# Inventory 101: Definitions, Requirements, and Best Practices

Review your TTB obligations for inventory tracking, how to manage inventory processes, and how DISTILL x 5 makes it easy to stay sane.





# So what is inventory anyway?

- The word "inventory" can mean different things to different people.
- The TTB's definition of "inventory" may differ from an accountant's or a distiller's, so it's important to clarify when talking inventory.
- Botanicals vs. glass bottles vs. spirits





# TTB's Inventory

- We immediately think spirits. Which is true.
- The CFR requires inventories of bulk spirits and wine to be taken at various points throughout a calendar year.
- TTB also looks for records of other inventory items at your DSP:
  - Liquor Bottles
  - Fermentables/nonalcoholic materials for production
  - Denatured spirits, articles, spirits residues
  - Beer, Wine, Cider
  - 27 CFR Subpart V Records and Reports





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# Definitions

- Bulk Distilled Spirits distilled spirits in a container having a capacity in excess of one wine gallon
- Container A receptacle, vessel, or form of bottle, can, <u>package</u>, tank or pipeline (where specifically included) used or capable of being used to contain, store, transfer, convey, remove, or withdraw spirits and <u>denatured spirits</u>.
- Package Cask or barrel or similar wooden container, or a drum or similar metal container.





# **Inventory Obligations**

- At a minimum, the CFR requires quarterly inventories to be taken for bulk spirits and wines:
  - Production (Unfinished Spirits)
  - Storage
  - Processing
  - Denatured Spirits
- TTB can require inventory to be taken at any time





# **Production Inventory**

- <u>27 CFR 19.312</u> states that DSPs "must take physical inventory of the spirits and denatured spirits...at the close of each calendar quarter."
- Record on Production Report at ends of quarters (Mar, June, Sept, Dec)
- Line 17 (a) Record spirits and denatured spirits received for redistillation
- Line 17 (b) Record all other unfinished spirits
- Spirits that are finished, should be moved into storage



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	12. WITHDRAWN FOR RESEARCH, DEVELOPMENT, OR TESTING <sup>2</sup>			0	0	0	0		0
	13.			0.00	0.00	0.00	0.00	0	.00
	14. PRODUCED (Total, Lines 1 through 13)			516.50	0	0	0		0
	15. RECEIVED FOR REDISTILLATION <sup>3</sup>			0	0	0	0	0 0	
	16. 4			0.00	0.00	0.00	0.00	0.00 0.00	
17.	A PHYSICAL INVENTORY- END OF CALENDAR (a) RECEIVED FOR REDISTILLATION <sup>3</sup>			0		0		0	
	QUARTER	(b) UNFINISH	ED SPIRITS	0.00	0.00	0.00	0.00	0	.00
	PART II - PRODUCTION OF ALCOHOL AND SPIRITS OF 190° OR MORE OF PROOF, BY KIND OF MATERIAL USED			PART III - PRODUCTION OF WHISKY BY KIND AND COOPERAGE USED					
	KIND OF MATERIAL (a) (b)			KIND (a)	PROOF GALLONS NEW COOPERAGE (b)	PROOF GALLC USED COOPER (c)	AGE DEPOSITED		
1.	GRAIN 0		1. BOURBON	516.50		0	0		
2.	. FRUIT 0		2. CORN	0		0	0		
3.			3. RYE	0		0	0		
4.			4. LIGHT	0		0	0		
5.	5. ETHYLENE GAS 0		5.	0		0	0		
6.	6. SULPHITE LIQUORS 0		6.	0	0 0		<b>0</b> 6.		
7.	7. FROM REDISTILLATION 0		7.	0.00	0.00		0.00	7.	
8.	8. 0 8		8.	0.00	(	0.00 0.0		8.	

<sup>1</sup>Does not include spirits withdrawn for experimental or research use under 26 U.S.C. 5312; report these at line 12.

 $^2 Show withdrawals under 26 U.S.C. 5214(a)(10), 5373(b)(4) , or 5312 .$ 

<sup>3</sup>Does not include recovered denatured spirits or articles returned for restoration and/or denatura 27 CFR 19.683; such materials should be reported on TTB F 5110.43, Monthly Report of Proce Operations. Imported spirits received for redistillation will be identified as such and reported set



EX5

# Storage Inventory

- <u>27 CFR 19.333</u> states that DSPs "must take a physical inventory of all spirits and wine held in the storage account in tanks and other containers (except packages)..."
- Only bulk spirits and wine
- Packages (barrels) do not need to be inventoried on a quarterly basis – could you imagine?!





