TABLE G
Critical values of r in the runs test\*

Given in the tables are various critical values of r for values of m and n less than or equal to 20. For the one-sample runs test, any observed value of r which is less than or equal to the smaller value, or is greater than or equal to the larger value in a pair is significant at the  $\alpha = .05$  level.

is greater than of equal to the larger value in a pair is significant at the $\alpha = .05$ level.																			
m n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2		•									2	2 -	2	2	2 -	2 -	2	2	2 -
3					2	2,	2	2	2	2	2	2	2	3	3 -	3 -	3 -	3	3 -
4				2 9	2 9	2	3	3	3 -	3	3	3 -	3 -	3 -	4	4	4	4	4 -
5			2	2 10	3 10	3 11	3 11	3	3	4	4	4	4	4	4	4	5 -	5 -	5 -
6		2	2 9	3 10	3 11	3 12	3 12	4 13	4 13	4 13	4 13	5 -	5 -	5	5	5 -	5 -	6	6 -
7		2	2	3 11	3 12	3 13	4 13	4 14	5 14	5 14	5 14	5 15	5 15	6 15	6	6	6 -	6	6
8		2	3	3 11	3 12	4 13	4 14	5 14	5 15	5 15	6 16	6 16	6 16	6 16	6 17	7 17	7 17	7 17	7 17
9		2	3	3	4 13	4 14	5 14	5 15	5 16	6 16	6 16	6 17	7 17	7 18	7 18	7 18	8 18	8 18	8 18
10		2	3	3	4 13	5 14	5 15	5 16	6 16	6 17	7 17	7 18	7 18	7 18	8 19	8 19	8 19	8 20	9 20
11		2	3	4	4 13	5 14	5 15	6 16	6 17	7 17	7 18	7 19	8 19	8 19	8 20	9 20	9 20	9 21	9 21
12	2 -	2	3	4	4 13	5 14	6 16	6 16	7 17	7 18	7 19	8 19	8 20	8 20	9 21	9 21	9 21	10 22	10 22
13	2 -	2	3	4	5	5 15	6 16	6 17	7 18	7 19	8 19	8 20	9 20	9 21	9 21	10 22	10 22	10 23	10 23
14	2 -	2	3	4	5 -	5 15	6 16	7 17	7 18	8 19	8 20	9 20	9 21	9 22	10 22	10 23	10 23	11 23	11 24
15	2 -	3	3	4	5	6 15	6 16	7 18	7 18	8 19	8 20	9 21	9 22	10 22	10 23	11 23	11 24	11 24	12 25
16	2 -	3	4	4	5 -	6 -	6 17	7 18	8 19	8 20	9 21	9 21	10 22	10 23	11 23	11 24	11 25	12 25	12 25
17	2	3	.4	4	5 ~	6	7 17	7 18	8 19	9 20	9 21	10 22	10 23	11 23	11 24	11 25	12 25	12 26	13 26
18	2 -	3	4.	5	5 -	6	7 17	8 18	8 19	9 20	9 21	10 22	10 23	11 24	11 25	12 25	12 26	13 26	13 27
19	2 -	3	4	5 -	6	6	7 17	8 18	8 20	9 21	10 22	10 23	11 23	11 24	12 25	12 26	13 26	13 27	13 27
20	2	3	4	5 -	6	6	7 17	8 18	9 20	9 21	10 22	10 23	11 24	12 25	12 25	13 26	13 27	13 27	14 28

<sup>\*</sup> Adapted from Swed, and Eisenhart, C. (1943). Tables for testing randomness of grouping in a sequence of alternatives. *Annals of Mathematical Statistics*, 14, 83–86, with the kind permission of the authors and publisher.