

LIFO-PRO Software Usage Steps

Internal Indexes

Private Cloud (Software as a Service)



LIFOPro

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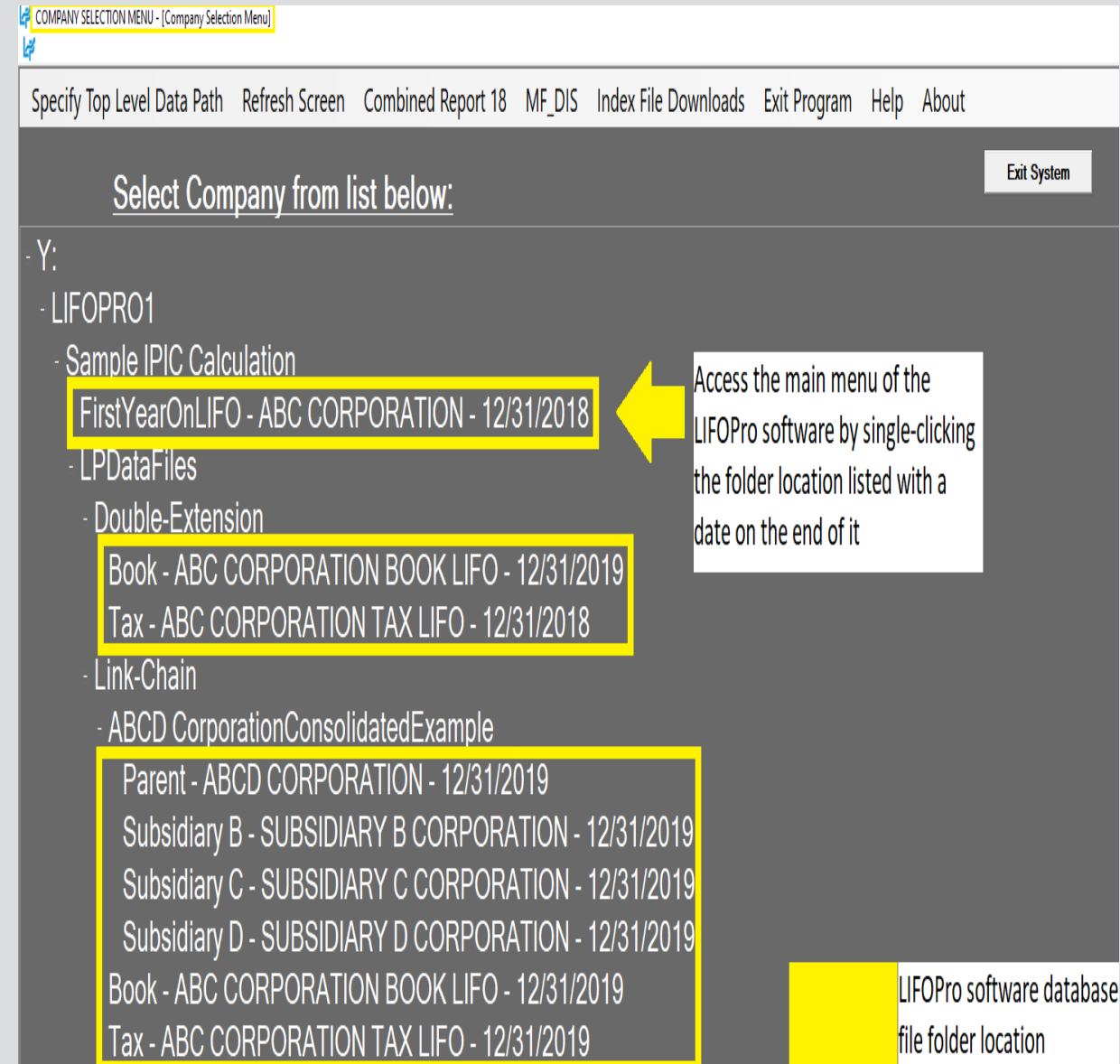
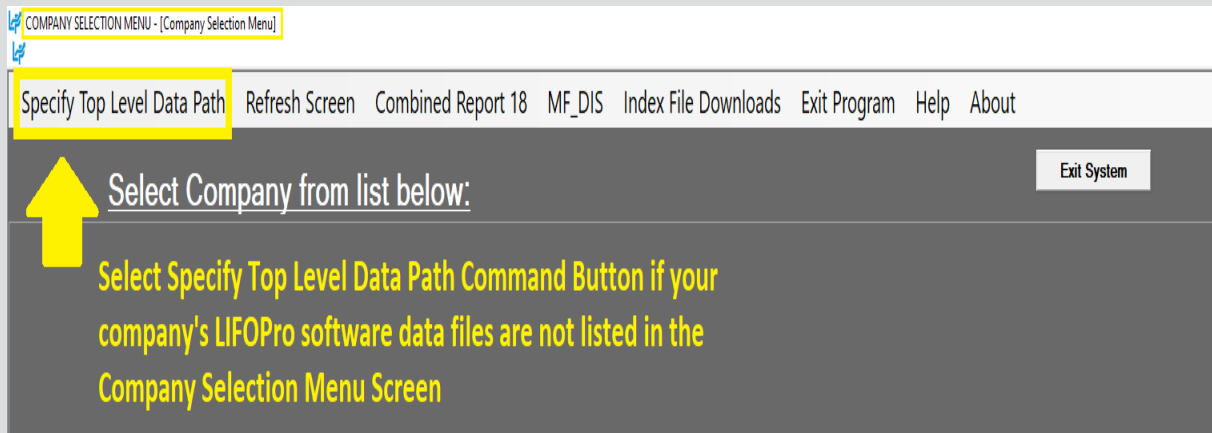
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Menus & Screens: Company Selection Menu Screen

- The Company Selection Menu Screen is where Users select their company's LIFOPro software database file folder that they'd like to access
- User accesses the LIFO-PRO software Main Menu screen by selecting with their mouse cursor the folder text label that contains a "-" dash & date on the end
- Date indicates the last period closed
- If no companies are listed in Company Selection Menu Screen, select the "Specify Top Level Data Path" command button to select the location of your LIFOPro software database files (see additional steps to navigate to software database file folder on next page)



Menus & Screens: System Information Update Screen

- The System Information Update Screen is used to select the location of your LIFOPro software database files
- User selects the appropriate drive location if not already selected by selecting the Drives drop-down menu box
- User navigates to & selects LIFOPro software database file folder by using the Directories tree listed on the bottom half of the screen (select by double-clicking on LIFOPro software database file folder name; the location of this folder will appear in the “Path Selected” text box once you have selected it)
- Select the “Use this Path” button located to the right of the Path Selected text box once you’ve selected your LIFOPro software database file folder

SYSTEM INFORMATION UPDATE SCREEN

Help

Data Drive and Directory(Top level): C:\LIFOPRO

This tells LIFO-PRO the highest level at which drive and path to start searching for LIFO-PRO data files. Enter e.g. C:\LIFOPRO

Drive and Directories:

Path selected:

Drive: c: [OS]

Directories: c: [OS], d:, t: [\\192.168.99.69\Shared], y: [\\pprodserverwin\LIFOPRO-Y-Drive]

C:\LIFOPRO

1. Select the "Drive" drop-down option box on the left side of the System Information Update Screen & select the drive where your LIFOPro software data files are located

Drive and Directories:

Path selected: Y:\LIFOPRO1

Drive: y: [\\pprodserverwin\LIFOPR...]

Directories: Sample, Sample Implement Dealer, Sample Internal Index Calculation, Sample IPIC Calculation, Sample Retail LIFO Calculation, Sample Turnkey Outsourcing Solution, Sample_Auto_Parts_Distributor, Sample_Company

2. Use the Directories tree to navigate to & select your company's LIFOPro software data file folder location by double clicking on the name of that folder

SYSTEM INFORMATION UPDATE SCREEN

Help

Continue Browse

Data Drive and Directory(Top level): C:\LIFOPRO

This tells LIFO-PRO the highest level at which drive and path to start searching for LIFO-PRO data files. Enter e.g. C:\LIFOPRO

Drive and Directories:

Path selected: Y:\LIFOPRO1\Sample IPIC Calculation

Use this Path

Drive: y: [\\pprodserverwin\LIFOPR...]

Directories: Y:\LIFOPRO1, Sample IPIC Calculation, LPDataFiles

3. Confirm that your company's LIFOPro software data folder location/name is displayed in the "Path Selected" text box (follow steps 1-2 if correct folder location/name not shown)

4. Select the "Use this Path" Button. The software will now advance to the Company Selection Menu Screen

Menus & Screens: Main Menu Screen

- **Calculation & Input Buttons** - Used for the following:
 - **Internal Index Module:** Automates completing current year internal index calculations. User loads data input file(s)/sheet(s) & selects desired calculation & analysis settings within this screen. Module automatically updates software's LIFO history database file & reports upon closing year end. Also used for interim estimates.
 - **IPIC Module (External Indexes aka CPI/PPI):** Automates completing IPIC method external index calculations. User loads data input file & selects desired calculation settings within this screen. Module automatically updates software's LIFO history database file & reports upon closing year end. Also used for interim estimates.
 - **Screen 3:** For manual LIFO calculations, estimates & projections. User enters inventory balances at cost by pool & current year indexes to calculate LIFO reserve & update software's LIFO history database file.
 - **Projection Report:** returns a range of LIFO expense (income) amounts based on a user-defined range of inventory balances & inflation (deflation) indexes
 - **UNICAP Rates**
- **Report Buttons:** Used to view, print or save reports as Excel or PDF file

The screenshot shows the 'MAIN MENU' interface with the following sections and buttons:

- Sample Company Internal Indexes** (Title bar)
- Data Path:** Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\LINKCHAIN
- Last Period Closed:** 12/31/2019
- COMPANY SELECTION:** Select different company (Company Selection Menu)
- HISTORICAL DATA REPORTS (12/31/2011 to 12/31/2020):**
 - LIFO Inventory History Summary (Report 16) - All years, by pool
 - LIFO Layer History (Report 16a) - All years, by pool
 - LIFO Inventory History Detail (Report 17) - All years, by pool
 - Year End LIFO Calculation Summary (Report 18) - All pools, by year
 - LIFO Reserve Calculation (Report 18a) - All pools, by year
 - Consolidated Year End LIFO Calculation Summary (Report 18c)
 - LIFO Expense (Income) Components (Report 19) Consol. Rpt. 19
 - LIFO Reserve by Layer (Report 15) - All years, by pool
 - External Index (IPIC) Calculation (Reports 23 - 26)
 - Internal Index Calculation (Reports 27 - 30)
- Input/Edit Historical Data** (Button)
- COMPANY SETUP INFORMATION:**
 - Company Setup, Methods Settings, Pools and Periods
 - UNICAP (Sec. 263A) Rates** (Highlighted with orange box)
- CALCULATIONS:**
 - Internal Index Module** (Highlighted with yellow box)
 - IPIC Module (PPI or CPI)** (Highlighted with orange box)
 - Enter Values For 12/31/2021 (Screen 3)** (Highlighted with pink box)
 - Projection Report 1-Range of Inv. Levels and Indexes, one pool** (Highlighted with white box)
- YEAR END CLOSE or UNCLOSE (12/31/2020 is the last year closed now):**
 - Close 12/31/2021
 - Unclose 12/31/2020
- Legend:**
 - Yellow box: Calculation Module/Screen & Input Buttons
 - Orange box: Report Buttons
- Footer:** LIFOPro Version 6.0.48, Version Date 9/21/2020



Menus & Screens: Company Settings Screen

- Company Name
- Retail or Cost LIFO
- Layer Pricing Index Method: Default setting is single index
- UNICAP Mode: enabled for companies wanting reports that include §263A UNICAP costs & use either methods:
 - Simplified production method
 - Historical absorption ratio
- Cumulative Index Rounding Precision: Default setting is unlimited
- LIFO History Data Rounded to 000's
- Add Back Negative Reserves for Book LIFO – Default is no; zeroes out debit balance LIFO reserve balance & forces LIFO inventory balance to equal current-year cost
- Pool Maintenance Table – Sets the number of LIFO pools & labels displayed on all LIFO-PRO reports
- Periods Maintenance Table - Sets the base period for each pool

LP COMPANY SETUP, METHODS SETTINGS & POOLS MAINTENANCE

LP Edit IPIC Pooling Method Analysis Help

Main Menu

Company Name: ABC Corporation

Retail or Cost LIFO: Cost

Layer Pricing Index Method: Single index, Inflation=deflator index

UNICAP Mode: One UNICAP rate used for all pools

Cumulative index rounding precision: Unlimited

LIFO history data rounded to 000's: No

Add back negative reserves for book LIFO: No

Show option to display Rpts. 16 and 17 layers as of year selected: Yes

Go to Period Maintenance

POOLS MAINTENANCE TABLE

A1 Mechanical Tubing

Pool	Pool Name
1	Mechanical Tubing
2	Boiler (pressure) Tubing
3	Pipe
4	Valves & Fittings
5	Stainless Pipe & Tubing
6	Stainless Valve & Fittings
7	Aluminum Pipe & Tubing
8	Aluminum Valve & Fittings
9	Cold finished bar

Go to Pool Maintenance

Show option to display Rpts. 16 and 17 layers as of year selected:

Double Click on the Pool Number Columns to specify original base years

Double Click on the Period Label Column to select date from Calendar

PERIODS MAINTENANCE TABLE

A10 12/31/2019

Period	Period Labels	1	2	3	4	5	6	7	8	9
1	6/30/2011	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	12/31/2011									
3	12/31/2012									
4	12/31/2013									
5	12/31/2014									
6	12/31/2015									
7	12/31/2016									
8	12/31/2017									
9	12/31/2018									
10	12/31/2019									
11	3/30/2020									
12	12/31/2021									
13	12/31/2022									
14	12/31/2023									
15	12/31/2024									
16	12/31/2025									
17	12/31/2026									
18	12/31/2027									
19	12/31/2028									
20	12/31/2029									
21	12/31/2030									
22	12/31/2031									
23	12/31/2032									

Last period closed Check marks in Pool no. columns indicate base period



Menus & Screens: Internal Index Module Screen

- Left side of screen used for settings & specifications
- Right side of screen shows input data, calc & reports
- Automatically calculates current year index(es) by loading data input file(s) into software containing the following required fields:
 - Item number and/or description
 - Quantity on hand or weight
 - Current year item cost or unit cost (prior/base period item costs can also be loaded, but are not required as the LIFOPro software can populate these costs using the prior year data that was loaded into the software for the prior year end's LIFO calculation)
- User can load any of the following file types:
 - Single data input file & sheet
 - Single data input file with multiple sheets
 - Multiple files & data input sheets
- User loads current year data input file(s) & sheets, specifies data column locations, chooses desired settings & selects start calculation button
- Complete set of summary & detail reports appear on the screen after calculation completes

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Diff Report 27 File

Zoom % 100 A1

	A	B	C	D
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
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26				
27				
28				
29				
30				
31				
32				
33				

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS

Set new item PY item cost equal to CY item cost

Reconstruct new item prior year costs using current year indexes of similar preexisting items (similar items grouped & current year indexes calculated by class)

Exclude new items from inflation calculation

Import PY item cost from PY Report 27a File

Include items with missing CY item cost

Include items with missing PY item cost

Run calc. for this y/e: **12/31/2020**

Load Current Year Data Input File

Start Calculation

Save Reports and Close 12/31/2020 Year end

Save Reports w/o Closing Year End

Save Settings

View Previously Calculated Reports

Print Sheet

Return to Main Menu

OUTLIER ITEM TREATMENT SETTINGS

Include or exclude outliers from calculation **Include**

Inflation outlier % **30** CY vs. PY ext. cost change dollar threshold

Deflation outlier % **30**

CURRENT YEAR DATA INPUT FILE SPECS

COLUMN SPECS

	CY	PY
Pool number	B	
Item number	D	
Item description	G	
Quantity on hand	H	
Item/unit cost	I	J
Class number	E	
Class description	F	
Manual exclusion		
Unit of measure		

ROW & OTHER SPECS

First item row **2**

Last item row **95688**

Show items with 0 QOH on Rpt 27a **No**

Manual exclusion word



Menus & Screens: Internal Index Module Screen

- **Settings:**
 - **Inflation comparison method:** Link-chain (current vs. prior year cost) or Double-extension (current vs. base year cost) or
 - **Item cost treatment:**
 - **Set new item PY item cost = to CY item cost:** New item current & prior year item costs are set to equal one another, effectively giving new items an inflation index of 1.0 (0 inflation)
 - **Reconstruct new item PY/BY cost using CY indexes of similar preexisting items:** If selected, class codes/descriptions loaded into the software are used to calculate CY index by class for preexisting items. Resulting index is matched to new items by class & PY/BY cost is calculated by dividing CY item cost by the CY index of the matching class. Can use any type of item grouping including item class, product line, department, stage of production/material type or profit center
 - **Exclude new items from inflation calculation:** only preexisting items will be used to calculate the current year inflation index
 - **Import PY item cost from PY Report 27a File:** For users whose accounting system only tracks current year item costs. Software automatically maps prior year item cost to current year data input file using prior year LIFO calculation
 - Include items w/ missing PY/CY item cost
 - **Outlier treatment settings:** Analysis report generated based on user-defined inflation/deflation percentages/dollars & will also exclude these items from index calculation if “Exclude” option is selected
- **Specifications:** Users specify the column locations of the input data to be used for the current year index calculation if a single file & sheet will be loaded. A separate multi sheet specifications file is prepared by user & automatically loaded by software if multiple sheets will be used. User can also manually exclude items from index calculation as needed.

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Impo

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-exte

ITEM COST TREATMENT SETTINGS

Set new item PY item cost equal to CY item cost
Reconstruct new item prior year costs using current year

indexes of similar preexisting items (similar items grouped & current year indexes calculated by class)

Exclude new items from inflation calculation

Import PY item cost from PY Report 27a File

Include items with missing CY item cost

Include items with missing PY item cost

OUTLIER ITEM TREATMENT SETTINGS

Include or exclude outliers from calculation **Include** ▾

Inflation outlier % **30** CY vs. PY ext. cost change dollar threshold

Deflation outlier % **30**

CURRENT YEAR DATA INPUT FILE SPECS

COLUMN SPECS	CY	PY	ROW & OTHER SPECS
Pool number	B		First item row 2
Item number	D		Last item row 95688
Item description	G		Show items with 0 QOH on Rpt 27a No ▾
Quantity on hand	H		Manual exclusion word <input type="text"/>
Item/unit cost	I	J	
Class number	E		
Class description	F		
Manual exclusion			
Unit of measure			

Menus & Screens: Internal Index Module Screen

- User selects Load button, selects file & specifies data column/row specs if current year input data is in a single file & sheet

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Diff Report 27 File

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS

Run calc. for this y/e: **12/31/2020**

Sel new item PY item cost equal to CY item cost

Reconstruct new item prior year costs using current year indexes of similar preexisting items (similar items group current year indexes calculated by class)

Exclude new items from inflation calculation

Import PY item cost from PY Report 27a

Include items with missing CY item cost

Include items with missing PY item cost

OUTLIER ITEM TREATMENT SETTINGS

Include or exclude outliers from calculation: **Include**

Inflation outlier %: **30** CY vs. PY ext. cost change dollar threshold: **30**

Deflation outlier %: **30**

CURRENT YEAR DATA INPUT FILE SPECS

COLUMN SPECS	CY	PY	ROW & OTHER SPECS
Pool number	B		First item row: 2
Item number	D		Last item row: 95688
Item description	G		Show items with 0 QOH on Rpt 27a: No
Quantity on hand	H		
Item/unit cost	I	J	
Class number	E		
Class description	F		
Manual exclusion	<input type="checkbox"/>	<input type="checkbox"/>	
Unit of measure	<input type="checkbox"/>	<input type="checkbox"/>	

Calculation scenario name: **PBC data file loaded...**

Q4 2020 Final Calculation

Last PBC data Excel file loaded:

Y:\LIFOPRO1\Single File Sheet Item Detail Data Input 2019YEManualCalcUsageStepsExample.xlsx

Name of Last Reports Saved as Excel file:

Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\12-31-2019 LIFO-PRO Internal Index calculation-Q4 2019 Final

