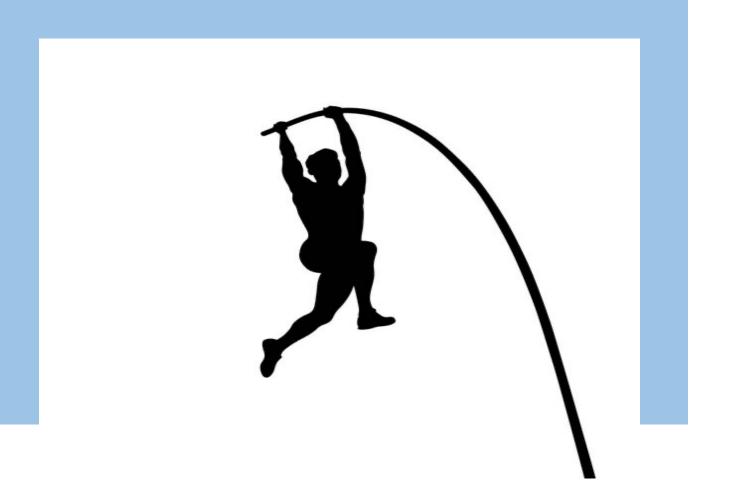
POLE VAULT SET-UP AND BEYOUND



PRESENTED AND PREPARED BY:

GARY KIDD
UST&F OHIO ASSOCIATION
JANUARY 8, 2023



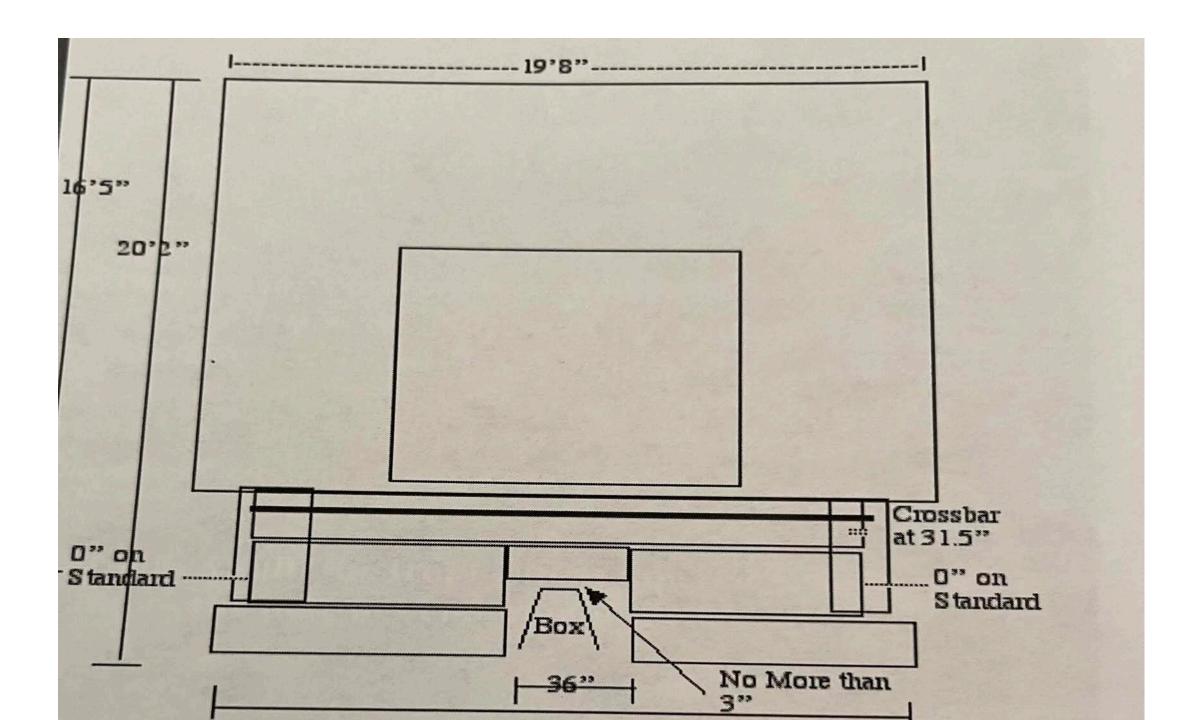
FOR THOSE OFFICIATING THE POLE VAULT

Even after a walk around inspection:

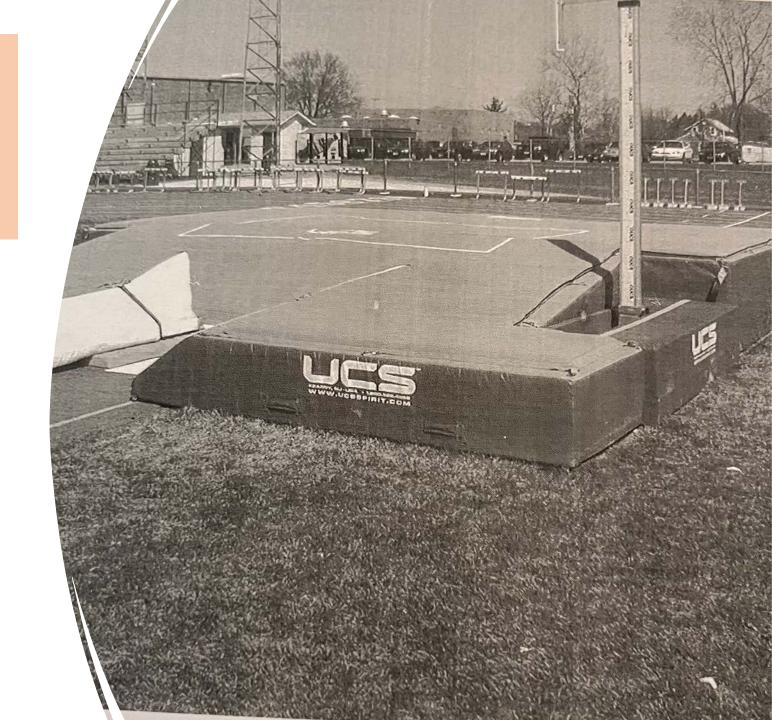
- -The cinder blocks, hurdles and other stuff used to hold the cover on
- -The posts holding flags, streamers, or other crowd control devices too close to the pits
- -The rake someone dropped off from the long jump
- Whatever else that could possibly impale, break, concuss or otherwise hurt an errant vaulter

OVERALL LANDING SYSTEM

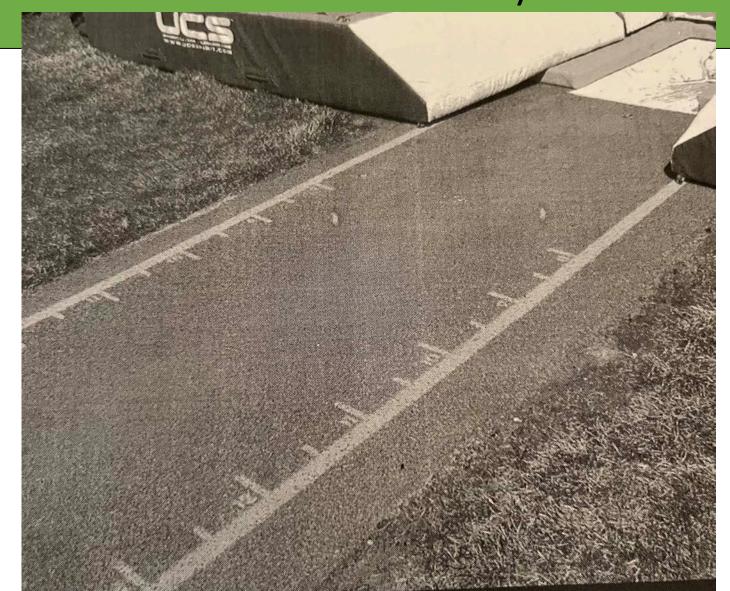
- Overall size of pole vault landing pad shall be a minimum of 19 feet, 8 inches (6 M) wide by 20 feet, 2 inches deep.
- The material of pad shall be high enough and of a composition that will decelerate the landing.
- When the landing pad is made up of two or more sections, the landing surface shall include a common cover pad extending over all sections.



