

Cranberry Marketing Committee  
 219A Main Street  
 Wareham, MA 02571  
 Phone: (508) 291-1510; Fax: (508) 291-1511  
 Website: www.usacranberries.com

<b>Crop Year</b>	<b>Disposal Date</b>	<b>Filing Date</b>
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**HANDLER DISPOSAL CERTIFICATION**

For any crop year in which a handler withholding is established under §929.54 of the Marketing Order, this certificate is required to be completed by all handlers of cranberries to certify to the Cranberry Marketing Committee (CMC) that cranberries acquired by the handler have been withheld from handling. All definitions used in this form shall have the same meaning as those in §929.1-929.17 of the Marketing Order.

Note: This form applies to disposal activities. Handlers wishing to receive credit for withheld cranberries diverted to non-commercial outlets should use the "Application for Outlets for Excess Fruit." This form must be filed no more than two weeks following the disposal date.

Handler Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ Email Address: \_\_\_\_\_

**Withhold Cranberry Details**

<p><b>1. Marketable Cranberries Disposed in this Lot:*</b></p> <p>_____ (bbl.)</p> <p><i>*Disposal of forms other than whole fruit requires appropriate conversion applying approved CMC conversion rates.</i></p>	<p><b>2. Form of Disposed Cranberries</b></p> <p><input type="checkbox"/> Whole Fruit</p> <p><input type="checkbox"/> 50 Brix Concentrate</p> <p><input type="checkbox"/> Low Brix Juice</p> <p><input type="checkbox"/> Dried Cranberries</p> <p><input type="checkbox"/> Other _____</p> <p>_____</p> <p>_____</p>	<p><b>3. Amount of Processed Cranberries in Lot</b></p> <p>If form in Box 2 is other than Whole Fruit, identify volume in processed form.</p> <p>Concentrate/Low Brix</p> <p>Juice: _____ (gallons)</p> <p>SDCs: _____ (pounds)</p> <p>Other: _____</p>	<p><b>4. Lot Details</b></p> <p>Container Type:</p> <p><input type="checkbox"/> Bins</p> <p><input type="checkbox"/> Drums</p> <p><input type="checkbox"/> Bulk</p> <p><input type="checkbox"/> Other _____</p> <p># Containers _____</p> <p>Reference # _____</p> <p>Storage/Delivery Location: _____</p> <p>_____</p>
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Withheld cranberries must meet the standards of grade, size, quality and condition established by the CMC under the applicable volume regulation.

**Complete This Section if Disposing Whole Fruit**

<p><b>5. Lot Quantity</b></p> <p>Percent Marketable: _____ %</p> <p>Percent Defect: _____ %</p> <p>Total Marketable: _____ %</p>	<p><b>6. Receiving Information (Optional)</b></p> <p>Grower Name: _____</p> <p>Delivery Date: _____</p> <p>Receiving #: _____</p> <p>Receiving Location: _____</p>
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According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0304. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**Complete This Section for All Disposals**

<b>Disposal Site/Lot</b>			
<b>Recipient:</b> _____			
Address: _____			
Contact Name: _____		Phone: _____	Email: _____
_____			
<b>Truck Info:</b>	Transport Co: _____	Truck #: _____	Bin Weight: _____
	Gross Weight: _____	Net Weight: _____	Tare Weight: _____
<b>Disposal Method</b> ( <i>Choose one</i> ):			
<input type="checkbox"/> Sanitary Landfill <input type="checkbox"/> Composting <input type="checkbox"/> Fermentation <input type="checkbox"/> Incineration <input type="checkbox"/> Other (Describe): _____			
<input type="checkbox"/> Disposal of Concentrate/Low Brix Juice via Wastewater Treatment Process ( <i>*Attach documentation to confirm volumes.</i> )			

**HANDLER CERTIFICATION**

I, \_\_\_\_\_ hereby certify to the CMC and the Secretary of Agriculture that this is a true and correct record of information regarding the undersigned Handler for the current crop year, and that the undersigned handler has a good faith intent to withhold cranberries in accord with the Marketing Order as described herein. I further certify that I have the authority to make such representation on behalf of the undersigned handler.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**INSPECTOR CERTIFICATION (If Applicable)**

The undersigned recipient of the lot of withheld cranberries that are described herein has received them for the purposes of disposing of them in the manner described herein. I hereby certify to the CMC and to the Secretary of Agriculture that the withheld cranberries have been disposed as described herein.

