(*continued*)

mean J.D.	31. mean brightness	*n*	36. mean brightness	*n*	mean J.D.	31. mean brightness	*n*	36. mean brightness	*n*
	s		s			s		s	
2426076·60	9·7	1	F	1	2426241·30	2·4	2	> 9·9	2
88·55	0·5	2	9·0:	1	42·30	4·4	2	> 9·9	3
90·56	1·2	2	F	2	43·30	5·2	2	> 9·9	1
93·54	6·0	2	> 9·9	2	44·25	7·0	1		
94·53	8·0	2	F	2	46·23			3·6	3
6103·58	4·5	2	7·2	2	48·24	8·0	1	3·2	2
18·58	5·1	2	F	2	63·29	9·3	1	> 9·9	2
20·58	1·8	2	F	2	65·26	3·4	2	> 9·9	2
22·58	5·3	2	4·2	2	66·32	4·4	2	> 9·9	2
23·50	8·0	4	3·3	4	67·34	6·8	2	> 9·9	1
25·57	9·8	2	2·4	2	68·30	7·4	2	5·4	2
29·45	8·6	2	4·2	2	73·31	9·3	1	9·9:	1
53·50	8·4	2	F	2	6475·52	10·0	2	4·2	2
55·60	6·5	2	F	2	76·57	9·1	2	6·9	2
5[illegible]·32	5·3	2	F	2	80·50	10·2	2	F	2
60·54	0·5	2	F	2	86·52	9·3	1	F	1
61·53	1·0	2	F	2	6540·44	2·3	2	F	2
76·45	7·2	2	F	2	59·32	9·3	2	> 9·9	2
6210·26	7·5	2	12·4:	2	61·52	9·8	2	F	2
11·25	7·5	2	12·4:	2	65·48	5·7	2	F	2
12·33	6·8	8	F	8	67·28	8·0	2	F	2
13·35	6·3	5	F	6	68·28	7·8	2	11·4:	2
14·32	4·5	5	F	5	69·37	9·2	15	F	15
18·33	7·8	2	4·5	2	70·38	9·2	14	F	15
19·26			4·2	1	71·27	10·2	2	> 9·9	1
35·24	9·0	2	8·1	1	72·27	8·8	2	4·2	2
36·30	8·6	2	9·9	2	73·36	9·2	14	3·2	15
37·28	9·3	2	10·9	2					
38·29	10·0	2	> 9·9	2					
39·28	10·6	2	10·9	2					
40·28	6·6	4	> 9·9	4					

F invisible on good plate
> fainter than
: uncertain estimate

Discussion of proper motions in the region of the Hyades, by *W. Chr. Martin.*

On account of the large number of proper motions published during the last two years the search for physical Hyades can be made almost complete down to $8^m{\cdot}4$ (A.G.).

This is done in the present paper. Within 15° from ϑ Tauri there are about 2950 A.G. stars; for 2500 of these proper motions were available. For only 64 stars with m (A.G.) $\leq 8{\cdot}4$ (of which 8 with $m \leq 7{\cdot}9$) no proper motions could be found.

For stars which might be Hyades according to their p.m., all data about p.m., magn., spectrum and rad. vel. were collected in a card catalogue. All known Hyades were included, also many stars between α 2^h to 6^h and δ −2° to + 32°.

For each star the theoretical p.m. was calculated assuming the convergent point at α 92°·6, δ + 6°·9 (1855) and $|\mu| = {\cdot}108\ ''/y$ at α 64°·9, δ + 15°·4.

The residuals $\eta = \mu_o \sin(\psi_c - \psi_o)$ and $\xi = \mu_o \cos(\psi_c - \psi_o) - \mu_c$ were then determined. ψ is the position angle of μ.

In a ξ, η plane 4 ellipses were drawn with resp. $a = 22$ and $b = 16$; 27·5 and 20; 33 and 24; 44 and 32 (unit ·001 ″/*y*).

The stars were then classified as follows:

residual point in 1st ellipse:
H = Hyade.
" " between 1st and 2nd ell.:
VP = very propable Hyade.
" " " 2nd and 3rd ell.:
P = propable "
" " " 3rd and 4th ell.:
D = doubtful "

For a H star a m.e. was allowed of ± 15, an internal motion of ± 5, and a distance effect of ± 15, thus giving a spread in the ξ coordinate of ± 22. (unit ·001 ″/*y*).

In the η coordinate there is no distance effect.

For the classification as given in the table the rad. vel., spectrum and magn. were also considered.