Overall view of pit



Comments on marks on Runway

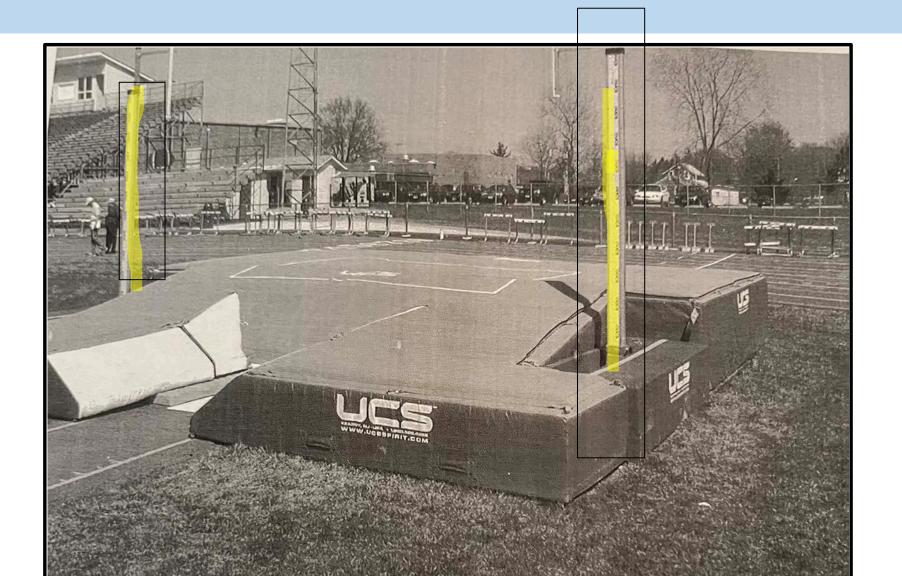


Flexible measuring tape

Officials should have on hand

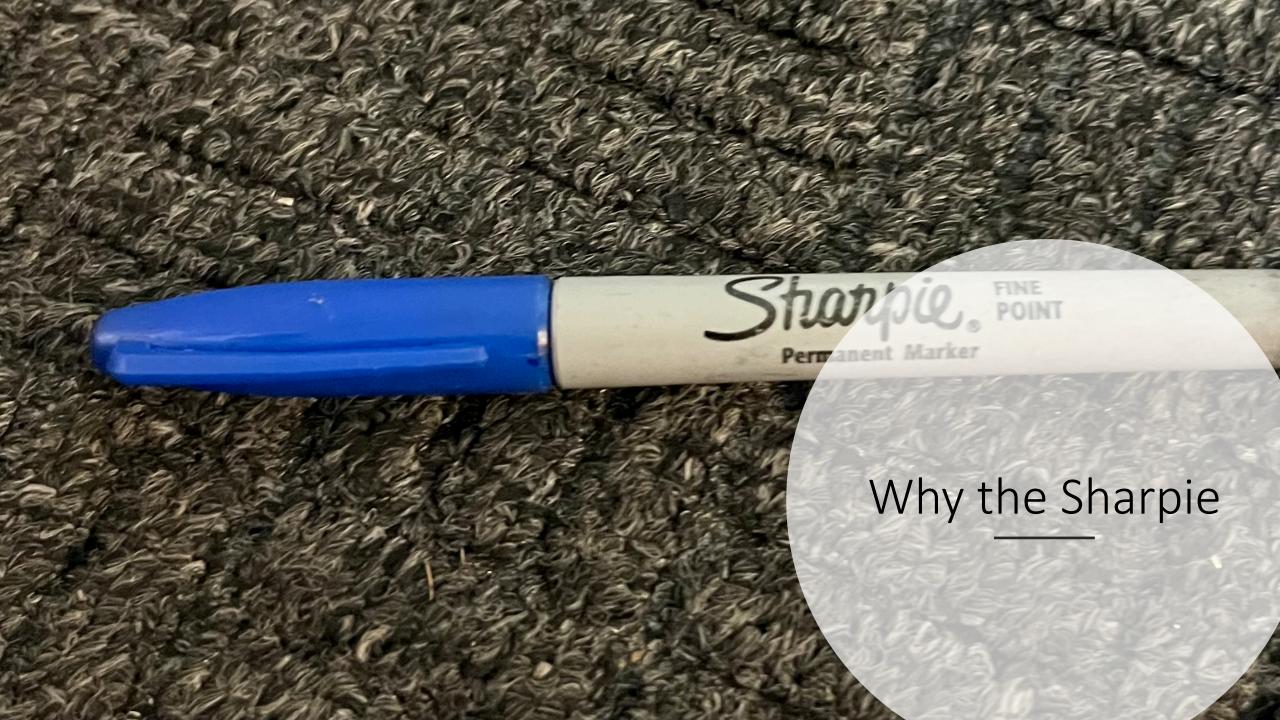


The Standards



White Tape





Marking the Cross Bar?

Marking the ends Left and Right.

Marking the center of the cross bar in reference to vault box.

Will always be in the same position for all competitors.

WHERE IS THE ZERO POINT?

 The zero point is at the top of the back of the planting box. It is used to determine the distance the crossbar travels towards the back of the landing surface, the starting point of the runway and to identify the proper placement of the landing surface.

