

### DycoTrade Power BI Reports



Power BI



## DycoTrade Power BI Reports

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## 1 Introduction

This document gives an overview of the DycoTrade Power BI reports related to the DycoTrade Commodity Trade and Risk Management (CTRM) solution on Dynamics 365 Finance & Operations.

The reports are described on high level.

All reports are “quick start” reports, meaning that a customer can quickly start using the reports but adaptations and customizations as a result of specific requirements are most of the time expected. The Power BI reports are set up flexible and data is prepared as much as possible to be able to do quick adaptations and customizations.

The set of available reports will be continuously extended.

## 2 Sales Analysis

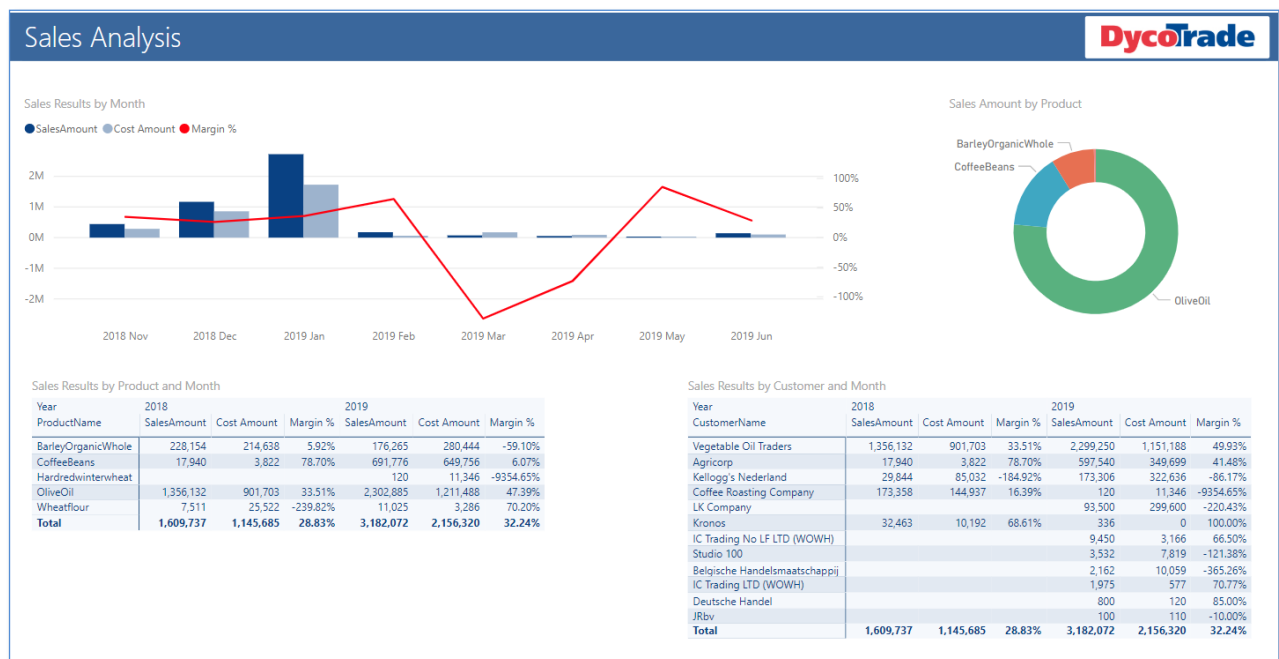
The Sales Analysis report has the following pages:

- Sales Analysis      several visuals giving insight in sales results
- Product Details    several visuals showing results by product
- Customer Details   several visuals showing results by customer
- Contract Details   table with contract details
- Sales KPI's         results against budget

The Sales Analysis report shows the revenue and costs based on invoiced revenue and cost amounts on inventory transactions. Margin is calculated as (revenue – costs).

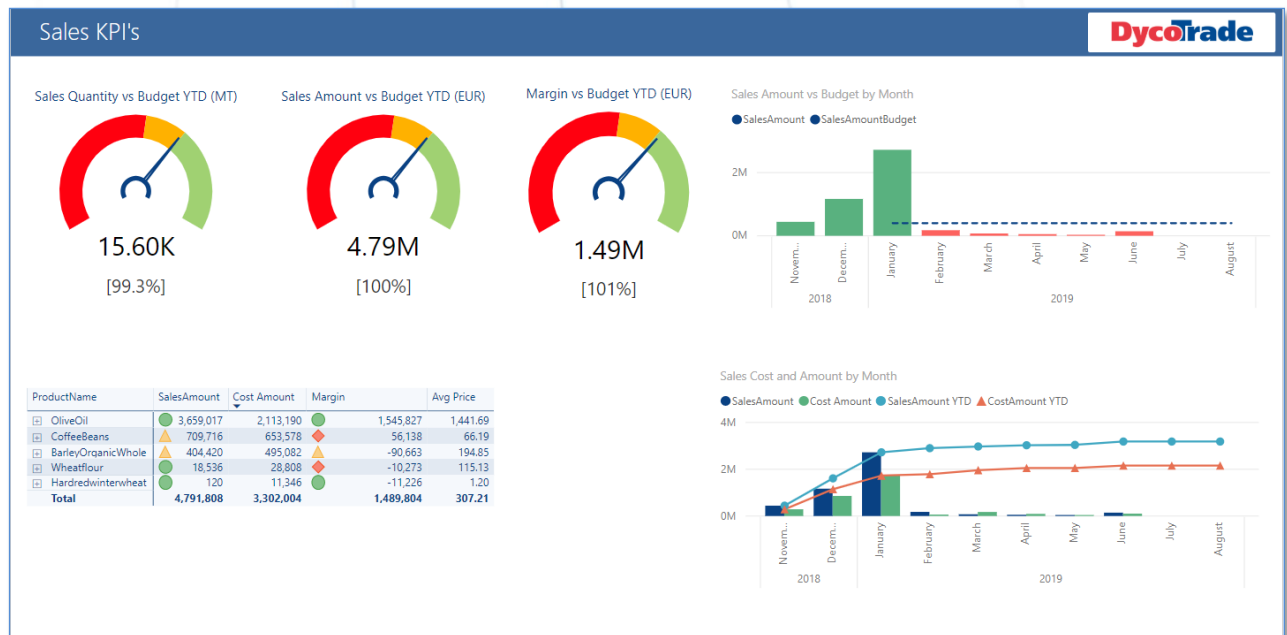
Results are shown in several perspectives: time, product and customer.