Company Name: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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## HANDLER WITHHOLDING CONVERSION

### PROCESSED CRANBERRY PRODUCTS TO BARRELS

This form establishes the guidelines for the quantities of processed cranberries that must be withheld in lieu of raw cranberries in any crop year in which a handler withholding is established under §929.54 of the Marketing Order. The purpose of the form is to allow the Cranberry Marketing Committee (CMC) and handlers to ascertain that for such crop year, a quantity of processed cranberries acquired by the handler, has been withheld in lieu of withheld cranberries during such crop year. All definitions used in this form shall have the same meaning as those in §§929.1-929.17 of the Marketing Order.

Handlers wishing to withhold Cranberry Juice Concentrate (Conc.), Low Brix juice, or Sweetened Dried Cranberries (SDC), can use the % Solids Brix Chart, Exhibit 1, and the Processed Cranberry Conversions Sheet to determine raw fruit equivalencies when disposing of processed cranberry products.

Disposal Conversions					
<b>Cranberry Concentrate (50 Brix) Withholding</b>	Gallons of Conc.	/	Area Avg. Brix / FSP per gal.	=	Barrels of Raw Fruit
	Sample (MA handler)				
<b>Gallons of Concentrate to Barrels of Raw Fruit</b>	6,000 gal.	/	1.64	=	3,658.54 bbls.
<b>Cranberry Concentrate (50 Brix) Withholding</b>	Barrels of Raw Fruit	X	Area Avg. Brix / FSP per gal.	=	Gallons of Conc.
	Sample (MA handler)				
<b>Barrels of Raw Fruit to Gallons of Concentrate</b>	4,500 bbls.	X	1.64	=	7,380 gal. of 50 brix Conc.

\* Refer to Exhibit 1 for data needed in this calculation

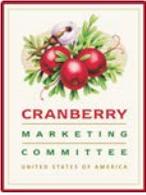
Disposal Conversions					
<b>Low Brix Juice Withholding</b>	Gallons of Juice	/	(FSP per gal. of Conc./FSP per gal. Juice)	/	Area Avg. Brix / FSP per gal. = Barrels of Raw Fruit
	Sample: MA handler disposing of 11,000 gallons of 5.0 brix juice				
<b>Gallons of Low Brix Juice to Barrels of Raw Fruit</b>	11,000 gal.	/	(5.126 / .4243)	/	1.64 = 555.24 bbls.

\* Refer to % Solids Brix Chart for data needed in this calculation

Disposal Conversions					
<b>SDC Withholding</b>	Pounds of SDC	/	Conversion Factor (from section D in Processed Cranberry Conversion Sheet)	/	100 lbs. (barrel) = Barrels of Raw Fruit
	Sample: MA handler disposing of 24,000 lbs. of SDCs				
<b>Pounds SDCs to Barrels of Raw Fruit</b>	24,000	/	1.026	/	100 = 233.92

\* Refer to Processed Cranberry Conversion Sheet for data needed in this calculation

**NOTICE: For cranberry products other than Concentrate, Juice, or SDCs, a handler must submit a written request to the CMC for approval of product and conversion calculations prior to disposal.**



## EXHIBIT 1 EQUIVALENCIES ETC.

The following explains the calculations of Barrel equivalents for disposal of concentrates in lieu of disposing of whole fruit for the 2017 volume regulation. These calculations are designed to reduce the costs of refining product to 50 brix concentrate, when a product is being disposed of, though it is not intended to keep any company from being allowed to dispose of 50 brix concentrate should it chose to.

**The following conversions rely on using the figures from the attached Brix chart:**

The industry standard for concentrate is 50 Brix.

To calculate the approximate number of gallons of 50 Brix concentrate you will get from 1 barrel of cranberries, you divide the average brix of the barrel of fruit by the amount of fruit solid pounds in 50 brix concentrate as listed on the brix chart, 5.1260. Fruit with 10 brix yields 1.95 gallons of 50 brix concentrate.

**The proposed average brix per region are as follows, with the following regional conversions:**

Area Brix Average		Average Brix/FSP per gallon 50 Brix
OR	9.8	1.91 gallons
WA	9.3	1.81 gallons
BC	9.1	1.78 gallons
NJ	8.8	1.72 gallons
WI	8.7	1.70 gallons
EC	8.6	1.68 gallons
MA	8.4	1.64 gallons
All	8.7	1.70 gallons

To calculate the equivalencies for product coming off an SDC line, product is tested at least daily to measure the amount of brix. If the Brix level is 5.0, you divide the fruit solid pounds in 50 brix concentrate by the fruit solid pounds in 5.0 brix concentrate, to realize you need 12 gallons of 5.0 brix concentrate to make 50 brix concentrate. This calculation works for any number on the brix chart.