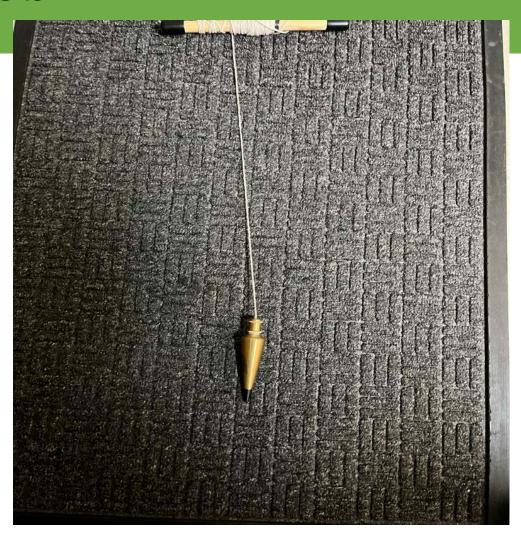
Zero – is the point where all measurements are made

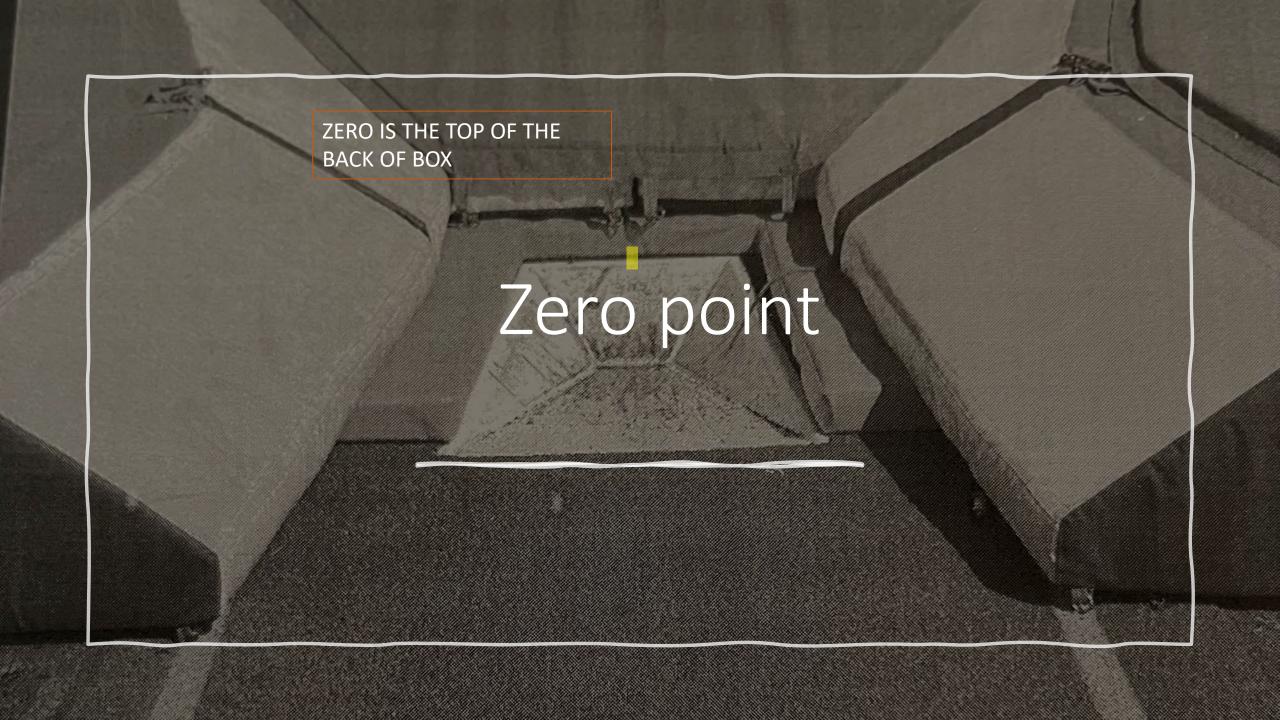
-Standards- start at ZERO- Vault from 18" to 31.5" Back

