



Milk Crate Tracking and Reconciliation

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VP: Riley Seals

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Group Introductions

Jonathan Hundley

University of Tennessee
Supply Chain Management
Business Analytics

Orlando Fresh

Mitchell Carberry

Western Kentucky University
Business Management

Bowling Green Fresh

Steven Liao

Wake Forest University
Applied Mathematics
German

Clayton Fresh

Matthew Whittemore

Auburn University
Supply Chain Management
Montgomery Fresh

Mugunthvenkat Karthikeyan

Virginia Commonwealth University

MS Information Systems

Blair Fresh















Agenda

CURRENT STATE & GOALS

FINDINGS

RECOMMENDATIONS

RECAP



Current State



Serving customers via self-distribution since 2019



2023 missing crates: approx. 1.2 million crates ≈ \$3 million

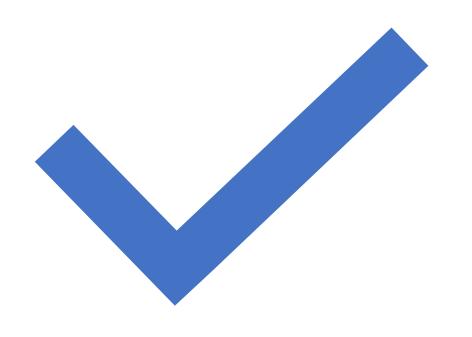


Ad hoc asset pickup processes, lack of data visibility



Unstandardized existing asset-tracking method & supply chain-wide spreadsheets

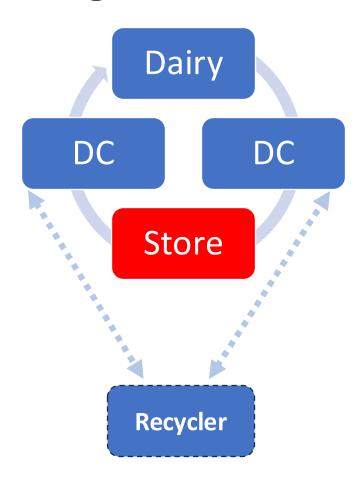




Goals

- Observe and analyze
- Identify and investigate
- Strategize and execute
- Address and Reduce

Findings



- Untracked and Unaccounted Milk Crates
- Unsecured Assets at Stores
- Inconsistent Tracking System
- Miscommunication between DCs
- Unpredictable Pickup System



DG Distribution Center Recommendations

Data

- IB to DCs through week 13: 6,826,463
- OB to Dairy through week 13: 6,738,541
- Difference through week 13: -159,384 crates

Insights

- Inconsistent and inaccurate tracking of cycling audit form
- Milk Crate Tracking sheets are too inconsistent across each variation of them

Actions

- New accountability and incentive schemes for accurately filling out audit form
- Consistency between employees and Distribution Centers

- Standardize the tracking process across each tracker to reduce the possibility of misinformation
- Create a SOP for the process of returning milk crates from Dry DCs to Fresh DCs



DOLLAR GENERAL	DOLLAR GENERAL CORPORATION - P Westville Distribution Center (96430) 6500 A US 421 Westville, IN	Load #:
Run#	воі: 4-8-24	Ready Date:
Carrier Assigned:	Batch Number:	Tractor #:
Trailer #:	Trailer Size:	Trailer Dock:
Temp Seal:	Backhaul Seal:	Empty Seal:
DC Comments: In case of a trailer b	s take a 53° empty trailer for backhaul pickups. If a 53° is unaventuraller to a backhaul vendor. Drivers must pick up all a available no then pick up what will fit using the following priority: 1-All Roller of Rolltainers. Trailer of Bothaulters. Trailer Maintenance Facility priority priority priority is the priority of the priority priorit	
Empty Rolltainers, and 3-Cardboan	then pick up which with a contract of Rolltainers. reakdown, please contact DG Trailer Maintenance Facility prior	
Empty Rolltainers, and 3-Cardboan DC Comments: In case of a trailer b 517-2018.	then pick up which will be a contact DG Trailer Maintenance Facility prior preakdown, please contact DG Trailer Maintenance Facility prior	
Empty Rolltainers, and 3-Cardooan DC Comments: In case of a trailer b 517-2018.	then pick up which with a contract of Rolltainers. reakdown, please contact DG Trailer Maintenance Facility prior	to calling Werner Breakdown. 434-
Empty Rolltainers, and 3-Cardooan DC Comments: In case of a trailer b 517-2018.	Interpret up with the property of Rolltainers. I LOAD TYPE - Outbound Load 270 Crates 1 Blue Bin Fst. Weight:	to calling Werner Breakdown. 434-
Empty Rolltainers, and 3-Cardooan DC Comments: In case of a trailer b 517-2018. OP # 1 Activity: DROP Est.	tone pick by which was to the following the pick by which was a contact DG Trailer Maintenance Facility prior LOAD TYPE - Outbound Load 270 Crates 1 Blue Ben Cartons: Est. Weight:	to calling Werner Breakdown. 434-
Empty Rolltainers, and 3-Cardooan DC Comments: In case of a trailer b 517-2018. Op # 1 Activity: DROP Est. Reference Numbers:	Cartons: The piece of which the state of the piece of th	to calling Werner Breakdown. 434-
Empty Rolltainers, and 3-Cardboard DC Comments: In case of a trailer b 517-2018. Op # 1 Activity: DROP Est. Reference Numbers: Seal Number:	tone pick by which was to the following the pick by which was a contact DG Trailer Maintenance Facility prior LOAD TYPE - Outbound Load 270 Crates 1 Blue Ben Cartons: Est. Weight:	to calling Werner Breakdown. 434-