Location	Pool #	SOP	Item #	Prod Class Code	Prod Class Desc	Item Desc	QOH	CY Unit Cost	PY Unit Cost
2 A	1	Raw Material	00040050399	5*	Std Equipment	IM/AHP2 HAND PENDANT - ENGLISH	8	1.00	11.14
3 A	1	Raw Material	0006716561	3*	Aftermarket Cutting	HOLDER SENSOR SUPRAREX	2	49.11	49.11
4 A	1	Raw Material	000776508	1*	Cutting Automation	CYCLE 8 HARDWARE KIT	1	7.70	7.70
5 A	1	Raw Material	0007288500	1*	Cutting Automation	A5 200 Quattrojet P/NG	1	5,412.98	5,412.98
6 A	1	Raw Material	001535508	1*	Cutting Automation	GEARED MOTOR	1	615.99	602.11
7 A	1	Raw Material	001535561	3*	Aftermarket Cutting	GEARED MTR KARBEN BEVEL (REPL)	3	710.27	687.95
8 A	1	Raw Material	000211539541	3*	Aftermarket Cutting	GEARHEAD MTR DF02 I=31.8 D=35	4	1,015.81	992.92
9 A	1	Raw Material	000226437500	1*	Cutting Automation	CVR Y CAR COMBIREX	1	42.98	42.98
10 A	1	Raw Material	000226437500	1*	Cutting Automation	CABLE CHAIN KIT 6M SINGLE	1	910.77	910.77
11 A	1	Raw Material	000226437500	1*	Cutting Automation	MOD CENT GAS MANI ACON W/O PG	1	3,608.48	3,608.48
12 A	1	Raw Material	000226437500	1*	Cutting Automation	AIR HOSE 5M QUICK COUPLING	2	74.14	74.14
13 A	1	Raw Material	000226437500	1*	Cutting Automation	KIT AC MC	1	676.26	676.26
14 A	1	Raw Material	000226437500	1*	Cutting Automation	CABLE SET PANEL T5 RELAYBOX	1	229.11	224.16
15 A	1	Raw Material	000226434562	3*	Aftermarket Cutting	CABLE EXT M12 M/F/ SHIELDED	30	29.03	28.12
16 A	1	Raw Material	000226435508	1*	Cutting Automation	CABLE HF GENATOR 0.7M	2	64.98	63.52
17 A	1	Raw Material	000226437500	1*	Cutting Automation	Supply Cable Aircon.OC 15m	2	83.90	83.90
18 A	1	Raw Material	000226457560	3*	Aftermarket Cutting	CBL ENC SUPRAREX 5M	4	112.42	70.20
19 A	1	Raw Material	000226457560	3*	Aftermarket Cutting	CBL ENC SUPRAREX 7M	8	102.62	69.83
20 A	1	Raw Material	000226457560	3*	Aftermarket Cutting	CBL DRIVE SUPRAREX 5M	3		
21 A	1	Raw Material	000226457560	3*	Aftermarket Cutting	CBL DRIVE SUPRAREX 7M	17	96.80	50.12
22 A	1	Raw Material	000226464508	1*	Cutting Automation	CBL ENC 15M SGMPH-04 Y AXIS	1		
23 A	1	Raw Material	000226464561	3*	Aftermarket Cutting	CBL MTR 15M SGMPH-04 Y-AXIS	1		
24 A	1	Raw Material	000226469508	1*	Cutting Automation	CBL 3.5M SIDE CARRIAGE	9	44.62	44.62
25 A	1	Raw Material	000226469508	1*	Cutting Automation	CBL 7.5M SIDE CARRIAGE	9	44.90	44.90
26 A	1	Raw Material	000226469508	1*	Cutting Automation	CBL 10M M12 5P F	15	22.09	22.09
27 A	1	Raw Material	000226471508	1*	Cutting Automation	CN8 SAFETY CABLE	1	45.28	54.19
28 A	1	Raw Material	000226472508	1*	Cutting Automation	VALVE CABLE TYP A 3M	1	10.95	10.95
29 A	1	Raw Material	000226472508	1*	Cutting Automation	CBL 3.5M PWR ACON HUB	2	36.29	35.14
30 A	1	Raw Material	000226472508	1*	Cutting Automation	CBL 5M M12 5P FE	1	19.46	19.02
31 A	1	Raw Material	000226472508	1*	Cutting Automation	CBL 7.5M M12 5P FE	34	20.38	20.38
32 A	1	Raw Material	000226472508	1*	Cutting Automation	CBL 3M M12 5P FE	25	16.26	16.26
33 A	1	Raw Material	000226472508	1*	Cutting Automation	GROUND CABLE PANEL 5M	1	22.26	22.26
34 A	1	Raw Material	000226472508	3*	Aftermarket Cutting	CBL PWR 3M	3	24.50	35.94
35 A	1	Raw Material	000226472508	1*	Cutting Automation	CBL AY 7M PWR 230V	9	36.84	35.68
36 A	1	Raw Material	000226472508	3*	Aftermarket Cutting	POWER CBL 8M	1	48.22	46.71
37 A	1	Raw Material	000226472508	3*	Aftermarket Cutting	POWER CABLE 10M	2	35.34	34.55
38 A	1	Raw Material	000226472508	3*	Aftermarket Cutting	POWER CBL 15M	1	54.43	53.26
39 A	1	Raw Material	000226472508	1*	Cutting Automation	GROUND CABLE 1M 16MMY	13	9.36	9.36
40 A	1	Raw Material	000226475508	1*	Cutting Automation	GROUND CABLE 2M 16MMYRAREX	24	11.63	11.63
41 A	1	Raw Material	000226475508	1*	Cutting Automation	GROUND CABLE 4M 16MMYRAREX	35	18.93	18.93
42 A	1	Raw Material	000226477508	1*	Cutting Automation	"SENSOR CABLE M8 TOOLTIP 30""	2	62.62	62.62
43 A	1	Raw Material	000226478561	3*	Aftermarket Cutting	CBL PWR AIR COND OC 7M	2	196.06	196.06
44 A	1	Raw Material	000226480508	1*	Cutting Automation	"SENSOR CABLE M8 TOOLTIP 28""	1	64.09	62.08

Zoom %: 100 | A2 | A

Item Detail Consolidated 2019YE

Software imports data located within the sheet displayed to calculate current year index calculation by pool by entering the column locations of all required data in the current year data input file specs text boxes.

Current period data input sheet appears on right side of screen after selecting Load Data File button & selecting file to load. Software will read the input data from the sheet displayed based on the specified locations entered on the left side of the screen.

Current year data input file appears on right side of screen after this button selected & user selects Excel file to load

Data input sheet column/row locations are specified in these text boxes if a single Excel files & sheet is loaded into the software. Optional fields are left blank if unused.



Menus & Screens: Internal Index Module Screen

- Software automatically loads multi sheet specifications file & displays on right side of screen if multiple sheets will be loaded

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Diff Report 27 File

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS

Run calc. for this y/e:

Set new item PY item cost equal to CY item cost

Reconstruct new item prior year costs using current year indexes of similar preexisting items (similar items grouped & current year indexes calculated by class)

Exclude new items from inflation calculation

Software automatically loads files/sheets listed on the right side of the screen to complete current year index calculation after selecting this button

Include items with missing PY item cost

OUTLIER ITEM TREATMENT SETTINGS

Include or exclude outliers from calculation

Inflation outlier % CY vs. PY ext. cost change dollar threshold

Deflation outlier %

CURRENT YEAR DATA INPUT FILE SPECS

COLUMN SPECS

	CY	PY
Pool number	B	
Item number	D	
Item description	G	
Quantity on hand	H	
Item/unit cost	I	J
Class number	E	
Class description	F	
Manual exclusion		
Unit of measure		

ROW & OTHER SPECS

First item row

Last item row

Show items with 0 QOH on Rpt 27a

Software ignores these fields when multi file/sheet specifications file shown to the right is loaded.

- Load Current Year Data Input File
- Start Calculation
- Save Reports and Close 12/31/2020 Year end
- Save Reports w/o Closing Year End
- Save Settings
- View Previously Calculated Reports
- Print Sheet
- Return to Main Menu

Calculation scenario name: **Q4 2020 Final Calculation**

Last PBC data Excel file loaded: Y:\LIFOPRO1\Single File Sheet Item Detail Data Input 2019YE.xlsx

Name of Last Reports Saved as Excel file: Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\12-31-2019 LIFO-PRO Internal Index calculation-Q4 2019 Final

Zoom % 100 K6 2

File named iISheetsSpecs.xlsx
Containing specs for PBC internal index data contained in multiple Excel file sheets

Software automatically opens this file when entering the internal index module if user has saved Excel file with data input file/sheet specs to their LIFOPRO software data folder

Excel folder & File Name	Sheet Name	Sheet Pool Number	Pool Number Column Letter	Item Number Column Letter	QOH Column Letter	C/Y Unit Cost Column Letter	P/Y Unit Cost Column Letter	Product Class Number Column Letter	Product Class Desc Column Letter	First Item Data Row	Last Item Data Row	Manual Exclusion Column Letter	Manual Exclusion Word	C/Y UOM Column Letter	C/Y UOM Column Letter
Y:\LIFOPRO1\Location A Item Detail Data Input2019YE.xls	LOC A SAP	1		D	H	I	J	E	F	2	28,218				
Y:\LIFOPRO1\Location A Item Detail Data Input2019YE.xls	LOC A JDE	1		D	H	I	J	E	F	2	60,963				
Y:\LIFOPRO1\Location B Item Detail Data Input2019YE.xls	LOC B PKG	2		D	F	G	H	C	C	2	91				
Y:\LIFOPRO1\Location B Item Detail Data Input2019YE.xls	LOC B RAW	2		D	F	G	H	C	C	2	199				
Y:\LIFOPRO1\Location B Item Detail Data Input2019YE.xls	LOC B SFG	2		D	F	G	H	C	C	2	74				
Y:\LIFOPRO1\Location B Item Detail Data Input2019YE.xls	LOC B FG	2		D	F	G	H	C	C	2	1,067				
Y:\LIFOPRO1\Location C Item Detail Data Input2019YE.xls	LOC C PKG	3		D	F	G	H	C	C	2	26				
Y:\LIFOPRO1\Location C Item Detail Data Input2019YE.xls	LOC C RAW	3		D	F	G	H	C	C	2	58				
Y:\LIFOPRO1\Location C Item Detail Data Input2019YE.xls	LOC C SFG	3		D	F	G	H	C	C	2	30				
Y:\LIFOPRO1\Location C Item Detail Data Input2019YE.xls	LOC C FG	3		D	F	G	H	C	C	2	427				
Y:\LIFOPRO1\Location D Item Detail Data Input2019YE.xls	LOC D JDE	4		D	I	J	K	E	F	2	3,392				
Y:\LIFOPRO1\Location D Item Detail Data Input2019YE.xls	LOC D SAP	4		D	H	I	J	E	F	2	1,097				

Prior to entering the internal index module screen, user opens Multi file/sheet specifications file in Excel, enters input data file, folder & sheet names, column & row locations & saves the file in their LIFOPRO software data folder. If greater than one LIFO pool exists, user has the option to specify the pool number by sheet, file or by including a pool number column within each of the files/sheets to be loaded. Unused optional data fields what won't be loaded into the software should be left blank.

SheetSpecs2019 SheetSpecs2018 /Single File Multi Sheet Specs /DataInputSheetFields



Menus & Screens: Screen 3

- Allows for current year inventory balances & indexes that were manually calculated by user outside of software (front-end inputs) to be entered to complete the back-end of LIFO calculation (cumulative index, inventory at base, increase/decrease at base/cost, LIFO inventory & reserve balances & current year LIFO expense/income)
- Current year LIFO calculation documentation & software LIFO history database file updated to include front-end inputs & back-end calculation results after required inputs are entered & close period end button is selected
- **Front-end Input Fields:** highlighted in orange in version 6 & in blue in version 5 of the software.
- **Non-input Fields** - all non-highlighted cells & are organized as follows:
 - **Prior year data** – shown to the left of two input fields
 - **Current year data (back-end outputs)** – shown to the right of index input field; amounts automatically calculate after entering/updating input cell values

SCREEN 3

LP

File Edit Save Report 3 as Excel File Global Var Help

Zoom % 85 D7 28868821.46 Load Different File Print Close 12/31/2019 Exit and Don't Save Exit and Save

ABC Corporation 9/1/2019 11:56:18 AM

DATA INPUT FOR 12/31/2019 LIFO CALCULATIONS LIFO-PRO Report 3

DATA FILE NAME:Y:\LIFOPRO1\Sample Internal Index Calculation\OnLIFO\LPDataFiles\LinkChain\act12_29.prn Breakdown of LIFO Expense (Income) Components

POOL	C/Y COST		INDEX		LIFO			Breakdown of LIFO Expense (Income) Components		
	12/31/2018	12/31/2019	12/31/2018	12/31/2019	EXPENSE	RESERVE	INVENTORY	Inflation Effect	Erosion Effect	LIFO Expense
1 Mechanical Tubing	29,669,116	28,868,821	1.233787	1.093426	2,466,585	4,711,912	24,156,910	2,771,868	-305,283	2,466,585
2 Boiler (pressure) Tubing	624,203	529,677	1.171420	1.165107	49,597	143,323	386,355	103,060	-53,464	49,597
3 Pipe	5,652,128	6,160,901	1.124108	1.020803	117,582	389,997	5,770,904	117,582		117,582
4 Valves & Fittings	3,172,199	3,013,266	1.106021	1.177518	370,607	803,401	2,209,865	563,122	-192,515	370,607
5 Stainless Pipe & Tubing	10,411,352	10,412,941	1.255651	.901926	-1,021,083	-1,207,008	11,619,950	-1,021,083		-1,021,083
6 Stainless Valve & Fittings	546,307	546,679	1.212152	1.084893	41,632	87,181	459,498	46,378	-4,746	41,632
7 Aluminum Pipe & Tubing	1,002,199	1,288,541	.999161	1.029224	29,288	-95,262	1,383,803	29,288		29,288
8 Aluminum Valve & Fittings	25,620	18,278	.924900	1.155065	2,716	293	17,985	3,973	-1,257	2,716
9 Cold finished bar	3,076,310	3,022,496	1.236762	.962924	-114,057	-158,316	3,180,812	-114,057		-114,057
TOTALS OR WTD AVG	54,179,434	53,861,602	1.211074	1.037658	1,942,866	4,675,320	49,186,082	2,500,131	-557,265	1,942,866

E-Layer erosion occurs for this pool.

Input Boxes & Fields

Calculate Command Button

Usage Steps Summary

Preparation & Inputs

- **Preparation:** User prepares data input sheet(s) within Excel file(s) containing the following applicable fields to be loaded into the software & used for current year index calculation:
 - Item number and/or description
 - Quantity on hand or weight
 - Current & prior/base year item/unit cost (PY/BY cost optional; software can lookup PY/BY costs & match them to data loaded by user for CY index calculation)
 - Class code and/or description (optional; used to 1) calculate preexisting item CY index by class 2) reconstruct new item PY/BY cost 3) Create CY index by class report)
 - CY and/or PY/BY unit of measure (optional)
 - Pool number (if user has more than one LIFO pool)
- **Inputs:** User organizes data in one of the following formats:
 - **Single file & sheet:** User enters data input field locations in internal index module after loading file into software.
 - **Multiple files or sheets:** User enters file name, folder path, sheet names & data input field locations in multi sheet specifications file that's automatically loaded by the software upon entering Internal Index Module

Calculation & Reporting

Calculation

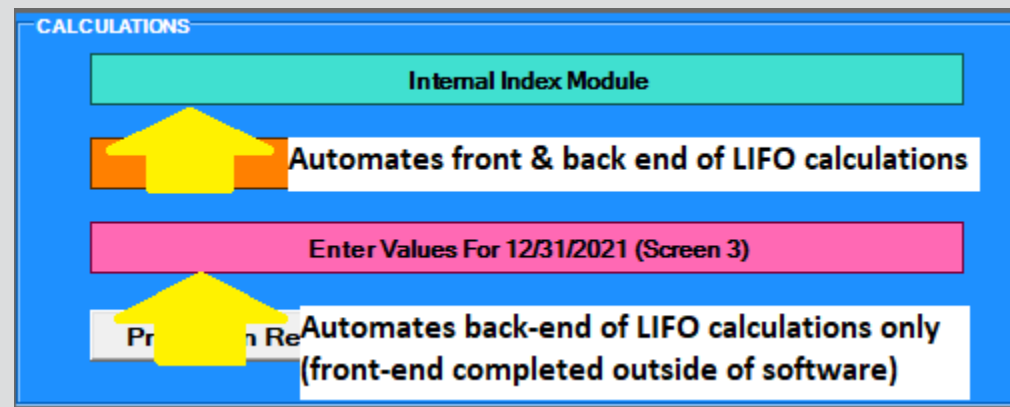
- User opens software & enters Internal Index Module
- User loads data input file & enters data input sheet field locations on left side of screen if a single file & sheet will be used
- Software automatically loads multi sheet specifications file if more than 1 data input sheet will be used
- User selects desired item cost, analysis & calculation settings
- User selects Start Calculation button, software reads data input sheet(s) & completes CY index calculation
- Internal index summary report appears on screen & user enters general ledger balances by pool if data input sheet Total CY extended cost balance does not tie to general ledger totals
- User selects Save Reports & Close Year End button to save calculation results to software database file & update reports
- User can unclosereclose year end unlimited times to re-run calculation or to perform interim estimates

Reporting: Internal index calculation summary, detail & analysis reports automatically saved as Excel file after closing year end. LIFO calculation summary/detail reports can also be printed, or saved as Excel/PDF file from Main Menu screen.



Calculation Summary: Automated vs. Manual Index Calculations

- The LIFOPro Software automates both of the following steps required to complete internal index LIFO calculations:
 - **Front-end:** Current year indexes are calculated by pool by extending quantity on hand to current and prior/base year item/unit cost to calculate current & prior/base year extended costs
 - **Back-end:** Front-end values are plugged into software LIFO database file to calculate CY inventory at base year costs, increase/decrease at base costs, priced increase/decrease (i.e. LIFO increment/decrement), CY LIFO inventory balance, CY LIFO reserve & CY LIFO expense (income)
- **Internal Index Module:** Used to automatically complete both the front & back end of LIFO calculation (upon user loading data input sheet(s) required to complete CY index calculation; also automates item cost treatment, analysis, exceptions/outliers, new items etc.). Also automates closing year end & saving software LIFO database file
- **Screen 3:** Used to complete the back end of the LIFO calculation automatically (user manually completes front end of index calculation outside of the software & enters year end inventory balances at cost & CY indexes by pool in order to automatically complete the back end of the LIFO calculation & save software LIFO database file).
- Internal Index Module used to make interim LIFO estimates automatically
- Screen 3 can be used to make interim LIFO estimates & projections manually



Preparation & Inputs: Auto Index Calculation – Data Input Sheet

- User generates data input file containing the required fields listed below
- Data input fields can be arranged in any order as user specifies column/row locations separately
- Single or multiple Excel file(s)/sheet(s) can be loaded into the software
- Data field column/row locations specified in internal index module screen if single file & sheet will be loaded
- Data field column/row locations specified in multi sheet specifications Excel file if multiple sheets will be loaded

LIFOPro Software Internal Index Module Data Input Sheet Field Specifications & Requirements		
Field Name	Field Description	Required Field
Pool Number	Used by software to sum current & prior/base period extended costs by LIFO pool	Yes if >1 pool
Item Number	Some type of unique identifier such as item/part/product number or code, SKU or UPC. This field can contain duplicate item numbers and can also be set to equal the item description field if data input sheet does not have an item number field.	Yes
Item Description	This field can contain duplicate item descriptions and can also be set to equal the item number field if data input sheet does not have an item description field.	Yes
Quantity on Hand or Weight	Multiplied by current & prior/base period item cost to calculate current & prior/based period extended cost. Can be any UOM.	Yes
Current Year Unit or Item Cost	Also known as unit cost. Multiplied by current period QOH to calculate current period extended cost. Can be any UOM.	Yes
Prior or Base Year Unit or Item Cost	Multiplied by current period quantity on hand to calculate prior or base period extended cost. Prior/base period item costs can be automatically looked up by LIFOPro software using prior period calculation data.	Yes if PY item cost lookup isn't used
Current/Prior Year Unit of Measure	Optional field used to compare current vs. prior period unit of measure & generate Unit of Measure Exceptions Analysis Report	No
Class Number	Optional field used to generate current year index by class report. Also used to reconstruct prior/base year item cost for new items by dividing new item cost by preexisting item current year index for matching class. Calculates inflation by any type of hierarchy or organization such as class, department, category, group, fineline, profit center or stage of production. This field can be set to equal the product class description field if data input sheet does not have a product class number field.	No
Class Description	Optional field used to generate inflation by class analysis report. This field can be set to equal the product class number field if data input sheet does not have a product class description field.	No
Manual Exclusion	Optional field used to exclude item(s) contained in data input sheet from index calculation. If used, software will exclude any item with the user-defined manual exclusion word within the designated column.	No
First & Last Item Row	Optional field used to designate the first & last row location of item cost data to be imported into the software. Row 2 is the default first item row the software will import data from if this field is left blank.	No



Preparation & Inputs : Auto Index Calc – Single Data Input Sheet

- All items to be included in LIFO calculation should be contained in this sheet
- Data can be arranged in any order as user specifies input data column/row location in internal index module screen
- Non-required fields that will not be used for the LIFO calculation can be included & need not be removed
- Items that are in the report but need to be excluded from the LIFO calculation can be excluded by inserting a manual exclusion field & entering the user-defined exclusion term into the manual exclusion cell of the items to be excluded from the index calculation (software will automatically exclude these items)
- Pool number column only required for companies with more than 1 LIFO pool

Sample Data Input Sheet – All data within a single Excel sheet (example below is company with multiple pools)