Crossbar- Top center of Bar is measured from ZERO

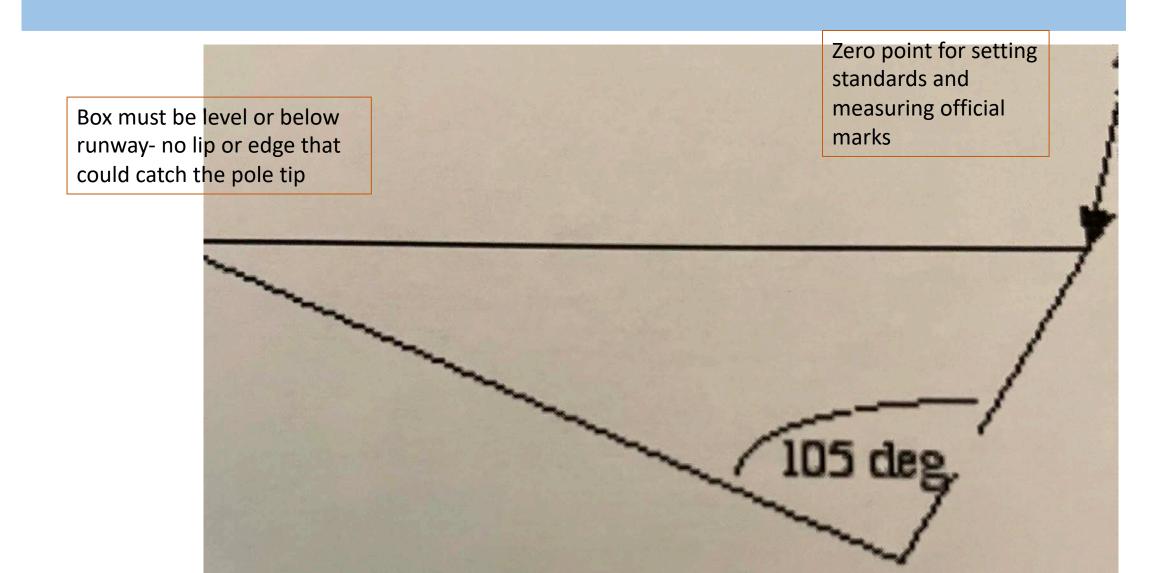
Runway Markings- All measured from ZERO

Plumb Bob

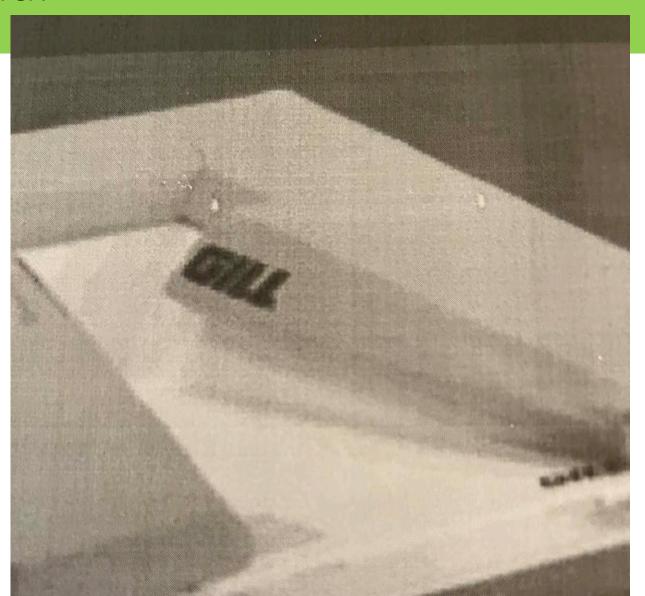




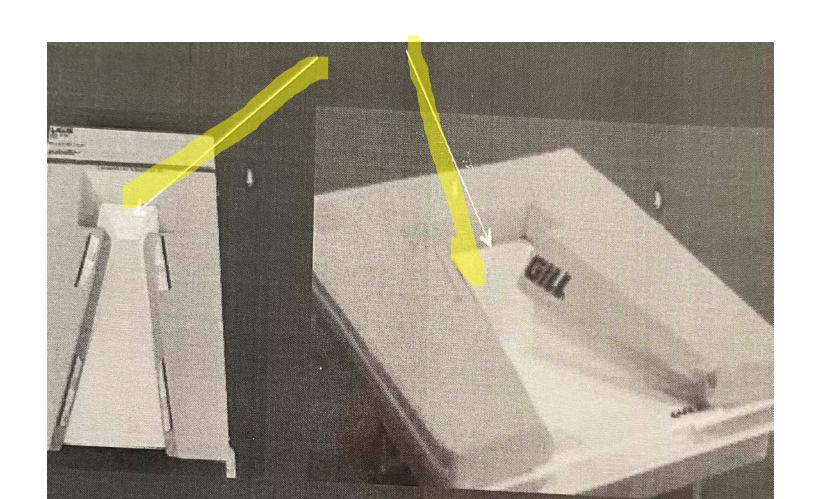
Pole Vault Box



Box Collar



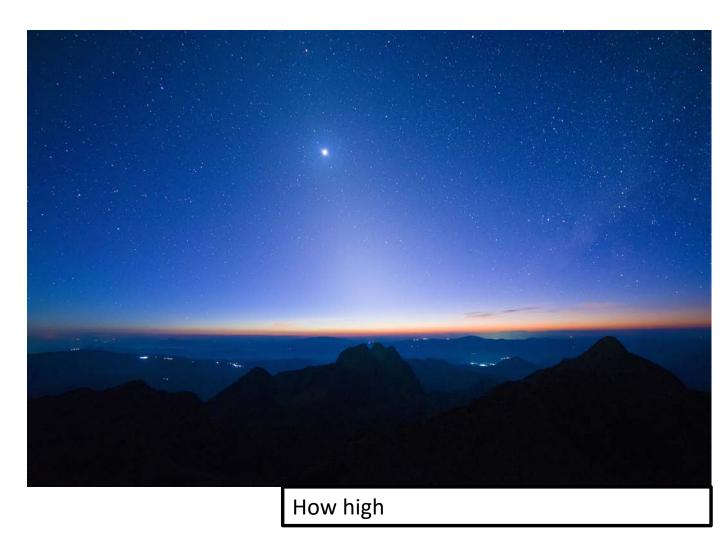
Bend Cavity



Poles are hitting the pit while bending

• If a(vaulter feels) the position of the landing pand would hinder the bend of his or her pole and the pad was not placed at it's maximum distance from the stopboard, he/she should have made wishes known prior to the beginning of the competetion

And Beyound



WE WILL GO OVER SOME INFORMATION QUOTED BY (THE NATIONAL POLE VAULTING SAFETY COMMITTEE).