Lastly, you use the regional adjustment, in proportion to the source of fruit inputted into the process to calculate barrel equivalents. See formula, then example below:

**Gallons of concentrate** divided by **(FSP per gallon of 50 brix concentrate/FSP per gallon of measured concentrate)** divided by **regional conversion gallons = barrel equivalents**

For example: 200,000 gallons of 5.0 brix concentrate from a Wisconsin SDC line would calculate as follows with calculations shown

$$(200,000 \text{ gallons} / (5.1260 / .4243) \text{ FSP per gal}) / 1.70 \text{ gallons per barrel} = 9,739 \text{ barrel equivalents}$$

$$(200,000 \text{ gallons} / (12.08) \text{ FSP per gal}) / 1.70 \text{ gallons per barrel} = 9,739 \text{ barrel equivalents}$$

$$(16,556.29 \text{ gallons}) / 1.70 \text{ gallons per barrel} = 9,739 \text{ barrel equivalents}$$



## **MARKETABLE FRUIT DEFINITIONS**

### **For Use by Handlers for Compliance with any Volume Regulation under Marketing Order 929**

Except to the extent explicitly modified below, all definitions used in this form shall have the same meaning as those in §§929.1-929.17 of the Marketing Order.

#### **Marketable Cranberries**

- *Fresh* – 9/32 inch or larger fruit that is not processed in any method. Usually dry harvested, but can be wet harvested depending on region.
- *Processed* – 9/32 inch or larger fruit that is classified as canned, frozen, or dehydrated and processed by any other method to be used including but not limited to the following categories:
  - SDC
  - Concentrate
  - Sauce
  - Powders
  - Frozen
- “Marketable cranberries” does not include fruit that is poor or unusable, as described herein.

#### **Poor or Unusable Fruit:**

Poor or unusable fruit is defined as fruit less than 9/32” in diameter, fruit damaged by frost, mold, rot, mechanical abuse, decay, crushed, contamination from insects, or fruit which is uncolored. When the damage exceeds 25% of the piece of fruit, a berry will be considered unusable. A berry will be considered uncolored if less than 25% of the surface of the individual piece of fruit, in the aggregate, shows pink or red color characteristic of the cranberry. However, fruit destined for further processing and sale will not be considered unusable based on color alone. Poor or unusable fruit also includes any fruit that is considered unsuitable for human consumption. The percent Marketable Cranberries will be determined from the sample and applied against the entire load from which the sample was taken.

#### **Fruit considered to be counted for Handler Withholding:**

- Fruit that is considered *Marketable Cranberries* defined above, will be the only form of fruit to be counted as part of the Handler Withholding percentage for each handler.



