

## 20 Person Dragonboat SAFETY MATRIX

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Water Flow	below 35 Kcfs	35-40 Kcfs	below 40 Kcfs	40-45 Kcfs	45-50 Kcfs
Water temp	above 60° F	above 60° F	50-60° F	daylight only above 45° F	daylight only above 40° F
Boat Type	Dragonboat 20 person	Dragonboat 20 person	Dragonboat 20 person	Dragonboat 20 person	Dragonboat 20 person
Rescue Boat /Launch to DB Ratio	not required	not required	not required	One Launch for each DB or 2 DB's can act as Rescue Boats with 10 to 12 paddlers each	One Launch for each DB
Coach Certification	none	TRRA- equivalent certification	TRRA- equivalent certification	TRRA- equivalent certification	TRRA- equivalent certification
PFD requirement for [paddlers	In the boat and it must be worn by all non-swimmers or non-TRRA members	In the boat and it must be worn by all non-swimmers or non-TRRA members	vest type required to wear	vest type required to wear	vest type required to wear
Requiements for Helm and Launch drivers	PFD must be worn at all times Helm must be experienced or paracice under an experienced helm onboard	PFD must be worn at all times Helm must be experienced	Vest PFD must be worn at all times Helm must be experienced	Vest PFD must be worn at all times Helm must have 3 years helm experience in similar conditions	Vest PFD must be worn at all times Helm must have 3 years helm experience in similar conditions
Communication Requirement	Protected cell phone required in each launch or each DB not accompanied by a launch	Protected cell phone required in each launch or each DB not accompanied by a launch	Protected cell phone required in each launch or each DB not accompanied by a launch	Protected cell phone rrequired in each launch or each DB not accompanied by a launch	Protected cell phone rrequired in each launch or each DB not accompanied by a launch
Skill level of Crew	any level	TRRA organized teams	TRRA organized teams	TRRA organized teams min 10 paddlers	TRRA organized teams min 10 paddlers

**Notes:**

1. all high school or middle school boats must be accompanied by a launch at all times and in all conditions

2. Safety items to be included in each launch under all conditions : one space blanket per paddler, and bailer or pump. In rough water, one pump recommended in each DB

3. Additional requirements for Zone 4 and 5: as noted in the original Zones chart. In these zones paddle in relatively flat water with wind and wind gusts below 12 mph. Precaution is required in Zone 5.

4. A rescue boat may be another DB with a minimum of 10 paddlers When a DB is used as a Rescue Boat it is restricted to within 1 mile of the island

### Out Rigger Canoes SAFETY MATRIX

	Zone 1	Zone 2	Zone 3	Zone 4
Water Flow	below 30 Kcfs	30-40 Kcfs	below 40 Kcfs	below 40 Kcfs
Water temp	above 60° F	above 60° F	50-60° F	40-50° F
Boat Type	all OCs	all OCs	all OCs	All OCs Restricted* except for those with Executive Director permission
Rescue Boat /Launch to DB Ratio	not required	not required	not required	not required
Coach Certification	none	none	none	none
PFD requirement for paddlers	PFD required, and tethered to the OC with an ankle leash is recommended as conditions dictate.	PFD required and must also be tethered to the OC with an ankle leash	PFD required and must also be tethered to the OC with an ankle leash	PFD required and must also be tethered to the OC with an ankle leash
Communication Requirement	Protected cell phone Recommended	Protected cell phone Recommended	Protected cell phone Recommended	Protected cell phone Required
Skill level of Crew	TRRA Cetification Experienced** paddlers only	TRRA Cetification Experienced** paddlers only	TRRA Cetification Experienced** paddlers only	Non Solo paddling TRRA Cetification Experienced* paddlers only

\* Experienced paddlers with 5 or more years experience with permission from the Executive Director. Suitable clothing must be worn. Paddling may be restricted to the channel or near the island. This has typically been exercised for competitive paddlers needing early water access.

\*\*Experienced paddlers have 12+ hours in an OC-1 of which at least 4 hours are outside the channel with an experienced paddler. Must have passed the flip test. Special permission from Executive Director may exempt paddlers with 10+ years in other solo craft such as racing kayaks and canoes

### 10 Person Dragonboat SAFETY MATRIX

	Zone 1	Zone 2	Zone 3
Water Flow	below 35 Kcfs	below 35 Kcfs	35-40 Kcfs
Water temp	above 60° F	55-60° F	daylight only 50-55° F
Boat Type	Dragonboat 10 person	Dragonboat 10 person	Dragonboat 10 person
Rescue Boat /Launch to DB Ratio	not required	not required	not required but recommended for 1st usages and at lower water temperatures
Coach Certification	none	TRRA- equivalent certification	TRRA- equivalent certification
PFD requirement for paddlers	In the boat and it must be worn by all non-swimmers or non-TRRA members	vest type required to wear	vest type required to wear
Requirements for Helm	PFD to be worn at all times Helm with experience on a DB-20 or DB-10	PFD to be worn at all times Helm with 3 year experience on a DB-20 or DB-10	PFD to be worn at all times Helm with 3 year experience on a DB-20 or DB-10
Communication Requirement	Protected cell phone recommended in each launch or each DB not accompanied by a launch	Protected cell phone recommended in each launch or each DB not accompanied by a launch	Protected cell phone recommended in each launch or each DB not accompanied by a launch
Skill level of Crew	any level	TRRA organized teams	TRRA organized teams

**Notes:**  
 1. all high school or middle school paddlers must be accompanied by a launch at all times and in all conditions

2. Safety items to be included in each launch under all conditions : one space blanket per rower or paddler, and bailer or pump. In rough water, one pump recommended in each DB

3. Precaution should be taken in Zone 3 as the flowrates are higher and the water temperatures are colder. Paddle with flat water and low or no wind present and with recreational traffic not causing wakes. Stay closer to the island where help may be more available. Go upstream to the green buoy; then downstream along the north shore. Do not cross the river. 2 Paddlers must be on each bench used and the boat must be balanced. Consider a using launch especially as the water temperatures get below 55 F. This Zone requires an experienced helm and should have a Launch or a Rescue Boat on the initial attempts.

4. A rescue boat may be another DB with a minimum of 10 paddlers. When a DB is used as a Rescue Boat it is restricted to within 1 mile of the island