JAVELIN BASICS

Goldie Sayers photo by Mark Shearman

The javelin thrower requires athleticism and the ability to transfer momentum from the run up to the implement at release. Developing "rhythm" and "feel" during the throw as well as being fast and dynamic are essential.

The roots of javelin throwing are in classical Greece and the ancient Olympic Games. Many other cultures used spear throwing in hunting and warfare and throwing the spear for distance may well have featured as a popular pastime, however it was certainly the Greeks who developed the javelin into a recognised sport. In the ancient Olympics, javelin was the 3rd event of the all important pentathlon.

However, the longest throw did not necessarily crown the winner – points for style were also awarded. Techniques have changed over time. The ancient Greeks made use of a 40cm strap wound round the centre of the javelin, leaving 2 finger loops. The Greek or orthodox style of throwing evolved into modern times with the javelin being held around the middle. There have also been freestyle events whereby the javelin could be held anywhere and could be thrown in any manner (including hammer style!) Lemming, the Swedish champion at the time, preferred the orthodox style and out-threw them all!

World Records Records as at 1.1.06 Significant Barriers

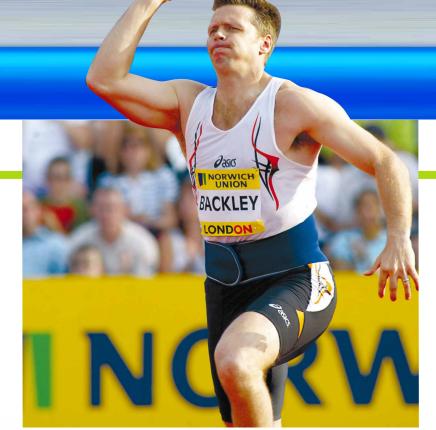
Senior Men				Men			
98.48	Jan Zelezny (CZE)	1996	Jena	60m	1912	E Lemming (SWE)	
U20 Men				65m	1919	J Myrra (FIN)	
83.87	Andreas Thorkildsen (NOR)	2001	Bergen	70m	1928	E Lindquist (FIN)	
		2001	Dergen	75m	1933	M Järvinen (FIN)	
Senior \				80m	1953	B Held (USA)	
71.70	Osleidys Menéndez (CUB)	2005	Helsinki	85m	1956	E Danielsen (NOR)	
U20 Women				90m	1964	T Pedersen (NOR)	
62.93	Juan Xue (CHN)	2003	Changsha	95m	1980	F Paragi (HUN)	
				100m	1984	U Hohn (GDR)	
UK Records				RULE CH	ANGE	1986	
Senior I	Mon			85m	1986	K Tafelmeier (West GER)	
				90m	1990	S Backley (GBR)	
91.46	Steve Backley	1992		95m	1993	J Zelezny (CZE)	
U23 Men				98m	1996	J Zelezny (CZE)	
89.58	Steve Backley	1990		Women			
U20 Men				40m	1929	E Braumüller (GDR)	
79.50	Steve Backley	1988		45m	1932	N Gindele (USA)	
U17 Me				50m	1947	N Smirnitskaya (USSR)	
				55m	1954	N Konyayeva (USSR)	
73.56	David Parker	1996		60m	1964	Y Gorchakova (USSR)	
U15 Men				65m	1972	R Fuchs (GDR)	
62.70	Paul Godwin	1989		70m	1980	T Biryulina (USSR)	
Senior Women				75m	1985	P Felke (GDR)	
64.87	Kelly Morgan	2002		80m	1987	P Felke (GDR)	
UT.U1	reny worgan	2002					

JAVELIN TECHNIQUE

There are 2 principle grips used for throwing the javelin, both of which allow for good contact with the grip by the "control" part of the finger and thumb. The grips allow the fingers to

The Grip

(A) First Finger and Thumb be used to stabilise the javelin in the



TRAINING FOR JAVELIN

General Considerations

- Plan efficiently.
- 2. Decide how much time is available for training. Don't plan a schedule for six days a week if the athlete only has three days a week for training.
- 3. Plan the athlete's competition year. Javelin is a summer only event, but will the athlete do another event during the winter (perhaps indoor shot putt) or another sport (such as rugby)?
- 4. Plan each phase of the year.
- 5. Plan each week.
- 6. Plan each day.
- 7. Plan every training session.
- 8. Plan the content of every training session.

The approach

The Approach - 'Front on' running to accelerate the thrower and the javelin

- The javelin is grasped firmly but comfortably, and lies down the hand (rather than across).
- The palm faces up in the carry and the grip
 Left shoulder faces the direction of throw. hand is relaxed.
- shoulder at head height.
- The thrower looks forward.
- The acceleration run (6-12 strides) is relaxed, controlled and rhythmic.

Steve Backley photo by Mark Shearma

The withdrawal

with the eye.

• The javelin is held horizontally over the

The Withdrawal and 5 stride rhythm − To • Throwing arm is at shoulder height or position the thrower and javelin correctly for the delivery

- The withdrawal of the javelin starts on a left foot landing.
- Throwing arm extends backwards during first and second stride.