% Solids Chart

% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.
0.0	8.322	0.0000	24.0	9.163	2.1991	48.0	10.161	4.8773
0.1	8.325	0.0084	24.1	9.167	2.2092	48.1	10.165	4.8897
0.2	8.329	0.0168	24.2	9.171	2.2194	48.2	10.170	4.9021
0.3	8.332	0.0252	24.3	9.175	2.2295	48.3	10.175	4.9145
0.4	8.335	0.0336	24.4	9.178	2.2394	48.4	10.179	4.9269
0.5	8.338	0.0421	24.5	9.182	2.2496	48.5	10.184	4.9394
0.6	8.341	0.0505	24.6	9.186	2.2598	48.6	10.189	4.9518
0.7	8.345	0.0589	24.7	9.190	2.2699	48.7	10.194	4.9642
0.8	8.348	0.0673	24.8	9.193	2.2799	48.8	10.198	4.9766
0.9	8.351	0.0758	24.9	9.197	2.2901	48.9	10.203	4.9890
1.0	8.354	0.0835	25.0	9.201	2.3003	49.0	10.207	5.0014
1.1	8.357	0.0919	25.1	9.205	2.3105	49.1	10.211	5.0138
1.2	8.361	0.1003	25.2	9.209	2.3206	49.2	10.216	5.0263
1.3	8.364	0.1087	25.3	9.212	2.3308	49.3	10.220	5.0388
1.4	8.367	0.1171	25.4	9.216	2.3410	49.4	10.225	5.0513
1.5	8.371	0.1256	25.5	9.220	2.3512	49.5	10.230	5.0638
1.6	8.374	0.1340	25.6	9.224	2.3616	49.6	10.234	5.0762
1.7	8.377	0.1424	25.7	9.228	2.3716	49.7	10.239	5.0886
1.8	8.380	0.1508	25.8	9.231	2.3818	49.8	10.243	5.1011
1.9	8.384	0.1593	25.9	9.235	2.3920	49.9	10.248	5.1135
2.0	8.387	0.1667	26.0	9.239	2.4021	50.0	10.252	5.1260
2.1	8.390	0.1762	26.1	9.243	2.4124	50.1	10.256	5.1386
2.2	8.393	0.1846	26.2	9.247	2.4227	50.2	10.261	5.1513
2.3	8.397	0.1931	26.3	9.251	2.4330	50.3	10.266	5.1640
2.4	8.400	0.2016	26.4	9.255	2.4433	50.4	10.271	5.1766
2.5	8.403	0.2101	26.5	9.259	2.4536	50.5	10.276	5.1893
2.6	8.406	0.2186	26.6	9.262	2.4639	50.6	10.280	5.2018
2.7	8.409	0.2271	26.7	9.266	2.4742	50.7	10.285	5.2145
2.8	8.413	0.2356	26.8	9.270	2.4845	50.8	10.290	5.2272
2.9	8.416	0.2441	26.9	9.274	2.4948	50.9	10.295	5.2398
3.0	8.419	0.2526	27.0	9.278	2.5051	51.0	10.299	5.2525
3.1	8.422	0.2611	27.1	9.282	2.5155	51.1	10.303	5.2651
3.2	8.426	0.2696	27.2	9.286	2.5258	51.2	10.308	5.2777
3.3	8.429	0.2782	27.3	9.290	2.5362	51.3	10.312	5.2903
3.4	8.432	0.2867	27.4	9.294	2.5465	51.4	10.317	5.3030
3.5	8.435	0.2952	27.5	9.298	2.5569	51.5	10.322	5.3158
3.6	8.439	0.3038	27.6	9.301	2.5673	51.6	10.327	5.3287
3.7	8.442	0.3124	27.7	9.305	2.5777	51.7	10.332	5.3416
3.8	8.445	0.3209	27.8	9.309	2.5880	51.8	10.336	5.3540
3.9	8.452	0.3295	27.9	9.313	2.5984	51.9	10.341	5.3670
4.0	8.452	0.3381	28.0	9.317	2.6088	52.0	10.345	5.3794
4.1	8.455	0.3467	28.1	9.321	2.6193	52.1	10.349	5.3922
4.2	8.459	0.3553	28.2	9.325	2.6297	52.2	10.354	5.4051
4.3	8.462	0.3639	28.3	9.329	2.6402	52.3	10.359	5.4179
4.4	8.465	0.3725	28.4	9.333	2.6507	52.4	10.364	5.4307
4.5	8.469	0.3811	28.5	9.337	2.6612	52.5	10.368	5.4436
4.6	8.472	0.3897	28.6	9.341	2.6716	52.6	10.373	5.4564
4.7	8.475	0.3983	28.7	9.345	2.6821	52.7	10.378	5.4692
4.8	8.478	0.4069	28.8	9.349	2.6926	52.8	10.383	5.4822
4.9	8.482	0.4156	28.9	9.353	2.7030	52.9	10.388	5.4949
5.0	8.485	0.4243	29.0	9.357	2.7135	53.0	10.392	5.5076
5.1	8.488	0.4329	29.1	9.361	2.7240	53.1	10.396	5.5203
5.2	8.492	0.4416	29.2	9.365	2.7346	53.2	10.401	5.5333
5.3	8.495	0.4502	29.3	9.369	2.7451	53.3	10.406	5.5464
5.4	8.499	0.4589	29.4	9.373	2.7556	53.4	10.411	5.5595
5.5	8.502	0.4676	29.5	9.377	2.7662	53.5	10.416	5.5724
5.6	8.505	0.4763	29.6	9.380	2.7767	53.6	10.420	5.5853
5.7	8.509	0.4850	29.7	9.388	2.7873	53.7	10.425	5.5982
5.8	8.512	0.4937	29.8	9.392	2.7978	53.8	10.430	5.6113
5.9	8.156	0.5024	29.9	9.396	2.8083	53.9	10.435	5.6242