-INJURY SITES FOR POLE VAULTERS (NCAA RESOURCE 2020)

-WHAT IT TAKES FOR THE VAULTER TO MAKE THE HEIGHT.

-THE POLE

-IMPROVEMENTS IN POLE VAULTING BEING STUDIED.

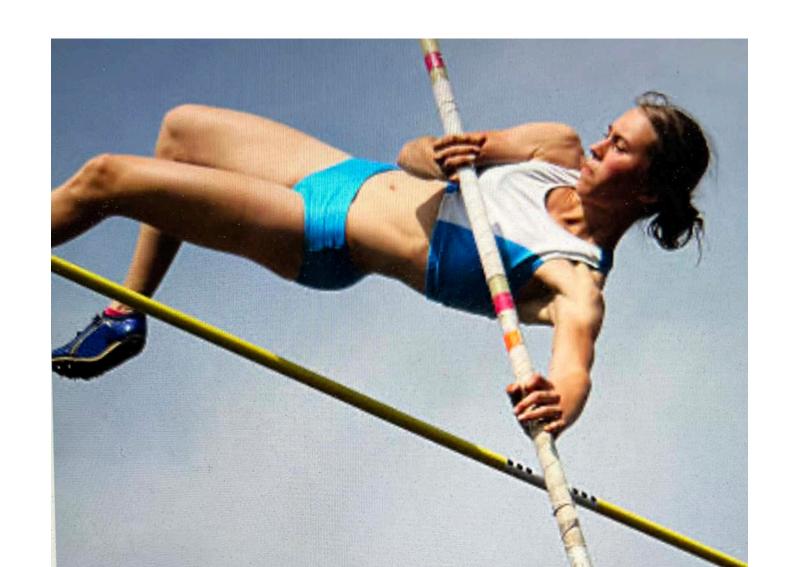
Whatever goes up must come down

According to the National Pole Vault Safety Committee (2019)

8 castastrophic injuries have occurred in 350 male athletes in the United States who have pole vaulted 17' 6.75" (5.35 Meters) or higher since 1971, an incidence of 2,286 per 100,000.