	A	B	C	D	E	F	G	H	I	J
1	Location	Pool #	SOP	Item #	Prod Class Code	Prod Class Desc	Item Desc	QOH	CY Unit Cost	PY Unit Cost
2	A	1	Raw Material	000040050	399	5*Std Equipment	IM/AHP2 HAND PENDANT - ENGLISH	8	1.00	11.14
3	A	1	Raw Material	000206716	561	3*Aftermarket Cutting	HOLDER SENSOR SUPRAREX	2	49.11	49.11
4	A	1	Raw Material	000207276	508	1*Cutting Automation	CYCLE 8 HARDWARE KIT	1	7.70	7.70
5	A	1	Raw Material	000207288	500	1*Cutting Automation	A5 200 Quattrojet P/NG	1	5,412.98	5,412.98
6	A	1	Raw Material	000211535	508	1*Cutting Automation	GEARED MOTOR	1	615.99	602.11
7	A	1	Raw Material	000211535	561	3*Aftermarket Cutting	GEARED MTR KARBEN BEVEL (REPL)	3	710.27	687.95
8	A	1	Raw Material	000211539	561	3*Aftermarket Cutting	GEARHEAD MTR DF02 I=31.8 D=35	4	1,015.81	992.92
9	A	1	Raw Material	000215748	508	1*Cutting Automation	CVR Y CAR COMBIREX	1	42.98	42.98
10	A	1	Raw Material	000218000	508	1*Cutting Automation	CABLE CHAIN KIT 6M SINGLE	1	910.77	910.77
11	A	1	Raw Material	000220708	508	1*Cutting Automation	MOD CENT GAS MANI ACON W/O PG	1	3,608.48	3,608.48
12	A	1	Raw Material	000223468	508	1*Cutting Automation	AIR HOSE 5M QUICK COUPLING	2	74.14	74.14
13	A	1	Raw Material	000225497	508	1*Cutting Automation	KIT AC MC	1	676.26	676.26
14	A	1	Raw Material	000226431	508	1*Cutting Automation	CABLE SET PANEL T5 RELAYBOX	1	229.11	224.16
15	A	1	Raw Material	000226434	562	3*Aftermarket Cutting	CABLE EXT M12 M/F/ SHIELDED	30	29.03	28.12
16	A	1	Raw Material	000226435	508	1*Cutting Automation	CABLE HF GENATOR 0.7M	2	64.98	63.52
17	A	1	Raw Material	000226437	500	1*Cutting Automation	Supply Cable Aircon.OC 15m	2	83.90	83.90
18	A	1	Raw Material	000226457	560	3*Aftermarket Cutting	Item detail report saved in one Excel file & sheet to		112.42	70.20
19	A	1	Raw Material	000226457	560	3*Aftermarket Cutting	be used as data input sheet that will be loaded into		102.62	69.83
20	A	1	Raw Material	000226457	560	3*Aftermarket Cutting	LIFOPro software for internal index LIFO calculation			



Preparation & Inputs: Auto Index Calc – Multiple Data Input Sheets

- LIFOPro software will load internal index input data from multiple sheets of an Excel file
- Data can be arranged in any order as software reads a multi sheet specifications file containing input data column/row location to determine the appropriate data input sheets & fields to import for the calculation
- For companies with multiple LIFO pools, pool numbers can be specified as follows:
 - One pool per sheet: user enters each sheet's pool number in multi sheet specifications file (no pool number field required within the data input sheets)
 - Multiple pools per sheet: user inserts a pool number field into each of the data input sheets & enters each sheet's pool number column in multi sheet specifications file (pool number field required within each sheet)

Sample Data Input Sheet – One File, Multiple Sheets

	A	B	C	D	E	F	G	H	I	J
1	LOC	Pool #	Material Type	Item #	Prod Class Code	Prod Class Desc	Item Description	QOH	2019 Unit Cost	2018 Unit Cost
2	A	1	Raw Material	0000400501	399	5*Std Equipment	IM/AHP2 HAND PENDANT - ENGLISH	8	1	11.14
3	A	1	Raw Material	0002067164	561	3*Aftermarket Cutting	HOLDER SENSOR SUPRAREX	2	49.11	49.11
4	A	1	Raw Material	0002072764HDW	508	1*Cutting Automation	CYCLE 8 HARDWARE KIT	1	7.7	7.7
5	A	1	Raw Material	0002072888	500	1*Cutting Automation	A5 200 Quattrojet P/NG	1	5412.98	5412.98
6	A	1	Raw Material	0002115353	508	1*Cutting Automation	GEARED MOTOR	1	615.99	602.11
7	A	1	Raw Material	0002115355	561	3*Aftermarket Cutting	GEARED MTR KARBEN BEVEL (REPL)	3	710.27	687.95
8	A	1	Raw Material	0002115391	561	3*Aftermarket Cutting	GEARHEAD MTR DF02 I=31.8 D=35	4	1015.81	992.92
9	A	1	Raw Material	0002157482	508	1*Cutting Automation	CVR Y CAR COMBIREX	1	42.98	42.98
10	A	1	Raw Material	0002180002	508	1*Cutting Automation	CABLE CHAIN KIT 6M SINGLE	1	910.77	910.77
11	A	1	Raw Material	0002207081	508	1*Cutting Automation	MOD CENT GAS MANI ACON W/O PG	1	3608.48	3608.48
12	A	1	Raw Material	0002234681	508	1*Cutting Automation	AIR HOSE 5M QUICK COUPLING	2	74.14	74.14
13	A	1	Raw Material	0002254971	508	1*Cutting Automation	KIT AC MC	1	676.26	676.26
14	A	1	Raw Material	0002264317	508	1*Cutting Automation	CABLE SET PANEL T5 RELAYBOX	1	229.11	224.16
15	A	1	Raw Material	0002264340	562	3*Aftermarket Cutting	CABLE EXT M12 M/F/ SHIELDED	30	29.03	28.12
16	A	1	Raw Material	0002264351	508	1*Cutting Automation	CABLE HF GENATOR 0.7M	2	64.98	63.52
17	A	1	Raw Material	0002264371	500	1*Cutting Automation	Supply Cable			
18	A	1	Raw Material	0002264571	560	3*Aftermarket Cutting	CBL ENC SUP			
19	A	1	Raw Material	0002264572	560	3*Aftermarket Cutting	CBL ENC SUP			
20	A	1	Raw Material	0002264575	560	3*Aftermarket Cutting	CBL DRIVE SL			
21	A	1	Raw Material	0002264576	560	3*Aftermarket Cutting	CBL DRIVE SL			
22	A	1	Raw Material	0002264642	508	1*Cutting Automation	CBL ENC 15M			
23	A	1	Raw Material	0002264643	561	3*Aftermarket Cutting	CBL MTR 15M			
24									44.89	44.89

Item detail reports saved as multiple sheets within a single Excel file to be loaded into LIFOPro software for internal index LIFO calculation. User enters input data column/row locations for each sheet in multi sheet specs file



Preparation & Inputs: Auto Index Calc – Multiple Data Input Sheets

- User opens internal index calculation data input files/sheets to be loaded into the LIFOPro software
- User opens LIFOPro software multi sheets specifications file & enters folder paths, file names & input data locations starting on row 6 & saves to LIFOPro software folder
- LIFOPro software will automatically load this file upon entering Internal Index module

Location A Data Input 2020YE.xlsx - Excel

Current year index calculation data locations to be loaded by the software entered into appropriate row & columns of multi file specs sheet

Folder paths & file names entered into Column A of multi file/sheet specs sheet

	A	B	C	D	E	F	G	H	I
1	LOC	Material Type	Item #	Class Code	Class Desc	Item Description	QOH	2020 Unit Cost	2019 Unit Cost
28199	A	Finish Good	Q1-101-000	560	3*Aftermarket Cutting	1-101-000 VICTOR STL TIP	15	15.13	15.13
28200	A	Finish Good	Q19918	560	3*Aftermarket Cutting	ELECTRODE (5)	20	2.37	2.38
28201	A	Finish Good	Q20463	508	1*Cutting Automation	SWIRL BAFFLE 50AMP6 HOLES	20	4.88	4.80
28202	A	Finish Good	Q20861	508	1*Cutting Automation	TIP 50 AMP (10)	160	2.24	2.30
28203	A	Finish Good	Q20862	508	1*Cutting Automation	ELECTRODE XT PT-31XL (5)	130	2.05	1.63
28204	A	Finish Good	Q21008	560	3*Aftermarket Cutting	TIP 40AMP XT (10)	290	3.13	3.18
28205	A	Finish Good	Q21616	560	3*Aftermarket Cutting	PT-27 HEAT SHIELD	15	10.75	11.16
28206	A	Finish Good	Q3-101-0	560	3*Aftermarket Cutting	3-101-0 VICTOR STL TIP	11	8.06	8.06
28207	A	Finish Good	Q3-101-1	560	3*Aftermarket Cutting	3-101-1 VICTOR STL TIP	8	8.62	8.62
28208	A	Finish Good	Q33366	562	3*Aftermarket Cutting	PT-27 ELECTRODE (2)	266	3.16	3.82
28209	A	Finish Good	Q33367	562	3*Aftermarket Cutting	PT-27 BAFFLE	62	2.43	2.06
28210	A	Finish Good	Q33369	508	1*Cutting Automation	PT-27 50-70 AMP NOZZLE (5)	145	2.25	2.32
28211	A	Finish Good	Q33418	560	3*Aftermarket Cutting	PT-27 80 AMP NOZZLE (5)	40	2.11	2.18
28212	A	Finish Good	Q403-1-45	508	1*Cutting Automation	CONTACT TIP HVY DTY .045 (1)	320	0.34	0.34
28213	A	Finish Good	Q75001738	560	3*Aftermarket Cutting	NOZZLE INSULATOR (5)	556	2.84	2.84
28214	A	Finish Good	Q75004033	508	1*Cutting Automation	GAS DIFFUSER FLUSH (2)	224	4.08	4.08
28215	A	Finish Good	Q75045014	508	1*Cutting Automation	CONTACT TIP 0.045 (25)	200	0.72	0.72
28216	A	Finish Good	Q75146202	560	3*Aftermarket Cutting	NOZZLE 5/8-1/8 REC PLTD (1)	20	10.32	10.32
28217	A	Finish Good	Q76257	508	1*Cutting Automation	TUNG PURE 2.4X175MM GR (10)	130	1.78	1.78
28218	A	Finish Good	42049002	508	1*Cutting Automation	1/4X22 COATED SLICE ROD (PK	160	19.35	19.55
28219									
28220									
28221									
28222									

Data input sheet names entered into Column B of multi file specifications sheet

LOC A SAP

iiMultiSheetSpecs.xlsx - Excel

User enters internal index calculation data input sheet folder paths, file names & input data locations starting on row 6 of multi file/sheet specifications sheet (software multi file/sheet specs Excel template file provided to users). Multi file/sheet specs file is saved to LIFOPro data folder & software will automatically load this file when entering Internal Index module.

	A	B	C	D	E	F	G	H	I	J	K	L
1	File named iiSheetsSpecs.xlsx											
2	Containing specs for PBC internal index data contained in multiple Excel files or sheets											
3												
4												
5	Folder Path & File Name	Sheet Name	Item Number	Item Desc Letter	Item Desc Letter	CY Unit Cost Letter	PY Unit Cost Letter	Class Number Letter	Class Desc Letter	First Item Data Row	Last Item Data Row	
6	Y:\LIFOPRO1\Location A Data Input 2020YE.xlsx	LOC A SAP	1	C	F	G	H	I	D	E	2	28,218
7	Y:\LIFOPRO1\Location A Data Input 2020YE.xlsx	LOC A JDE	1	D	G	H	I	J	E	F	2	60,963
8	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B PKG	2	D	E	F	G	H	C	C	2	91
9	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B RAW	2	D	E	F	G	H	C	C	2	199
10	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B SFG	2	D	E	F	G	H	C	C	2	74
11	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B FG	2	D	E	F	G	H	C	C	2	1,067
12	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C PKG	3	D	E	F	G	H	C	C	2	26
13	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C RAW	3	D	E	F	G	H	C	C	2	58
14	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C SFG	3	D	E	F	G	H	C	C	2	30
15	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C FG	3	D	E	F	G	H	C	C	2	427
16	Y:\LIFOPRO1\Location D Data Input 2020YE.xlsx	LOC D JDE	4	D	G	H	I	J	E	F	2	3,392
17	Y:\LIFOPRO1\Location D Data Input 2020YE.xlsx	LOC D SAP	4	D	G	I	J	K	E	F	2	1,097
18												



Preparation & Inputs: Manual Index Calculation – Link-chain

- User generates item detail report to calculate current year inflation index by LIFO pool; typically includes:
 - Pool number if there are multiple LIFO pools
 - Quantity on hand or weight
 - Current year item or unit cost
 - Prior year item or unit cost
 - Current year extended cost: Current year QOH * Current year item cost
 - Prior year extended cost: Current year QOH * Prior year item cost
 - Any other fields used for analysis to be performed outside of the software

Item Detail Report Containing Variables Required for Front End Index Calculation

1	A	B	C	D	E	F	G	H	
	Pool #	Item #	Item Desc	QOH	Current Year Item Cost	Prior Year Item Cost	Current Year Extended Cost	Prior Year Extended Cost	
95671	4	810722182045	.045 electrode 6-M 25# WB-LLW	632	52.77	54.56	33,372	34,504	
95672	4	811211205156	5/32 x 14 electrode 12 CTD 10# Vacpak	110	28.06	27.16	3,087	2,988	
95673	4	811212184094	3/32 electrode 12-S 50# Coil	50	41.33	42.04	2,067	2,102	
95674	4	811222182062	1/16 electrode 12-M 25# WB-LLW	126	50.42	37.79	6,333	4,746	
95675	4	812101105125	1/8 X 14 electrode #21 BARE 5#	70	40.12	40.12	2,808	2,808	
95676	4	812101105156	5/32 x 14 electrode 21 Bare 5#	40	38.46	31.69	1,538	1,268	
95677	4	812101105187	3/16 X 14 electrode #21 BARE 5#	85	37.22	31.61	3,164	2,687	
95678	4	812101105250	1/4 X 14 electrode #21 BARE 5#	40	36.78	31.55	1,471	1,262	
95679	4	812101205125	1/8 x 14 electrode 21 CTD 10#Va 10# V	360	33.30	27.03	11,988	9,731	
95680	4	812101205156	5/32 x 14 electrode 21 CTD 10#V 10# V	670	31.79	26.67	21,299	17,869	
95681	4	812101205250	1/4 x 14 electrode #21 Ctd Vac	520	30.38	26.42	15,798	13,738	
95682	4	812122182045	.045 electrode 21-M 25# WB-LLW	152	54.87	41.52	8,313	6,290	
95683	4	812122182062	1/16 electrode 21-M 25# WB-LLW	179	52.95	39.58	9,483	7,089	
95684	4	812901107125	1/8 x 14 electrode 6H MIL 5#	205	49.26	42.66	10,098	8,745	
95685	4	824007105156	5/32 X 14 welding 60 BARE 5#	5	21.74	23.37	109	117	
95686	4	824107105187	3/16 X 14 welding 50 BARE 5#	35	19.73	28.68	691	1,004	
95687	4	827322282062	1/16 welding C-M 25# WB-LLW	100	28.94	28.94	2,894	2,894	
95688	4	894533475156	5/32 Multipass 5-S(Mod)500#	500	1.27	1.27	635	635	
95689									
95690									
							Sheet Totals	\$ 114,279,846	\$ 108,936,582



Preparation & Inputs: Manual Index Calculation – Link-chain

- User creates summary table in item detail report sheet to calculate the following values:
 - Current year extended cost by LIFO pool: Current year QOH * Current year item cost
 - Prior year extended cost by LIFO pool: Current year QOH * Prior year item cost
 - Current year inflation index by LIFO pool: Current ÷ Prior year extended cost by LIFO pool
- Current year inflation indexes by pool are entered into software to complete back-end of LIFO calculation (cumulative indexes, increase/decrease @ base/cost, LIFO inventory, reserve & expense (income) values)

LIFO-PRO Software Input Values Summary Schedule

G95694 : X ✓ fₓ =SUMIFS(\$G\$2:\$G\$95688,\$A\$2:\$A\$95688,F95694)										
	A	B	C	D	E	F	G	H	I	J
1	Pool #	Item #	Item Desc	QOH	Current Year Item Cost	Prior Year Item Cost	Current Year Extended Cost	Prior Year Extended Cost		
95683	4	812122182062	1/16 electrode 21-M 25# WB-LLW	179	52.95	39.58	9,483	7,089		
95684	4	812901107125	1/8 x 14 electrode 6H MIL 5#	205	49.26	42.66	10,098	8,745		
95685	4	824007105156	5/32 X 14 welding 60 BARE 5#	5	21.74	23.37	109	117		
95686	4	824107105187	3/16 X 14 welding 50 BARE 5#	35	19.73	28.68	691	1,004		
95687	4	827322282062	1/16 welding C-M 25# WB-LLW	100	28.94	28.94	2,894	2,894		
95688	4	894533475156	5/32 Multipass 5-S(Mod)500#	500	1.27	1.27	635	635		
95689										
95690						Sheet Totals	\$ 114,279,846	\$ 108,936,582		
95691										
95692										
	Current Year Indexes & inventory balances at cost by LIFO pool calculated in this summary schedule will be entered into LIFOPro software to complete back-end of calculation. Current period extended cost balances by LIFO pool shown in summary table will also be entered into the software if these amounts tie to the general ledger inventory balances at cost by pool. User can enter actual GL balances at cost by LIFO pool into software if the item detail current period extended cost balances do not tie to the general ledger.						Inventory Balances & Current Year Indexes by LIFO Pool Summary Schedule			
95693						Pool #	CY Ext Cost	PY Ext Cost	Current Year Index	
95694						1	80,120,969	77,217,147	1.037606	
95695						2	18,600,745	17,835,462	1.042908	
95696						3	9,164,381	7,907,930	1.158885	
95697						4	6,393,751	5,976,043	1.069897	
95698						Totals/avgs	\$ 114,279,846	\$ 108,936,582	1.049049	



Preparation & Inputs: Manual Index Calculation – Double-Extension

- User generates item detail report to calculate current year inflation index by LIFO pool; typically includes:
 - Pool number if there are multiple LIFO pools
 - Quantity on hand or weight
 - Current year item or unit cost
 - Base year item or unit cost
 - Current year extended cost: Current year QOH * Current year item cost
 - Base year extended cost: Current year QOH * Base year item cost
 - Any other fields used for analysis to be performed outside of the software

Item Detail Report Containing Variables Required for Front End Index Calculation

C11885		1-1/2 X 1-1/2 X 7GA 304 WELD SS ORN TUBE 20' A554						
	A	B	C	D	E	F	G	H
1	Item #	LIFO Pool #	Product Description	Current Period QOH	Current Period Unit Cost	Base Period Unit Cost	Current Period Ext Cost	Base Period Ext Cost
11869	ZS9778	5	4 XHVY 316L WE	12	34.00	42.04	414	511
11870	ZS9781	5	8 XHVY 316L WE	19	151.13	156.53	2,846	2,948
11871	ZS9872	7	2 X 5 X .125WA 6	42	0.01	3.44	0	145
11872	ZS9882	7	3 SCH10 6063-T	17	4.43	4.15	75	71
11873	ZS9892	7	3/4 SCH40 6061	16	1.38	1.11	22	18
11874	ZS9894	7	1 SCH40 6061-T	7	1.91	1.66	13	11
11875	ZS9898	7	1-1/2 SCH40 606	11	2.38	2.68	26	29
11876	ZS9900	7	2 SCH40 6061-T	25	4.05	3.63	99	89
11877	ZS9902	7	2-1/2 SCH40 606	7	6.40	5.82	42	38
11878	ZS9912	7	6 SCH40 6061-T	9	20.00	18.70	187	175
11879	ZS9925	7	3 SCH80 6061-T	5	20.90	10.11	94	45
11880	ZS9926	7	4 SCH80 6061-T	18	14.56	14.77	255	258
11881	ZS9951	4	1 1/2 NOM TYPE	14	4.51	6.23	62	86
11882	ZS9967	5	2-1/2 SCH5 TYPE	11	7.75	6.95	83	75
11883	ZS9971	5	3/4 SCH10 316/3	13	2.13	2.40	28	31
11884	ZS9973	5	2-1/2 XHVY 316	12	24.71	21.50	296	258
11885	ZS9974	5	1-1/2 X 1-1/2 X	18	5.92	4.63	106	83
11886								
11887								
Sheet Totals							\$ 53,873,396	\$ 51,909,565



Preparation & Inputs: Manual Index Calculation – Double-Extension

User exports Report 18 containing prior year cumulative indexes from software to item detail report Excel file

LIFO-PRO Software prior year Report 18

LP REPORT 18 (Year Histories)

LP Edit Save Report 18 as Excel File Help

Zoom 85%

Print Report Main Menu

C8 | 29669116

12-31-2019 | 12-31-2018 | 12-31-2017 | 12-31-2016 | 12-31-2015 | 12-31-2014 | 12-31-2013 | 12-31-2012 | 12-31-2011

ABC Corporation
ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18
12/31/2018
Data path:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\ONLIFO\LPDataFiles\DoubleExtension\

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2018 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	12/31/2018 LIFO RESERVE	12/31/2017 LIFO RESERVE	12/31/2018 LIFO EXPENSE
1	Mechanical Tubing	29,669,116	1.233787	1.082422	1.082400	27,423,789	2,245,327	-2,406,346	4,651,673
2	Boiler (pressure) Tubing	624,203	1.171420	1.176682	1.176682	530,477	93,726	3,688	90,038
3	Pipe	5,652,128	1.124108	1.005740	1.005740	5,379,713	272,415	-351,610	624,025
4	Valves & Fittings	3,172,199	1.106021	1.157988	1.157988	2,739,405	432,794	153,592	279,202
5	Stainless Pipe & Tubing	10,411,352	1.255651	.898746	.898700	10,597,277	-185,925	-2,185,079	1,999,154
6	Stainless Valve & Fittings	546,307	1.212152	1.080051	1.080100	500,758	45,549	-43,584	89,133
7	Aluminum Pipe & Tubing	1,002,199	1.113955	.843760	.843760	1,126,749	-124,550	-215,263	90,713
8	Aluminum Valve & Fittings	25,620	.924900	.879868	.879868	28,043	-2,423	-982	-1,441
9	Cold finished bar	3,076,310	1.235982	.962969	.962969	3,120,570	-44,260	-629,906	585,646
Totals		54,179,434	1.213836			51,446,781	2,732,653	-5,675,490	8,408,143