% Solids Chart

% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.
6.0	8.519	0.5111	30.0	9.396	2.8188	54.0	10.439	5.6371
6.1	8.522	0.5198	30.1	9.400	2.8295	54.1	10.443	5.6501
6.2	8.526	0.5286	30.2	9.404	2.8401	54.2	10.448	5.6631
6.3	8.529	0.5373	30.3	9.408	2.8507	54.3	10.453	5.6760
6.4	8.532	0.5460	30.4	9.412	2.8613	54.4	10.458	5.6892
6.5	8.536	0.5548	30.5	9.416	2.8720	54.5	10.463	5.7022
6.6	8.539	0.5636	30.6	9.420	2.8826	54.6	10.467	5.7152
6.7	8.542	0.5723	30.7	9.424	2.8933	54.7	10.472	5.7282
6.8	8.545	0.5811	30.8	9.428	2.9039	54.8	10.477	5.7414
6.9	8.549	0.5899	30.9	9.432	2.9146	54.9	10.482	5.7546
7.0	8.552	0.5986	31.0	9.436	2.9252	55.0	10.486	5.7673
7.1	8.555	0.6074	31.1	9.440	2.9360	55.1	10.491	5.7805
7.2	8.559	0.6162	31.2	9.444	2.9467	55.2	10.496	5.7937
7.3	8.562	0.6250	31.3	9.448	2.9575	55.3	10.500	5.8068
7.4	8.566	0.6339	31.4	9.452	2.9682	55.4	10.505	5.8200
7.5	8.569	0.6427	31.5	9.457	2.9790	55.5	10.510	5.8332
7.6	8.572	0.6515	31.6	9.461	2.9897	55.6	10.515	5.8463
7.7	8.575	0.6603	31.7	9.465	3.0004	55.7	10.520	5.8595
7.8	8.579	0.6692	31.8	9.469	3.0111	55.8	10.524	5.8727
7.9	8.583	0.6781	31.9	9.473	3.0219	55.9	10.529	5.8858
8.0	8.586	0.6869	32.0	9.477	3.0326	56.0	10.534	5.8990
8.1	8.589	0.6957	32.1	9.481	3.0434	56.1	10.538	5.9122
8.2	8.593	0.7046	32.2	9.485	3.0542	56.2	10.543	5.9255
8.3	8.596	0.7135	32.3	9.489	3.0650	56.3	10.548	5.9387
8.4	8.600	0.7225	32.4	9.493	3.0758	56.4	10.553	5.9519
8.5	8.603	0.7313	32.5	9.497	3.0866	56.5	10.558	5.9651
8.6	8.606	0.7401	32.6	9.501	3.0974	56.6	10.562	5.9783
8.7	8.610	0.7491	32.7	9.505	3.1082	56.7	10.567	5.9915
8.8	8.613	0.7579	32.8	9.509	3.1190	56.8	10.572	6.0047
8.9	8.617	0.7669	32.9	9.513	3.1298	56.9	10.577	6.0179
9.0	8.620	0.7758	33.0	9.517	3.1406	57.0	10.581	6.0312
9.1	8.623	0.7847	33.1	9.521	3.1515	57.1	10.586	6.0446
9.2	8.627	0.7937	33.2	9.525	3.1624	57.2	10.591	6.0580
9.3	8.630	0.8026	33.3	9.529	3.1734	57.3	10.596	6.0714
9.4	8.634	0.8116	33.4	9.533	3.1843	57.4	10.601	6.0849
9.5	8.637	0.8205	33.5	9.538	3.1952	57.5	10.606	6.0983
9.6	8.641	0.8295	33.6	9.542	3.2061	57.6	10.610	6.1117
9.7	8.645	0.8386	33.7	9.546	3.2170	57.7	10.615	6.1251
9.8	8.648	0.8475	33.8	9.550	3.2279	57.8	10.620	6.1386
9.9	8.652	0.8565	33.9	9.554	3.2388	57.9	10.625	6.1520
10.0	8.655	0.8655	34.0	9.558	3.2497	58.0	10.630	6.1654
10.1	8.658	0.8745	34.1	9.562	3.2607	58.1	10.635	6.1788
10.2	8.662	0.8835	34.2	9.566	3.2717	58.2	10.640	6.1923
10.3	8.665	0.8925	34.3	9.570	3.2827	58.3	10.644	6.2058
10.4	8.669	0.9019	34.4	9.574	3.2937	58.4	10.649	6.2193
10.5	8.672	0.9106	34.5	9.579	3.3047	58.5	10.654	6.2328
10.6	8.675	0.9196	34.6	9.583	3.3157	58.6	10.659	6.2462
10.7	8.679	0.9287	34.7	9.587	3.3267	58.7	10.664	6.2596
10.8	8.682	0.9377	34.8	9.591	3.3377	58.8	10.668	6.2731
10.9	8.686	0.9486	34.9	9.595	3.3487	58.9	10.673	6.2865
11.0	8.689	0.9558	35.0	9.599	3.3597	59.0	10.678	6.3000
11.1	8.692	0.9648	35.1	9.603	3.3708	59.1	10.683	6.3136
11.2	8.696	0.9740	35.2	9.607	3.3818	59.2	10.688	6.3273
11.3	8.700	0.9831	35.3	9.611	3.3929	59.3	10.693	6.3409
11.4	8.703	0.9921	35.4	9.615	3.4040	59.4	10.698	6.3554
11.5	8.707	1.0013	35.5	9.620	3.4151	59.5	10.703	6.3681
11.6	8.710	1.0104	35.6	9.624	3.4261	59.6	10.707	6.3817
11.7	8.714	1.0195	35.7	9.628	3.4372	59.7	10.712	6.3953
11.8	8.717	1.0286	35.8	9.632	3.4483	59.8	10.717	6.4090
11.9	8.721	1.0378	35.9	9.636	3.4594	59.9	10.722	6.4226