The report has drill trough functionality. This means you can select a certain data point in a visual (month X, Product Y) and drill trough to for example contract details to get the list of related contracts.



## KPI's

On the Sales KPI's page budget figures are loaded from external data via an Excel sheet. In this case the budget is on product, customer and year level. The budget data is linked to the Dynamics 365 F&O data within the Power BI model. The result "actuals vs budget" is calculated and visualized in gauges, icons and bar charts.



## 3 Contract Analysis

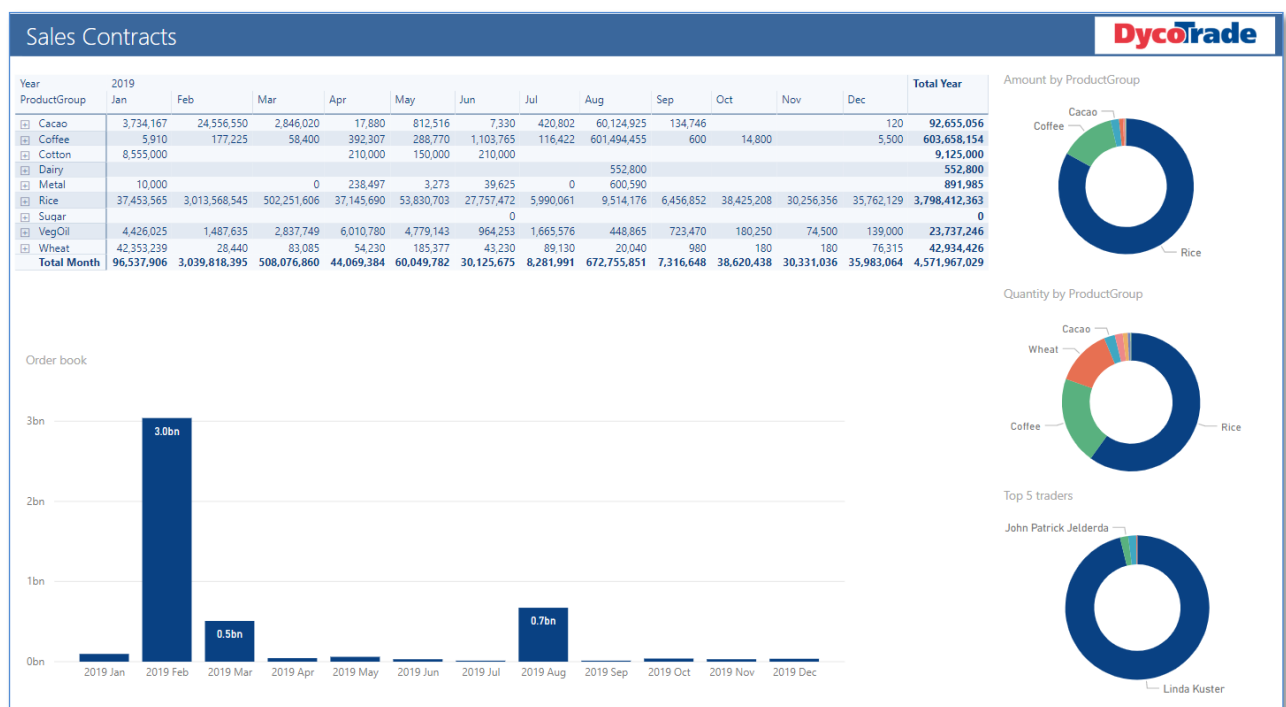
The Contract Analysis report has the following pages:

- Sales Contracts
- Sales Details
- Purchase Contracts
- Purchase Details
- Commodity Exchange Contract (CEC)
- Commodity Exchange Contract Details
- Forex Contracts
- Forex Details

The Contract Analysis report contains information of all type of contracts: Sales, Purchase, Commodity Exchange and Foreign Exchange.

For each type of contract two pages are available: one for high level aggregated analysis (in time, per product, etc.) and one with a detailed list of contracts.

You can drill through from the analysis page to view the related contracts in detail.