TABLE: *column* 1: B.D. number or number in *Gron. Publ.* 14; a — indicates that the zone number is 1 lower than the number of degrees in δ.

Column 2: visual and photographic magnitude in the system of the *Göttinger Aktinometrie* (see *A.N.* 5000).

m_v. The magnitudes given in *H.A.* 50, 54, 70 and 74 (H); Potsdam Photometrie (P) and *A.N.* 5265 Graff (Gr) were reduced to:

$$H' = 6 + (H - 6)/1{\cdot}02$$
$$P' = 6 + (P - 6{\cdot}33)/1{\cdot}06$$
$$Gr' = 6 + (Gr - 6)/1{\cdot}02$$

and then the mean was taken. B.D. or uncertain magnitudes are placed in parentheses.

m_p. $\delta < 20°$: *A.N.* 5000, *Gött. Akt.*, *Gron. Publ.* 35.

$\delta > 20°$: Yale A.G. repetition.

Column 4 *and* 5: $\mu_\alpha \cos\delta$ and μ_δ in seconds of arc per year and source from which the p.m. has been taken.

S = Schorr, *Eigenbewegungs-Lexikon.*

S1, etc. *Nachträge zum E B L.*

B = L. Boss *P.G.C.* 1910.

Gr = Greenwich. Cat. of stars for 1910. +24° to +32°.

G′ = G_{13} reduced to the P.G.C. system.

G″ = G_{14} ,, ,, ,, ,, ,,

G‴ = G_{35} ,, ,, ,, ,, ,,

G13 = *Gron. Publ.* 13, etc.

The corrections used to reduce the p.m. in Gron. Publ. to the P.G.C. system were:

μ_x :		μ_y :	
G′ = G13 +	″·020	G′ = G13 −	″·005
G″ = G14 +	·020	G″ = G14 −	·005
G‴ = G35 +	·010	G‴ = G35 −	·010

G = mean of G′, G″ and G‴ with weights 4, 1 and 2.

g = mean of G″ and G‴ with weights 1 and 2.

Y = *Yale transactions:* V −2° to +1°, X +20° to +25° and IX +25° to +30°.

J.O. = *Journal des Observateurs.* 1934.

b = *B.A.N.*

In most cases when two or more p.m. were available the first was selected in the sequence: B, Y, G, J.O., S7 to S, g, b.

Column 6: residuals from the calculated p.m. along axes in the direction of the convergent and perpendicular to this.

Column 7: V_o = observed rad. vel., taken from MOORE: *Gen. Cat*, Lick 1932.

v = variable rad. vel. S = spectroscopic binary.

V_c = calculated rad. vel. for the stream velocity 43 km/sec.

Column 8: spectrum: mean value of those given in H.D., MOORE: *Gen. Cat.* and *A N* 5055, KOHLSCHÜTTER.

Column 9: classification.

: indicates that the p.m. was uncertain.

? indicates that other data, e.g. Sp, contradict the given classification.

In the region 7^h30 to 9^h and 0° to +20°, the reflected image of the Hyades region with respect to the line through the two vertices of the star streams, an analogous search for "reflected" Hyades was made, the results are compared in the following table. With the aid of this table the number of spurious Hyades motions can be estimated.

region	Hyades region N	H VP	P	D	region 7^h30 to 9^h N	—H —VP	—P	—D
3^h20 to 4^h0 +14 to +23	400	4	0	3	400	1	3	2
4^h0 to 4^h40 +11 to +20	400	70	4	8	400	3	1	4
4^h40 to 5^h0 +10 to +19	200	16	0	0	200	3	2	—

N gives the number of p.m. used.

Only stars brighter than $9^m{\cdot}5$ have been used, so that the magnitudes in the two regions are comparable.

For stars with $\alpha \geq 5^h$ the classification according to the p.m. is of little value; here the radial velocity becomes of great importance. These stars have not been omitted from the table for the sake of completeness, though the major part may have spurious Hyades motions. Their classification in the table has therefore been placed between parentheses.