% Solids Chart

% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.
12.0	8.724	1.0469	36.0	9.640	3.4704	60.0	10.727	6.4362
12.1	8.728	1.0561	36.1	9.644	3.4816	60.1	10.732	6.4500
12.2	8.731	1.0652	36.2	9.648	3.4928	60.2	10.737	6.4638
12.3	8.735	1.0744	36.3	9.652	3.5040	60.3	10.742	6.4775
12.4	8.738	1.0835	36.4	9.656	3.5152	60.4	10.747	6.4913
12.5	8.742	1.0928	36.5	9.661	3.5264	60.5	10.752	6.5051
12.6	8.745	1.1020	36.6	9.665	3.5376	60.6	10.757	6.5189
12.7	8.749	1.1111	36.7	9.670	3.5488	60.7	10.762	6.5326
12.8	8.752	1.1203	36.8	9.674	3.56	60.8	10.767	6.5464
12.9	8.756	1.1295	36.9	8.678	3.5711	60.9	10.772	6.5602
13.0	8.759	1.1387	37.0	9.682	3.5823	61.0	10.777	6.5740
13.1	8.763	1.1480	37.1	9.686	3.5936	61.1	10.782	6.5878
13.2	8.766	1.1571	37.2	9.690	3.6049	61.2	10.787	6.6016
13.3	8.770	1.1664	37.3	9.695	3.6162	61.3	10.792	6.6154
13.4	8.773	1.1756	37.4	9.699	3.6275	61.4	10.797	6.6292
13.5	8.777	1.1849	37.5	9.703	3.6388	61.5	10.802	6.6431
13.6	8.781	1.1942	37.6	9.707	3.6500	61.6	10.806	6.6569
13.7	8.785	1.2035	37.7	9.712	3.6613	61.7	10.811	6.6707
13.8	8.788	1.2127	37.8	9.716	3.6726	61.8	10.816	6.6845
13.9	8.792	1.2221	37.9	9.720	3.6838	61.9	10.821	6.6983
14.0	8.795	1.2313	38.0	9.724	3.6951	62.0	10.826	6.7121
14.1	8.799	1.2407	38.1	9.728	3.7064	62.1	10.831	6.7261
14.2	8.802	1.2499	38.2	9.732	3.7178	62.2	10.836	6.7401
14.3	8.805	1.2591	38.3	9.737	3.7292	62.3	10.841	6.7540
14.4	8.809	1.2685	38.4	9.741	3.7406	62.4	10.846	6.7680
14.5	8.813	1.2779	38.5	9.745	3.7520	62.5	10.851	6.7820
14.6	8.816	1.2871	38.6	9.749	3.7633	62.6	10.856	6.7960
14.7	8.820	1.2965	38.7	9.754	3.7746	62.7	10.861	6.8099
14.8	8.823	1.3058	38.8	9.758	3.7860	62.8	10.866	6.8239
14.9	8.827	1.3152	38.9	9.762	3.7974	62.9	10.871	6.8379
15.0	8.830	1.3245	39.0	9.766	3.8089	63.0	10.876	6.8519
15.1	8.833	1.3338	39.1	9.771	3.8202	63.1	10.881	6.8659
15.2	8.837	1.3432	39.2	9.775	3.8317	63.2	10.886	6.8800
15.3	8.841	1.3527	39.3	9.779	3.8432	63.3	10.891	6.8941
15.4	8.844	1.3620	39.4	9.783	3.8547	63.4	10.896	6.9082
15.5	8.848	1.3714	39.5	9.788	3.8662	63.5	10.901	6.9223
15.6	8.852	1.3809	39.6	9.792	3.8777	63.6	10.906	6.9363
15.7	8.856	1.3904	39.7	9.796	3.8891	63.7	10.911	6.9504
15.8	8.859	1.3997	39.8	9.800	3.9006	63.8	10.916	6.9645
15.9	8.863	1.4092	39.9	9.805	3.9121	63.9	10.921	6.9785
16.0	8.866	1.4186	40.0	9.809	3.9236	64.0	10.926	6.9926
16.1	8.870	1.4280	40.1	9.814	3.9351	64.1	10.931	7.0068
16.2	8.873	1.4374	40.2	9.818	3.9467	64.2	10.936	7.0211
16.3	8.876	1.4468	40.3	9.822	3.9583	64.3	10.941	7.0353
16.4	8.880	1.4563	40.4	9.826	3.9699	64.4	10.946	7.0496
16.5	8.884	1.4659	40.5	9.831	3.9815	64.5	10.952	7.0639
16.6	8.888	1.4754	40.6	9.835	3.9930	64.6	10.957	7.0781
16.7	8.892	1.4850	40.7	9.839	4.0046	64.7	10.962	7.0923
16.8	8.895	1.4944	40.8	9.843	4.0162	64.8	10.967	7.1066
16.9	8.899	1.5039	40.9	9.848	4.0277	64.9	10.972	7.1208
17.0	8.902	1.5133	41.0	9.852	4.0393	65.0	10.977	7.1351
17.1	8.905	1.5228	41.1	9.856	4.0509	65.1	10.982	7.1494
17.2	8.909	1.5323	41.2	9.861	4.0626	65.2	10.987	7.1636
17.3	8.913	1.5419	41.3	9.865	4.0743	65.3	10.992	7.1779
17.4	8.917	1.5516	41.4	9.869	4.0860	65.4	10.997	7.1922
17.5	8.921	1.5612	41.5	9.874	4.0977	65.5	11.002	7.2065
17.6	8.924	1.5706	41.6	9.878	4.1093	65.6	11.007	7.2207
17.7	8.928	1.5803	41.7	9.882	4.1209	65.7	11.012	7.235
17.8	8.932	1.5899	41.8	9.886	4.1326	65.8	11.017	7.2493
17.9	8.936	1.5995	41.9	9.891	4.1441	65.9	11.022	7.2635