## 4 Position report & Mark to market

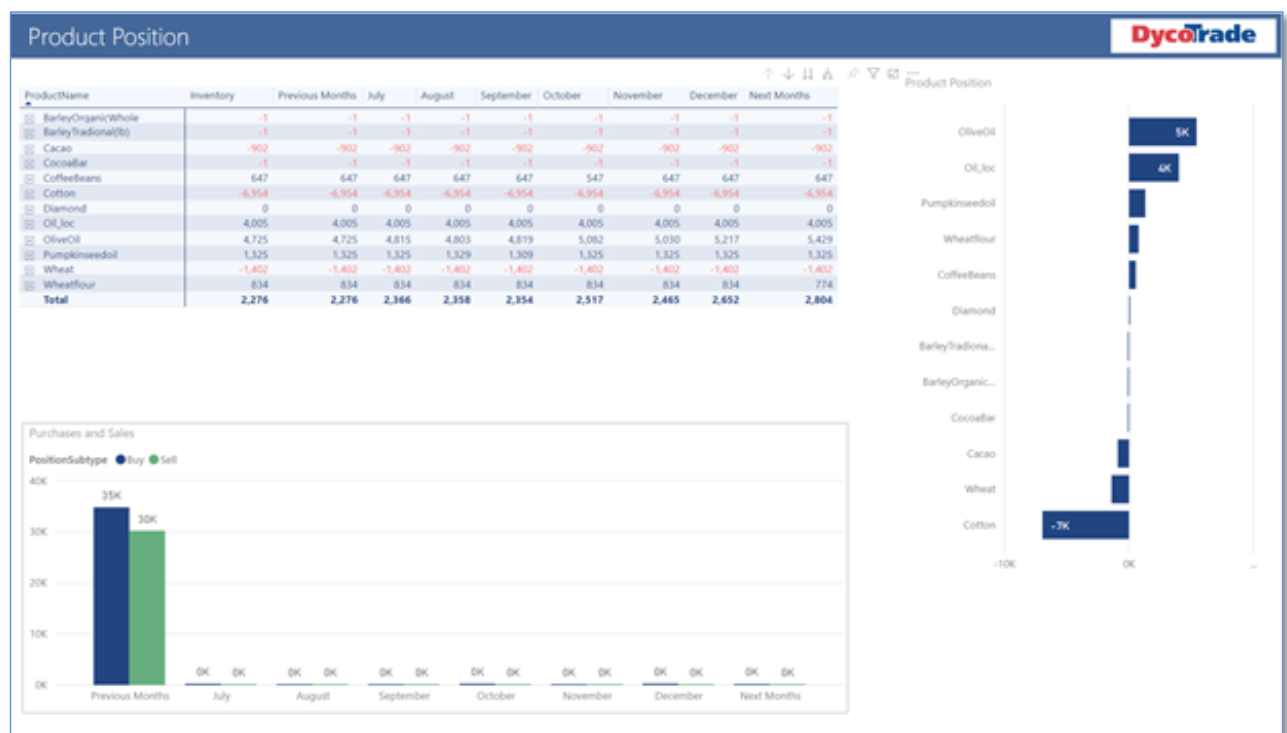
The Position report has the following pages:

- Position
- Mark to Market
- Contract Details

### Position report

The Position page shows the running total position of a company at a given moment, where 'Position' is a summation of:

- Inventory on hand (stock, physical inventory)
- Open Sales contract lines (past and future, based on delivery date)
- Open Purchase contract lines (past and future, based on delivery date)
- Open Commodity Exchange contract lines (past and future, based on delivery date)



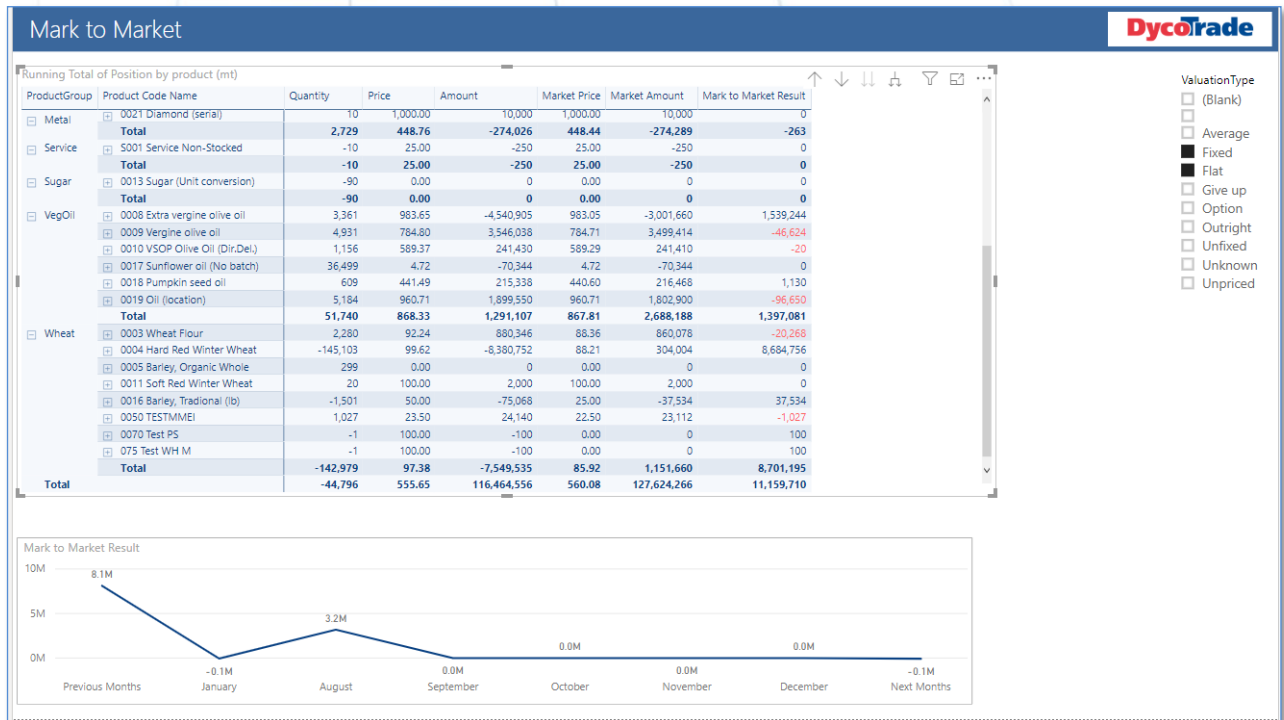


## Mark to Market

The Mark to Market (M2M) page shows the (Sales, Purchase, CE) contract prices and values and the market prices and values.