TABLE

B.D. or Gron. 14	m_v	m_p	position 1935·0 α m s	δ ° ′	μ_x μ_y ″/year	Author	O — C η	ξ	V_o	V_c	Sp	Class
			First part: stars with distances from ϑ Tau < 15°									
			3^h	+						+		
— 598	(9·0)	10·2	33 47	+ 21 7·8	·134 — ·052	Y	— ·018	— ·008		33	G5	VP
571	(9·5)		47 9	+ 23 42·6	146 — 48	b 195	+ 3	+ 9		33		H
— 523	5·98	6·30	49 26	+ 17 8·2	143 — 33	B	— 5	+ 11	31·6	35	A9	H
641	8·78	8·93	56 50	+ 20 12·1	156 — 40	S5	+ 5	+ 26		35		VP
— 666	5·82	6·20	57 3	+ 18 0·8	136 — 37	B	— 3	+ 9		35	Fo	H
			4^h									
— 592	5·50	5·80	0 25	+ 8 1·2	159 + 12	B	+ 9	+ 36	34·8	36	F1	H
582	7·92		2 33	+ 15 31·5	110 — 10	S5	+ 12	— 15		36	Go	VP
657s	6·00	6·38	4 1	+ 14 59·5	134 — 18	S7	+ 6	+ 12		36	Fo	H
672	5·54	6·76	5 22	+ 19 26·4	106 — 43	B	— 9	— 13	24·0	36	G8	H?
594	6·61	7·01	6 56	+ 18 15·4	114 — 26	S7	+ 7	— 7	31	36	F8	H
601	5·75	6·04	7 52	+ 5 21·4	142 + 13	B	0	+ 25	35·8 v	37	F2	H
649	8·0	8·58	10 38	+ 23 24·8	130 — 46	Y	+ 12	+ 9		36	G5	H
657	6·93	7·35	10 38	+ 22 17·4	98 — 47	Y	— 6	— 17		36	F2	H:
673	8·42	9·1	10 45	+ 14 27·9	123 — 25	S7	— 5	+ 8		37	G4	H
566	8·3		10 50	+ 12 16·5	130 ·0	JO	+ 16	+ 13		37	Go	H
721	8·1	8·47	11 52	+ 20 39·6	105 — 56	S7	— 17	— 5		36	Go	VP
603	6·28	6·71	12 4	+ 15 14·6	122 — 25	B	+ 1	+ 7		37	F5	H
612	(9·0)	9·65	12 42	+ 21 44·9	111 — 49	Y	— 3	— 2		36	G5	H
577	8·25	8·94	13 55	+ 16 47·4	114 — 23	JO	+ 7	0	37·7 S	37	G6	H
618	5·54		14 32	+ 21 25·4	104 — 39	B	+ 3	— 11	26: v	36	A6	H
609	9·72	10·44	14 36	+ 15 55·8	137 + 2	g	+ 33	+ 17	41	37	K4	H
694	8·6		15 9	+ 19 45·0	95 — 27	S7	+ 5	— 22		37	G5	VP
612	3·84	4·92	16 5	+ 15 28·4	117 — 27	B	+ 1	+ 8	38·5	37	G8	H
579	6·88	7·45	16 11	+ 16 22·2	109 — 27	S7	+ 2	— 2	36·6	37	Go	H
633	5·51	5·92	16 17	+ 13 52·9	118 — 28	B	— 7	+ 10	40: v	38	F1	H
— 623	7·7		16 25	+ 19 4·9	130 — 35	S7	+ 7	+ 16		37	F9	H
624	6·02	6·50	16 37	+ 18 35·5	109 — 60	S7	— 23	+ 5		37	F3	H?
682	5·22	5·54	16 54	+ 14 56·5	113 — 33	B	— 8	+ 6	29: v	38	Fo	H
665	6·18	6·67	17 13	+ 13 42·7	111 — 23	S7	— 3	+ 3		38	F4	H
740	6·78	7·08	17 41	+ 20 53·2	106 — 38	Y	+ 5	— 8		37	F8	H