# **Processing Inventory**

- Processing encompasses both bulk spirits and wine, as well as bottled spirits. These have different inventory requirements.
- <u>27 CFR 19.371</u> states that DSPs "must take physical inventory of all wines and bulk spirits (except packages)...at the close of each calendar quarter."





### Processing (Denaturing) Inventory

 <u>27 CFR 19.394</u> states that DSPs "must take physical inventory of all denatured spirits in the processing account at the close of each calendar quarter."





# **Counting Liquid**

- To take inventory of bulk spirits and wines, you must gauge your spirits.
- "Book value" vs. physical inventory
- Opportunity to reconcile with reports





### Gauges

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- When gauging your spirits for inventory, be sure to follow the same gauge requirements outlined in:
  - <u>27 CFR 19.618</u>: Gauge Record
  - <u>27 CFR 19.619</u>: Package Gauge Record
  - <u>27 CFR 19.284</u>: Quantity determination of bulk spirits





# **Bottled Spirits Inventory**

- <u>27 CFR 19.372</u> states that DSPs "must take an inventory of bottled and packaged spirits in the processing account for the return periods end June 30 and December 31 of each year."
- Semi-annual
- Possible to have different inventory periods if approved by TTB





# More than just "How Many?"

• In addition to counting the number of bottles you have in inventory, check for regulatory compliance:

– Are bottles cased?

- Avoid uncased product when possible
- Remnant cases filled and closed (if applicable)
- Are cases marked appropriately? (27 CFR 19.496)
- Bonded and Tax-Paid bottles kept separate?





# **Inventory Recap**

- Quarterly Inventory of Bulk Spirits and Wine (except packages) in:
  - Production
  - Storage
  - Processing
  - Denatured Spirits
- Semi-Annual Inventory of Bottled Spirit





### **Common Issues**

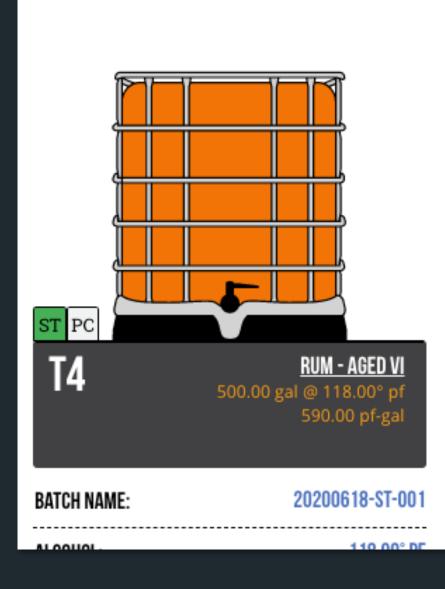
- TTB has a page dedicated to common issues found during audits at <a href="https://www.ttb.gov/distilled-spirits">https://www.ttb.gov/distilled-spirits</a>
- Most frequent violation is lack of signature and perjury statement: <u>27 CFR 19.45</u>
  - I declare under the penalties of perjury that this [insert type of document, such as report, or claim], including supporting documents, has been examined by me and, to the best of my knowledge and belief, is true, correct, and complete.

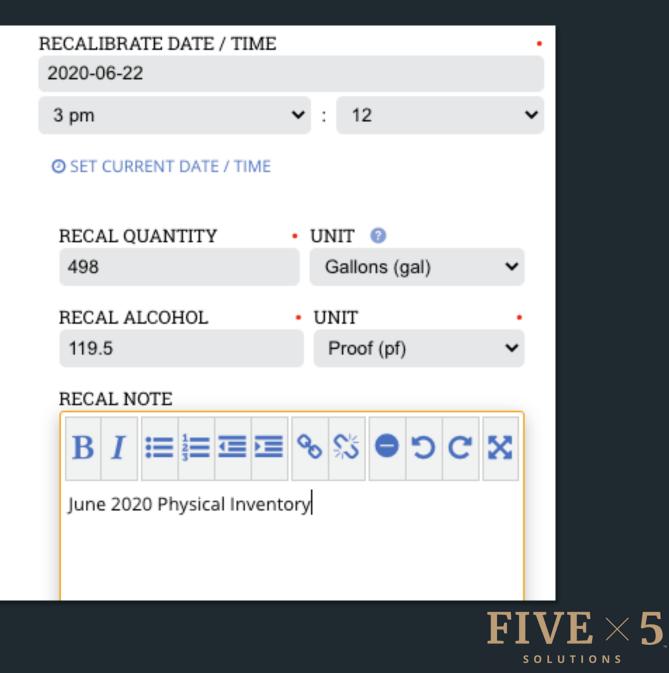




- Inventory summaries missing information: <u>27 CFR 19.623</u>
  - Date of inventory
  - Identity of containers
  - <u>Kind</u> and quantity of spirits, denatured spirits, and wines
  - Any losses (theft, voluntary destruction, etc), gains or shortages
  - Signature/Perjury statement
- DSPs often miss the kind of spirits, container identification, and the date.
- Forgetting to reconcile against reports (logging your actual losses/gains)
- **Batch Actions > Recalibrate** for the win!