The M2M result is calculated as (contract value – market value).

The M2M result is also shown per month in a line graph.



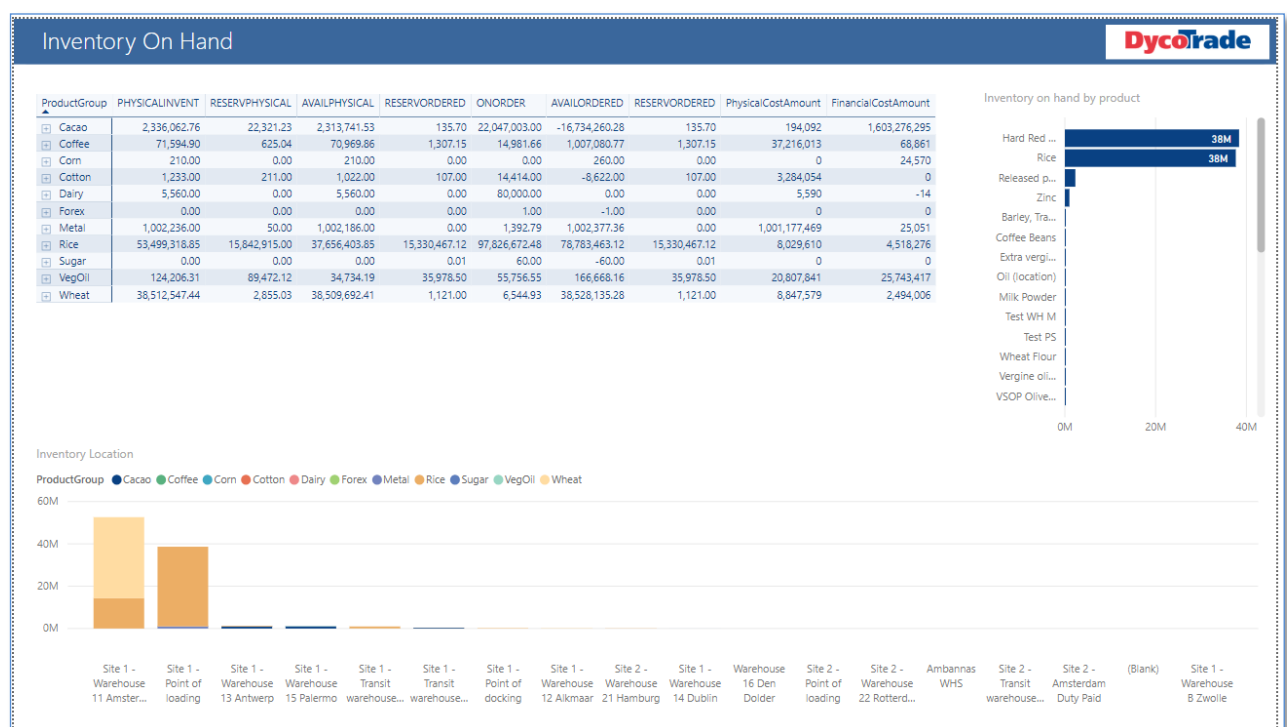
## 5 Inventory

The Inventory report has the following pages:

- Inventory on Hand
- Inventory over Time
- Inventory Transactions Details

### Inventory on hand

The Inventory on Hand page shows an overview of all relevant measures of inventory by product group, product and location. This is comparable with the on-hand overview in Dynamics 365 F&O.



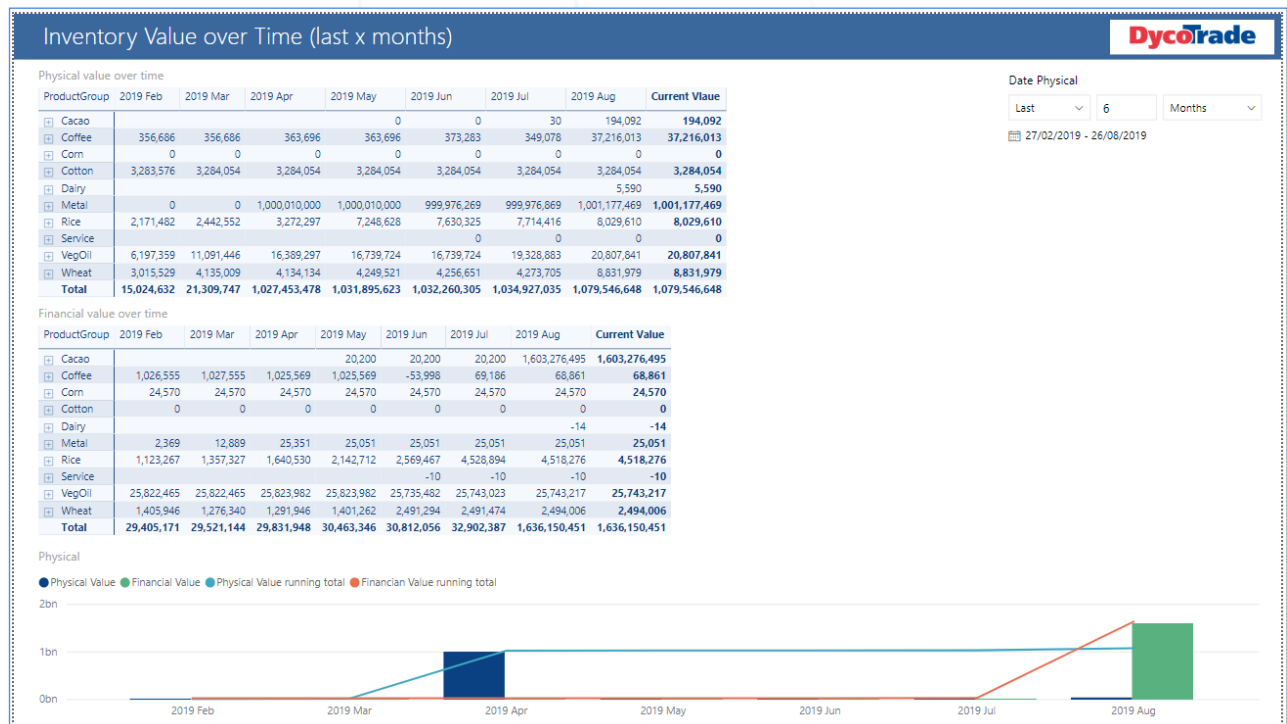
## Inventory over Time

The Inventory over Time page shows the inventory value over selected months per product group per product.