629	6·77	7·16	17 45	+ 18 15·9	103 — 37	S7	— 4	— 6		37	F6	H
687	6·76	7·03	17 54	+ 14 15·4	126 — 20	S7	+ 5	+ 17		38	F3	H
668	5·68	6·10	18 23	+ 13 55·5	114 — 31	B	— 8	+ 9	36: v	38	A6	H
— 671	10·08	10·5	19 0	+ 14 5·5	116 — 34	g	— 11	+ 10		38		H
690	7·16	7·55	19 2	+ 14 54·4	111 — 31	S7	— 6	+ 5	37·7 S	38	Go	H
712	3·96	4·95	19 11	+ 17 23·6	110 — 33	B	0	+ 2	38·3	38	G9	H
635	9·1	9·33	19 31	+ 21 13·8	97 — 58	Y	— 15	— 7		37	G5	H
654	7·10	7·56	19 34	+ 24 15·3	101 — 56	Y	— 3	— 6	34	36	F5	H
708	9·25		19 34	+ 19 30·5	89 — 31	b1	+ 1	— 21		37		H:
586	5·66	6·02	19 41	+ 16 37·6	109 — 32	B	— 2	+ 1	36·4 S	38	A5	H
714	4·86	5·02	20 20	+ 17 17·8	118 — 41	B	— 5	+ 13	36·6 v	38	A7	H
641	(8·0)	7·49	20 23	+ 21 35·3	115 — 68	Y	— 15	+ 14		37	F5	VP
715	9·80	10·73	20 31	+ 17 51·4	120 — 31	g	+ 7	+ 12		38		H
591	7·13	7·38	20 37	+ 16 55·9	101 — 40	JO	— 11	— 3	43·0	38	F7	H
592	7·75	8·36	20 44	+ 16 44·3	128 — 29	G	+ 8	+ 20	43·8	38	Go	H
633	6·03	6·37	21 9	+ 18 54·8	107 — 63	B	— 24	+ 7	36·1	37	Fo	H
593	10·13	10·7	21 16	+ 16 50·3	92 — 17	g	— 9	— 17		38		H
— 642	4·37		21 28	+ 22 8·8	102 — 48	B	0	— 6	41	37	A3	H
— 643	5·34		21 31	+ 22 3·2	117 — 60	B	— 4	+ 15	30:	37	A8	H
719	4·32	4·44	21 43	+ 17 46·9	107 — 25	B	+ 9	— 1	35·2	38	A2	H
621	6·53	7·01	21 54	+ 15 47·7	111 — 29	B	0	+ 6	38·5	38	F8	H
721	9·03	9·7	22 1	+ 17 52·3	112 — 35	g	+ 2	+ 7		38	Ko	H
636	7·56	8·20	22 4	+ 18 43·1	117 — 39	S7	+ 2	+ 10	42·3	38	G2	H
624	7·57	8·07	22 23	+ 15 22·8	103 — 32	S7	— 6	0	41	38	F9	H
696	4·36		22 24	+ 22 40·2	113 — 52	B	+ 3	+ 5	33: v	37	A4	H
644	7·35	7·70	22 27	+ 21 19·6	107 — 48	Y	0	0		37	F8	H
— 690	7·31		22 29	+ 5 0·2	93 + 9	S7	0	— 12		38	F5	H
625	4·58	4·89	22 37	+ 15 28·4	114 — 27	B	+ 2	+ 10	3:: v	38	A6	H
598	8·02	8·62	22 40	+ 16 42·5	81 — 20	JO	+ 3	— 27		38	G1	H
601	8·11	8·71	22 56	+ 16 36·1	121 — 25	g	+ 10	+ 14	40·6	38	G2	H
G 205	11·01	11·4	23 50	+ 15 13·3	85 — 33	g	— 12	— 15		38		H
627	7·59	7·98	23 53	+ 15 26·7	107 — 32	G	— 4	+ 5	40·3	38	Go	H
699	9·37	10·30	24 6	+ 14 16·4	116 — 30	g	— 5	+ 13	46	38	K3	H
647	5·71	5·72	24 9	+ 21 28·6	109 — 45	B	+ 3	+ 3	36	37	A6	H