Report 18 exported as Excel file from software

E16 : 0.9629692

ABC Corporation
ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18
12/31/2018
Data path:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\ONLIFO\LPDataFiles\DoubleExtension\

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2018 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	12/31/2018 LIFO RESERVE	12/31/2017 LIFO RESERVE	12/31/2018 LIFO EXPENSE
1	Mechanical Tubing	29,669,116	1.233787	1.082422	1.082400	27,423,789	2,245,327	-2,406,346	4,651,673
2	Boiler (pressure) Tubing	624,203	1.171420	1.176682	1.176682	530,477	93,726	3,688	90,038
3	Pipe	5,652,128	1.124108	1.005740	1.005740	5,379,713	272,415	-351,610	624,025
4	Valves & Fittings	3,172,199	1.106021	1.157988	1.157988	2,739,405	432,794	153,592	279,202
5	Stainless Pipe & Tubing	10,411,352	1.255651	.898746	.898700	10,597,277	-185,925	-2,185,079	1,999,154
6	Stainless Valve & Fittings	546,307	1.212152	1.080051	1.080100	500,758	45,549	-43,584	89,133
7	Aluminum Pipe & Tubing	1,002,199	1.113955	.843760	.843760	1,126,749	-124,550	-215,263	90,713
8	Aluminum Valve & Fittings	25,620	.924900	.879868	.879868	28,043	-2,423	-982	-1,441
9	Cold finished bar	3,076,310	1.235982	.962969	.962969	3,120,570	-44,260	-629,906	585,646
Totals		54,179,434	1.213836			51,446,781	2,732,653	-5,675,490	8,408,143



Prior year Report 18 sheet moved to item detail report file



C8 : 29669116

ABC Corporation
ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18
12/31/2018
Data path:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\ONLIFO\LPDataFiles\DoubleExtension\

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2018 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	12/31/2018 LIFO RESERVE	12/31/2017 LIFO RESERVE	12/31/2018 LIFO EXPENSE
1	Mechanical Tubing	29,669,116	1.233787	1.082422	1.082400	27,423,789	2,245,327	-2,406,346	4,651,673
2	Boiler (pressure) Tubing	624,203	1.171420	1.176682	1.176682	530,477	93,726	3,688	90,038
3	Pipe	5,652,128	1.124108	1.005740	1.005740	5,379,713	272,415	-351,610	624,025
4	Valves & Fittings	3,172,199	1.106021	1.157988	1.157988	2,739,405	432,794	153,592	279,202
5	Stainless Pipe & Tubing	10,411,352	1.255651	.898746	.898700	10,597,277	-185,925	-2,185,079	1,999,154
6	Stainless Valve & Fittings	546,307	1.212152	1.080051	1.080100	500,758	45,549	-43,584	89,133
7	Aluminum Pipe & Tubing	1,002,199	1.113955	.843760	.843760	1,126,749	-124,550	-215,263	90,713
8	Aluminum Valve & Fittings	25,620	.924900	.879868	.879868	28,043	-2,423	-982	-1,441
9	Cold finished bar	3,076,310	1.235982	.962969	.962969	3,120,570	-44,260	-629,906	585,646
Totals		54,179,434	1.213836			51,446,781	2,732,653	-5,675,490	8,408,143

Item Detail 2019YE Raw Data | LPSW Rpt 18 12-31-2018



Preparation & Inputs: Manual Index Calculation – Double-Extension

- User enters prior year cumulative inflation index by LIFO pool from prior year end LIFOPro Report 18 file into summary table
- User creates summary table in item detail report sheet to calculate the following values:
 - Current year extended cost by LIFO pool: Current year QOH * Current year item cost
 - Base year extended cost by LIFO pool: Current year QOH * Base year item cost
 - Current year cumulative inflation index by LIFO pool: Current ÷ Prior year extended cost by LIFO pool
 - Current year deflator index by LIFO pool: Current ÷ Prior year cumulative index by LIFO pool

LIFO-PRO Software Input Values Summary Schedule

		A	B	C	D	E	F	G	H	
		Item #	LIFO Pool #	Product Description	Current Period QOH	Current Period Unit Cost	Period Period Unit Cost	Current Period Ext Cost	Base Period Ext Cost	
11885	ZS9974	5		1-1/2 X 1-1/2 X 7GA	18	5.92	4.63	106	83	
11886										
11887		LIFO-PRO Software Input Values Summary Table								
		Pool #	Current Period EXT Cost	Base Period EXT Cost	Current Period Cumulative Index	Rpt 18 Prior Period Cumulative Index	Current Period Inflation Index			
11888										
11889		1	28,871,836	26,404,821	1.093430	1.082422	1.010170			
11890		2	538,457	454,617	1.184419	1.176682	1.006575			
11891		3	6,160,901	6,035,349	1.020803	1.005740	1.014977			
11892		4	3,013,266	2,558,998	1.177518	1.157988	1.016865			
11893		5	10,412,941	11,545,228	0.901926	0.898746	1.003538			
11894		6	546,679	503,901	1.084893	1.080051	1.004483			
11895		7	1,288,541	1,251,954	1.029224	0.843760	1.219807			
11896		8	18,278	15,825	1.155065	0.879868	1.312770			
11897		9	3,022,496	3,138,872	0.962924	0.962969	0.999953			
11898		Totals	53,873,396	51,909,565						
11899										



Loading & Transferring Files

- All files & folders located on your PC's local/network drives are viewable & accessible from the LIFOPro software VM upon configuring your Remote Desktop Connection settings accordingly (see VM Settings)
- LIFOPro software VM & your PC's local/network drives are distinguishable by locating the drives with the word "on" & your computer's name after the drive name (for example, if your computer's name is "Dell-45", your local PC's C drive will appear as "C on Dell-45" within File Explorer on your LIFOPro software VM)

LIFOPro Software VM's File Explorer Screen

Legend:

- Green box: LIFOPro Software VM Drives/Folders
- Orange box: User's Local Computer Drives/Folders

Category	Item	Type
LIFOPro Software VM Drives/Folders (Green)	Local Disk (C:)	Local Disk
	ABC Mfg Co (\\192.168.99.69\Shared\External) (T:)	Network Drive
User's Local Computer Drives/Folders (Orange)	C on DELL-45	System Folder
	D on DELL-45	System Folder
	Y on DELL-45	System Folder



Loading & Transferring Files

- All files located on your LIFOPro software VM drive can be transferred to your PC's local/network drives
- To do so, double-click on your LIFOPro Files desktop shortcut in the LIFOPro software VM & navigate to the folder and/or files that you'd like to transfer to your PC's local/network drives
- In the LIFOPro software VM, open a second File Explorer screen & navigate to your PC's local/network drive folder
- Drag & drop the files/folders from the LIFOPro software VM File Explorer screen to your PC's local/network drive File Explorer screen

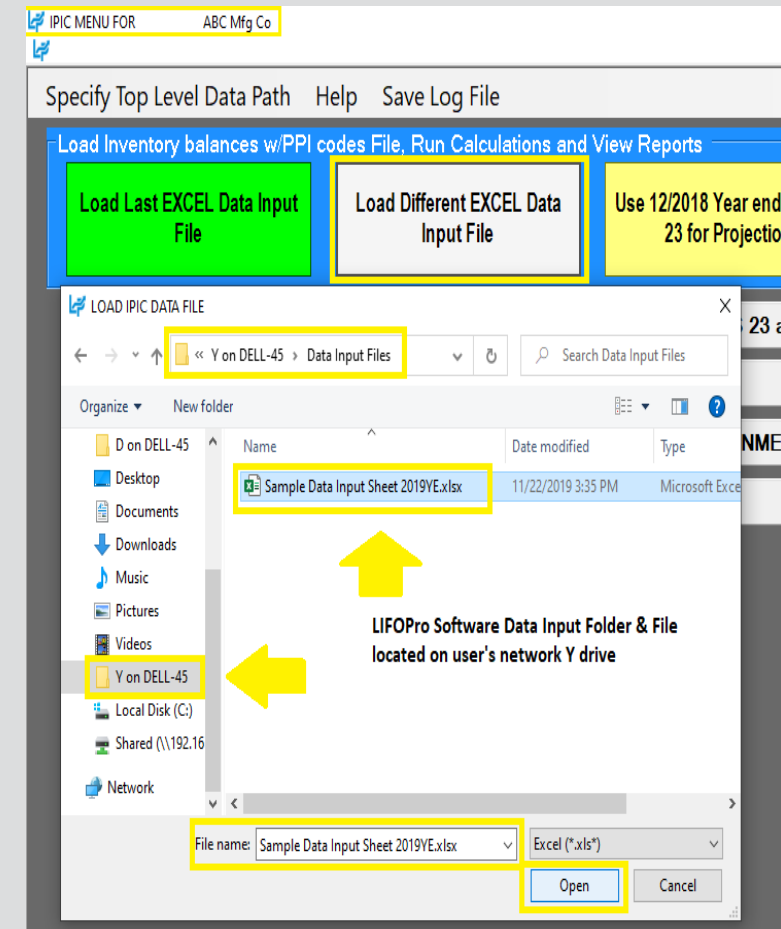
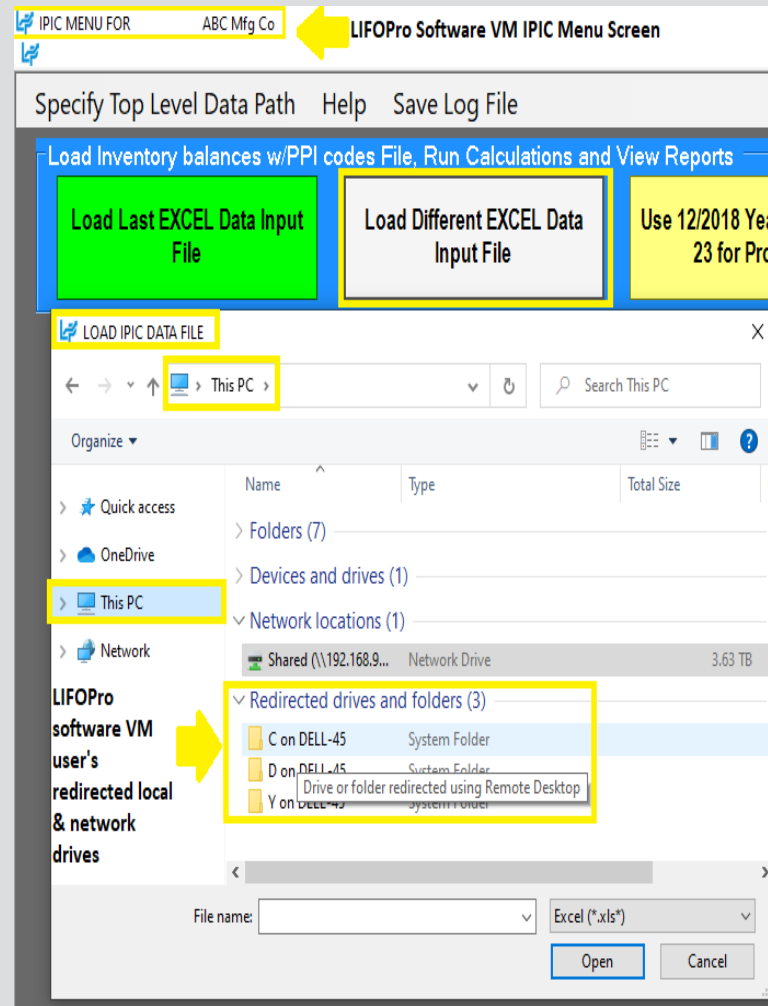
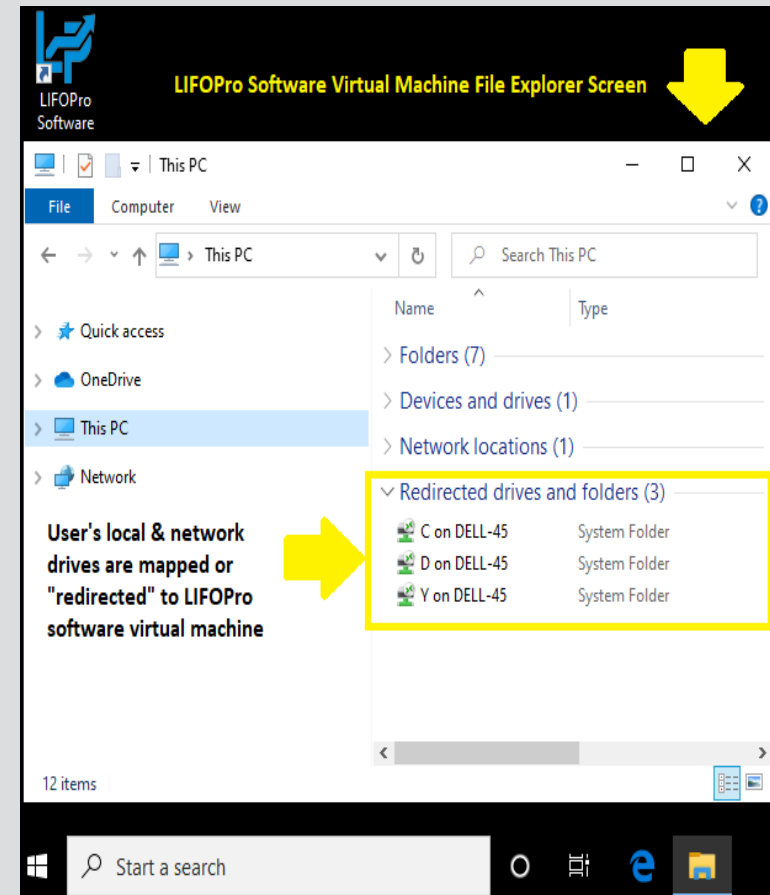
The image shows two side-by-side screenshots of Windows File Explorer windows, illustrating the process of transferring files from a LIFOPro software VM to a PC's local/network drives.

Left Screenshot (Step 1): The File Explorer window is titled "ABC Mfg Co (\\192.168.99.69\Shared\External) (T:)". The address bar shows "This PC > ABC Mfg Co (\\192.168.99.69\Shared\External) (T:)". The left sidebar shows "LIFOPro Files" highlighted with a yellow box and a yellow arrow pointing to it. The main pane shows a list of folders: "LIFOPro Software Resources", "LIFOProReports", "LIFOProSoftwareDataFiles", and "LIFOProSoftwareInputFiles". A green box highlights the "LIFOPro Software Resources" folder. A green arrow points from this folder to the right screenshot. Below the list, a green box contains the text: "1. Double-click on your LIFOPro Files desktop shortcut to open your LIFOPro software VM drive in File Explorer & select the desired folder or file that you'd like to transfer to your PC's local/network drive". A green box labeled "LIFOPro software VM drive" is positioned below the text.

Right Screenshot (Step 2): The File Explorer window is titled "LIFOPRO". The address bar shows "This PC > C on DELL-45 > LIFOPRO". A green arrow from the left screenshot points to the "LIFOPRO" folder in the main pane. An orange box highlights the "C on DELL-45" drive in the left sidebar. Below the list, an orange box contains the text: "2. Drag & drop the file/folder from your LIFOPro software VM drive to your PC's local/network drive". An orange box labeled "User PC's local/network drives" is positioned below the text. The main pane shows a list of files and folders, including "BLS", "Input Files", "LIFOPro Reports", "LIFO HELP6-500.chm", "LIFOPRO.exe", "lifopro.ini", "LIFOPROHELP.chm", "lp32bit.exe", "LPCoverLogo.png", "LPSLogFile.txt", "LPSLogFile-DELL-45-201909042239.txt", "LPSLogFile-DELL-45-201909051358.txt", "LPSLogFile-DELL-45-201909060923.txt", "LPSLogFile-DELL-45-201909060942.txt", "LPSLogFile-DELL-45-201909061030.txt", and "LPSLogFile-DELL-45-201909061036.txt". A yellow folder icon is shown being dragged over the "LIFOPro Reports" folder.

Loading & Transferring Files

- Files located on your PC or company's network drive can be loaded into the LIFOPro software on your VM using the same steps to load them when using an on-premise version of the software (must have Drives enabled within Remote Desktop Connection settings -> Local Resources Tab -> Local Devices and Resources -> More -> "Drives" checkbox)
- Use load file dialogue box to navigate to the appropriate local/network folder containing Excel data file



Auto Index Calculation: Internal Index Module

- From the Main Menu, user enters the Internal Index Module by selecting the teal-colored button on the upper-right side of Main Menu screen
- Last internal index settings saved by user automatically loaded on the left side of screen
- Specifications text boxes used to enter data input field locations (software reads this data from multi sheet specs file if >1 sheet)

Last Period Closed=12/31/2019

CALCULATIONS

←

Internal Index Module

IPIC Module (PPI or CPI)

Enter Values For 12/31/2020 (Screen 3)

Projection Report 1-Range of Inv. Levels and Indexes, one pool

➔

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Diff Report 27 File

Zoom % 100 A1

	A	B	C	D
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
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28				
29				
30				
31				
32				
33				

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS

Set new item PY item cost equal to CY item cost

Reconstruct new item prior year costs using current year indexes of similar preexisting items (similar items grouped & current year indexes calculated by class)

Exclude new items from inflation calculation

Import PY item cost from PY Report 27a File

Include items with missing CY item cost

Include items with missing PY item cost

Run calc. for this y/e: **12/31/2020**

Load Current Year Data Input File

Start Calculation

Save Reports and Close 12/31/2020 Year end

Save Reports w/o Closing Year End

Save Settings

View Previously Calculated Reports

Print Sheet

Return to Main Menu

OUTLIER ITEM TREATMENT SETTINGS

Include or exclude outliers from calculation **Include**

Inflation outlier % **30** CY vs. PY ext. cost change dollar threshold

Deflation outlier % **30**

CURRENT YEAR DATA INPUT FILE SPECS

	CY	PY
Pool number	B	
Item number	D	
Item description	G	
Quantity on hand	H	
Item/unit cost	I	J
Class number	E	
Class description	F	
Manual exclusion		
Unit of measure		

ROW & OTHER SPECS

First item row **2**

Last item row **95688**

Show items with 0 QOH on Rpt 27a **No**

Manual exclusion word

Auto Index Calculation: Internal Index Module – New Item Settings

- Software considers a new item to be any item with a missing prior/base year item/unit cost
- User can select for the software to apply any of the following settings to new items:
 - **Set prior/base year item/unit cost equal to current year item/unit cost:** New items are effectively given a current year index of 1.0 or 0% by setting the CY item/unit cost equal to PY/BY item/unit cost
 - **Reconstruct prior/base year item/unit cost:** Software creates a unique list of user-defined classes identified in data input sheet(s), calculates each classes CY index based on the sum of the CY & PY extensions of all items within each class & sets the CY index for new items equal to the CY index of its matching class
 - **Exclude new items from current year index calculation:** Only items with both current & prior/base year item/unit costs will be used to calculate the CY index. Also known as setting new item PY/BY item/unit cost equal to the index of the non-new or preexisting items.
 - **Import PY item cost from PY Report 27a file:** Software loads data input file & uses item number or description to lookup CY item/unit cost from software's prior year Internal Index Calculation Detail Report & set that cost equal to the PY item/unit cost for all new items.