The value can be shown based on the physical cost amount or based on the financial cost amount.

The inventory value on the current date is given in the last column. The values are calculated at the first day of the month within the range of the chosen number of months.

The current value is also found on the Inventory on hand page (physical cost amount or financial cost amount).



## Inventory Transactions Details

The Inventory Transactions Details page gives a detailed overview on inventory transactions.

Inventory Transaction Details										
Product Code Name	ContractCode	ContractLine	ReferenceCategory	InventQty	DatePhysicalKey	InventoryUnit	IssueStatus	ReceiptStatus	BatchCode	ProductionDate
0006 Rice	PC-001822	PC-001822 12.0	Purchase order	-34,000.00	20190816	kg	Sold		PC-001822-12.0	18/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 13.0	Purchase order	18,000.00	20190816	kg		Purchased	PC-001822-13.0	20/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 13.0	Purchase order	-18,000.00	20190816	kg	Sold		PC-001822-13.0	20/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 14.0	Purchase order	15,422.14	20190816	kg		Purchased	PC-001822-14.0	22/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 14.0	Purchase order	45,661.33	20190816	kg		Received	PC-001822-14.0	22/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 14.0	Purchase order	-15,422.14	20190816	kg	Sold		PC-001822-14.0	22/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 15.0	Purchase order	19,000.00	20190816	kg		Purchased	PC-001822-15.0	23/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 15.0	Purchase order	34,000.00	20190816	kg		Received	PC-001822-15.0	23/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 15.0	Purchase order	-19,000.00	20190816	kg	Sold		PC-001822-15.0	23/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 17.0	Purchase order	14,514.96	20190819	kg		Purchased	PC-001822-17.0	26/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 17.0	Purchase order	30,390.69	20190819	kg		Received	PC-001822-17.0	26/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 17.0	Purchase order	-14,514.96	20190819	kg	Sold		PC-001822-17.0	26/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 18.0	Purchase order	45,359.24	20190816	kg		Received	PC-001822-18.0	28/08/2019 00:00:00
0006 Rice	PC-001822	PC-001822 19.0	Purchase order	50,000.00	20190819	kg		Received	PC-001822-19.0	29/08/2019 00:00:00
0006 Rice	PC-001830	PC-001830 2.0	Purchase order	100,000.00	20190816	kg		Received	PC-001830-2.0	11/10/2019 00:00:00
0006 Rice	PC-001836	PC-001836 1.0	Purchase order	50,000.00	20190819	kg		Received	PC-001836-1.0	01/08/2019 00:00:00
0006 Rice	PC-001844	PC-001844 1.0	Purchase order	35.00	20190819	kg		Purchased	PC-001844-1.0	01/08/2019 00:00:00
0006 Rice	PC-001844	PC-001844 1.0	Purchase order	68.00	20190819	kg		Received	PC-001844-1.0	01/08/2019 00:00:00
0006 Rice	PC-001844	PC-001844 1.0	Purchase order	-35.00	20190819	kg	Sold		PC-001844-1.0	01/08/2019 00:00:00
0006 Rice	PC-001845	PC-001845 1.0	Purchase order	32,000.00	20190819	kg		Purchased	PC-001845-1.0	01/08/2019 00:00:00
0006 Rice	PC-001845	PC-001845 1.0	Purchase order	67,000.00	20190819	kg		Received	PC-001845-1.0	01/08/2019 00:00:00
0006 Rice	PC-001845	PC-001845 1.0	Purchase order	-32,000.00	20190819	kg	Sold		PC-001845-1.0	01/08/2019 00:00:00
0006 Rice	PO-000421	PO-000421 1.0	Purchase order	10,000.00	20190319	kg		Purchased		
0006 Rice	PO-000421	PO-000421 2.0	Purchase order	10,000.00	20190319	kg		Purchased		
0006 Rice	PO-000454	PO-000454 1.0	Purchase order	1,000.00	20190319	kg		Received		
0006 Rice	PO-000499	PO-000499 1.0	Purchase order	1,000.00	20190319	kg		Received		
0006 Rice	PO-000711	PO-000711 1.0	Purchase order	800,000.00	20190528	kg		Received		
0006 Rice	PO-000895	PO-000895 1.0	Purchase order	10,000.00	20190813	kg		Received	PO-000895-1.0	13/08/2019 00:00:00
0006 Rice	SC-000009	SC-000009 2.0	Sales order	-10,000.00	20181126	kg	Sold			
0006 Rice	SC-000009	SC-000009 4.0	Sales order	-5,000.00	20181130	kg	Sold			
0006 Rice	SC-000011	SC-000011 1.0	Sales order	-10,000.00	20181120	kg	Deducted			
0006 Rice	SC-000011	SC-000011 3.0	Sales order	-10,000.00	20181123	kg	Deducted			
Total				53,449,318.85						

## 6 Cashflow

The Cashflow report has the following pages:

- Cashflow
- Profit & Loss (P&L)
- Balance Sheet

### Cashflow

The Cashflow page gives insight in the company's current and future currency requirements. It retrieves amounts from various modules in Dynamics 365 F&O (Sales, Purchase, Commodity exchange, Forex, Finance) and groups them into monthly periods, indicating the month the cash flow movement will occur or has occurred.