TABLE (*continued*).

B.D. or Gron. 14	m_v	m_p	position 1935·0 α m s	δ ° ′	μ_x μ_y ″/year	Author	O − C η	ξ	V_o	V_c	Sp	Class
First part: stars with distances from ♃ Tau < 15°												
			4h		+					+		
702	5·92	6·25	24 41	+ 14 35·9	·110 — ·021	B	+ ·004	+ ·006	51 v?	38	F1	H
727	(8·8)		24 48	+ 19 35·9	119 — 58	S7	— 10	+ 20		38	G5	VP
— 640	3·69	4·82	24 48	+ 19 2·3	114 — 38	B	+ 4	+ 9	38·8	38	G9	H
631	3·90	4·99	24 51	+ 15 49·2	104 — 28	B	0	+ 1	40·5 v	38	G9	H
632	3·54	3·74	24 57	+ 15 43·8	104 — 25	B	+ 3	0	42·6 S	38	A9	H
— 606	7·72	8·42	25 3	+ 17 8·6	115 — 34	G	+ 2	+ 12		38	Go	H
G 229	10·52	11·4	25 6	+ 16 8·7	94 — 22	g	+ 6	— 10		38		H
598	5·14	5·30	25 11	+ 12 54·3	110 — 18	B	+ 2	+ 6	33	38	A5	H
— 633	6·68	7·13	25 16	+ 16 1·1	115 — 35	G	— 2	+ 13		38	F9	H
722	(9·0)	9·68	25 31	+ 26 31·9	92 — 55	Y	+ 2	— 15		36	G5	H
731	6·98	7·47	25 34	+ 17 24·2	101 — 23	JO	+ 10	— 5	37	38	F9	H
732	6·92	7·28	25 44	+ 17 43·3	83 — 11	S7	+ 17	— 26	34	38	F8	H
734	(9·3)		25 45	+ 17 45·1	120 — 33	S7	+ 7	+ 16		38		H
— 634	10·07	11·14	25 47	+ 16 6·4	97 — 24	g	+ 4	— 6		38		H
609	9·04	9·87	26 12	+ 16 30·9	123 — 26	g	+ 11	+ 20		38	Ko	VP
636	5·66	5·91	26 25	+ 15 29·9	106 — 12	B	+ 17	— 1	29:	38	Fo	H
731	7·20		26 29	+ 19 42·1	90 — 38	S7	— 1	— 14		38	F5	H
638	8·86	9·48	26 41	+ 15 35·3	108 — 26	g	+ 3	+ 6		38	Ko	H
— 637	4·80	5·00	26 49	+ 16 3·2	113 — 32	B	+ 1	+ 11	38 v	38	A6	H
639	5·44	5·80	26 56	+ 15 33·1	106 — 30	B	— 1	+ 5	39·2	38	A7	H
690	5·44	5·75	26 57	+ 13 35·1	108 — 20	B	+ 1	+ 6	39·1	38	Fo	H
— 640s	6·62	6·94	27 3	+ 16 0·5	107 — 35	G	— 4	+ 7	43·1	38	F4	H
588	7·10		27 21	+ 10 36·7	117 — 3	S7	+ 9	+ 15		39	F5	H
733	8·4		27 26	+ 19 59·8	102 — 34	S7	+ 8	— 2		38	G5	H
645	6·02	6·38	28 8	+ 15 42·9	106 — 31	B	— 2	+ 7	41:	38	Fo	H
674	6·36	6·79	28 37	+ 5 16·4	109 + 5	S7	— 4	+ 9		39	F2	H
647	8·61	9·29	29 16	+ 15 41·0	112 — 33	g	— 1	+ 14	39·4	39	G6	H
620	9·27	10·2	29 53	+ 16 37·7	117 — 22	g	+ 14	+ 14		38	G5	VP
— 608	6·58	7·07	30 7	+ 13 7·1	113 — 37	S7	— 14	+ 17		39	F2	VP
720	4·68	4·99	30 8	+ 14 42·6	101 — 26	B	— 1	+ 2	25:: v	39	A6	H