ECEIVED, subject to individually the Property described below.	Clay	or	date	10.24	from	formorey (the weet	een established by the carrier and are available to company being understood throughout this contract
as meaning any person or cor- any of said Proporty over all o written, herein contained, inclu- onsigned to	oration in possession of the prop any portion of said route to dest		carry to delivery at said destinal time interested in all or any of	said Property that every	erwise to deliver to another carrier on the service to be performed beneunder sha	e coute to said destin I be subject to all the	ation. It is mutually agreed as to each carrier of all or conditions not prohibited by law, whether printed or
estination		State	County	Zip	Delivery Address		
toute			1000				
elivering arrier					Vehicle Number		
umber of ackages		Description of A	rticles		Weight (sub. to correction)	Class or Rate	Subject to Section 7 of conditions, if this shipment is to be delivered to the consigner without recourse on the consignor, the consignor shall sign the following statement:
22 PC	illets						The carrier shall not make delivery of this shipment without payment of freight and all othe lawful charges.
							(Signature of Consignor)
			7 11	N.			Prepaid Collect
							COD AMT:
							TOTAL CHARGES:
ollect On Deliver	y and remit to			co \$	7000	Prepaid [\$
		value, shippers are specifically stated b					ue of the property. The agreed er
	te is dependent or			specifically in	writing the agreed or	Collect declared val	TOTAL CHARGES: \$ue of the property. The agree



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	Α	В	С	D	E	F	G	Н	1	1
	DC Nam ▼	We⊸T	Date ▼	Inbound Trail ▼	PO'S ▼	Inbound Crate Q		Return BOL *	Return Crate Q [™] ▼	Differen ▼
	Atlanta	24	7/14/2024		20Z2R0	1080		18454	0	
88	Atlanta	24	7/14/2024	16922	20Z2Q9	1080		16849	1872	
89	Atlanta	24	7/14/2024	12691	20Z2J2	1035		22120	0	
90	Atlanta	24	7/15/2024	97339	20Z2S2	1080		15053	1872	
91	Atlanta	24	7/15/2024	27701	20Z2R3	990		67564	1872	
92	Atlanta	24	7/15/2024	12780	20Z2S1	1080		14526	1872	
93	Atlanta	24	7/15/2024	69186	20Z2R2	1080		69186	0	
94	Atlanta	24	7/15/2024	27693	20Z2R1	1080		27693	1872	
95	Atlanta	24	7/16/2024	15053	20Z2S3	1080		14519	0	
96	Atlanta	24	7/16/2024	67564	20Z2S6	945		27701	0	
97	Atlanta	24	7/16/2024	20927	20Z2S4	1080		W97341	1872	
98	Atlanta	24	7/16/2024	20902	20Z2S5	1035		27691	1872	
99	Atlanta	24	7/17/2024	16916	2106M8	1080		W97339	2160	
00	Atlanta	24	7/17/2024	69333	2106M9	1080		80309	0	
01	Atlanta	24	7/17/2024	12687	2106N0	1080		12780	1872	
02	Atlanta	24	7/17/2024	27701	2106N1	1080		69186	1872	
03	Atlanta	24	7/17/2024	27691	2106N2	1080		20927	0	
04	Atlanta	24	7/17/2024	18474	2106N3	990		12778	0	
05	Atlanta	24	7/17/2024	822198	2106N4	945		68785	1872	
06	Atlanta								<u>.</u>	

