Stage IV. The left-foot-step-forward throw with trunk rotation and horizontal adduction in the arm's forward swing. This throw is the mature throw (Type VI) and is found in all boys from  $6\frac{1}{2}$  years up. Most of the girls from  $6\frac{1}{2}$  years up show this form but with arm movements incompletely developed (Type V).

- 4. The outstanding trend disclosed by the movement types is change from movements in the antero-posterior plane to movements largely in the horizontal plane.
- 5. The outstanding trend disclosed by the timing features is a progressively shorter period of acceleration and an earlier release. This trend attends the change in movement types.
- 6. Overlapping of features into chronologically adjacent types demonstrates emergence of one stage into the next.
- 7. Comparison of the girls' performances with boys' performances indicates sex similarity in the basic growth pattern of the age and sex differences in the performance level of that pattern.
- 8. Evidence suggests that the arm action is largely responsible for the speed imparted to hand and ball.
- 9. The average acceleration per second throughout the interval from the beginning of the forward swing to the release ranges from 18 feet to 1200 feet.
- 10. Four means of evaluating the throw have been diversely arrived at:
- 1) velocity of the ball, 2) movement performance score, 3) timing score,
- 4) acceleration of the hand with ball. Relationships between ranks assigned to these evaluations and to age expressed in rank order intercorrelations range from +.81\dagger.043 to +.95\dagger.012 for the entire group; from +.83\dagger.055 to +.98\dagger.007 for the boys' group; and from +.77\dagger.072 to +.95\dagger.017 for the girls' group.