— 721	8·46	9·25	30 16	+ 15 1·8	98 — 21	S7	+ 4	— 2	37	39	K1	H
650	9·48	10·47	30 48	+ 15 41·6	103 — 19	g	+ 11	+ 2		39	Ko	H
667	(9·0)	9·39	30 50	+ 27 56·0	80 — 70	Y	— 10	— 16		37	F5	H?
630	10·58	11·4	32 16	+ 16 24·6	99 — 40	S1	— 7	+ 6		39		H
654	9·26	10·08	32 22	+ 15 33·1	115 — 24	g	+ 9	+ 17		39	Ko	H
715	5·96	5·97	32 34	+ 23 12·7	96 — 62	S7	— 7	+ 4		38	F2	H
656	6·61	7·09	32 57	+ 15 44·3	99 — 42	G	— 11	+ 7		39	F8	H
— 728	7·70	8·12	33 50	+ 15 1·0	87 — 24	JO	0	— 8		39	Go	H
661	5·80	6·16	34 25	+ 15 54·2	90 — 29	B	0	— 4	38·2	39	Fo	H
618	4·40	4·51	34 31	+ 12 23·0	88 — 17	S	— 1	— 7	50: v	39	A3	H
666	4·74	4·89	35 33	+ 15 47·5	82 — 20	B	+ 5	— 14	22: v	39	A5	H
681	5·46	5·68	35 34	+ 7 44·6	82 — 1	B	— 1	— 10	30: v	39	A9	H
722	9·0	9·75	36 10	+ 23 10·7	79 — 52	Y	— 4	— 15		38	Ko	H
— 762	9·57		38 51	+ 20 5·9	76 — 51	b1	— 13	— 11		38		H:
— 621	5·34	5·70	40 49	+ 11 1·6	97 — 14	B	0	+ 8	39·3	40	A4	H
646	5·40	5·62	42 25	+ 11 35·3	66 — 1	B	+ 9	— 25	39	40	A1	H
719	6·00	7·39	42 29	+ 18 37·3	66 — 63	B	— 29	— 9	38·3	39	K1	H?
759	7·06	7·75	43 12	+ 8 54·0	109 — 1	S7	+ 4	+ 21		40	F5	H
— 786	8·2		43 50	+ 18 8·7	101 — 51	S7	— 5	+ 19		39	Go	H
692	9·1	10·4	45 14	+ 24 41·5	91 — 74	Y	— 6	+ 11		38	K5	H
686	7·88		45 48	+ 15 46·7	85 — 33	S7	— 2	+ 2		40	F8	H
— 657	7·11	7·67	46 38	+ 17 5·6	87 — 41	S7	— 3	+ 6	41	40	F8	H
770	8·2		46 50	+ 14 58·5	80 — 18	S7	+ 8	— 7		40	G5	H
— 692	7·26	7·77	47 4	+ 16 6·1	101 — 20	JO	+ 16	+ 12		40	F8	VP
— 725	(8·9)		47 4	+ 14 6·4	80 — 6	S7	+ 16	— 9		40	Go	VP
743	5·10	5·35	47 34	+ 18 43·9	84 — 36	B	+ 5	— 1	30:	39	A8	H
654	6·72	7·30	47 36	+ 10 57·5	96 — 15	S7	0	+ 12	38·6	40	F7	H
728	6·44	6·79	48 10	+ 13 32·9	79 — 19	S7	+ 2	— 5	38·3	40	F6	H
668	8·87		50 16	+ 10 13·7	62 — 22	S7	— 14	— 17		40		VP
807	9·8		50 34	+ 17 30·3	61 — 31	S7	— 2	— 19		40	F8	H
749	8·5		53 8	+ 13 54·1	82 — 36	S7	— 8	+ 8		40	G5	H
771	8·6	8·91	55 38	+ 26 9·3	56 — 66	Y	— 12	— 15		38	G5	VP
713	6·65	7·19	56 0	+ 15 49·3	98 — 34	B	+ 5	+ 22	43·9	40	F5	H
751	4·69		59 12	+ 21 29·9	67 — 47	B	0	— 8	43·6	40	A5	H
783	(9·3)		59 27	+ 13 38·5	59 — 11	S7	+ 8	— 17		41	Ko	H