Frequent injury sites for Pole Vaulters NCAA SOURCE 2020

NCAA SOURCE 2020



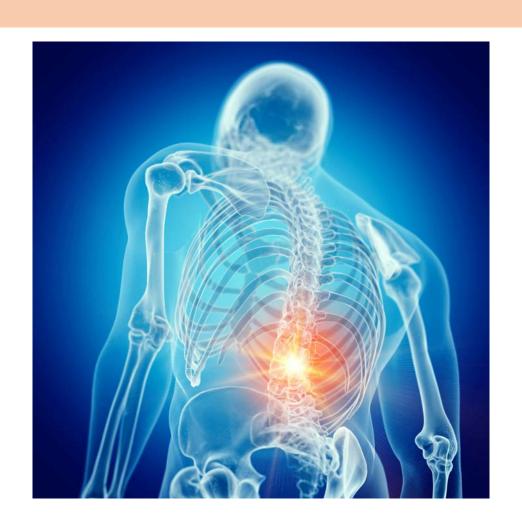
ANKLE 24%



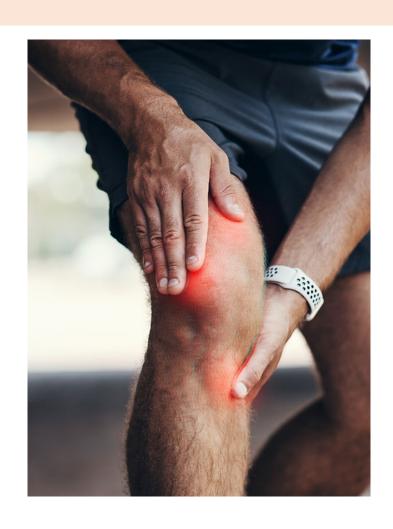
HEEL 19%

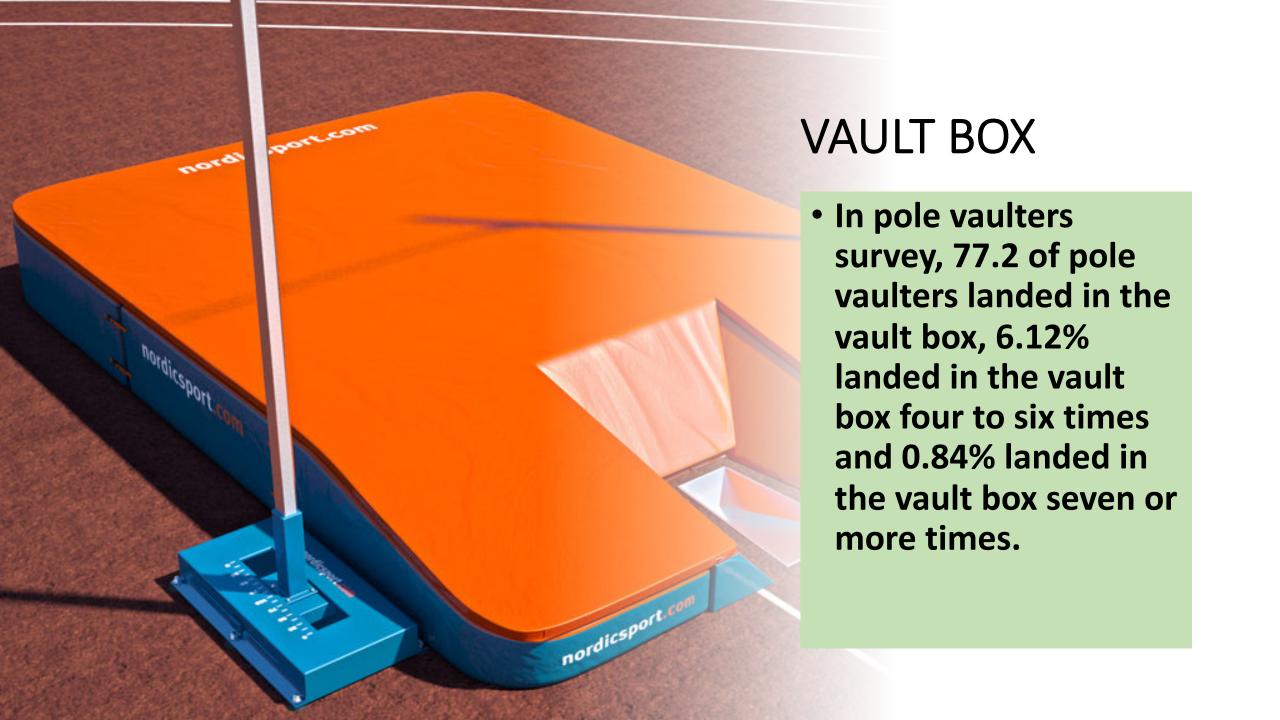


LOWER BACK 12%

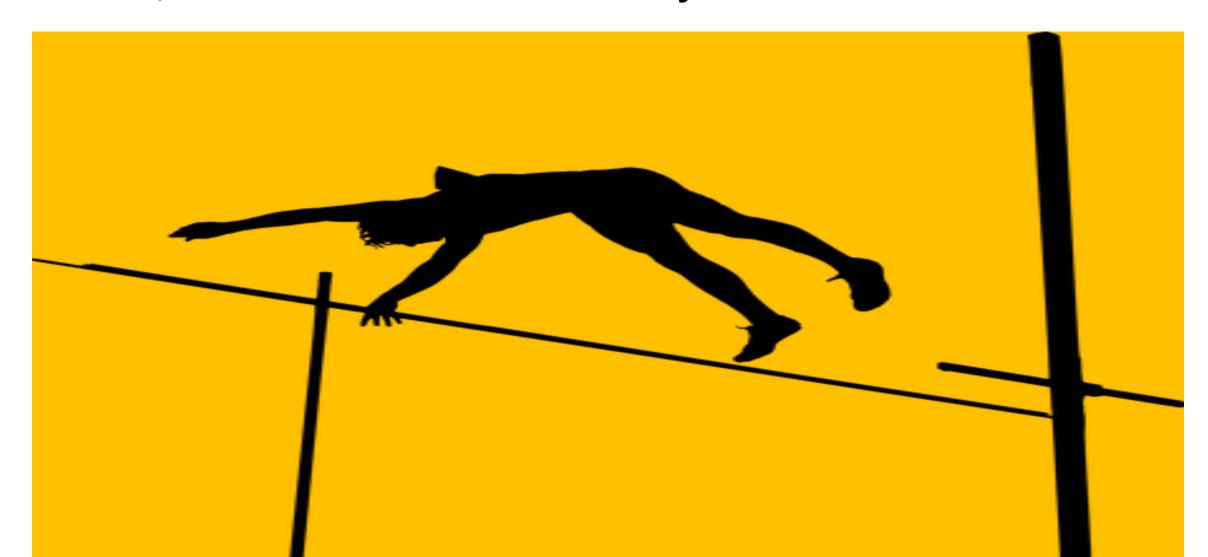


KNEE 8%





You' re falling from the highest when you pole vault, so it is easier to be injured.