The amounts are compiled from the general ledger amounts included in the ledger liquidity setup, customer and vendor transaction amounts, sales and purchases contract amounts, calculated costs amounts for sales and purchases contracts and transport costs amounts, but only from cost groups that are marked for inclusion in the cash flow, future sales and purchases amounts, and hedged sales and purchase forex amounts.

Cashflow													DycoTrade		Accounting Currency	
Year																USD
2020																
Opening Balance		2020 January	2020 February	2020 March	2020 April	2020 May	2020 June	2020 July	2020 August	2020 September	2020 October	2020 November	2020 December			
		-3,945,332	-5,698,039	-6,123,312	-8,131,895	-9,157,170	-9,250,126	-9,353,740	-9,475,328	-9,604,556	-9,692,479	-9,828,733	-9,925,287			
Physical	General	133,140	0	67												
	Purchases	-2,181,996	-447,167	-1,941,473	-1,051,123	-153,622	-135,683	-153,532	-192,999	-120,688	-185,737	-120,688	-160,498			
	Sales	297,381	40,937	52,824	25,848	60,667	32,069	31,943	63,772	32,766	49,483	24,135	36,483			
	Transport		-16,959													
	<b>Total</b>	<b>-1,751,465</b>	<b>-423,189</b>	<b>-1,888,583</b>	<b>-1,025,275</b>	<b>-92,956</b>	<b>-103,614</b>	<b>-121,588</b>	<b>-129,228</b>	<b>-87,923</b>	<b>-136,254</b>	<b>-96,554</b>	<b>-124,015</b>			
Hedging	Forex	-1,202	-84													
	Future	-39	-2,000	-120,000						0						
<b>Total</b>		<b>-1,241</b>	<b>-2,084</b>	<b>-120,000</b>						<b>0</b>						
<b>Total</b>		<b>-1,752,707</b>	<b>-425,273</b>	<b>-2,008,583</b>	<b>-1,025,275</b>	<b>-92,956</b>	<b>-103,614</b>	<b>-121,588</b>	<b>-129,228</b>	<b>-87,923</b>	<b>-136,254</b>	<b>-96,554</b>	<b>-124,015</b>			
Closing Balance		2020 January	2020 February	2020 March	2020 April	2020 May	2020 June	2020 July	2020 August	2020 September	2020 October	2020 November	2020 December			
		-5,698,039	-6,123,312	-8,131,895	-9,157,170	-9,250,126	-9,353,740	-9,475,328	-9,604,556	-9,692,479	-9,828,733	-9,925,287	-10,049,302			

## Profit & Loss and Balance Sheet

The Profit & Loss page (P&L) and the Balance Sheet page uses data directly from the Dynamics 365 F&O ledger transactions.

These pages are Power BI variants of the Dynamics 365 standard financial reports, giving more flexibility and analysis functionality.

Profit & Loss

Last Refresh 4/14/2020 12:14:17 AM

DycoTrade

		Accounting Date	
		Last	1
		Years	
		4/30/2019 - 4/29/2020	

NET INCOME	17,394.82
INCOME	3,564,196.47
Other income	3,174.91
Sales	3,561,021.56
COGS	-3,395,241.39
Cost of goods sold	-3,395,010.26
Selling expense	-231.13
GROSS PROFIT	168,955.08
EXPENSE	-151,560.26
Administrative expense	-96,844.22
Interest expense	-20,402.61
Manufacturing expense	-274.03
Other employee expenses	-6,969.60
Salaries expense	-14,114.31
Selling expense	-517.50
Tax expense	-12,303.90
Travel and entertainment expenses	-134.09

Balance Sheet

Last Refresh 4/14/2020 12:14:17 AM

DycoTrade

	Accounting	Currency	Amount
ASSETS			10,634,783.75
CURRENT ASSETS			5,165,160.25
CHECKING/SAVINGS			1,412,439.78
ACCOUNTS RECEIVABLE			1,168,068.29
OTHER CURRENT ASSETS			2,584,652.18
OTHER ASSETS			5,469,623.50
PROJECTS			5,469,623.50
LIABILITIES AND EQUITY			-10,638,884.25
CURRENT LIABILITIES			-7,532,806.37
OTHER CURRENT ASSETS			-2,878,484.21
ACCOUNTS PAYABLE			259,419.62
OTHER CURRENT LIABILITIES			-4,913,741.78
EQUITY			-3,088,683.06
NET INCOME			-17,394.82
INCOME			-3,564,196.47
COGS			3,395,241.39
EXPENSE			151,560.26