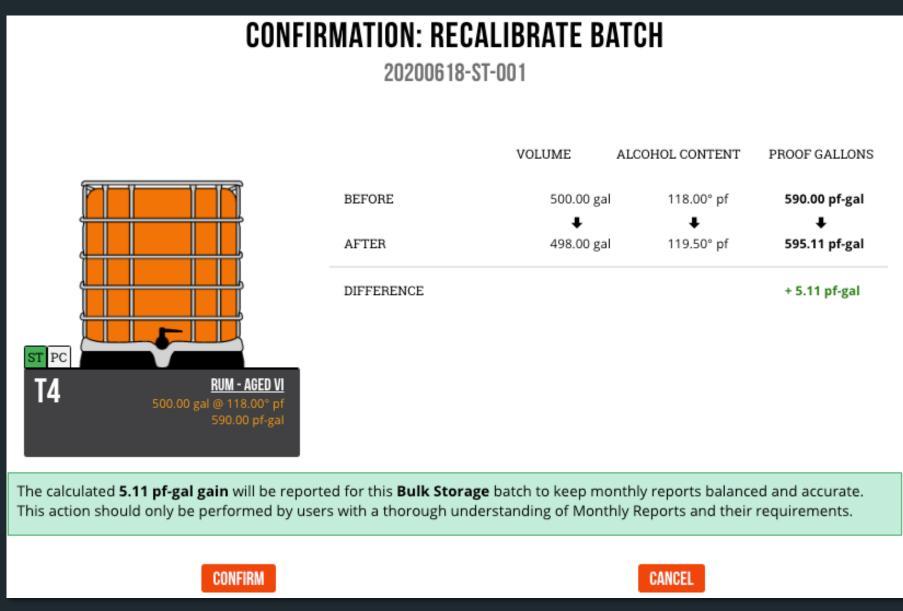






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# **Best Practices for Spirits Inventory**

- Train your staff and have regular reviews of requirements; specifically <u>27 CFR 19.623</u>
- Create a template for inventory for staff to use
- Create new employee onboarding/SOP documentation to address employee turnover or employee PTO (internal wiki)
- Keep inventory responsibilities with 1-2 individuals, schedule accordingly
- Daily recordkeeping/data entry to catch issues as they occur.





#### Spicoli's Specialty Spirits

Date: 6/23/2020

#### Physical Inventory

Performed By: J. SPICOLI

		-	-		
ID:	Class/Type:	Book Value:	Gauge Value:	Gain/Loss:	Reason/Notes:
BEER	n/a	0	0	0	beer, not spirit
BT01	bourbon whiskey	312рд	312 рд	0	,
CS01	n/a	0	0	0	) empty
FT01	n/a	0	0	C	wash, not spirit
FT02	n/a	0	0	0	wash, not spirit
FT03	n/a	0	0	0	wash, not spirit
HEAD	gin	100 рд	99.8 pg	0.2 pg - loss	loss during transfer not previosly recorded, logged in Dx5 6/23/20
HRT01	gin	122рд	122рд	C	
MC01	n/a	0	0	0	empty
PC	n/a	0	0	c	) empty
POT	n/a	0	0	0	empty
RT	neutral grain spirits	500 pg	500 pg	C	
SV01	rye whiskey	212 рд	212.5 рд	0.5 pg gain	gauging error, unproofed, logged in Dx5 6/23/20
SV02	n/a	0	0	· c	) empty
SV03	n/a	0	0	c	) empty
T1	n/a	0	0	C	l empty
T2	n/a	0	0	0	) empty
TAIL	whiskey	122 рд	122 рд	C	whiskey tails
	BEER BT01 CS01 FT01 FT02 FT03 HEAD HRT01 MC01 PC POT RT SV01 SV02 SV03 T1 T2	BEER $n/a$ BT01bourbon whiskeyCS01 $n/a$ FT01 $n/a$ FT02 $n/a$ FT03 $n/a$ HEADginMC01 $n/a$ PC $n/a$ POT $n/a$ RTneutral grain spiritsSV01 $r/a$ SV03 $n/a$ T1 $n/a$	BEER $n/a$ 0           BT01         bourbon whiskey         312pg           CS01 $n/a$ 0           FT01 $n/a$ 0           FT02 $n/a$ 0           FT03 $n/a$ 0           FT03 $n/a$ 0           HEAD         gin         100 pg           HRT01         gin         122pg           MC01 $n/a$ 0           PC $n/a$ 0           POT $n/a$ 0           RT         neutral grain spirits         500 pg           SV01         rye whiskey         212 pg           SV02 $n/a$ 0           T1 $n/a$ 0	BEER $n/a$ 0         0           BT01         bourbon whiskey         312pg         312 pg           CS01 $n/a$ 0         0           FT01 $n/a$ 0         0           FT02 $n/a$ 0         0           FT03 $n/a$ 0         0           FT03 $n/a$ 0         0           HEAD         gin         100 pg         91.8 pg           HRT01         gin         122pg         122pg           MC01 $n/a$ 0         0           PC $n/a$ 0         0           POT $n/a$ 0         0           POT $n/a$ 0         0           RT         neutral grain spirits         500 pg         500 pg           SV01         rye whiskey         212 pg         212.5 pg           SV02 $n/a$ 0         0           T1 $n/a$ 0         0           T2 $n/a$ 0         0	BEER $n/a$ $0$