Atlanta

Pottsville

1	Week ▼		Inbound Trail 🔻	Inbound BOL *	bound Crate QTY 🔻	Outbound Da 🔻	Return BOI *	Return Crate QTY	Differen +	Shift →	Recycler Dat 🔻	Recycler BOL# Oι ▼	Recycler QTY O _L ▼	Recycler Return
.140	WEEK 22	6/30/2024	3241	20N1M4	972	7/1/2024	13958	1260	288					
141	WEEK 22	6/30/2024	3244	20RV58	984	7/1/2024	13959	1386	402					
142	WEEK 22	6/30/2024	3028	20RV59	977	7/1/2024	13960	0	-977					
.143	WEEK 22	6/30/2024	29767	20RV69	1080	6/30/2024	13961	0	-1080					
144	WEEK 22	6/30/2024	29047	20RV70	1080	7/1/2024	13962	0	-1080					
.145	WEEK 22	6/30/2024	3460	20RV71	1080	6/30/2024	13963	1512	432					
146	WEEK 22	6/30/2024	3405	20RV72	1080	6/30/2024	13964	0	-1080					
147	WEEK 22	6/30/2024	3410	20RV73	1080	7/1/2024	13965	1512	432					
148	WEEK 22	6/30/2024	3429	20RV74	1080	6/30/2024	13966	1512	432					
149	WEEK 22	6/30/2024	3425	20RV75	1080	7/1/2024	13967	1512	432					
.150	WEEK 22	6/30/2024	29388	20RV76	1080	7/2/2024	13968	1638	558					
151	WEEK 22	6/30/2024	3464	20RV77	972	7/1/2024	13969	1512	540					
152	WEEK 22	6/30/2024	3430	20RV62	972	7/1/2024	13970	0	-972					
153	WEEK 22	6/30/2024	3246	20RV63	986	7/1/2024	13971	1260	274					
154	WEEK 22	6/30/2024	3424	20RV88	1026	7/7/2024	13972	0	-1026					
.155	WEEK 22	6/30/2024	3461	20RV81	1080	7/2/2024	13973	0	-1080					
.156	WEEK 22	7/1/2024	29214	20RV78	918	7/1/2024	13974	1512	594					
157	WEEK 22	7/1/2024	3409	20RV80	1080	7/1/2024	13975	1512	432					
.158	WEEK 22	7/1/2024	29324	20RV82	1080	7/1/2024	13976	1512	432					
159	WEEK 22	7/1/2024	3428	20RV83	1080	7/1/2024	13977	1512	432					
160	WEEK 22	7/1/2024	3462	20RV84	1080	7/2/2024	13978	1512	432					
161	WEEK 22	7/1/2024	29652	20RV85	1080	7/1/2024	13979	0	-1080					
•)	Bowling Gree	en Clayton	Montgomer	y Orlando Po	ttsville Sacr	amento S	an Antonio Wes 🕂	+					•

	-	
Row Labels	√ Sum of Return Difference	Sum of Recycler Difference
⊞ Ardmore	-90478	0
⊕ Atlanta	4537	0
⊞ Berkeley	-17748	0
⊞ Clayton	-31446	0
⊞ Montgomer	y -38603	0
⊞Orlando	-35667	0
⊞ Pottsville	7099	0
⊞Sacramento	0	0
⊞San Antonio	-36716	0
	-2961	216
	-8960	13
Grand Total	-250943	229
		Weekly Tracke

Row Labels 🗹 Sum	of Return Difference	Sum of Recycler Difference
1	-131972	-9068
2	-121923	-302
Grand Total	-253895	-9370
		Quarterly Tracke

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Bowling Green before recommendations

owling Green after Ecommendations

DG Distribution Center Recommendations

Data

- IB to DCs through week 13: 6,826,463
- OB to Dairy through week 13: 6,738,541
- Difference through week 13: -159,384 crates

Insights

- Inconsistent and inaccurate tracking of cycling audit form
- Milk Crate Tracking sheets are too inconsistent across each variation of them

Actions

- New accountability and incentive schemes for accurately filling out audit form
- Consistency between employees and Distribution Centers

- Standardize the tracking process across each tracker to reduce the possibility of misinformation
- Create a SOP for the process of returning milk crates from Dry DCs to Fresh DCs