% Solids Chart

% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.	% Solids	#Gallon	# F.S. Gal.
18.0	8.939	1.6090	42.0	9.895	4.1559	66.0	11.027	7.2778
18.1	8.942	1.6185	42.1	9.899	4.1677	66.1	11.032	7.2923
18.2	8.946	1.6282	42.2	9.904	4.1795	66.2	11.037	7.3068
18.3	8.950	1.6378	42.3	9.909	4.1913	66.3	11.042	7.3213
18.4	8.953	1.6474	42.4	9.913	4.2031	66.4	11.048	7.3359
18.5	8.957	1.6570	42.5	9.917	4.2149	66.5	11.053	7.3504
18.6	8.961	1.6667	42.6	9.921	4.2266	66.6	11.058	7.3649
18.7	8.965	1.6765	42.7	9.926	4.2384	66.7	11.064	7.3794
18.8	8.968	1.6860	42.8	9.930	4.2502	66.8	11.069	7.3939
18.9	8.972	1.6957	42.9	9.935	4.2620	66.9	11.074	7.4084
19.0	8.975	1.7053	43.0	9.939	4.2738	67.0	11.079	7.4229
19.1	8.979	1.7150	43.1	9.943	4.2856	67.1	11.084	7.4374
19.2	8.982	1.7245	43.2	9.948	4.2975	67.2	11.089	7.4520
19.3	8.986	1.7343	43.3	9.952	4.3094	67.3	11.094	7.4665
19.4	8.990	1.7441	43.4	9.957	4.3213	67.4	11.099	7.4811
19.5	8.994	1.7538	43.5	9.961	4.3332	67.5	11.105	7.4957
19.6	8.997	1.7634	43.6	9.965	4.3450	67.6	11.110	7.5102
19.7	9.001	1.7732	43.7	9.970	4.3569	67.7	11.115	7.5247
19.8	9.005	1.7830	43.8	9.974	4.3688	67.8	11.120	7.5393
19.9	9.009	1.7928	43.9	9.979	4.3806	67.9	11.125	7.5538
20.0	9.012	1.8024	44.0	9.983	4.3925	68.0	11.130	7.5684
20.1	9.016	1.8122	44.1	9.987	4.4045	68.1	11.135	7.5831
20.2	9.019	1.8218	44.2	9.992	4.4165	68.2	11.140	7.5978
20.3	9.023	1.8317	44.3	9.996	4.4284	68.3	11.145	7.6125
20.4	9.027	1.8415	44.4	10.001	4.4404	68.4	11.151	7.6273
20.5	9.031	1.8514	44.5	10.005	4.4524	68.5	11.156	7.6420
20.6	9.034	1.8610	44.6	10.009	4.4643	68.6	11.161	7.6567
20.7	9.038	1.8709	44.7	10.014	4.4762	68.7	11.167	7.6714
20.8	9.042	1.8807	44.8	10.018	4.4882	68.8	11.172	7.6861
20.9	9.046	1.8906	44.9	10.023	4.5002	68.9	11.177	7.7008
21.0	9.049	1.9003	45.0	10.027	4.5122	69.0	11.182	7.7156
21.1	9.053	1.9102	45.1	10.031	4.5242	69.1	11.187	7.7304
21.2	9.057	1.9201	45.2	10.036	4.5363	69.2	11.192	7.7452