Accounting Date

Last1Years

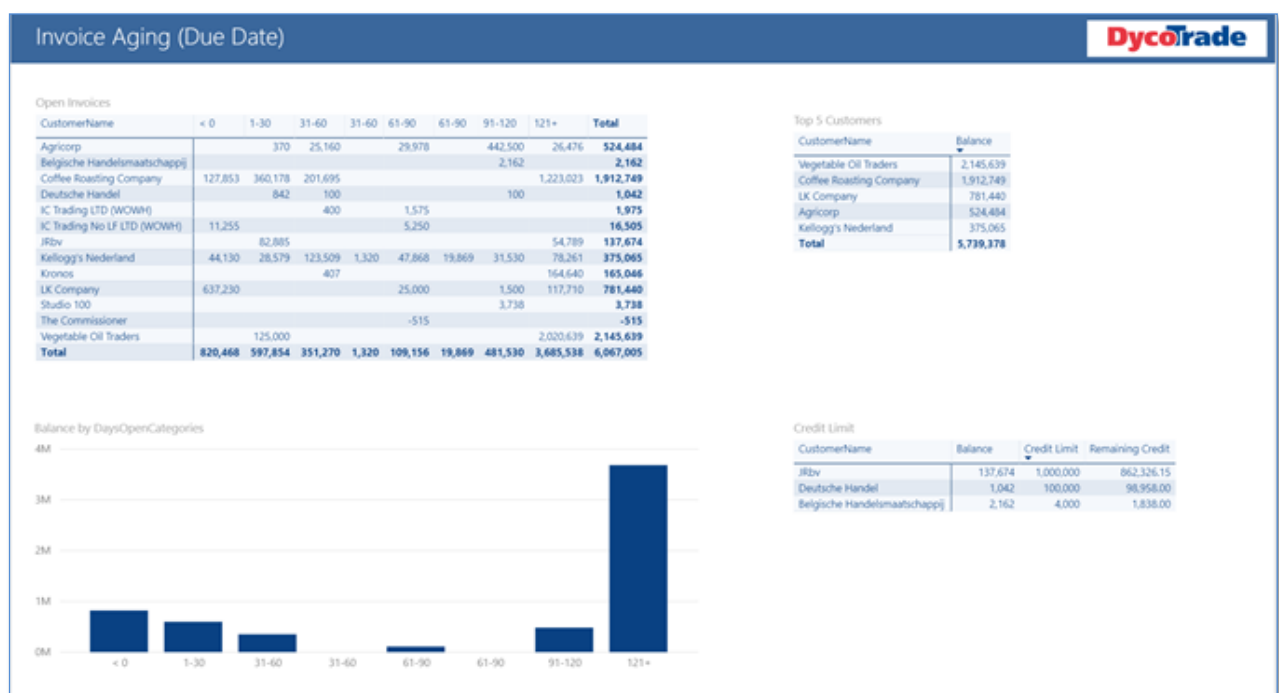
4/30/2019 - 4/29/2020

## 7 Invoice Aging

The Invoice Aging report has the following pages:

- Open Invoices (Due Date)
- Open Invoices (Invoice Date)
- Invoice Details

The Invoice Aging report shows all open customer invoices categorized per number of days open. The number of days open is calculated from due date or from invoices date. Data is shown by customer, top 5 customer and related to customer credit limit if applicable. You can drill through to the detailed page to check related invoices in detail.



**Invoice Details**

InvoiceID	Invoice Date	Due Date	Customer	PaymentMode	Acc. Currency	Balance	Amount1	Currency	FX Rate	BalanceCur	AmountCur	SettleAmount	SettleAmountCur	AgingBucketDueDate
CINV000001	06/01/2020	06/01/2020	Carrot Metal Co.		USD	-26,800	-26,800.00	USD	1.00	-26,800.00	-26,800.00	0.00	0.00	31-60
CINV000002	09/01/2020	09/01/2020	Carrot Metal Co.		USD	-27,921	-27,920.80	USD	1.00	-27,920.80	-27,920.80	0.00	0.00	31-60
SCR-000002	06/01/2020	06/01/2020	Carrot Metal Co.		USD	-15,625	-87,407.78	USD	1.00	-15,625.19	-87,407.78	-71,782.59	-71,782.59	31-60
SINV0001	27/11/2019	27/11/2019	Gold Leaf		USD	14,289	27,500.00	USD	2.00	14,289.22	27,500.00	13,210.78	13,210.78	61-90
SINV0002	17/12/2019	16/01/2020	Fletcher Commodities	Wire	USD	86,720	126,720.00	USD	2.00	86,720.00	126,720.00	40,000.00	40,000.00	31-60
SINV0003	17/12/2019	16/01/2020	Fletcher Commodities	Wire	USD	2,880	2,880.00	USD	1.00	2,880.00	2,880.00	0.00	0.00	31-60
SINV0005	06/01/2020	06/01/2020	Carrot Metal Co.		USD	26,800	26,800.00	USD	1.00	26,800.00	26,800.00	0.00	0.00	31-60
SINV0007	09/01/2020	09/01/2020	Carrot Metal Co.		USD	27,921	27,920.80	USD	1.00	27,920.80	27,920.80	0.00	0.00	31-60
SINV0008	18/02/2020	19/03/2020	A+ Commodities	Wire	USD	67	66.85	USD	1.00	66.85	66.85	0.00	0.00	Current
SPR000001	27/11/2019	27/11/2019	Gold Leaf		USD	13,750	13,750.00	USD	1.00	13,750.00	13,750.00	0.00	0.00	61-90
SPR000002	06/01/2020	06/01/2020	Carrot Metal Co.		USD	87,408	87,407.78	USD	1.00	87,407.78	87,407.78	0.00	0.00	31-60
SPR000003	08/01/2020	08/01/2020	Carrot Metal Co.		USD	87,408	87,407.79	USD	1.00	87,407.79	87,407.79	0.00	0.00	31-60
<b>Total</b>						<b>276,896</b>	<b>258,324.64</b>		<b>14.00</b>	<b>276,896.45</b>	<b>258,324.64</b>	<b>-18,571.81</b>	<b>-18,571.81</b>	



## 8 Hedging

The Hedging report has the following pages:

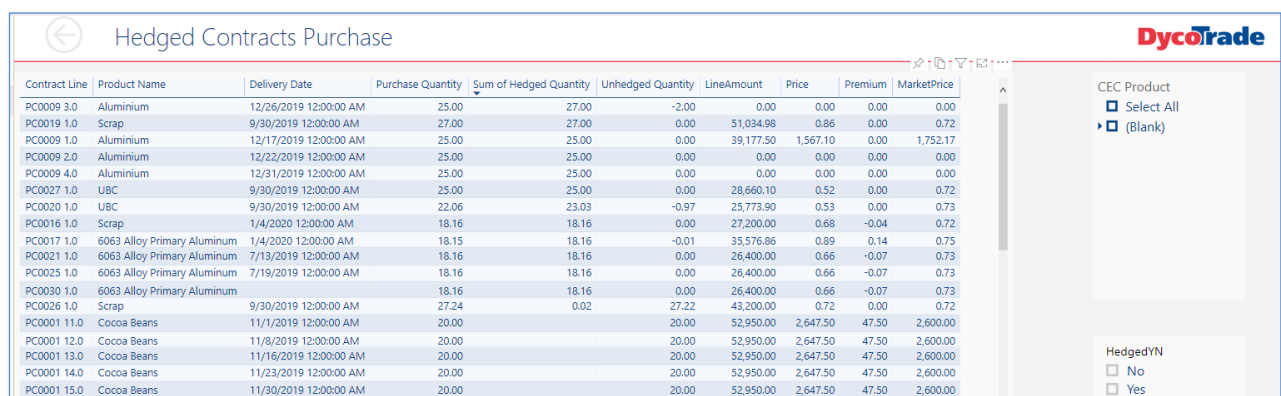
- Hedging Overview (CEC)
- CEC Details (Sales)
- CEC Details (Purchase)
- Hedging Overview (Forex)
- Forex Details (Sales)
- Forex Details (Purchase)

The Hedging report shows information on hedging of Commodity Exchange contracts (CEC) and Foreign Exchange contracts (Forex).

For CEC hedged and unhedged quantities are shown on product level.

For Forex hedged and unhedged amounts are shown for sales/purchase contracts having a divergent trading currency from the accounting currency.

From both pages you can drill through to a detailed list of related sales/purchase contracts.

**Hedged Contracts Purchase**

Contract Line	Product Name	Delivery Date	Purchase Quantity	Sum of Hedged Quantity	Unhedged Quantity	LineAmount	Price	Premium	MarketPrice
PC0009 3.0	Aluminium	12/26/2019 12:00:00 AM	25.00	27.00	-2.00	0.00	0.00	0.00	0.00
PC0019 1.0	Scrap	9/30/2019 12:00:00 AM	27.00	27.00	0.00	51,034.98	0.86	0.00	0.72
PC0009 1.0	Aluminium	12/17/2019 12:00:00 AM	25.00	25.00	0.00	39,177.50	1,567.10	0.00	1,752.17
PC0009 2.0	Aluminium	12/22/2019 12:00:00 AM	25.00	25.00	0.00	0.00	0.00	0.00	0.00
PC0009 4.0	Aluminium	12/31/2019 12:00:00 AM	25.00	25.00	0.00	0.00	0.00	0.00	0.00
PC0027 1.0	UBC	9/30/2019 12:00:00 AM	25.00	25.00	0.00	28,660.10	0.52	0.00	0.72
PC0020 1.0	UBC	9/30/2019 12:00:00 AM	22.06	23.03	-0.97	25,773.90	0.53	0.00	0.73
PC0016 1.0	Scrap	1/4/2020 12:00:00 AM	18.16	18.16	0.00	27,200.00	0.68	-0.04	0.72
PC0017 1.0	6063 Alloy Primary Aluminium	1/4/2020 12:00:00 AM	18.15	18.16	-0.01	35,576.86	0.89	0.14	0.75
PC0021 1.0	6063 Alloy Primary Aluminium	7/13/2019 12:00:00 AM	18.16	18.16	0.00	26,400.00	0.66	-0.07	0.73
PC0025 1.0	6063 Alloy Primary Aluminium	7/19/2019 12:00:00 AM	18.16	18.16	0.00	26,400.00	0.66	-0.07	0.73
PC0030 1.0	6063 Alloy Primary Aluminium		18.16	18.16	0.00	26,400.00	0.66	-0.07	0.73
PC0026 1.0	Scrap	9/30/2019 12:00:00 AM	27.24	27.22	0.02	43,200.00	0.72	0.00	0.72
PC0001 11.0	Cocoa Beans	11/1/2019 12:00:00 AM	20.00	20.00	0.00	52,950.00	2,647.50	47.50	2,600.00
PC0001 12.0	Cocoa Beans	11/8/2019 12:00:00 AM	20.00	20.00	0.00	52,950.00	2,647.50	47.50	2,600.00
PC0001 13.0	Cocoa Beans	11/16/2019 12:00:00 AM	20.00	20.00	0.00	52,950.00	2,647.50	47.50	2,600.00
PC0001 14.0	Cocoa Beans	11/23/2019 12:00:00 AM	20.00	20.00	0.00	52,950.00	2,647.50	47.50	2,600.00
PC0001 15.0	Cocoa Beans	11/30/2019 12:00:00 AM	20.00	20.00	0.00	52,950.00	2,647.50	47.50	2,600.00

**CEC Product**

- ☒ Select All
- ☐ (Blank)
- ☒ Cocoa
- ☒ Coffee
- ☒ Sugar
- ☒ Wheat
- ☒ ZN

**HedgedYN**

- ☐ No
- ☐ Yes



## 9 Logistic Files/Transport

The Logistic Files/Transport report has the following pages:

- Overview
- Transport Movement
- Logistic File Details

The Logistic Files/Transport report shows information on transport movements via the information on Logistic Files.

Information is shown on inbound, outbound and back to back movements by customer, vendor and product group.

Product movement is dynamically visualized a map.

There is a drill through to a detailed page showing details per Logistic File.

