20	5	0	12	37
63	20	6	0	12	38
64	20	2	0	8	30
65	19	2	0	8	29
66	19	3	1	7	30
67	22	2	0	4	28
68	19	1	0	2	22
69	16	0	1	5	22
70	8	7	0	6	21
71	10	7	0	6	23
72	7	15	1	0	23
73	16	2	0	2	20
74	19	6	0	- 1	24
75	18	5	0	- 3	20
76	18	6	0	0	24
77	17	8	- 1	- 1	23

Period No. of stake	Jan. - Apr. 1973 (102 days)	Apr. - Sept. 1973 (147 days)	Sept. - Oct. 1973 (26 days)	Oct. - Nov. 1973 (40 days)	Jan. - Nov. 1973 (315 days)
78	16	8	0	- 2	22
79	18	4	- 1	- 1	20
80	19	4	- 1	0	22
81	17	6	0	0	23
82	16	12	0	- 2	26
83	16	15	0	- 2	29
84	- 16	15	0	- 1	30
85	14	22	0	- 1	35
86	11	25	0	- 1	35
87	14	24	0	0	38
88	12	23	0	- 1	34
89	12	16	0	- 1	27
90	13	16	0	- 3	26
91	6	15	- 1	0	20
92	6	8	- 1	1	14
93	9	7	0	- 4	12
94	7	6	0	0	13
95	12	4	0	- 1	15
96	13	2	0	- 1	14
97	11	2	0	0	13
98	10	1	0	- 2	9
99	- 2	8	0	0	6
100	2	7	3	- 3	9
101	9	- 1	1	0	9

Table 9. Net accumulation (cm in depth) at a 200-stake farm of S122.

Period Stake No.	Jan. -Nov. 1973 (293 days)	Nov. 1973- Jan. 1974 (75 days)	Jan. 1973- Jan. 1974 (368 days)	Period Stake No.	Jan. -Nov. 1973 (293 days)	Nov. 1973- Jan. 1974 (75 days)	Jan. 1973- Jan. 1974 (368 days)
1	32	-4	28	42	0	0	0
2	39	-6	33	43	2	-4	-2
3	37	-2	35	44	-1	2	1
4	29	-1	28	45	5	-1	4
5	19	1	20	46	8	-5	3
6	11	14	25	47	8	-2	6
7	8	19	37	48	12	-6	6
8	9	19	28	49	18	-7	11
9	8	21	29	50	18	-4	14
10	9	18	27	51	17	-5	12
11	12	13	25	52	24	-9	15
12	6	24	30	53	24	-2	22
13	11	18	29	54	25	-5	20
14	10	19	29	55	22	-6	16
15	10	20	30	56	21	-4	17
16	11	17	28	57	28	-7	21
17	10	13	23	58	24	-3	21
18	13	11	24	59	36	-15	21
19	14	10	24	60	26	-4	22
20	18	9	27	61	21	-3	18
21	23	9	32	62	23	-3	20
22	19	4	23	63	24	-4	20
23	19	7	26	64	27	-6	21
24	21	6	27	65	25	-3	22
25	18	7	25	66	31	-5	26
26	18	4	22	67	35	-5	30
27	17	8	25	68	35	-6	29
28	22	0	22	69	37	-7	30
29	35	-7	28	70	30	-6	24
30	38	-7	31	71	33	-6	27
31	39	-6	33	72	34	-7	27
32	37	-6	31	73	33	-6	27
33	34	-3	31	74	36	-6	30
34	28	0	28	75	32	-5	27
35	26	3	29	76	33	-5	28
36	16	-5	11	77	33	-5	28
37	11	-1	10	78	35	-6	29
38	11	-4	7	79	37	-5	32
39	2	-3	-1	80	33	-7	26
40	-1	2	1	81	29	-5	24
41	-1	6	5	82	30	-4	26

Period Stake No.	Jan. -Nov. 1973 (293 days)	Nov. 1973- Jan. 1974 (75 days)	Jan. 1973- Jan. 1974 (368 days)	Period Stake No.	Jan. -Nov. 1973 (293 days)	Nov. 1973- Jan. 1974 (75 days)	Jan. 1973- Jan. 1974 (368 days)
83	32	-5	27	175	-3	6	3
84	29	-8	21	174	1	-4	-3
85	26	-5	21	173	3	-5	-2
86	28	-6	22	172	14	-16	-2
87	25	-6	19	171	12	-6	6
88	25	-6	19	170	23	-10	13
89	18	-4	14	169	13	-12	1
90	19	-5	14	168	14	-7	7
91	20	-4	16	167	14	-8	6
92	14	-3	11	166	10	0	10
93	17	-7	10	165	7	-2	5
94	5	-3	2	164	6	-7	-1
95	1	-5	-4	163	20	-8	12
96	3	-5	-2	162	10	-5	5
97	3	-4	-1	161	8	-7	1
98	2	-3	-1	160	7	-6	1
99	3	-4	-1	159	2	-4	-2
100	4	-5	-1	158	2	0	2
200	20	-5	15	157	-1	-3	-4
199	21	-5	16	156	6	-7	-1
198	25	-5	20	155	7	-6	1
197	21	1	22	154	8	-7	1
196	33	-1	32	153	17	-7	10
195	28	-5	23	152	4	-3	1
194	23	-6	17	151	-3	-5	-8
193	25	-5	20	150	8	-5	3
192	27	-6	21	149	2	-4	-2
191	26	-2	24	148	0	-6	-6
190	21	-3	18	147	8	-4	4
189	19	-3	16	146	5	-2	3
188	21	-6	15	145	-2	-2	-4
187	23	-3	20	144	-11	-3	-14
186	30	-9	21	143	-3	-3	-6
185	40	-6	34	142	5	-4	1
184	23	3	26	141	13	-7	6
183	19	0	19	140	25	-11	14
182	17	3	20	139	27	-8	19
181	4	2	6	138	24	-7	17
180	7	4	11	137	28	-11	17
179	5	0	5	136	33	-9	24
178	5	0	5	135	27	-7	20
177	2	3	5	134	23	-14	9
176	-1	6	5	133	23	-10	13

Period Stake No.	Jan. -Nov. 1973 (293 days)	Nov. 1973- Jan. 1974 (75 days)	Jan. 1973- Jan. 1974 (368 days)	Period Stake No.	Jan. -Nov. 1973 (293 days)	Nov. 1973- Jan. 1974 (75 days)	Jan. 1973- Jan. 1974 (368 days)
132	24	-4	20	116	-4	-4	-8
131	22	6	28	115	-3	-4	-7
130	22	-8	14	114	-3	-5	-8
129	11	-4	7	113	-2	-6	-8
128	8	-6	2	112	-3	-5	-8
127	4	-5	-1	111	-4	-5	-9
126	0	-6	-6	110	-5	-6	-11
125	-2	-6	-8	109	-4	-7	-11
124	-4	-4	-8	108	-4	-5	-9
123	-1	-7	-8	107	-7	-5	-12
122	-3	-5	-8	106	-3	-4	-7
121	-4	-5	-9	105	-2	-5	-7
120	-5	-4	-9	104	2	-5	-3
119	-4	-4	-8	103	2	-7	-5
118	-5	-5	-10	102	5	-8	-3
117	-4	-6	-10	101	1	-6	-5