What it takes from the athlete pole vaulting?

Coordination, Timing, Speed and Gymnastic ability

• The modern pole vaulter makes a run of 40 meters (131.2 Feet), while carrying the pole and approaches the take off with great speed.

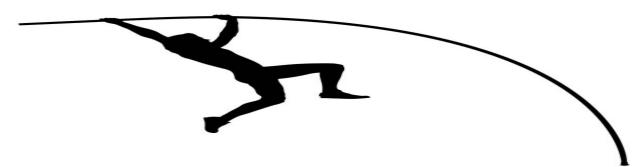




Some common pole vault skill deficiencies to be aware of when officiating.

SKIPPING STEPS

POOR POSTURE



NO JUMP AT TAKE OFF

LATE POLE DROP

POOR ARM EXTENSION

A COMMENT ABOUT VAULTING POLES

• VAULTING POLES ARE RATED BY HOW MUCH BODY WEIGHT THEY CAN BEAR (LOADING), AND THE HEIGHT OF THE HANDHOLD.

EXAMPLE:

A 4 METER POLE IS AVAILABLE IN A RANGE OF BODY WEIGHTS FROM 100-180 LBS.

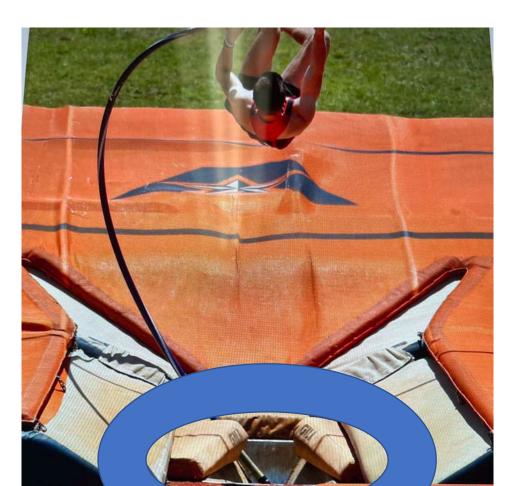
DIFFERENT MANUFACTURERS: USE IMPERIAL AND METRIC SYSTEMS

POTENTIAL PREVENTIVE STRATEGIES

(ncaa pole vault committee 2020)

Develop of materials with appropriate shock absorption capability.

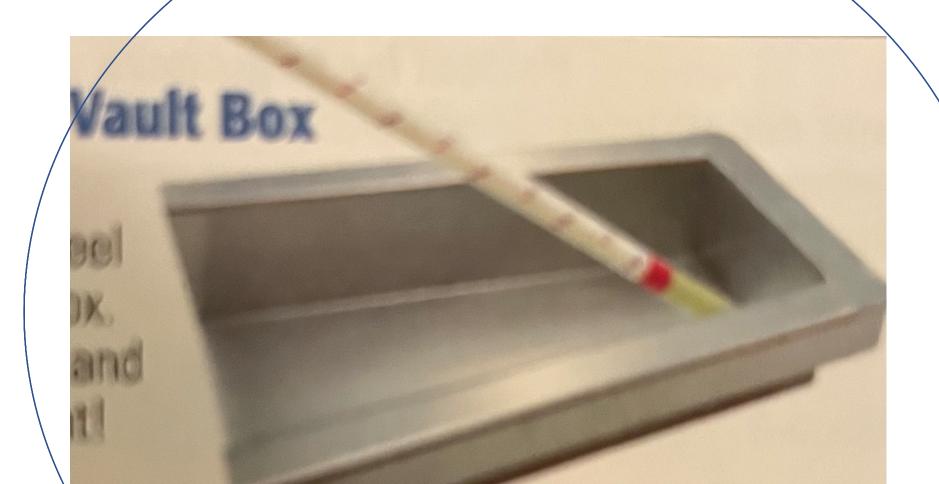
Box Collar Padding



Padding the sides and bottom



Making Vault Box narrower



the researchers also concluded in their study. "The dimensions of the box collar and the pole, especially the stiffness and proper grip heights, as well as the ideal position for the cross bar also need additional study.



RESOURCE:



RESOURCE

• NCAA MANUAL (AVAILABLE MID FEB. 2023)



RESOURCE

NATIONAL FEDERATION OF HIGH SCHOOL HANDBOOK





CLOSING COMMENTS & QUESTIONS