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Dif

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS

Set PY item cost equal to CY item cost for new items

Reconstruct new item prior year costs using current year indexes of similar preexisting items (similar items grouped & current year indexes calculated by class)

Exclude new items from current year index calculation

Import PY item cost from PY Report 27a File

Run calc. for this y/e: 12/31/2020

Load Current Year Data Input File

New item cost settings

Auto Index Calculation: Internal Index Module – New Item Cost Reconstruction

- Software loads data input sheet & creates Internal Index Calculation Detail Reports (Report 27a/27b)
- Software locates item class for all preexisting items contained in Report 27a & creates Current Year Index by Class Report (Report 30) containing a unique list of classes by pool
- Software calculates CY & PY/BY extended cost by class for preexisting items in Report 30
- Software automatically assigns CY index of its matching class to new items
- New item PY/BY item/unit cost calculated by dividing new item CY item/unit cost by CY index of its matching class
- User can choose to apply the following settings to new items with no class assignment or those with class assignments that don't match to a preexisting item class:
 - Set CY item/unit cost = to PY/BY item/unit cost
 - Exclude from index calculation

Preexisting Item CY Index by Class Report created by LIFOPro software

Sample Company Internal Indexes					9/17/2020 2:21:23 PM	
CURRENT YEAR INDEX BY INVENTORY CLASS SUMMARY REPORT 30						
FOR THE PERIOD ENDED: 12/31/2020						
Calculation scenario name: Q4 2020 Final Calculation						
Data path:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\LINKCHAIN\						
CLASS NUMBER	CLASS DESCRIPTION	QOH	CY EXT COST	PY EXT COST	CY INFLATION INDEX	% OF CY EXT COST TOTAL BALANCE
Pool: 1 Location A						
110	7*SIP	1,035	954,940	967,155	.987371	1.2%
301	6*Gap App/Man Plasma	1,927	1,400,792	1,456,706	.961616	1.7%
399	5*Std Equipment	3,206	8,184,420	7,539,284	1.085570	10.2%
508	1*Cutting Automation	1,907	1,162,464	1,165,690	.997232	1.5%
521	2*OEM Business Cutting	545	403,599	391,378	1.031226	.5%
561	3*Aftermarket Cutting	3,777	4,145,399	4,117,438	1.006791	5.2%

Rpt. 27b CY index for new items set =
to Rpt. 30 CY index of matching class



Sample Company Internal Indexes				
INTERNAL INDEX CALCULATION DETAIL REPORT 27b				
FOR THE PERIOD ENDED: 12/31/2020			Calculation scenario name: Q4 202	
Showing extensions used for Report 27 pool index calculations after applying user				
POOL NO.	ITEM NO.	ITEM DESCRIPTION	PRODUCT CLASS NUMBER	PRODUCT CLASS DESCRIPTION
1	00004005	IM/AHP2 HAND PENDANT - E	399	5*Std Equipment
1	00020671	HOLDER SENSOR SUPRAREX	561	3*Aftermarket Cutting
1	00020727	CYCLE 8 HARDWARE KIT	508	1*Cutting Automation
1	00020728	A5 200 Quattrojet P/NG	500	1*Cutting Automation
1	00021153	GEARED MOTOR	508	1*Cutting Automation
1	00021153	GEARED MTR KARBEN BEVEL	561	3*Aftermarket Cutting
1	00021153	GEARHEAD MTR DF02 I=31.8	561	3*Aftermarket Cutting



Auto Index Calculation: Internal Index Module – Prior Year Item Cost Lookup

- Software loads data input sheet & creates CY Internal Index Calculation Detail Reports (Report 27a/27b)
- Software loads prior year Report 27b file containing item cost data, identifies items from PY file that match to CY Report 27b sheet items & sets PY Report 27b's CY item/unit cost equal to CY Report 27b's PY item/unit cost
- User can choose to apply the following settings to new items whose PY/BY unit cost could not be matched:
 - Set CY item/unit cost = to PY/BY item/unit cost
 - Exclude from index calculation

Software PY Report 27b sheet used to lookup PY/BY Cost & match them to items in CY Report 27b sheet

Sample Company Internal Indexes							9/17/2020 2:21:14 PM	
INTERNAL INDEX CALCULATION DETAIL REPORT 27b								
FOR THE PERIOD ENDED: 12/31/2020				Calculation scenario name: Q4 2020 Final Calculation				
Showing extensions used for Report 27 pool index calculations after applying user-defined item cost & outlier settings								
POOL NO.	ITEM NO.	ITEM DESCRIPTION	PRODUCT CLASS NUMBER	PRODUCT CLASS DESCRIPTION	QTY ON HAND	CY ITEM COST	PY ITEM COST	
1	000040050	IM/AHP2 HAND PENDANT - E	399	5*Std Equipment	8	1	11.14	
1	000206716	HOLDER SENSOR SUPRAREX	561	3*Aftermarket Cutting	2	49.11	49.11	
1	000207276	CYCLE 8 HARDWARE KIT	508	1*Cutting Automation	1	7.7	7.7	
1	000207288	A5 200 Quattrojet P/NG	500	1*Cutting Automation	1	5,412.98	5,412.98	
1	000211535	GEARED MOTOR	508	1*Cutting Automation	1	615.99	602.11	
1	000211535	GEARED MTR KARBEN BEVEL	561	3*Aftermarket Cutting	3	710.27	687.95	
1	000211535	GEARHEAD MTR DF02 l=31.8	561	3*Aftermarket Cutting	4	1,015.81	992.92	
1	000215748	CVR Y CAR COMBIREX	508	1*Cutting Automation	1	42.98	42.98	
1	000218000	CABLE CHAIN KIT 6M SINGLE	508	1*Cutting Automation	1	910.77	910.77	
1	000220708	MOD CENT GAS MANI ACON	508	1*Cutting Automation	1	3,608.48	3,608.48	
1	000223468	AIR HOSE 5M QUICK COUPLIN	508	1*Cutting Automation	2	74.14	74.14	



Auto Index Calculation: Single Data Input Sheet

- User selects Load Current Year Data Input File button & selects file to load from Load File dialogue box
- Current year data input sheet displayed on right side of screen

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Diff

INTERNAL INDEX SETTINGS
 Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS
 Run calc. for this y/e: 12/31/2020
 Set new item PY item cost equal to CY item cost
 Reconstruct new item prior year costs using current year indexes of similar prior year indexes
 Exclude new items from prior year calculations

1. User selects Load Current Year Data Input File button

LOAD INTERNAL INDEX DATA INPUT FILE

Y:\LIFOPRO1

Organize New folder

Quick access
 OneDrive
 This PC
 Network

Location B Item Detail Data Input2019YE.xlsx
 Single File Multi Sheet Item Detail Data Input 2019YE.xlsx
Internal Index Data Input Sheet Single File Sheet.xlsx
 Location A Item Detail Data Input2019YE.xlsx
 Location C Item Detail Data Input2019YE.xlsx
 Location D Item Detail Data Input2019YE.xlsx
 AICPA
 RNO

File name: Internal Index Data Input Sheet Single File Sheet.xlsx Excel (*.xlsx)

3. User selects Open button to load Data Input File

Zoom % 85 C2 Finish Good

1	LC	Pool #	Material Type	Item #	Class Code	Class Desc	Item Description	QOH	CY Unit Cost	PY Unit Cost
2	A	1	Finish Goo	00000019	431	New JDE	35TF-40-12	11	7.93	7.93
3	A	1	Finish Goo	000013993	610	8*Std Automation	WELDING MEASURE KL-2	2	72.46	72.46
4	A	1	Finish Goo	000023732	610	8*Std Automation	CONTACT JAW 3.0-3.2 MM A6	4	29.81	29.81
5	A	1	Finish Goo	000023732	610	8*Std Automation	CONTACT JAW 4.0 MM A6	6	29.81	30.78
6	A	1	Finish Goo	000023732	610	8*Std Automation	NOZZLE WITH CAP 4.0 MM	10	13.67	13.67
7	A	1	Finish Goo	000023733	610	8*Std Automation	NOZZLE GAS 12.7MM (10/PK)	8	3.92	3.92
8	A	1	Finish Goo	000023733	610	8*Std Automation	NOZZLE WITH CAP 32 MM	4	16.47	16.47
9	A	1	Raw Mater	000040050	399	5*Std Equipment	IM/AHP2 HAND PENDANT - ENGL	8	1.00	11.14
10	A	1	Finish Goo	000059326	340	5*Std Equipment	PROBAN HOOD	52	7.64	7.64
11	A	1	Finish Goo	000059372	320	5*Std Equipment	INOX FILLET GAUGE	4	71.38	71.38
12	A	1	Finish Goo	000059531	340	5*Std Equipment	INSPECTION MIRROR MAGNETIC	1		
13	A	1	Finish Goo	000090437	340	5*Std Equipment	INSULATED HELMET LINER	10	6.53	6.53
14	A	1	Raw Mater	000200467	508	1*Cutting Automation	LIFT EYE BOLT SET COMBIREX DX	12	24.75	24.75
15	A	1	Finish Goo	000205151	561	3*Aftermarket Cutting	TORCH HOLDER PLASMA XP BVL	1	920.03	920.03
16	A	1	Raw Mater	000206031	508	1*Cutting Automation	ASSY B4-200 LIFT ACON	1	1,683.68	1,683.68
17	A	1	Finish Goo	000206036	750	New JDE	Modification set for B4-200 MR90	1		
18	A	1	Finish Goo	000206037	752	New JDE	LIFT ASSY, B4.1-200 ACON	1		
19	A	1	Finish Goo	000206037	752	New JDE	ASSY B4.1-200 ACON+ATHC	1	3,500.29	3,500.29
20	A	1	Raw Mater	000206716	561	3*Aftermarket Cutting	HOLDER SENSOR SUPRAREX	2	49.11	49.11
21	A	1	Raw Mater	000206745	561	3*Aftermarket Cutting	ASSY LASER POINTER 24V DC	2	412.83	412.83
22	A	1	Finish Goo	000206746	750	New JDE	Height Control Compact w. Slider	1		
23	A	1	Finish Goo	000206747	500	1*Cutting Automation	SMARTJET CONTROLLER ASSY	1	997.10	940.66
24	A	1	Finish Goo	000206747	500	1*Cutting Automation	SMARTJET CONTROLLER ASSY	1	997.10	940.66
25	A	1	Finish Goo	000207240	750	New JDE	Rotating support MR90	1		
26	A	1	Semifinish	000207276	508	1*Cutting Automation	BRKT CYC 8 HEIGHT SETTING	8	820.81	719.76
27	A	1	Raw Mater	000207276	508	1*Cutting Automation	CYCLE 8 HARDWARE KIT	1	7.70	7.70
28	A	1	Semifinish	000207285	561	3*Aftermarket Cutting	Rotary Bevel Head, C-Arm Assy	1	13,708.26	13,708.26
29	A	1	Finish Goo	000207287	521	2*OEM Business Cutting	Swivel Unit	1		
30	A	1	Raw Mater	000207287	561	3*Aftermarket Cutting	C ARM ASSY	2	6,430.72	6,430.72
31	A	1	Raw Mater	000207288	500	1*Cutting Automation	A5 200 Quattrojet P/NG	1	5,412.98	5,412.98
32	A	1	Finish Goo	000207292	750	New JDE	Torch Kit E1 Global 3-200 (propane)	1		
33	A	1	Finish Goo	000207300	500	1*Cutting Automation	SUPP W/COL PROTECTION PT-37	2		
34	A	1	Finish Goo	000207305	750	New JDE	Torch Kit SmartJet IPQ 3-300 (Prop)	1	3,080.67	2,826.30
35	A	1	Raw Mater	000208011	508	1*Cutting Automation	HLDR TORCH D=32	1	198.28	198.28
36	A	1	Finish Goo	000211032	561	3*Aftermarket Cutting	ENCODER MOD B2 LIFT	2	391.12	391.12
37	A	1	Raw Mater	000211535	508	1*Cutting Automation	GEARED MOTOR	1	615.99	602.11
38	A	1	Raw Mater	000211535	561	3*Aftermarket Cutting	GEARED MTR KARBEN BEVEL (REF	3	710.27	687.95
39	A	1	Raw Mater	000211539	561	3*Aftermarket Cutting	GEARHEAD MTR DF02 I=31.8 D=3	4	1,015.81	992.92
40	A	1	Semifinish	000211540	752	New JDE	SXE Additional Y-Drive Assembly	1		
41	A	1	Finish Goo	000211543	750	New JDE	Geared Motor	2	3,834.13	3,834.13
42	A	1	Finish Goo	000211543	750	New JDE	Geared Motor	1	3,834.13	3,834.13
43	A	1	Raw Mater	000215312	508	1*Cutting Automation	END PULLEY SET (2PCS=SET)	1	697.77	697.77
44	A	1	Raw Mater	000215382	508	1*Cutting Automation	FASTENING UNIT STEEL BAND	2	60.51	60.51
45	A	1	Raw Mater	000215748	508	1*Cutting Automation	CVR Y CAR COMBIREX	1	42.98	42.98
46	A	1	Raw Mater	000215748	508	1*Cutting Automation	CVR Y CAR COMBIREX	12	42.98	42.98
47	A	1	Raw Mater	000216915	561	3*Aftermarket Cutting	CLAMPING UNITIAGE	9	54.06	54.06
48	A	1	Raw Mater	000218000	508	1*Cutting Automation	CABLE CHAIN KIT 6M SINGLE	1	910.77	910.77
49	A	1	Raw Mater	000220472	561	3*Aftermarket Cutting	AIR SUPPLY KIT	7	257.38	257.38
50	A	1	Finish Goo	000220491	561	3*Aftermarket Cutting	AIR SUPPLY CYCLE 8	1		
51	A	1	Finish Goo	000220491	561	3*Aftermarket Cutting	AIR SUPPLY CYCLE 8	1		
52	A	1	Finish Goo	000220496	561	3*Aftermarket Cutting	COOLJET PRO 320/35 PM TORCH	39	402.90	402.90
53	A	1	Finish Goo	000220498	561	3*Aftermarket Cutting	Proportional valve retrofit kit	1	1,493.02	1,493.02
54	A	1	Raw Mater	000220708	508	1*Cutting Automation	MOD.CENT.GAS.MANIFACON.W/C	1	3,608.48	3,608.48

Auto Index Calculation: Single Data Input Sheet

- User selects inflation comparison method, item cost & outlier treatment settings on top half of the screen
- Item cost treatment settings can be selected to match new item treatment (i.e. set CY = to PY cost, set CY index = to index of similar preexisting items, exclude or include all items)
- User enters the following required data input column locations on the bottom half of the screen:
 - Pool number (if more than 1 LIFO pool)
 - Item number and/or description
 - Quantity on hand
 - Current year item cost (& PY item cost if auto PY item cost import feature will not be used)
- First & last item rows should be entered if:
 - First item is not on row
 - Non-item cost data present below last item row
- Class # & description text boxes used to create inflation by class analysis report & to reconstruct prior/base year item cost
- Optional unused specs text boxes left blank
- All settings & specs will appear next time entering internal index module by selecting save settings button

INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Dif

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS

Set new item PY item cost equal to CY item cost

Reconstruct new item prior year costs using current year indexes of similar preexisting items (similar items grouped & current year indexes calculated by class)

Exclude new items from inflation calculation

Import PY item cost from PY Report 27a File

Include items with missing CY item cost

Include items with missing PY item cost

OUTLIER ITEM TREATMENT SETTINGS

Include or exclude outliers from calculation Include ▾

Inflation outlier % CY vs. PY ext. cost change dollar threshold

Deflation outlier %

CURRENT YEAR DATA INPUT FILE SPECS

COLUMN SPECS	CY	PY	ROW & OTHER SPECS
Pool number	<input type="text" value="B"/>		First item row <input type="text" value="2"/>
Item number	<input type="text" value="D"/>		Last item row <input type="text" value="95688"/>
Item description	<input type="text" value="G"/>		Show items with 0 QOH on Rpt 27a No ▾
Quantity on hand	<input type="text" value="H"/>		Manual exclusion word <input type="text"/>
Item/unit cost	<input type="text" value="I"/>	<input type="text" value="J"/>	
Class number	<input type="text" value="E"/>		
Class description	<input type="text" value="F"/>		
Manual exclusion	<input type="text"/>		
Unit of measure	<input type="text"/>	<input type="text"/>	

Run calc. for this y/e: 12/31/2020 ▾

Auto Index Calculation: Single Data Input Sheet

- User selects Start Calculation button to run current year LIFO calculation & generate internal index reports
- Progress bar on bottom right shows calculation status prior to reports appearing on the screen
- Internal Index Summary Report appears on right side of screen once calculation has completed

Link-Chain Double-extension

Run calc. for this y/e: 12/31/2020

SETTINGS

Y item cost for new items

year costs using current year

ing items (similar items grouped &

aled by class)

1. User selects Start Calculation button after loading data input file →

Start Calculation

Save Reports and Close 12/31/2020 Year end

Save Reports w/o Closing Year End

Save Settings

View Previously Calculated Reports

Print Sheet

Return to Main Menu

2. Progress bar provides status as process progresses from data read to calculation & report generation

Reading data input file...

	A	B	C	D	E	F	G	H	I	J
	LOC	Pool #	SOP	Item #	Class Code	Class Desc	Item Desc	QOH	CY Unit Cost	PY Unit Cost
2	A	1	Raw Material	000040050	399	5*Std Equipment	IM/AHP2 HAND PENDANT - ENGLISH	8	1.00	11.14
3	A	1	Raw Material	000206716	561	3*Aftermarket Cutting	HOLDER SENSOR SUPRAREX	2	49.11	49.11
4	A	1	Raw Material	000207276	508	1*Cutting Automation	CYCLE 8 HARDWARE KIT	1	7.70	7.70
5	A	1	Raw Material	000207288	508	1*Cutting Automation	A5 200 Quattrojet P/NG	1	5,412.98	5,412.98
6	A	1	Raw Material	000211535	508	1*Cutting Automation	GEARED MOTOR	1	615.99	602.11
7	A	1	Raw Material	000211535	561	3*Aftermarket Cutting	GEARED MTR KARBEN BEVEL (REPL)	3	710.27	687.95
8	A	1	Raw Material	000211539	561	3*Aftermarket Cutting	GEARHEAD MTR DF02 I=31.8 D=35	4	1,015.81	992.92
9	A	1	Raw Material	000215748	508	1*Cutting Automation	CVR Y CAR COMBIREX	1	42.98	42.98
10	A	1	Raw Material	000218000	508	1*Cutting Automation	CABLE CHAIN KIT 6M SINGLE	1	910.77	910.77
11	A	1	Raw Material	000220708	508	1*Cutting Automation	MOD CENT GAS MANI ACON W/O PG	1	3,608.48	3,608.48
12	A	1	Raw Material	000223468	508	1*Cutting Automation	AIR HOSE 5M QUICK COUPLING	2	74.14	74.14
13	A	1	Raw Material	000225497	508	1*Cutting Automation	KIT AC MC	1	676.26	676.26
14	A	1	Raw Material	000226431	508	1*Cutting Automation	CABLE SET PANEL T5 RELAYBOX	1	229.11	224.16
15	A	1	Raw Material	000226434	561	3*Aftermarket Cutting	CABLE EXT M12 M/F/ SHIELDED	30	29.03	28.12
16	A	1	Raw Material	000226435	508	1*Cutting Automation	CABLE HF GENATOR 0.7M	2	64.98	63.52
17	A	1	Raw Material	000226437	508	1*Cutting Automation	Supply Cable Aircon.OC 15m	2	83.90	83.90
18	A	1	Raw Material	000226457	561	3*Aftermarket Cutting	CBL ENC SUPRAREX 5M	4	112.42	70.20
19	A	1	Raw Material	000226457	561	3*Aftermarket Cutting	CBL ENC SUPRAREX 7M	8	102.62	69.83
20	A	1	Raw Material	000226457	561	3*Aftermarket Cutting	CBL DRIVE SUPRAREX 5M	3		
21	A	1	Raw Material	000226457	561	3*Aftermarket Cutting	CBL DRIVE SUPRAREX 7M	17	96.80	50.12
22	A	1	Raw Material	000226464	508	1*Cutting Automation	CBL ENC 15M SGMPH-04 Y AXIS	1		
23	A	1	Raw Material	000226464	561	3*Aftermarket Cutting	CBL MTR 15M SGMPH-04 Y-AXIS	1		
24	A	1	Raw Material	000226469	508	1*Cutting Automation	CBL 3.5M SIDE CARRIAGE	9	44.62	44.62
25	A	1	Raw Material	000226469	508	1*Cutting Automation	CBL 7.5M SIDE CARRIAGE	9	44.90	44.90
26	A	1	Raw Material	000226469	508	1*Cutting Automation	CBL 10M M12 5P F	15	22.09	22.09
27	A	1	Raw Material	000226471	508	1*Cutting Automation	CN8 SAFETY CABLE	1	45.28	54.19
28	A	1	Raw Material	000226472	508	1*Cutting Automation	VALVE CABLE TYP A 3M	1	10.95	10.95
29	A	1	Raw Material	000226472	508	1*Cutting Automation	CBL 3.5M PWR ACON HUB	2	36.29	35.14
30	A	1	Raw Material	000226472	508	1*Cutting Automation	CBL 5M M12 5P FE	1	19.46	19.02
31	A	1	Raw Material	000226472	508	1*Cutting Automation	CBL 7.5M M12 5P FE	34	20.38	20.38
32	A	1	Raw Material	000226472	508	1*Cutting Automation	CBL 3M M12 5P FE	25	16.26	16.26
33	A	1	Raw Material	000226473	508	1*Cutting Automation	GROUND CABLE PANEL 5M	1	22.26	22.26
34	A	1	Raw Material	000226473	561	3*Aftermarket Cutting	CBL PWR 3M	3	24.50	35.94
35	A	1	Raw Material	000226473	508	1*Cutting Automation	CBL AY 7M PWR 230V	9	36.84	35.68
36	A	1	Raw Material	000226474	561	3*Aftermarket Cutting	POWER CBL 8M	1	48.22	46.71
37	A	1	Raw Material	000226474	561	3*Aftermarket Cutting	POWER CABLE 10M	2	35.34	34.55
38	A	1	Raw Material	000226474	561	3*Aftermarket Cutting	POWER CBL 15M	1	54.43	53.26
39	A	1	Raw Material	000226475	508	1*Cutting Automation	GROUND CABLE 1M 16MMY	13	9.36	9.36
40	A	1	Raw Material	000226475	508	1*Cutting Automation	GROUND CABLE 2M 16MMYRAREX	24	11.63	11.63
41	A	1	Raw Material	000226475	508	1*Cutting Automation	GROUND CABLE 4M 16MMYRAREX	35	18.93	18.93
42	A	1	Raw Material	000226477	508	1*Cutting Automation	"SENSOR CABLE M8 TOOLTIP 30""	2	62.62	62.62
43	A	1	Raw Material	000226478	561	3*Aftermarket Cutting	CBL PWR AIR COND OC 7M	2	196.06	196.06



Auto Index Calculation: Single Data Input Sheet

- Internal index calculation summary report appears on right side of screen after calculation has completed (Rpt. 27)
- Report 27a - 30 sheets contain calculation detail, exceptions/outliers & analysis reports incl. inflation by class
- Total Current Year Cost field used to enter general ledger inventory balances at cost by pool (if applicable)
- User selects Save Reports and Close Year End button to update LIFO history DB file & advance year end

Run calculation

12/31/2021

1. Report file & sheets displayed on right side of internal index module screen after current year index calculation completes.

