



# BOAT RIGGING POLICY

## PURPOSE

Western Reserve Rowing Association (WRRA) maintains a fleet of boats on behalf of members. This document outlines the boat rigging principles adopted by WRRA.

## RESPONSIBILITY

The Equipment Director and Committee are responsible for determining the rigging set up of each boat. A number of factors determine the rigging of a boat, these include:

- Size of the crew rowing to the size of the boat
- Adjustments to this boat to accommodate the crew

## ADJUSTMENTS TO BOAT RIGGING

For ALL adjustments to boat rigging and shoe heights (but not shoe position) the Equipment Director's permission must be sought. Any adjustments made during the competitive season must be returned to normal settings at the end of the season.

## OARS AND GRIPS

The club maintains all oars with standard handle/grips to cater for both male and female club rowers.

TABLE 1 – GENERAL SWEEPS

Set	Color	Handle	Length (cm)
8	Purple/Green	Wood / Medium	370
8	Green/Blue	Wood / Medium	370
8	Red/White	Wood / Small	368
8	Green/White	Wood / Small	368
8	Purple/Yellow	Wood / Small	368
8	Red/Yellow	Wood / Medium	376
4	Green/Yellow	Wood / Small	368
4	Red/Pink	Wood / Medium	372

TABLE 2 – SUMMER ROWING LEAGUE

Set	Color	Handle	Length (cm)
8	Blue/Gray	Wood / Medium	375
8	Red/Blue	Wood / Medium	375
8	Green/Red	Wood / Medium	371
8	Purple/White	Wood / Medium	372
8	Orange/Brown	Wood / Medium	373
8	Orange/Green	Wood / Medium	376

TABLE 3 – GENERAL SCULLING

Set	Color	Grip	Length (cm)
2	Blue/Green	Green	288
2	Red/White	Green	288
2	Green/Red	Green	288
2	Orange/Green	Orange	288
2	Brown/Green	Black Suede	288
2	Purple/Blue	Black Rubber	288
2	Yellow/Red	Green	288
2	Yellow/White	Green	282
2	Purple/Orange	Green	283
2	Purple/White	Blue	288
2	Red/Blue	Blue	288



## RIGGERS

Spread, span, oar length and oar inboard setting are all set according to the following tables. If you wish to adjust the standard settings you must obtain the Equipment Director's permission before making any changes. At the end of the period of use / season, all settings must be returned to the standard settings.

TABLE 4 – Standard (WRRA) measurements for sculling and sweep rowing

Boat	Spread/Span (cm)	Oar Inboard (cm)	Oar Length (cm)
<b>1x</b>	160	88	288
<b>2x</b>	160	88	288
<b>2x (lwt)</b>	160	88	288
<b>4x</b>	160	88	288
<b>4x (hwt)</b>	159	88	288
<b>2-</b>	85.5	115	368 - 370
<b>4+</b>	85.5	115	368 - 376
<b>8+</b>	85	115	368 - 376
<b>SRL 8+</b>	86	116	371 - 376

## RIGGER HEIGHTS

Rigger heights determine the height of the work and affect the height of:

1. swivel over the seat
2. swivel from the water
3. seat over the water

As a crew is allocated a boat, the Equipment Director will determine the required heights for the users of the boat and will take into account rower comfort and mechanical efficiency of the rower. As club boats are often shared the settings may be compromised to accommodate all crews using that boat.

## STANDARD MEASUREMENTS

(distance from vertical distance between the lowest point of the seat and the horizontal sill of the swivel)

Sweep - 15 to 18 cm

Scull – 14 to 16 cm

## SCULLING (Bowside oarlock)

Swivel should be set from 0.5 to 1.5 cm higher than the stroke side gate due to the hand height difference at the cross over point

## FOOTSTRETCHER ANGLE, HEIGHT AND PLACEMENT

Foot stretcher angle and height must not be adjusted without prior permission from the Equipment Director.

STANDARD ANGLE OF FOOTSTRETCHER - ~42° (range from 42 - 45°)

STANDARD HEIGHT – 15 to 18 cm (subjective evaluation: knees should be level with their armpits at the catch)

## STANDARD PLACEMENT OF THE FOOTSTRETCHER

(measured from the point where the pin(s) is perpendicular to the midline of the boat)

Short Rower – 58cm

Medium Rower – 61 cm

Tall Rower – 63 cm

\*NOTE: all rowers within a crewed boat should set their finish arc at the same point to ensure the crew is rowing in the same arc

## FOOT STEERING LOCATION

The curvy nature of the Cuyahoga River and the numerous bridges make steering from any seat other than bow difficult. For this reason WRRA has determined that all coxless boats be steered from the bow seat only.