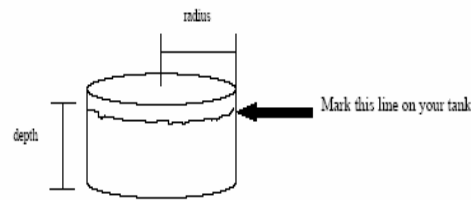


Tank Capacities

All measurements in inches

Round Tub: Gallons = 3.14 x radius x radius x depth ÷ 231

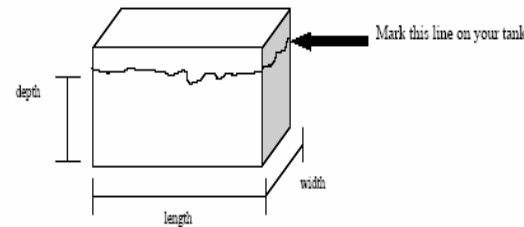


Your tank:

Radius: _____ Depth: _____

Gallons = 3.14 x (radius) x (radius) x (depth) ÷ 231 = _____

Square Tank: Gallons = length x width x depth ÷ 231



Your tank:

Depth: _____ Length: _____ Width: _____

Gallons = (depth) x (length) x (width) ÷ 231 = _____

Wedge-shaped Vat: Approximate Gallons = length x depth x width ÷ 462

Your tank:

Depth: _____ Length: _____ Width: _____

Gallons = (depth) x (length) x (width) ÷ 462 = _____

Sodium Bisulfite ("Dip")

Water	Dip
5 Gallons	¾ cup
5 Gallons	½ pound
10 gallons	1 ½ cups
10 Gallons	1 pound

- Prevents blackspot and spoilage
- Recommended concentration: **1-1.25%**
- Change out after **600 lbs** of shrimp
- Soak for no more than **1 minute**
- Store covered and dry with good ventilation
- Do not apply directly over ice
- Evidence of abuse: yellowing underside, bleached appearance, pitted/gritty shell

Everfresh® (4-hexylresorcinol)

- One **200 gram pouch per 25-30 gallons** of water (3.5 ounces per 10 gallons)
- Soak for **2-3 minutes**
- Change out after **600 pounds**
- Only prevents blackspot
- Apply ASAP to stop activity of enzymes
- Mix with deck-temperature, clean sea water

Sodium Tripolyphosphate (STP)

- 4% STP with 1% salt**
- Soak for no more than **60 minutes**
- Reduces cold storage dehydration and drip loss during thaw
- Evidence of abuse: translucent, overly slimy shell; tart, chemical flavor

Sanitization

- 0.5 cups of bleach per gallon of water**
- Scrub with plastic-bristle brushes
- Be sure wood is protected with sufficient coating to reduce pits or weak spots that may harbor bacteria

Brine Freezer Tanks

Corn syrup additives (choose one): Forms glaze that prevents dehydration and weight loss

Additive Type	Concentration	Additive Amount	Water Amount
Corn Syrup	0.12 gal /gal	0.6 gallons	5 gallons
		1.2 gallons	10 gallons
Corn Syrup Solids	1.19 lb/gal	6 lbs	5 gallons
		12 lbs	10 gallons

Salt: At a concentration of 23.3%, water can be lowered to -6° F without freezing

Salt	Water
2.53 pounds	1 gallon
12.7 pounds	5 gallon
25 pounds	10 gallon

- Recharge system after 1000 pounds of shrimp
- Add 28 pounds of salt, plus 1 cup of dip (if used)
- 6 ½ inches of salt in a 5-gallon bucket is approximately 28 pounds
- Monitor temperature between -6° F and 5° F
- No more than 15 pounds of shrimp per 100 gallons
- Shrimp must freeze within 20 minutes to reduce dehydration

If using a refractometer:

- Initial salinity of charged system (brine, corn syrup, and dip) should read approximately 30%
- Once the salinity drops 2%, salt must be added using the following equation:

$$\text{Pounds of salt} = (\text{tank gallons}) * (8.3) * (0.02)$$

<The last number of the equation represents the percentage points needed to reach the 30% level. In this case, a 2% increase is needed, so 0.02 is plugged in. If a 15% increase is needed, 0.15 would be plugged in>

Recommended tow times: Tows should never last more than 3 hours. Once the water temperature reaches 80° F, tows should not last more than 2 hours.

Months	Drag Recommendations
January – April	3 drags per night
May – June	No drags longer than 3 hours
July – September	No drags longer than 2 hours
October – December	No drags longer than 3 hours

Process flows

Ice Boat:

1. Rinse tub → Low-salinity pre-chill tub* (with or without dip) → Ice
2. Rinse tub → 4-hexylresorcinol tub → Low-salinity pre-chill tub* → Ice

Freezer Boat:

1. Rinse tub → 4-hexylresorcinol tub → Low-salinity pre-chill tub* → Freezer (no dip)
2. Rinse tub → Low salinity pre-chill tub* → Freezer (with or without dip)

*Low salinity pre-chill may be helpful during hot weather when catches are heavy.

Soak no more than 15 minutes

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Public Service Activities