DG Transportation Recommendations

Data

- SIF (Shipping Integrity Form), HHD (Hand-Held Device): No system in place currently to account for crates though Transportation
- Store response tickets ("sweeps"): DC asset pick up from stores does not always match expected returns

Insights

- SIF currently includes a count of RTs delivered and picked up during deliveries; Drivers Tablets currently include questions on RTs picked up, and remaining at store
- Crate return SOP
- Lack of consistency in execution of asset pickup

Actions

- Add crate tracking column for milk crates to current SIF
- Add crate counts to drivers tablets in digitized form
- Return route can be adjusted to include asset pickups
- Ensure drivers communicate with Guard Shack obtain BOLs

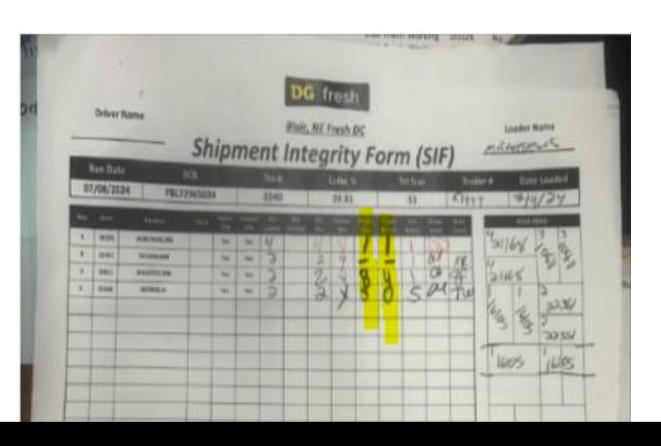
- Digitalize SIF or count tracking of assets through driver's tablets
- Adjusting drivers routes to include sweeps on return to Fresh DC as Trad DCs currently do



SIF including Milk Crate tracking

07/02/2024

FBL72934890





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Stop	Store	Location	Tie In	Cooler Y/N	Freezer Y/N	RTs	RTs BO/OW	RTs Dlvr	Freezer Dlvr	Crates Dlvr	Crates Return	RTs Return	Driver Initial	Store Initial	1	BULK F	IEAD	
1	09835	WOODBINE,IA		Yes	Yes	Loaded	80/0	Divi	Divi	Divi	Ketam	Ketaiii	IIICiai	IIIICiai				
2	22012	DUNLAP,IA		Yes	Yes										1			
3	05884	SIOUX CITY,IA		Yes	Yes										1			
4	02900	SIOUX CITY,IA		Yes	Yes										1			
5	23665	NORTH SIOUX CITY,SD		Yes	Yes										1			
6	18515	COLTON,SD		Yes	Yes										1			
7	10937	MADISON,SD		Yes	Yes										1			
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DG Store Recommendations

Data

- Currently no system for crates counts at a store level
- Delivery data collected through HHD as RT count into RTS-PROD DB

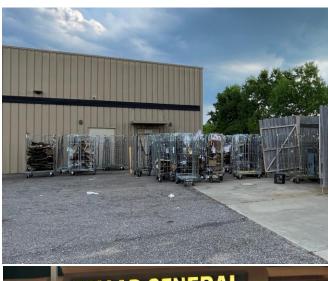
Insights

- No count of crates received & sent back to DC
- Lack of adequate space to keep assets secured in back rooms
- Crates left in parking lot and near dumpsters leading to theft

Actions

- Stores to verify crates received & sent back to DC through HHD
- Include crates count in receiving & provide access for RTS-PROD to DC's
- Crates stored inside building & physical barriers
- Always full load RTs with 6ti x 5hi for expedient tracking data input

- Pinpoint accurate crate count at store level
- Reduce stolen crates & DC count variances





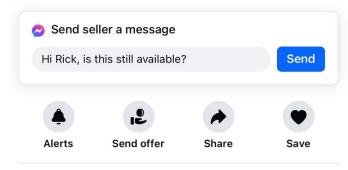






Milk crates

\$2



Description

They are 12x12. I do get some every week so be patient if I don't answer right away thx.



Recommendations Recap

- Distribution Centers
 - Formulate a standardized tracking process
- Transportation
 - Clear communication of asset pickup expectations; systematize regular asset pickup, aim to reduce sweeps
- Dollar General Stores
 - Incorporate milk crate tracking at store level
- Data Integration
 - Collect and sort the tracking of crates across the supply chain



Questions/Comments