21.3	9.061	1.9300	45.3	10.040	4.5483	69.3	11.197	7.7600
21.4	9.064	1.9397	45.4	10.045	4.5604	69.4	11.203	7.7749
21.5	9.068	1.9496	45.5	10.049	4.5725	69.5	11.208	7.7897
21.6	9.072	1.9596	45.6	10.053	4.5845	69.6	11.213	7.8045
21.7	9.076	1.9695	45.7	10.058	4.5965	69.7	11.219	7.8194
21.8	9.079	1.9792	45.8	10.062	4.6086	69.8	11.224	7.8342
21.9	9.083	1.9892	45.9	10.067	4.6207	69.9	11.229	7.8490
22.0	9.087	1.9991	46.0	10.071	4.6327	70.0	11.234	7.8638
22.1	9.091	2.0091	46.1	10.075	4.6448	70.1	11.239	7.8787
22.2	9.095	2.0191	46.2	10.080	4.6570	70.2	11.244	7.8937
22.3	9.099	2.0291	46.3	10.084	4.6692	70.3	11.249	7.9086
22.4	9.102	2.0388	46.4	10.089	4.6814	70.4	11.255	7.9235
22.5	9.106	2.0489	46.5	10.094	4.6936	70.5	11.260	7.9384
22.6	9.110	2.0589	46.6	10.098	4.7058	70.6	11.265	7.9534
22.7	9.114	2.0689	46.7	10.103	4.7180	70.7	11.271	7.9683
22.8	9.117	2.0787	46.8	10.107	4.7302	70.8	11.276	7.9832
22.9	9.121	2.0887	46.9	10.112	4.7423	70.9	11.281	7.9981
23.0	9.125	2.0988	47.0	10.116	4.7545	71.0	11.286	8.0131
23.1	9.129	2.1088	47.1	10.120	4.7668	71.1	11.291	8.0282
23.2	9.133	2.1189	47.2	10.125	4.7791	71.2	11.297	8.0433
23.3	9.136	2.1287	47.3	10.129	4.7913	71.3	11.302	8.0584
23.4	9.140	2.1388	47.4	10.134	4.8036	71.4	11.307	8.0735
23.5	9.144	2.1488	47.5	10.139	4.8159	71.5	11.313	8.0886
23.6	9.148	2.1589	47.6	10.143	4.8282	71.6	11.318	8.1037
23.7	9.152	2.1690	47.7	10.148	4.8404	71.7	11.323	8.1188
23.8	9.155	2.1789	47.8	10.152	4.8527	71.8	11.328	8.1339
23.9	9.159	2.1890	47.9	10.157	4.8650	71.9	11.334	8.1490

% Solids Chart

% Solids	#Gallon	# F.S. Gal.
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% Solids	#Gallon	# F.S. Gal.
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% Solids	#Gallon	# F.S. Gal.
72.0	11.339	8.1641
72.1	11.334	8.1793
72.2	11.350	8.1945
72.3	11.355	8.2097
72.4	11.360	8.2249
72.5	11.366	8.2401
72.6	11.371	8.2553
72.7	11.376	8.2705
72.8	11.381	8.2857
72.9	11.386	8.3009