TABLE (*continued*).

B.D. or Gron. 14	m_v	m_p	position 1935·0 α m s	δ ° ′	μ_x μ_y ″/year	Author	O — C η	ξ	V_o	V_c	Sp	Class
First part: stars with distances from ♃ Tau < 15° (*continued*)												
			5h		+				+	+		
743	5·42	5·70	5 45	+ 9 44·9	·074 — ·006	B	+ ·004	+ ·007	38·8	41	A4	H
865	7·59	8·49	8 37	+ 6 46·9	40 + 4	S7	+ 3	— 23		42	Ko	VP:
			3h									
— 461	(8·3)		31 44	+ 11 10·9	176 — 16	S5	— 10	+ 30		32	F8	P
			4h									
674	(9·0)	9·56	2 2	+ 25 36·8	129 — 42	Y	+ 23	— 4		34	G5	P
— 703	7·5	8·18	14 16	+ 18 6·0	86 — 39	S7	— 12	— 24		37	G5	P
616	10·38	11·2	19 42	+ 15 36·8	134 — 42	g	— 9	+ 30		38		P
589	8·29	8·79	20 29	+ 16 13·8	101 — 25	g	+ 3	— 7		38	Go	P
G 215	10·94	11·8	24 26	+ 16 19·8	131 — 23	g	+ 15	+ 25		38		P
G 283	10·79	11·6	28 9	+ 15 21·7	131 — 25	g	+ 10	+ 30		38		P
646	8·81	9·6	29 6	+ 15 52·2	101 — 53	S7	— 23	+ 8		38	Ko	P
640	9·23	10·56	36 41	+ 16 23·4	63 — 31	S7	— 8	— 28		39	Ko	P
723	8·8	9·18	36 53	+ 23 41·1	69 — 72	Y	— 26	— 13		38	G5	P
— 754	9·66		37 37	+ 20 9·2	66 — 50	b1	— 15	— 22		38		P:
694	9·1		42 7	+ 21 8·9	96 — 27	S7	+ 23	— 3		39	G5	P
			3h									
575	(7·9)	7·58	46 12	+ 22 23·7	165 — 69	Y	— 17	+ 36		34	F5	D
529	(9·0)		51 23	+ 16 48·7	163 — 35	S5	— 2	+ 34		35		D
— 625	(7·7)		56 37	+ 14 4·3	94 0	JO	+ 13	— 36		36	F5	D
			4h									
570	(9·0)		9 26	+ 16 36·3	141 — 50	S7	— 16	+ 28		37		D
G 19		10·0	14 44	+ 14 22·3	88 — 39	G″	— 22	— 20		37		D
675	7·19	8·21	16 9	+ 23 26·7	152 — 50	Y	+ 19	+ 35		36	G 5	D
585	7·90	8·50	19 0	+ 16 38·4	137 — 46	S7	— 9	+ 31		38	G 5	D
G 58		10·3	18 11	+ 17 12·8	85 — 46	G″	— 20	— 19		38		D
G 190	10·95	11·5	23 20	+ 15 13·7	62 — 18	g	— 2	— 43		38		D
614	7·36	8·02	24 9	+ 11 35·6	134 — 5	S7	+ 12	+ 29		38	F8	D
716	11·21	11·0	28 13	+ 14 32·6	77 — 46	g	— 28	— 18		39		D
649	8·28	9·02	29 55	+ 15 49·6	88 — 58	G	— 31	— 2		38	G 5	D
651	8·02	8·50	30 53	+ 15 22·3	111 — 44	G	— 12	+ 17		39	F8	D
G 313		9·9	32 38	+ 16 43·6	123 — 18	g	+ 22	+ 21		39		D
662	9·63	10·2	34 35	+ 15 19·4	86 — 2	g	+ 22	— 16		39	Ko	D
— 721	(8·4)	8·00	34 56	+ 23 1·4	123 — 61	Y	+ 8	+ 27		38	F5	D
747	(8·6)	8·58	45 52	+ 23 17·2	52 — 52	Y	— 14	— 30		39	Go	D
706	(8·6)	10·3	47 28	+ 28 31·4	106 — 61	Y	+ 26	— 7		38	Ko	D
713	(8·8)	8·89	50 22	+ 28 42·5	50 — 61	Y	— 10	— 32		37	F5	D
811	6·28	6·64	51 9	+ 19 23·0	45 — 35	S7	— 10	— 34		39	Fo	D
765	(8·2)		51 55	+ 5 31·9	103 + 34	S7	+ 25	+ 27		41	F8	D
			5h									
897	7·72	8·21	6 55	+ 20 29·3	49 — 18	Y	+ 15	— 32		40	Fo	D
Second part: stars with distances from ♃ Tau > 15°												
			2h		+				+	+		
373	5·74	5·65	12 3	+ 25 29·0	·185 — ·060	B	— ·036	— ·002	25·8	20	F3	H
374	9·20		46 55	+ 10 21·8	166 + 10	JO	+ 10	— 16		27	G5	H
503	(9·0)	9·37	53 51	+ 29 24·1	193 — 64	Y	— 8	— 18		25	G5	H
480	5·80	5·60	54 21	+ 20 24·6	220 — 31	B	0	+ 39	27·9	28	F1	H
			3h									
456	(7·9)		12 33	+ 11 23·3	195 — 1	S5	+ 2	+ 34		31	G5	H
465	8·8	9·47	29 0	+ 23 28·5	169 — 45	Y	+ 4	+ 20		32	G5	H
512	9·3		37 35	+ 3 22·1	134 + 10	S5	— 8	— 8		34	Go	H
			4d									
— 697	8·4		38 15	— 0 52·2	78 + 21	Y	— 6	— 14		39	F2	H::
873	(9·2)		47 34	+ 0 27·6	82 + 17	S7	— 10	— 2		40		H
743	8·4		49 46	— 1 22·2	88 + 28	Y	— 11	+ 7		40	A	H::?
815	(8·5)		55 21	— 0 48·1	85 + 26	Y	— 8	+ 10		40		H::
916	9·1		56 59	+ 0 54·6	66 + 17	S7	— 4	— 10		41	F5	H

TABLE (*continued*).

