CAN WE PERFORM THE 60 METRE JUMP?

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During the Moomba Festival of 1990 in Melbourne, Australia each of the internationally ranked water ski jump competitors was video taped for a Kinematic analysis. The system used for data recording was a S-VHS camera and power supply from Panasonic. For the analysis of the video taped trials a PEAK 2D NOTION MEASUREMENT SYSTEM was used. A framing rate of 50 fps; at an exposure time of 1/1000 second; was used to obtain the trial record.

Kinematic parameters employed in the analysis of the Jumps were height of take-off, take-off velocities (horizontal and vertical), maximum velocity and the angle of take-off. All subjects represented jumps in excess of 59.0 meters. Yet no one was capable of obtaining the 60 metre distance. The analysis illustrated significant differences and technique considerations which could yield the 60 metre jump.