Save Reports and Close 12/31/2021 Year end

Save Reports w/o Close Year End

Save Settings

2. User selects Save Reports and Close Year End button to save software LIFO history database file to include internal index calculation results just completed & update all back-end LIFOPro software reports through the last period closed.

Zoom % 100 E6 80120968.6741535

POOL NO.	POOL NAME	CURRENT YEAR EXTENDED COST	PRIOR YEAR EXTENDED COST	TOTAL CURRENT YEAR COST	CURRENT YEAR INFLATION INDEX	PRIOR YEAR CUMULATIVE INDEX	CURRENT YEAR CUMULATIVE INDEX	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE (INCOME)
1	Location A	80,120,969	77,217,147	80,120,969	1.037606	1.055283	1.094968	75,200,374	4,920,595	2,437,302
2	Location B	18,600,745	17,812,212	18,600,745	1.044269	1.066063	1.113257	17,238,272	1,362,473	567,738
3	Location C	9,164,381	7,882,376	9,164,381	1.162642	.954493	1.109734	8,536,388	627,993	888,421
4	Location D	6,393,751	5,952,903	6,393,751	1.074056	1.228454	1.319428	5,289,219	1,104,532	401,525
		114,279,846	108,864,639	114,279,846	1.049743			106,264,253	8,015,593	4,294,986

Current year index calculation summary amounts by LIFO pool (front-end). Calculation detail shown in Reports 27a/27b. Total current year cost (Column E) will equal Column C Current Year Extended Cost Totals when initially displayed, but can be updated within this screen if general ledger balances at cost by pool need to be entered.

Back end LIFO values calculated using front-end outputs displayed on left side of screen & software LIFO history DB file containing all prior period data.

Calculation detail reports found in Reports 27a/27b. Item cost exceptions & outliers reports found in Reports 28 - 29. Data input statistics & Inflation by user-defined class found in Reports 29a - 30.

Report27 / Report27a / Report27b / Report28a / Report28b / Report28c / Report29 / Report29a / Report30

9/17/2020 2:21:16 PM

Calculation scenario name: Q4 2020 Final Calculation

Auto Index Calculation: Single Data Input Sheet

- User returned to the Main Menu screen after selecting the Close & Save button in Internal Index Module screen
- Last period closed shown on top right of screen updated to match date of LIFO calculation just completed
- All back-end reports now include results of last period closed

 Last Period Closed=12/31/2020

Last period closed shown on top right of Main Menu screen advanced to same period of calculation just completed in Internal Index Module


MAIN MENU

Specify Top Level Data Path Print Standard Reports Auto

Sample Company Internal Indexes

Data Path = Y:\LIFOPRO1\Sample Internal Index Calculation\

Historical data reports listed on left side of Main Menu screen now updated to include the results of the last calculation made in Internal Index Module

 Select different

HISTORICAL DATA REPORTS(12/31/2011 to 12/31/2020)

Current Year Index Calculation Summary Report (Front End)

Sample Company Internal Indexes 9/17/2020 2:21:16 PM

INTERNAL INDEX CALCULATION SUMMARY REPORT 27

FOR THE PERIOD ENDED: 12/31/20 Calculation scenario name: Q4 2020 Final Calculation

2020 Final Calculationv2.xlsx

POOL NO.	POOL NAME	CURRENT YEAR EXTENDED COST	PRIOR YEAR EXTENDED COST	TOTAL CURRENT YEAR COST	CURRENT YEAR INFLATION INDEX	PRIOR YEAR CUMULATIVE INDEX	CURRENT YEAR CUMULATIVE INDEX	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE (INCOME)
1	Location A	80,120,969	77,217,147	80,120,969	1.037606	1.055283	1.094968	75,200,374	4,920,595	2,437,302
2	Location B	18,600,745	17,812,212	18,600,745	1.044269	1.066063	1.113257	17,238,272	1,362,473	567,738
3	Location C	9,164,381	7,882,376	9,164,381	1.162642	.954493	1.109734	8,536,388	627,993	888,421
4	Location D	6,393,751	5,952,903	6,393,751	1.074056	1.228454	1.319428	5,289,219	1,104,532	401,525
		114,279,846	108,864,639	114,279,846	1.049743			106,264,253	8,015,593	4,294,986

LIFO Inventory History Schedule Report (Back End)

REPORT 16(Pool Histories)

Edit Save Report 16 as Excel File Historical Data Edit Calculate Save New Data Alt. Display Help Save Log File

Zoom % 95 M1 Print Selected Sheet Print all Pools Main Menu

Sample Company Internal Indexes 9/18/2020 7:12:27 PM

LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2020 REPORT 16

All Pools Combined Data path: Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

PERIOD	CURRENT YEAR COST	CUR. YR. DEFLATOR INDEX	CUMLTV. DEFLATOR INDEX	AT BASE PRICES	AT BASE PRICES	INFLATOR INDEX	PRICED INC(DEC)	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST
12/31/2011	48,436,465		1.000000	48,436,465	48,436,465	1.000000	48,436,465	48,436,465	0	0	24,770,296	24,770,296
12/31/2012	35,893,449	.991527		36,200,163	-12,236,302	.999958	-12,235,783	36,200,682	-307,233	-307,233	0	0
12/31/2013	42,791,339	1.016742		42,407,715	6,207,552	.999916	6,207,033	42,407,715	383,624	690,857	5,722,864	5,722,864
12/31/2014	35,283,052	1.012350		34,301,296	-8,106,420	1.000375	-8,109,462	34,298,253	984,799	601,175	30,002	29,852
12/31/2015	86,021,962	.966211		84,797,461	50,496,165	1.015170	51,262,173	85,560,427	461,535	-523,263	47,652,272	48,366,437
12/31/2016	81,772,438	1.004582		80,244,006	-4,553,455	1.009784	-4,598,005	80,962,422	810,016	348,481	0	0
12/31/2017	94,025,326	1.022196		90,092,751	9,848,746	1.057169	10,411,792	91,374,213	2,651,113	1,841,096	1,781,134	2,072,412
12/31/2018	90,133,894	1.011004		85,286,811	-4,805,940	.991684	-4,765,974	86,608,239	3,525,655	874,542	47,998	62,169
12/31/2019	88,520,695	1.003406		83,582,808	-1,704,004	1.061119	-1,808,151	84,800,088	3,720,607	194,952	3,578,242	3,776,057
12/31/2020	114,279,846	1.049743		102,984,422	19,401,614	1.106308	21,464,165	106,264,253	8,015,593	4,294,986	19,401,614	21,464,165
				102,984,422		1.031848	106,264,253			8,015,593	102,984,422	106,264,253

Auto Index Calculation: Multiple Data Input Sheets

- User selects teal-colored button located on the top left side of Main Menu Screen to enter Internal Index Module
- Multi sheet specs file saved by user containing data input sheet specs to be loaded by software displayed on right side of screen
- User selects desired internal index calculation settings listed on left side of screen & selects Save Settings button
- User selects Start Calculation button to load data input sheets listed on right side of screen



INTERNAL INDEX CALCULATION MODULE SCREEN for Sample Company Internal Indexes

File Edit Insert Delete Save as Excel File Help Import PY Item Cost from Diff

INTERNAL INDEX SETTINGS

Inflation comparison method Link-Chain Double-extension

ITEM COST TREATMENT SETTINGS

Set PY item cost equal to CY item cost for new items

Reconstruct new item prior year costs using current year indexes of similar preexisting items (similar items grouped & current year indexes calculated by class)

Exclude new items from current year index calculation

Import PY item cost from PY Report 27a File

Include items with missing CY item cost

Include items with missing PY item cost

OUTLIER ITEM TREATMENT SETTINGS

Include or exclude outliers from calculation Include

Inflation outlier % CY vs. PY ext. cost change dollar threshold

Deflation outlier %

2. User selects desired settings on left side of screen & selects Save Settings button (last settings saved will be reloaded when reentering Internal Index Module)

Start Calculation

3. User selects Start Calculation button to load data input sheets listed on right side of screen. Progress bar on bottom of screen provides calculation status as process progresses from data read to calc & report generation

1. Upon entering Internal Index module, LIFOPro software locates multi sheet specifications Excel file saved by user to LIFOPro software folder. Upon locating, multi sheet specifications file displayed on right side of screen. Software will load the data from the sheets listed within specs file upon pressing the Start Calculation button.

	A	B	C	D	E	F	G	H	I	J	K	L
1	File named iiSheetsSpecs.xlsx											
2	Containing specs for PBC internal index data contained in multiple Excel files or sheets											
3												
4												
5	Folder Path & File Name											
6	Y:\LIFOPRO1\Location A Data Input 2020YE.xlsx	LOC A SAP	1	C	F	G	H	I	D	E	2	28,218
7	Y:\LIFOPRO1\Location A Data Input 2020YE.xlsx	LOC A JDE	1	D	G	H	I	J	E	F	2	60,963
8	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B PKG	2	D	E	F	G	H	C	C	2	91
9	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B RAW	2	D	E	F	G	H	C	C	2	199
10	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B SFG	2	D	E	F	G	H	C	C	2	74
11	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx	LOC B FG	2	D	E	F	G	H	C	C	2	1,067
12	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C PKG	3	D	E	F	G	H	C	C	2	26
13	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C RAW	3	D	E	F	G	H	C	C	2	58
14	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C SFG	3	D	E	F	G	H	C	C	2	30
15	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx	LOC C FG	3	D	E	F	G	H	C	C	2	427
16	Y:\LIFOPRO1\Location D Data Input 2020YE.xlsx	LOC D JDE	4	D	G	H	I	J	E	F	2	3,392
17	Y:\LIFOPRO1\Location D Data Input 2020YE.xlsx	LOC D SAP	4	D	G	I	J	K	E	F	2	1,097
18												
19												
20												
21												



Auto Index Calculation: Multiple Data Input Sheets

- Internal index calculation summary report appears on right side of screen after calculation has completed (Rpt. 27)
- Report 27a – 30 sheets contain calculation detail, exceptions/outliers & analysis reports incl. inflation by class
- User selects Save Reports and Close Year End button to update LIFO history DB file & advance year end

1. Internal index summary report appears on right side of screen after calculation completes. Index calc. values shown on left side of rpt. & LIFO values shown on right side.

Save Reports and Close 12/31/2020 Year end

Save Reports w/o Close Year End

2. User selects Save Reports & Close Year End button to save the calculation results displayed on the right side of the screen to software's LIFO history database file. User will be returned to Main Menu & all historical LIFOPro software reports will advance to include results of last period closed.

Complete set of internal index calculation reports generated & can be saved as Excel/PDF or printed. Includes calc detail, outliers, exceptions & analysis reports.

POOL NO.	POOL NAME	CURRENT YEAR EXTENDED COST	PRIOR YEAR EXTENDED COST	TOTAL CURRENT YEAR COST	CURRENT YEAR INFLATION INDEX	PRIOR YEAR CUMULATIVE INDEX	CURRENT YEAR CUMULATIVE INDEX	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE (INCOME)
1	Location A	80,120,969	77,217,147	80,120,969	1.037606	1.055283	1.094968	75,200,374	4,920,595	2,437,302
2	Location B	18,600,745	17,835,462	18,600,745	1.042908	1.066063	1.111806	17,255,730	1,345,015	550,280
3	Location C	9,039,021	7,777,750	9,039,021	1.162164	.954493	1.109278	8,413,639	625,383	885,811
4	Location D	6,393,751	5,977,939	6,393,751	1.069558	1.228454	1.313903	5,313,607	1,080,144	377,137
		114,154,486	108,808,297	114,154,486	1.049134			106,183,350	7,971,137	4,250,530

POOL	SHEET NAME	CURRENT YEAR EXTENDED COST	PRIOR YEAR EXTENDED COST	TOTAL CURRENT YEAR COST	CURRENT YEAR INFLATION INDEX	FOLDER PATH & FILE NAME
1	LOC A SAP	41,917,301	40,015,819	41,917,301	1.047518244	Y:\LIFOPRO1\Location A Data Input 2020YE.xlsx
1	LOC A JDE	38,203,668	37,201,327	38,203,668	1.026943676	Y:\LIFOPRO1\Location A Data Input 2020YE.xlsx
2	LOC B PKG	384,211	370,249	384,211	1.037709901	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx
2	LOC B RAW	2,288,516	2,304,313	2,288,516	0.993144775	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx
2	LOC B SFG	690,840	681,908	690,840	1.013098787	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx
2	LOC B FG	15,237,178	14,478,993	15,237,178	1.052364529	Y:\LIFOPRO1\Location B Data Input 2020YE.xlsx
3	LOC C PKG	125,360	130,181	125,360	0.962966549	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx
3	LOC C RAW	2,602,445	2,045,439	2,602,445	1.272316037	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx
3	LOC C SFG	149,284	130,059	149,284	1.147816916	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx
3	LOC C FG	6,161,933	5,472,071	6,161,933	1.12606956	Y:\LIFOPRO1\Location C Data Input 2020YE.xlsx
4	LOC D JDE	3,305,856	3,037,834	3,305,856	1.088227952	Y:\LIFOPRO1\Location D Data Input 2020YE.xlsx
4	LOC D SAP	3,087,895	2,940,105	3,087,895	1.05026718	Y:\LIFOPRO1\Location D Data Input 2020YE.xlsx
		114,154,486	108,808,297	114,154,486	1.049134	


28	Inflation comparison method:	Link-Chain
29	Treatment for items with zero PY cost (new item):	P/Y set = to C/Y item cost
30	Treatment for items with zero C/Y cost:	Exclude C/Y & P/Y extensions from index calculation
31	Inflation outlier percentage:	30 %
32	Deflation outlier percentage:	30 %
33	Include outliers in index calculation:	INCLUDE
34	Show zero QOH rows in detail report:	Exclude zero QOH rows
35	Multiple sheets column numbers specified in iiMultiSheetSpecs.xlp file sheet named:	SheetSpecs2019

Current year index calculation summary amounts by LIFO pool (front-end). Reports 27a/27b show the detail of the front-end summary amounts. Total Current Year Cost Column E cells used to enter general ledger balances at cost by LIFO pool (if applicable).

Back end LIFO values calculated using front-end outputs displayed on left side of Report 27 & software's LIFO history database file containing all prior period calculation data

Auto Index Calculation: Multiple Data Input Sheets

- User returned to the Main Menu screen after selecting the Close & Save button in Internal Index Module screen
- Last period closed shown on top right of screen updated to match date of LIFO calculation just completed
- All back-end reports now include results of last period closed

 **Last Period Closed=12/31/2020**

Last period closed shown on top right of Main Menu screen advanced to same period of calculation just completed in Internal Index Module


MAIN MENU

Specify Top Level Data Path Print Standard Reports Auto

Sample Company Internal Indexes

Data Path = Y:\LIFOPRO1\Sample Internal Index Calculation\

Historical data reports listed on left side of Main Menu screen now updated to include the results of the last calculation made in Internal Index Module

 **Select different**

HISTORICAL DATA REPORTS(12/31/2011 to 12/31/2020)

Current Year Index Calculation Summary Report (Front End)

Sample Company Internal Indexes										9/19/2020 3:45:21 PM	
INTERNAL INDEX CALCULATION SUMMARY REPORT 27											
FOR THE PERIOD ENDED: 12/31/2020				Calculation scenario name: Q4 2020 Final Calculation							
Reports saved with this file name:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\12-31-2020 LIFO-PRO Internal Index calculation-Q4 2020 Final Calculationv2MultiSheet.xlsx											
POOL NO.	POOL NAME	CURRENT YEAR EXTENDED COST	PRIOR YEAR EXTENDED COST	TOTAL CURRENT YEAR COST	CURRENT YEAR INFLATION INDEX	PRIOR YEAR CUMULATIVE INDEX	CURRENT YEAR CUMULATIVE INDEX	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE (INCOME)	
1	Location A	80,120,969	77,217,147	80,120,969	1.037606	1.055283	1.094968	75,200,374	4,920,595	2,437,302	
2	Location B	18,600,745	17,835,462	18,600,745	1.042908	1.066063	1.111806	17,255,730	1,345,015	550,280	
3	Location C	9,039,021	7,777,750	9,039,021	1.162164	.954493	1.109278	8,413,639	625,383	885,811	
4	Location D	6,393,751	5,977,939	6,393,751	1.069558	1.228454	1.313903	5,313,607	1,080,144	377,137	
		114,154,486	108,808,297	114,154,486	1.049134			106,183,350	7,971,137	4,250,530	

LIFO Inventory History Schedule Report (Back End)

REPORT 16(Pool Histories)

Edit Save Report 16 as Excel File Historical Data Edit Calculate Save New Data Alt. Display Help Save Log File

Zoom % 95 A1 Sample Company Internal Indexes Print Selected Sheet Print all Pools Main Menu

Sample Company Internal Indexes												9/21/2020 11:01:43 AM	
LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2020 REPORT 16													
All Pools Combined				Data path:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\LINKCHAIN\									
PERIOD	CURRENT YEAR COST	CUR. YR. DEFLATOR INDEX	CUMLTV. DEFLATOR INDEX	AT BASE PRICES	AT BASE PRICES	INFLATOR INDEX	PRICED INC(DEC)	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST	
12/31/2011	48,436,465		1.000000	48,436,465	48,436,465	1.000000	48,436,465	48,436,465	0	0	24,770,296	24,770,296	
12/31/2012	35,893,449	.991527		36,200,163	-12,236,302	.999958	-12,235,783	36,200,682	-307,233	-307,233	0	0	
12/31/2013	42,791,339	1.016742		42,407,715	6,207,552	.999916	6,207,033	42,407,715	383,624	690,857	5,722,864	5,722,864	
12/31/2014	35,283,052	1.012350		34,301,296	-8,106,420	1.000375	-8,109,462	34,298,253	984,799	601,175	30,002	29,852	
12/31/2015	86,021,962	.966211		84,797,461	50,496,165	1.015170	51,262,173	85,560,427	461,535	-523,263	47,652,272	48,366,437	
12/31/2016	81,772,438	1.004582		80,244,006	-4,553,455	1.009784	-4,598,005	80,962,422	810,016	348,481	0	0	
12/31/2017	94,025,326	1.022196		90,092,751	9,848,746	1.057169	10,411,792	91,374,213	2,651,113	1,841,096	1,781,134	2,072,412	
12/31/2018	90,133,894	1.011004		85,286,811	-4,805,940	.991684	-4,765,974	86,608,239	3,525,655	874,542	47,998	62,169	
12/31/2019	88,520,695	1.003406		83,582,808	-1,704,004	1.061119	-1,808,151	84,800,088	3,720,607	194,952	3,578,242	3,776,057	
12/31/2020	114,154,486	1.049134		102,916,995	19,334,188	1.105982	21,383,262	106,183,350	7,971,137	4,250,530	19,334,188	21,383,262	
				102,916,995	1.031738		106,183,350			7,971,137	102,916,995	106,183,350	

1 / 2 / 3 / 4 Combined

Auto Index Calculation - Updating Total Current Year Cost

- LIFO calculation can be updated to tie to general ledger balances at cost (i.e. FIFO, average cost, standard cost) by pool if Column C Current Year Extended Cost Totals shown on screen do not tie to GL balances
- User enters GL balances by pool into Column E Total Current Year Cost cells & LIFO Inventory, Reserve & Expense (Income) amounts shown in Columns I:K automatically update
- Front-end output amounts remain unchanged after updating Total Current Year Cost values
- User selects Save Reports & Close Year End button to save calculation results to software database file

Internal Index Calc Summary Rpt. Before Entering General Ledger Inventory Balances by Pool

Sample Company Internal Indexes		8/25/2020 5:36:53 PM									
INTERNAL INDEX CALCULATION SUMMARY REPORT 27											
FOR THE PERIOD ENDED: 12/31/2019				Calculation scenario name: Q4 2019 Final Calculation							
Reports saved with this file name: Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\12-31-2019 LIFO-PRO Internal Index calculation-Q4 2019 Final Calculation.xlsx											
POOL NO.	POOL NAME	CURRENT YEAR EXTENDED COST	PRIOR YEAR EXTENDED COST	TOTAL CURRENT YEAR COST	CURRENT YEAR INFLATION INDEX	PRIOR YEAR CUMULATIVE INDEX	CURRENT YEAR CUMULATIVE INDEX	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE (INCOME)	
1	Location A	80,120,969	77,217,147	80,120,969	1.037606	1.000000	1.037606	78,642,408	1,478,561	2,550,485	
2	Location B	18,600,745	17,835,462	18,600,745	1.042908	.866980	.904180	19,772,634	-1,171,888	686,760	
3	Location C	9,164,381	7,907,930	9,164,381	1.158885	.977111	1.132359	8,038,922	1,125,458	1,256,451	
4	Location D	6,393,751	5,977,939	6,393,751	1.069558	1.103421	1.180173	5,927,948	465,803	198,363	
		114,279,846	108,938,478	114,279,846	1.049031			112,381,912	1,897,933	4,692,058	

Internal Index Calc Summary Rpt. After Entering General Ledger Inventory Balances by Pool

Sample Company Internal Indexes		8/25/2020 7:10:28 PM									
INTERNAL INDEX CALCULATION SUMMARY REPORT 27											
FOR THE PERIOD ENDED: 12/31/2019				Calculation scenario name: Q4 2019 Final Calculation							
Data path: Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\LINKCHAIN\											
POOL NO.	POOL NAME	CURRENT YEAR EXTENDED COST	PRIOR YEAR EXTENDED COST	TOTAL CURRENT YEAR COST	CURRENT YEAR INFLATION INDEX	PRIOR YEAR CUMULATIVE INDEX	CURRENT YEAR CUMULATIVE INDEX	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE (INCOME)	
1	Location A	80,120,969	77,217,147	79,000,000	1.037606	1.000000	1.037606	77,521,439	1,478,561	2,550,485	
2	Location B	18,600,745	17,835,462	15,000,000	1.042908	.866980	.904180	16,241,508	-1,241,508	617,140	
3	Location C	9,164,381	7,907,930	11,000,000	1.158885	.977111	1.132359	9,622,876	1,377,124	1,508,117	
4	Location D	6,393,751	5,977,939	7,500,000	1.069558	1.103421	1.180173	7,034,197	465,803	198,363	
		114,279,846	108,938,478	112,500,000	1.049031			110,420,021	2,079,979	4,874,104	



Current & prior period extensions calculated using data input sheet (current ÷ prior period extension = current period inflation index)



Total Current Year Cost is the general ledger inventory balance at cost (i.e. FIFO, average cost, standard cost, earliest acquisitions). The Current Year Extended Cost & Total Current Year Cost amounts shown in this report will remain the same if the data input sheet totals tie to the general ledger inventory balance at cost.