I declare under the penalties of perjury that this Physical Inventory, including supporting documents, has been examined by me and, to the best of my knowledge and belief, is true, correct, and complete.

Signature: Date: Jeffery Spicoli 6/23/2020



SOLUTIONS

#### So what about my botanicals and bottles?

- Inventories of raw materials and supplies are equally important!
- No CFR requirement, but a business/financial requirement
- DISTILL x 5 Inventory Reports





# Raw Materials

- Count inventory, reconcile against Dx5
- Confirm suppliers, costs, review transactions
- Confirm Monthly Production Report of Operations – Part VI Materials Used
- Malt vs Wheat, etc.

#### ADJUST RAW MATERIAL QUANTITY

2 ROW BARLEY

#### DISTILLED SPIRITS PLANT

CURRENT: 250,099.00 POUNDS(S)

ADJUSTMENT DATE / TIME 2020-06-24		
9 am	✔ : 56	~
SET CURRENT DATE / TIME		
ADJUSTMENT TYPE		•
O Depletion		
Recalibration		
QUANTITY .	CONTAINER	
100	Sack(s) / 50.00 Pounds per	~
BOL DOCUMENT UPLOAD		
choose file		
NOTE		
Physical Inventory 6/30/2020		



# Supplies

TAX-STATUS	INVENTORY CT	WINE GALLONS	PROOF GALLONS
BONDED	2,605.83 Case(s)	3,097.75 gal	2,849.93 pf-gal
TAX-PAID	101.67 Case(s)	120.86 gal	111.19 pf-gal
TOTAL	2,707.50	3,218.61 OF 120.86 GAL	2,961.12 GAL

SUPPLY	SUPPLIES / ITEM	CURRENT INVENTORY	REORDER ALERT	LEAD TIME	AVERAGE UNIT COST	
Bottle - 750mL	1/1	1,538 Unit(s)	Not Set	2 weeks	\$0.00	~
<u>Box - 750mL Case</u>	1/6	19,617 Unit(s)	Not Set	Not Set	Not Available	♦
<u> Cork - 750mL</u>	1/1	254,955 Unit(s)	Not Set	Not Set	\$0.00	~
<u>Label - Bourbon</u> Wrap	1/1	1,759,010 Unit(s)	Not Set	Not Set	\$0.25	~
<u>Sleeve - 750mL</u>	1/1	268,959 Unit(s)	Not Set	2 days	\$0.17	~
SUPPLY TOTAL COG	S:				\$0.42	

• Count, reconcile against Dx5

- Confirm suppliers, cost, transactions
- Attached supplies to control inventory, manage

COGS

 $FIVE \times 5$ 



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# **Best Practices for Inventory**

- DISTILL x 5 for reporting, management, automation
- Encourage mobile device use for Dx5, or create paper worksheets/clipboard
- Create a template for inventory for staff to use
- Schedule inventories at regular intervals throughout the year
- Build a culture around accountability
  - Log data when it occurs
  - Let people make mistakes, but use as learning opportunities
  - Build honesty and trust with staff
- One size doesn't fit all





For additional questions or clarifications, email <u>support@fx5solutions.com</u>

### Thank You!





## Sources Cited

 "Common Compliance and Tax Issues Found During Distilled Spirits Plant (DSP) Audits," TTB.gov, July 11, 2016, <u>https://www.ttb.gov/distilled-spirits/common-compliance-and-tax-issues-surrounding-distilled-spirits-plant-dsp-audits</u>