 Left shoulder and head face the direction of

Kelly Morgan phot

Delivery

Throwing arm and shoulder axis are in The Delivery - To transfer velocity from the legs, trunk, shoulder and arms to the javelin

- Tip of the javelin is close to the head, level The 'impulse' stride is longer than the final, Right foot is placed at a natural angle to delivery stride.
- The pre-throwing stride is initiated through
 Maintain sightline. a very active 'running off' from

TEACHING PROGRESSIONS AND DRILLS

- the left foot.
- The right knee drives forward.

slightly higher after withdrawal.



- the direction of throw.
- Axes of the javelin, shoulder and hip are parallel.
- Right knee and hip turn forwards actively. The throwing arm remains extended during
- the hip strike.
- The left foot is driven to the ground to stabilise the left side.
- The right hip drives forward against the left leg to bring the body into an arc position.
- The arm is pulled through last, with the elbow close to the head.

Recovery

Recovery - To stop the forward momentum of the body and avoid fouling. A controlled

recovery is a result of a 'good' throw. Uncontrolled recovery reflects a poor throwing action. Therefore a good delivery should

Leave sufficient space between the braced left leg and the

foul line for the recovery step. Legs are reversed quickly after

be the main focus

the release. Right leg is bent.

swings backwards.

- Upper body sinks down and left leg
 - Static and dynamic mobility work Drills which enhance javelin skills

FUNDAMENTALS OF A

TRAINING REGIME

Javelin throwers must be

Good at learning skills

Powerful (strong and fast)

Athletic & agile

Supple

will include

Competitive

Javelin throwing

So training sessions for developing athletes

- Strength development (general jumping, general throwing and
- A warm down

weights)

Training sessions for mature athletes will be more frequent and specialised, with separate sessions devoted to drills, javelin throwing, general throwing, general strength, specific strength, power development, preceded by the appropriate

warm up and mobility work.

Equipment and Basic Rules for Javelin

T Hattestad (NOR)

O Menéndez (CUB)

Javelins were normally made from steel or aluminium although since 1996, carbon fibre javelins have been allowed. They consist of 3 parts – head, shaft

2001 All implements are subject to various checks before competition to ensure that they comply with minimum weights and measurements (length and diameter etc.)

Javelin weights

RULE CHANGE

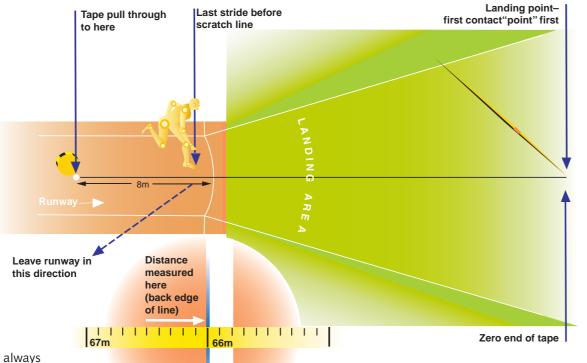
	Senior	Under 17	Under 15	Under 1
Men	800g	700g	600g	400g
Women	600g	600g	600g	400g

with spikes on the sole including 4 spikes in the heel.

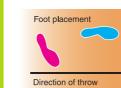
Javelin throwers wear shoes or boots (which support the ankles)

Basic Rules

The javelin must be thrown over the shoulder and not slung. A horn is always blown before a throw to ensure the safety of all competitors and officials. The avelin is thrown from a straight run up area into a marked throwing sector (see picture). The javelin must be thrown from behind the "scratch line" and the thrower must not leave the runway until the javelin has landed.



Standing Throw (Right handed thrower)



Stand side-on to direction of throw, with both feet in contact with the ground, weight over the right foot, right knee slightly flexed and left leg extended.

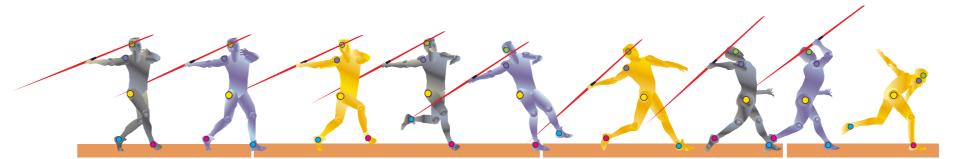
Extend right arm fully at shoulder level with palm facing upwards.

Left arm is long and across the body.

Left arm remains fixed until after release to maintain side-on position and to allow the feet to remain "powerful".

Initiate throw by rotation of the right knee towards the direction of throw.

- Drive the right hip against the fixed left
- Finish the throw with arm extended forward and above the level of the head
- Left foot remains fixed with body controlled and balanced behind the braced front leg.
- Throw from the legs. The standing throw should aim to mimic the position that the thrower will be in following a run up rather than being the positionfor throwing optimum distance from standing.



3 Stride throw

 Start with the right leg forward and the javelin withdrawn. Maintain the balance of the body over the right leg.

Step onto the left foot and then run into the 'impulse' stride, with the feet landing quickly one after the other. Stay back with the balance over the right foot.

The right leg lands with a slightly flexed knee and foot ready to strike immediately upon toe contact.

The right flexed knee rotates forward.
 Release high with elbow close to head.

The left leg braces to block the right side and allow momentum to be transferred through the body into the arm and finally the javelin.

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Mick Hill photo by Mark Shearman

64.87 Kelly Morgan

55.40 Goldie Sayers

49.83 Hayley Thomas

41.44 Louise Watton

U20 Women