Total Current Year Cost amounts updated by user to equal general ledger inventory balances by pool at cost. Current & Prior Year Extended Cost & Current Year Inflation Index front-end calculation output values remain unchanged as a result of the change.



Software automatically updates LIFO Inventory, LIFO Reserve & LIFO Expense (Income) back-end calculation output values after entering general ledger inventory balances by pool at cost.



Manual Index Calculation: Link-chain

- User Selects Screen 3 button in Calculation Box located on the top right side of Main Menu Screen
- User copy/pastes front-end calculation values into peach-shaded cells of LIFO-PRO software calculation screen
- Software automatically updates back-end calculation outputs after entering front-end index values

Last period closed prior to completing year end calc → Last Period Closed=12/31/2018

CALCULATIONS

Internal Index Module

User selects Data Input (Screen 3) button to enter front end values & complete back-end of LIFO calculation

Data Input For 12/31/2019 (Screen 3)

Projection Report 1-Range of Inv. Levels and Indexes, one pool

Pool #	CY Ext Cost	PY Ext Cost	Current Year Index
1	80,120,969	77,217,147	1.037606
2	18,600,745	17,835,462	1.042908
3	9,164,381	7,907,930	1.158885
4	6,393,751	5,976,043	1.069897
Totals/avgs	\$ 114,279,846	\$ 108,936,582	1.049049

SCREEN 3 for Sample Company Internal Indexes

File Edit Save Report 3 as Excel File Global Var Help

Zoom % 85 F13

Load Different File Print Close 12/31/2019 Exit and Don't Save Exit and Save

8/26/2020 1:29:28 PM

Sample Company Internal Indexes

DATA INPUT FOR 12/31/2019 LIFO CALCULATIONS LIFO-PRO Report 3

DATA FILE NAME:12-31-2019 LIFO-PRO Internal Index calculation-Q4 2019 Final Calculation.pr

Breakdown of LIFO Expense (Income) Components

POOL	C/Y COST 12/31/2018	C/Y COST 12/31/2019	INDEX 12/31/2018	INDEX 12/31/2019	LIFO EXPENSE	LIFO RESERVE	LIFO INVENTORY	Inflation Effect	Layer Erosion Effect	Total LIFO Expense
1 Location A	67,821,356	80,120,969	1.038552	1.037606	2,550,485	1,478,561	78,642,408	2,550,485	0	2,550,485
2 Location B	16,005,404	18,600,745	1.001740	1.042908	686,760	-1,171,888	19,772,633	686,760	0	686,760
3 Location C	9,984,426	9,164,381	1.023696	1.158850	1,256,214	1,125,221	8,039,160	1,586,026	-329,812	1,256,214
4 Location D	2,851,765	6,393,751	1.120000	1.069897	199,330	466,770	5,926,981	199,330	0	199,330
TOTALS OR WTD AVG	96,662,951	114,279,846	1.032935	1.049047	4,692,788	1,898,663	112,381,183	5,022,600	-329,812	4,692,788

E-Layer erosion occurs for this pool.

Inventory balances at cost & current period inflation indexes by pool entered into peach-colored cells (front-end values)

Back-end calculation outputs automatically update after user enters values into front-end input cells



Manual Index Calculation: Link-chain

- User selects Close period end button to update software history database file to include front & back end calculation results from the current year being closed
- Software advances last period closed & updates all back-end reports

SCREEN 3 for Sample Company Internal Indexes

1. User selects Close button

File Edit Save Report 3 as Excel File Global Var Help

Zoom % 85 F13 Load Different File Print **Close 12/31/2019** Exit and Don't Save Exit and Save

8/26/2020 1:39:20 PM

Sample Company Internal Indexes LIFO-PRO Report 3

DATA INPUT FOR 12/31/2019 LIFO CALCULATIONS DATA FILE NAME:act12-19manualcalc.prn

Breakdown of LIFO Expense (Income) Components

	INDEX 12/31/2018	INDEX 12/31/2019	LIFO EXPENSE	LIFO RESERVE	LIFO INVENTORY	Inflation Effect	Layer Erosion Effect	Total LIFO Expense
9	1.038552	1.037606	2,550,485	1,478,561	78,642,408	2,550,485	0	2,550,485
5	1.001740	1.042908	686,760	-1,171,888	19,772,633	686,760	0	686,760
1	1.023696	1.158850	1,256,214	1,125,221	8,039,160	1,586,026	-329,812	1,256,214
1	1.120000	1.069897	199,330	466,770	5,926,981	199,330	0	199,330
6	1.032935	1.049047	4,692,788	1,898,663	112,381,183	5,022,600	-329,812	4,692,788

CLOSE PERIOD END

If Yes is selected, the 12/31/2019 period will be closed using the act12-19manualcalc.prn LIFO inputs file.

Do you want to close this period end?

2. User selects Yes button

Yes No

MAIN MENU

Specify Top Level Data Path Print Standard Reports Automatically Save Log File Exit Program Help About

Sample Company Internal Indexes

Data Path = Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

User is returned to the Main Menu screen & software LIFO history database file & reports now updated to include of the results of the last LIFO calculation made.

Last Period Closed=12/31/2019

COMPANY SELECTION Select different company (Company Selection Menu)

HISTORICAL DATA(1/1/2012 to 12/31/2019)

CALCULATIONS Internal Index Module IPIC Module (PPI or CPI)

Exit Program

Manual Index Calculation: Double-extension

- User selects Data Input (Screen 3) button from software Main Menu Screen
- User copy/pastes summary schedule input values into LIFO-PRO software calculation screen

LP MAIN MENU

Specify Top Level Data Path Print Standard Reports Automatically Save Log File Exit Program Help About

ABC Corporation Exit Program

Data Path = Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\ Last Period Closed=12/31/2018

COMPANY SELECTION

Select different company (Company Selection Menu) Data Input For 12/31/2019 (Screen 3)

LIFO-PRO Software Input Values Summary Table

Pool #	Current Period EXT Cost	Base Period EXT Cost	Current Period Cumulative Index	Prior Period Cumulative Index	Current Period Inflation Index
1	28,871,836	26,404,821	1.093430	1.082422	1.010170
2	538,457	454,617	1.184419	1.176682	1.006575
3	6,160,901	6,035,349	1.020803	1.005740	1.014977
4	3,013,266	2,558,998	1.177518	1.157988	1.016865
5	10,412,941	11,545,228	0.901926	0.898746	1.003538
6	546,679	503,901	1.084893	1.080051	1.004483
7	1,288,541	1,251,954	1.029224	0.843760	1.219807
8	18,278	15,825	1.155065	0.879868	1.312770
9	3,022,496	3,138,872	0.962924	0.962969	0.999953
Totals	53,873,396	51,909,565			



LP SCREEN 3

File Edit Save Report 3 as Excel File Show L/Y Global Var Prov Components Dept Store Indexes Help

Zoom 90% Load Different File Print Close 12/31/2019 Exit and Don't Save Exit and Save

F7 1.01017

7/25/2019 5:45:25 PM

ABC Corporation

DATA INPUT FOR 12/31/2019 LIFO CALCULATIONS LIFO-PRO Report 3

DATA FILE NAME:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\OnLIFO\LPDataFiles\DoubleExtension\

POOL	FIFO \$ 12/31/2018	FIFO \$ 12/31/2019	INDEX 12/31/2018	INDEX 12/31/2019	LIFO EXPENSE	LIFO INVENTORY
1 Mechanical Tubing	29,669,116	28,871,836	1.233788	1.010170	290,650	26,335,859 E
2 Boiler (pressure) Tubing	624,203	538,457	1.171420	1.006575	-9,886	454,617 E
3 Pipe	5,652,128	6,160,901	1.124108	1.014977	84,652	5,803,833 E
4 Valves & Fittings	3,172,199	3,013,266	1.106021	1.016865	21,474	2,558,999 E
5 Stainless Pipe & Tubing	10,411,352	10,412,941	1.255651	1.003538	36,709	10,562,157 E
6 Stainless Valve & Fittings	546,307	546,679	1.212152	1.004483	2,440	498,690 E
7 Aluminum Pipe & Tubing	1,002,199	1,288,541	1.113954	1.219807	220,290	1,192,801 E
8 Aluminum Valve & Fittings	25,620	18,278	.924900	1.312770	4,877	15,825 E
9 Cold finished bar	3,076,310	3,022,496	1.235981	.999953	-11,527	3,078,283 E
TOTALS OR WTD AVG	54,179,434	53,873,396	1.213836	1.013367	639,680	50,501,063
Provision breakdown==>		-71,754		711,433	639,680	
E-Layer erosion occurs for this pool.						



Manual Index Calculation: Double-extension

- LIFO expense & inventory balances automatically update in Screen 3 after entering software input values
- Close period end button selected & LIFO calculation documentation stored in software database file
- Software advances last period closed & updates reports

LP SCREEN 3

File Edit Save Report 3 as Excel File Show L/Y Global Var Prov Components Dept Store Indexes Help

Zoom 90 % Load Different File Print **Close 12/31/2019** Exit and Don't Save Exit and Save

B36

ABC Corporation 7/25/2019 5:55:13 PM

DATA INPUT FOR 12/31/2019 LIFO CALCULATIONS LIFO-PRO Report 3

DATA FILE NAME:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\OnLIFO\LPDataFiles\DoubleExtension

POOL	FIFO \$ 12/31/2018	FIFO \$ 12/31/2019	INDEX 12/31/2018	INDEX 12/31/2019	LIFO EXPENSE	LIFO INVENTORY
1 Mechanical Tubing	29,669,116	28,871,836	1.233788	1.010170	290,650	26,335,859 E
2 Boiler (pressure) Tubing	624,203	538,457	1.171420	1.006575	-9,886	454,617 E
3 Pipe	5,652,128	6,160,901	1.124108	1.014977	84,652	5,803,833 E
4 Valves & Fittings	3,172,199	3,013,266	1.106021	1.016865	21,474	2,558,999 E
5 Stainless Pipe & Tubing	10,411,352	10,412,941	1.255651	1.003538	36,709	10,562,157 E
6 Stainless Valve & Fittings	546,307	546,679	1.212152	1.004483	2,440	498,690 E
7 Aluminum Pipe & Tubing	1,002,199	1,288,541	1.113954	1.219807	220,290	1,192,801 E
8 Aluminum Valve & Fittings	25,620	18,278	.924900	1.312770	4,877	15,825 E
9 Cold finished bar	3,076,310	3,022,496	1.235981	.999953	-11,527	3,078,283 E
TOTALS OR WTD AVG	54,179,434	53,873,396	1.213836	1.013367	639,680	50,501,063 E
Provision breakdown==>		-71,754		711,433	639,680	

E-Layer erosion occurs for this pool. **CLOSE PERIOD END**

If Yes is selected, the 12/31/2019 period will be closed using the Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\OnLIFO\LPDataFiles\DoubleExtension\act12_19.prn LIFO inputs file.

Do you want to close this period end?

Yes No



LP MAIN MENU

Specify Top Level Data Path Print Standard Reports Automatically Save Log File Exit Program Help About

ABC Corporation **Exit Program**

Data Path = Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\ Last Period Closed=12/31/2019

COMPANY SELECTION

Select different company (Company Selection Menu)

DATA INPUT FOR 12/31/2020

Data Input For 12/31/2020 (Screen 3)

HISTORICAL DATA(12/31/2018 to 12/31/2019)

Report 16-All years, by pool

Report 16a-All years, by pool

Report 17-All years, by pool

Report 18-All pools, by year

Report 18a-All pools, by year

Report 18c-Consolidated Companies

Report 19-LIFO Provision Components Consol. Rpt. 19

YEAR-END CLOSE/UNCLOSE

Close 12/31/2020

Unclose 12/31/2019

PROJECTION(12/31/2020)Report

Report 1-Range of Inv. Levels and Indexes, one pool



Estimates

- User performs same steps year end calculation steps to make interim estimates, including closing year end
- To make a subsequent estimate or year end LIFO calculation, user selects Unclose button on Main Menu screen
- Historical LIFO results stored in software DB file remain intact & are unchanged after unclosing YE following completing estimate
- For monthly estimates, amount to be booked will equal one of the following amounts:
 - 1st estimate after closing year end: Estimated year end LIFO reserve – Actual prior year end LIFO reserve
 - 2nd or later estimate after closing year end: Most recent estimated YE LIFO reserve – prior estimated YE LIFO reserve

Rpt. 16 After Completing 2021 Year End Estimate & Closing Year End

Rpt. 16 After Unclosing 2021 Year End in Order to Complete Subsequent Estimate/Calculation

REPORT 16(Pool Histories)

Edit Save Report 16 as Excel File Historical Data Edit Calculate Save New Data Alt. Display

Zoom % 75 A19

Sample Company Internal Indexes 9/25/2020 5:23:12 PM

LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2021 REPORT 16

All Pools Combined Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

PERIOD	CURRENT YEAR COST	CUR. YR. DEFLATOR INDEX	CUMLTV. DEFLATOR INDEX	INVENTORY AT BASE PRICES	INC(DEC) AT BASE PRICES	CUMLTV. INFLATOR INDEX	PRICED INC(DEC)	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST
12/31/2011	48,436,465		1.000000	48,436,465	48,436,465	1.000000	48,436,465	48,436,465	0	0	24,770,296	24,770,296
12/31/2012	35,893,449	.991527		36,200,163	-12,236,302	.999958	-12,235,783	36,200,682	-307,233	-307,233	0	0
12/31/2013	42,791,339	1.016742		42,407,715	6,207,552	.999916	6,207,033	42,407,715	383,624	690,857	5,722,864	5,722,864
12/31/2014	35,283,052	1.012350		34,301,296	-8,106,420	1.000375	-8,109,462	34,298,253	984,799	601,175	30,002	29,852
12/31/2015	86,021,962	.966211		84,797,461	50,496,165	1.015170	51,262,173	85,560,427	461,535	-523,263	47,652,272	48,366,437
12/31/2016	81,772,438	1.004582		80,244,006	-4,553,455	1.009784	-4,598,005	80,962,422	810,016	348,481	0	0
12/31/2017	94,025,326	1.022196		90,092,751	9,848,746	1.057169	10,411,792	91,374,213	2,651,113	1,841,096	1,781,134	2,072,412
12/31/2018	90,133,894	1.011004		85,286,811	-4,805,940	.991684	-4,765,974	86,608,239	3,525,655	874,542	47,998	62,169
12/31/2019	88,520,695	1.003406		83,582,808	-1,704,004	1.061119	-1,808,151	84,800,088	3,720,607	194,952	3,578,242	3,776,057
12/31/2020	114,154,486	1.049134		102,916,995	19,334,188	1.105982	21,383,262	106,183,350	7,971,137	4,250,530	19,305,165	21,945,128
12/31/2021	119,862,211	1.015028		106,496,824	3,579,829	1.111195	3,977,889	110,161,239	9,700,972	3,608,852	4,016,023	
				106,496,824		1.034409	110,161,239		9,700,972		106,496,824	110,161,239

REPORT 16(Pool Histories)

Edit Save Report 16 as Excel File Historical Data Edit Calculate Save New Data Alt. Display Help Save Log File

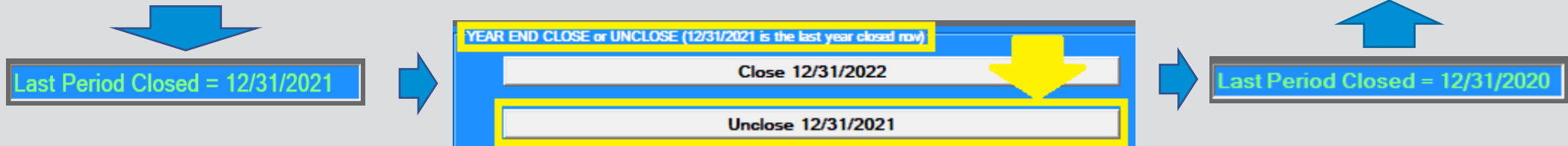
Zoom % 75 A1 Sample Company Internal Indexes Print Selected Sheet Print all P

Sample Company Internal Indexes 9/25/2020 6:25:10 PM

LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2020 REPORT 16

All Pools Combined Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

PERIOD	CURRENT YEAR COST	CUR. YR. DEFLATOR INDEX	CUMLTV. DEFLATOR INDEX	INVENTORY AT BASE PRICES	INC(DEC) AT BASE PRICES	CUMLTV. INFLATOR INDEX	PRICED INC(DEC)	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST
12/31/2011	48,436,465		1.000000	48,436,465	48,436,465	1.000000	48,436,465	48,436,465	0	0	24,770,296	24,770,296
12/31/2012	35,893,449	.991527		36,200,163	-12,236,302	.999958	-12,235,783	36,200,682	-307,233	-307,233	0	0
12/31/2013	42,791,339	1.016742		42,407,715	6,207,552	.999916	6,207,033	42,407,715	383,624	690,857	5,722,864	5,722,864
12/31/2014	35,283,052	1.012350		34,301,296	-8,106,420	1.000375	-8,109,462	34,298,253	984,799	601,175	30,002	29,852
12/31/2015	86,021,962	.966211		84,797,461	50,496,165	1.015170	51,262,173	85,560,427	461,535	-523,263	47,652,272	48,366,437
12/31/2016	81,772,438	1.004582		80,244,006	-4,553,455	1.009784	-4,598,005	80,962,422	810,016	348,481	0	0
12/31/2017	94,025,326	1.022196		90,092,751	9,848,746	1.057169	10,411,792	91,374,213	2,651,113	1,841,096	1,781,134	2,072,412
12/31/2018	90,133,894	1.011004		85,286,811	-4,805,940	.991684	-4,765,974	86,608,239	3,525,655	874,542	47,998	62,169
12/31/2019	88,520,695	1.003406		83,582,808	-1,704,004	1.061119	-1,808,151	84,800,088	3,720,607	194,952	3,578,242	3,776,057
12/31/2020	114,154,486	1.049134		102,916,995	19,334,188	1.105982	21,383,262	106,183,350	7,971,137	4,250,530	19,305,165	21,383,262
				102,916,995		1.031738	106,183,350		7,971,137		102,916,995	106,183,350



Estimates & Projections

- Screen 3 can also be used to perform ad-hoc estimates & projections
- User enters estimated/projected CY Inventory balances @ cost & CY indexes by LIFO pool in peach-colored input cells (Columns D & F)
- User can also multiply input cells by prior year end values shown to the left of each cell for sensitivity analysis
- Back-end LIFO calculation amounts in Columns G:M automatically update after entering values in input cells

Before Entering Estimated/projected Values into Peach-colored Input Cells

After Entering Estimated/projected Values into Peach-colored Input Cells

SCREEN 3 for Sample Company Internal Indexes

File Edit Save Report 3 as Excel File Global Var Help

Zoom % 75 M1

Sample Company Internal Indexes 9/25/2020 5:42:18 PM

DATA INPUT FOR 12/31/2021 LIFO CALCULATIONS LIFO-PRO Report 3

DATA FILE NAME:12-31-2020 LIFO-PRO Internal Index calculation-Q4 2020 Final Calculationv2MultiSheetIpswversion.prn Breakdown of LIFO Expense (Income) Components

POOL	C/Y COST	C/Y COST	INDEX	INDEX	LIFO	LIFO	LIFO	Inflation	Layer	Total
	12/31/2020	12/31/2021	12/31/2020	12/31/2021	EXPENSE	RESERVE	INVENTORY	Effect	Erosion	LIFO
1 Location A	80,120,969	80,120,969	1.037606	1.037606	2,903,823	7,824,418	72,296,551	3,013,023	-109,201	2,903,823
2 Location B	18,600,745	18,600,745	1.042908	1.042908	765,284	2,110,299	16,490,446	798,121	-32,837	765,284
3 Location C	9,039,021	9,039,021	1.162164	1.162164	1,261,272	1,886,654	7,152,367	1,465,805	-204,533	1,261,272
4 Location D	6,393,751	6,393,751	1.069558	1.069558	415,813	1,495,956	4,897,795	444,736	-28,923	415,813
TOTALS OR WTD AVG	114,154,486	114,154,486	1.049134	1.049134	5,346,191	13,317,328	100,837,159	5,721,684	-375,494	5,346,191

E-Layer erosion occurs for this pool.