B.D. or Gron. 14	m_v	m_p	position 1935·0 α m s	δ ° ′	μ_x μ_y ″/year	Author	O — C η	ξ	V_o	V_c	Sp	Class
Second part: stars with distances from ♆ Tay > 15° (*continued*)												
			4h		+				+	+		
823	8·9		57 29	— 0 35·8	·081 + ·030	Y	— ·002	+ ·008		41	Ao	H::?
846	(8·9)		57 39	+ 31 32·5	61 — 69	Gr	+ 4	— 20		37		H:
			5h									
902	(8·2)		16 58	+ 23 58·4	60 — 60	S7	+ 5	0		40	F2	(H?)
783	8·7	9·66	18 42	+ 28 41·3	48 — 74	Y	— 6	— 9		39	F8	(H)
936	(9·5)	11·0	31 9	+ 29 13·8	34 — 75	Y	— 1	— 11		39		(H)
822	5·47	5·69	33 18	+ 16 60·1	54 — 35	B	+ 11	+ 6	41·9	42	A5	H
981	8·6		35 11	+ 23 15·1	52 — 60	S7	+ 14	+ 4		41	F8	(H)
899	(8·9)	9·59	36 43	+ 26 58·9	32 — 83	Y	— 6	+ 5		40	Go	(H)
907	(8·9)	9·54	38 22	+ 26 53·7	35 — 91	Y	— 5	+ 15		40	F8	(H)
964	8·88		39 22	+ 13 7·0	45 — 37	S7	— 4	+ 16		42	F5	(H)
970	8·44		45 30	+ 9 52·4	46 + 1	S7	+ 17	+ 12		43		(VP)
1036	9·31	11·1	53 19	+ 24 59·6	25 — 67	Y	+ 5	0		41	K5	(H)
1064	4·20	4·35	58 48	+ 9 39·0	18 — 29	B	— 14	+ 13	42	43	A2	H
1089	(8·0)	8·49	58 50	+ 25 53·3	36 — 83	Y	+ 10	+ 12		41	F8	(H)
1105	8·6	9·00	60 42	+ 25 11·1	30 — 71	Y	+ 16	+ 4		41	F8	(VP)
			3h									
493	7·36	7·91	13 57	+ 7 25·0	187 — 6	S	— 13	+ 27		32	F8	P
			4h									
789	(8·5)		48 21	— 0 11·8	75 + 50	Y	+ 22	0		40		P::
747	(9·3)		50 25	— 1 16·9	102 + 48	Y	+ 7	+ 26		40		P::
			5h									
— 806	(9·0)	10·4	15 49	+ 27 1·1	32 — 72	Y	— 18	— 17		39		(P:)
909	6·16	6·86	25 32	+ 29 8·2	41 — 58	Y	+ 8	— 26		39	F5	(P)
846	9·24	10·0	28 0	+ 24 56·8	27 — 83	Y	— 23	+ 3		40	Go	(P)
1031	8·2		47 20	+ 17 49·3	47 — 58	S7	+ 11	+ 25		42	F8	(P)
			2h									
482	(9·3)	10·6	46 34	+ 29 30·1	142 — 30	Y	+ 6	— 43		25	K2	D
471	8·9	9·27	48 25	+ 28 45·3	159 — 63	Y	— 22	— 18		25	Ko	D
			3h									
494	7·67		14 3	+ 7 27·1	193 — 6	S	— 13	+ 33		32	Go	D
491	(9·5)		22 37	— 1 42·9	117 + 30	Y	+ 6	— 35		32		D::
			4h									
711	(9·2)		9 15	+ 0 36·2	78 + 11	S7	— 7	— 39		37	F8	D
— 769	(8·8)		19 1	+ 32 2·7	73 — 79	Gr	— 19	— 28		34		D:
819	8·44		43 5	+ 1 11·6	48 + 9	S7	— 3	— 41		40	F8	D
			5h									
732	5·93	6·52	5 40	+ 27 57·2	43 — 54	Y	— 3	— 33		39	A3	D
856	8·0	8·30	30 55	+ 26 56·0	29 — 99	Y	— 27	+ 13		40	F8	D

The numbers of Hyades given in the table and those published previously are:

	table		previously published	
	r < 15°	r > 15°	r < 15°	r > 15°
H and VP	131	27	105	2
P	12	7	0	0
D	22	9	5	0

For the region within 15° from ♆ Tauri the search may be considered complete down to $8^m·4$ (A.G.) only 1 or 2 may be lacking.

Meridian observations have been made in Leiden to make the search complete to $8^m·5$. The reduction is under way.

The distribution of the H and VP stars given in the first part of the table according to m_v and Sp. is given in the following table.