SCREEN 3 for Sample Company Internal Indexes

File Edit Save Report 3 as Excel File Global Var Help

Zoom % 75 J13

Sample Company Internal Indexes 9/25/2020 5:55:48 PM

DATA INPUT FOR 12/31/2021 LIFO CALCULATIONS LIFO-PRO Report 3

DATA FILE NAME:12-31-2020 LIFO-PRO Internal Index calculation-Q4 2020 Final Calculationv2MultiSheetIpswversion.prn Breakdown of LIFO Expense (Income) Components

POOL	C/Y COST	C/Y COST	INDEX	INDEX	LIFO	LIFO	LIFO	Inflation	Layer	Total
	12/31/2020	12/31/2021	12/31/2020	12/31/2021	EXPENSE	RESERVE	INVENTORY	Effect	Erosion	LIFO
1 Location A	80,120,969	75,000,000	1.037606	1.005000	373,135	5,293,730	69,706,270	400,605	-27,471	373,135
2 Location B	18,600,745	15,000,000	1.042908	.990000	-151,515	1,193,501	13,806,499	-186,007	34,492	-151,515
3 Location C	9,039,021	10,000,000	1.162164	.970000	-271,170	354,212	9,645,788	-271,170	0	-271,170
4 Location D	6,393,751	6,500,000	1.069558	1.030000	189,320	1,269,464	5,230,536	191,812	-2,492	189,320
TOTALS OR WTD AVG	114,154,486	106,500,000	1.049134	1.000955	139,770	8,110,907	98,389,093	135,241	4,529	139,770

E-Layer erosion occurs for this pool.



Estimate/projection input cells. Prior to entering estimated/projected balances/indexes, these cells will equal the prior year amounts shown to the left of each input column

Back-end LIFO calculation amounts automatically update after user enters estimated/projected values into peach-colored input cells.



Projections

- User can project a range of next year end's LIFO expense (income) amounts resulting from user-defined range of inventory balances at cost (i.e. FIFO, avg./std. cost, EAC etc.) & inflation/deflation indexes
- The cell where the projected next year Column A inventory balance & Row 6 CY index represent the next year LIFO expense (income)
- User can also locate the first Column A inventory balance where the LIFO expense (income) amount remains unchanged
- Minimum balances required to avoid layer erosions represent the lowest inventory balance that can occur for the next year end prior to layer erosion LIFO income or expense occurring for the matching row 6 index value

REPORT 1 (Range of Inv. Levels and Indexes for One Pool)

Edit Save Report 1 as Excel File Help

Pool Selection

Pool 1 Location A

Pool 2 Location B

Pool 3 Location C

Pool 4 Location D

FIFO Values

Last Year FIFO: 80,120,969

First FIFO Value: 50,000,000

FIFO Value Increments: 2,500,000

Recalculate LIFO Values

Main Menu

Print Selected Pools

Index Values:

Last Year Index: 1.0376

First Index: .965

Index Increments: .005

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Sample Company	Internal Indexes														9/23/2020 10:20:00 PM
2	LIFO PROJECTION	REPORT FOR RANGE OF FIFO INVENTORY VALUES & INDEXES														REPORT 1
3	PROJECTION FOR	12/31/2021	For Pool 1 Location A													
4																
5	CURRENT-YEAR	-----LIFO EXPENSE (INCOME) USING INDEXES ON FOLLOWING ROW-----														
6	COST VALUES	.965	.97	.975	.98	.985	.99	.995	1.00	1.005	1.01	1.015	1.02	1.025	1.03	1.035
7	50,000,000	-2,796,753	-2,549,181	-2,304,149	-2,061,618	-1,821,548	-1,583,904	-1,348,648	-1,115,744	-885,158	-656,855	-430,801	-206,964	14,690	234,192	451,573
8	52,500,000	-2,698,193	-2,438,244	-2,180,960	-1,926,302	-1,674,229	-1,424,702	-1,177,683	-933,135	-691,019	-451,301	-213,944	21,085	253,822	484,299	712,549
9	55,000,000	-2,599,634	-2,327,306	-2,057,770	-1,790,986	-1,526,909	-1,265,500	-1,006,719	-750,525	-496,880	-245,747	2,913	249,134	492,953	734,405	973,524
10	57,500,000	-2,501,075	-2,216,368	-1,934,581	-1,655,669	-1,379,590	-1,106,298	-835,754	-567,915	-302,741	-40,192	219,769	477,183	732,085	984,512	1,234,500
11	60,000,000	-2,402,515	-2,105,430	-1,811,391	-1,520,353	-1,232,270	-947,097	-664,789	-385,306	-108,602	165,362	436,626	705,231	971,216	1,234,618	1,495,475
12	62,500,000	-2,356,799	-2,035,049	-1,716,599	-1,401,399	-1,089,398	-787,895	-493,825	-202,696	85,537	370,916	653,483	933,280	1,210,347	1,484,725	1,756,451
13	65,000,000	-2,357,512	-2,018,959	-1,687,771	-1,359,962	-1,035,482	-714,279	-396,304	-81,510	230,153	538,730	844,267	1,146,809	1,446,398	1,734,831	2,017,427
14	67,500,000	-2,448,186	-2,087,628	-1,730,769	-1,377,551	-1,027,918	-681,818	-339,195	0	332,748	653,193	970,481	1,284,659	1,595,771	1,903,863	2,208,978
15	70,000,000	-2,538,860	-2,164,948	-1,794,871	-1,428,571	-1,065,989	-707,070	-351,758	0	348,259	693,070	1,034,483	1,372,550	1,707,318	2,038,835	2,367,150
16	72,500,000	-2,629,533	-2,242,268	-1,858,974	-1,479,591	-1,104,060	-732,323	-364,321	0	360,697	717,822	1,071,429	1,421,569	1,768,293	2,111,651	2,451,691
17	75,000,000	-2,720,207	-2,319,587	-1,923,076	-1,530,612	-1,142,131	-757,575	-376,884	0	373,135	742,575	1,108,375	1,470,589	1,829,269	2,184,467	2,536,232
18	77,500,000	-2,804,233	-2,396,907	-1,987,179	-1,581,632	-1,180,202	-782,828	-389,447	0	385,573	767,327	1,145,321	1,519,608	1,890,244	2,257,282	2,620,773
19	80,000,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	398,011	792,080	1,182,267	1,568,628	1,951,220	2,330,098	2,705,315
20	82,500,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,402,913	2,789,856
21	85,000,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
22	87,500,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
23	90,000,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
24	92,500,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
25	95,000,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
26	97,500,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
27	100,000,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
28	102,500,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
29	105,000,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
30	107,500,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
31	110,000,000	-2,804,233	-2,403,629	-2,003,024	-1,602,419	-1,201,814	-801,209	-400,604	0	400,605	801,210	1,201,815	1,602,420	2,003,025	2,403,630	2,804,234
32																
33	Actual FIFO balance at 12/31/2020 year end:	80,120,969														
34	Actual current year LIFO index for 12/31/2020 year end:	1.038														
35	Actual LIFO reserve balance at 12/31/2020 year end:	4,920,595														
36	12/31/2021 Minimum FIFO balance required to avoid LIFO layer erosions:															
37		77,316,735	77,717,340	78,117,944	78,518,549	78,919,154	79,319,759	79,720,364	80,120,969	80,521,574	80,922,178	81,322,783	81,723,388	82,123,993	82,524,598	82,925,203



Unclosing Last Period Closed

- Last period closed can be unclosed for the following purposes:
 - Last calculation was an interim estimate & next estimate or year end calculation now needs to be made
 - Last calculation used preliminary data & final data is now available
 - Adjustments were required after reviewing calculation results or errors were found
- User selects Unclose button on the right side of the Main Menu screen

Last Period Closed Before Unclosing Year End

Last Period Closed=12/31/2020

CALCULATIONS

UNCLOSE PERIOD END X

If Yes is selected, the period ended 12/31/2020 will be unclosed.
Do you want to unclose this period end?

Projection Report 1-Range of Inv. Levels and Indexes, one pool

YEAR END CLOSE or UNCLOSE (12/31/2020 is the last year closed now)

Last Period Closed After Unclosing Year End

Last Period Closed = 12/31/2019

CALCULATIONS

Internal Index Module

IPIC Module (PPI or CPI)

Data Input For 12/31/2020 (Screen 3)

Projection Report 1-Range of Inv. Levels and Indexes, one pool

YEAR END CLOSE or UNCLOSE (12/31/2019 is the last year closed now)



Unclosing Last Period Closed

- All reports now reflect last period closed shown on top left of Main Menu screen
- Results of all prior periods that are still closed remain intact & are unchanged after unclosing last period closed

Rpt. 16 Prior to Unclosing 12/31/2020 Year End

REPORT 16(Pool Histories)

Edit Save Report 16 as Excel File Historical Data Edit Calculate Save New Data Alt. Display Help Save Log

Zoom % 80 L4 Print Selected Sheet Print all Pools Main Menu

Sample Company Internal Indexes 9/23/2020 9:50:39 PM

LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2020 REPORT 16

Pool: 1 Location A Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

PERIOD	CUR. YR.		CUMLTV. INVENTORY		INC(DEC)		CUMLTV.		LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST
	YEAR COST	INDEX	AT BASE PRICES	AT BASE PRICES	INFLATOR INDEX	PRICED INC(DEC)	INFLATOR INDEX	INFLATOR INDEX					
12/31/2011	11,199,769	1.000000	1.000000	11,199,769	11,199,769	1.000000	11,199,769	11,199,769	0	0	10,185,891	10,185,891	
12/31/2012	11,199,769	1.013543	1.013543	11,050,115	-149,654	1.000000	-149,654	11,050,115	149,654	149,654	0	0	
12/31/2013	11,199,769	1.065410	1.079839	10,371,702	-678,413	1.000000	-678,413	10,371,702	828,067	678,413	0	0	
12/31/2014	10,835,272	.985103	1.063753	10,185,891	-185,810	1.000000	-185,810	10,185,891	649,381	-178,687	0	0	
12/31/2015	62,060,141	.954157	1.014987	61,143,778	50,957,887	1.014987	51,721,594	61,907,485	152,656	-496,725	47,652,272	48,366,437	
12/31/2016	59,052,937	1.000847	1.015847	58,131,751	-3,012,028	1.014987	-3,057,169	58,850,316	202,621	49,965	0	0	
12/31/2017	61,021,886	1.026547	1.042814	58,516,575	384,824	1.042814	401,300	59,251,616	1,770,270	1,567,649	0	0	
12/31/2018	60,221,633	.998461	1.041209	57,838,163	-678,412	1.030772	-699,287	58,552,329	1,669,304	-100,966	0	0	
12/31/2019	64,811,679	1.013517	1.055283	61,416,405	3,578,242	1.055283	3,776,057	62,328,386	2,483,293	813,989	3,578,242	3,776,057	
12/31/2020	80,120,969	1.037606	1.094968	73,171,992	11,755,586	1.094968	12,871,988	75,200,374	4,920,595	2,437,302	11,755,586	12,871,988	
				73,171,992			10,277,211	75,200,374		4,920,595	73,171,992	75,200,374	

1 2 3 4 Combined



Rpt. 16 After Unclosing 12/31/2020 Year End

REPORT 16(Pool Histories)

Edit Save Report 16 as Excel File Historical Data Edit Calculate Save New Data Alt. Display Help Save Log

Zoom % 80 L4 Print Selected Sheet Print all Pools Main Menu

Sample Company Internal Indexes 9/23/2020 9:56:40 PM

LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2019 REPORT 16

Pool: 1 Location A Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

PERIOD	CUR. YR.		CUMLTV. INVENTORY		INC(DEC)		CUMLTV.		LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST
	YEAR COST	INDEX	AT BASE PRICES	AT BASE PRICES	INFLATOR INDEX	PRICED INC(DEC)	INFLATOR INDEX	INFLATOR INDEX					
12/31/2011	11,199,769	1.000000	1.000000	11,199,769	11,199,769	1.000000	11,199,769	11,199,769	0	0	10,185,891	10,185,891	
12/31/2012	11,199,769	1.013543	1.013543	11,050,115	-149,654	1.000000	-149,654	11,050,115	149,654	149,654	0	0	
12/31/2013	11,199,769	1.065410	1.079839	10,371,702	-678,413	1.000000	-678,413	10,371,702	828,067	678,413	0	0	
12/31/2014	10,835,272	.985103	1.063753	10,185,891	-185,810	1.000000	-185,810	10,185,891	649,381	-178,687	0	0	
12/31/2015	62,060,141	.954157	1.014987	61,143,778	50,957,887	1.014987	51,721,594	61,907,485	152,656	-496,725	47,652,272	48,366,437	
12/31/2016	59,052,937	1.000847	1.015847	58,131,751	-3,012,028	1.014987	-3,057,169	58,850,316	202,621	49,965	0	0	
12/31/2017	61,021,886	1.026547	1.042814	58,516,575	384,824	1.042814	401,300	59,251,616	1,770,270	1,567,649	0	0	
12/31/2018	60,221,633	.998461	1.041209	57,838,163	-678,412	1.030772	-699,287	58,552,329	1,669,304	-100,966	0	0	
12/31/2019	64,811,679	1.013517	1.055283	61,416,405	3,578,242	1.055283	3,776,057	62,328,386	2,483,293	813,989	3,578,242	3,776,057	
				61,416,405			10,148,494	62,328,386		2,483,293	61,416,405	62,328,386	

1 2 3 4 Combined



Reports

- All reports can be viewed, printed or saved as Excel/PDF files by selecting report button on Main Menu screen
- Internal Index Calculation Reports 27 – 30 show current year index calculation summary & details (i.e. front-end. Rpt. 27 also shows CY LIFO inventory balance, LIFO reserve & LIFO expense (income) amounts by pool & in total)
- Reports 15 – 19 shows LIFO calculation results for current year only & all periods in summary & detail formats

MAIN MENU

Specify Top Level Data Path Print Standard Reports Automatically Save Log File Exit Program Help About

Sample Company Internal Indexes

Data Path = Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\LINKCHAIN\


COMPANY SELECTION

Select different company (Company Selection Menu)

HISTORICAL DATA REPORTS(12/31/2011 to 12/31/2020)

LIFO Inventory History Summary (Report 16) - All years, by pool
LIFO Layer History (Report 16a) - All years, by pool
LIFO Inventory History Detail (Report 17) -All years, by pool
Year End LIFO Calculation Summary (Report 18) -All pools, by year
LIFO Reserve Calculation (Report 18a) -All pools, by year
Consolidated Year End LIFO Calculation Summary (Report 18c)
LIFO Expense (Income) Components (Report 19)
LIFO Reserve by Layer (Report 15) -All years, by pool
External Index (IPIC) Calculation (Reports 23 - 26)
Internal Index Calculation (Reports 27 - 30)

Select any of the buttons listed in the Historical Data Reports box located on the left side of the Main Menu screen to view, print or save reports as Excel/PDF (Reports 16 - 17 saves a sheet for each pool including an all pools combined sheet to a single Excel file. Reports 18 & 18a saves a sheet for each year to a single Excel file).



Reports

- **Front End Reports:** Show current year index calculation documentation (CY & PY/BY ext. cost, Total CY Cost, CY index, etc.) based on CY data loaded into software by the user (Report 27 also shows CY/PY cumulative index, LIFO inventory, reserve & expense (income))
- **Back End Reports:** Show current & prior period LIFO calculation documentation (incl. increments/decrements, layers, LIFO inventory, reserve & expense (income)) based on CY front end calculation results & historical LIFO calculation data stored in software database file

LIFOPro Software Reports Table of Contents

Report Type	Period Format	Report Name #	Primary Content
Front End	Current	Internal Index Calculation Summary (Report 27)	CY & PY/BY Ext Cost, CY Index, LIFO Inventory, Reserve & Expense (Income)
Front End	Current	Internal Index Calculation Detail (Report 27a/27b)	QOH/Weight, CY & PY/BY Item/Unit Cost, CY & PY/BY Ext Cost & CY Index
Front End	Current	Internal Index Missing Item Cost Exceptions (Report 28a)	QOH/Weight, CY & PY/BY Item/Unit Cost, CY & PY/BY Ext Cost & CY Index
Front End	Current	Internal Index Price Change (Outliers) Exceptions (Report 28b)	QOH/Weight, CY & PY/BY Item/Unit Cost, CY & PY/BY Ext Cost & CY Index
Front End	Current	Internal Index Unit of Measure Exceptions (Report 28c)	UOM, QOH/Weight, CY & PY/BY Item/Unit Cost, CY & PY/BY Ext Cost & CY Index
Front End	Current	Internal Index Calculation Statistics (Report 29)	Multiple
Front End	Current	Internal Index Current Year Index by Class (Report 30)	CY & PY/BY Ext Cost & CY Index by class
Back End	Current	Actual Year End LIFO Summary (Report 18)	CY Balances @ Cost, CY index, CY LIFO Inventory Balance, CY/PY LIFO Reserve & CY LIFO Expense (Income)
Back End	Current	LIFO Reserve Calculation (Report 18a)	All
Back End	All	LIFO Inventory History Summary (Report 16)	All
Back End	All	LIFO Layer History Proof (Report 16a)	Layers @ Base/Cost & Increments/Decrements
Back End	All	LIFO Inventory History Detail (Report 17)	Layers @ Base/Cost Remaining
Back End	All	LIFO Expense Components (Report 19)	Inflation Effect LIFO Expense (Income) & Layer Erosion Effect LIFO (income) Expense
Back End	Mixed	Consolidated Reports	Report 18 or 19 Variables by Entity or Calculation
Back End	Mixed	§263A UNICAP Costs Reports	§263A absorption ratio (UNICAP Rate), CY & PY UNICAP Costs & Increase (Decrease) in CY vs. PY UNICAP Costs
Back End	Next Period	LIFO Projections (Report 1)	LIFO Expense (Income) Array



Reports: Internal Index Calculation Summary (Report 27)

- Summary report by pool and in total showing:
 - Current year index calculated within Internal Index Module (detail shown in Reports 27a & 27b)
 - CY/PY extended costs
 - CY & PY cumulative indexes
 - CY LIFO inventory balance
 - CY LIFO reserve
 - CY LIFO expense (income)
- Internal index calculation settings
- Item cost treatment settings
- Data input show column & row locations

Sample Company Internal Indexes		9/17/2020 2:21:16 PM								
INTERNAL INDEX CALCULATION SUMMARY REPORT 27										
FOR THE PERIOD ENDED: 12/31/2020					Calculation scenario name: Q4 2020 Final Calculation					
Reports saved with this file name:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\12-31-2020 LIFO-PRO Internal Index calculation-Q4 2020 Final Calculationv2.xlsx										
POOL NO.	POOL NAME	CURRENT YEAR	PRIOR YEAR	TOTAL	CURRENT	PRIOR YEAR	CURRENT	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE (INCOME)
		EXTENDED COST	EXTENDED COST	CURRENT YEAR COST	YEAR INFLATION INDEX	CUMULATIVE INDEX	YEAR CUMULATIVE INDEX			
1	Location A	80,120,969	77,217,147	80,120,969	1.037606	1.055283	1.094968	75,200,374	4,920,595	2,437,302
2	Location B	18,600,745	17,812,212	18,600,745	1.044269	1.066063	1.113257	17,238,272	1,362,473	567,738
3	Location C	9,164,381	7,882,376	9,164,381	1.162642	.954493	1.109734	8,536,388	627,993	888,421
4	Location D	6,393,751	5,952,903	6,393,751	1.074056	1.228454	1.319428	5,289,219	1,104,532	401,525
		114,279,846	108,864,639	114,279,846	1.049743			106,264,253	8,015,593	4,294,986
Inflation comparison method:			Link-Chain							
Treatment for items with zero PY cost (new item):			P/Y set = to C/Y item cost							
Treatment for items with zero C/Y cost:			Exclude C/Y & P/Y extensions from index calculation							
Inflation outlier percentage:			30 %							
Deflation outlier percentage:			30 %							
Include outliers in index calculation:			INCLUDE							
Last PBC Internal index file loaded:			Y:\LIFOPRO1\Internal Index Data Input Sheet Single File Sheet.xlsx							
Show zero QOH rows in detail report:			Exclude zero QOH rows							
Data input sheet name:			Item Detail Consolidated 2019YE							
Data input sheet pool number column:			B							
Data input sheet item number column:			D							
Data input sheet item description column:			G							
Data input sheet QOH column:			H							
Data input sheet C/Y item cost column:			I							
Data input sheet P/Y item cost column:			J							
Data input sheet class number column:			E							
Data input sheet class description column:			F							



Reports: Internal Index Calculation Detail (Report 27a)

- Lists all items loaded by user from data input sheet(s)
- Shows all extensions before applying user-defined item cost treatment, exceptions & outlier settings
- Shows totals by pool & combined totals
- Includes fields to denote the following:
 - CY & PY Ext Cost
 - CY index
 - If item was missing CY or PY item cost
 - If item exceeded user-defined inflation/deflation percentages or dollar threshold
 - Data input sheet row #

Sample Company Internal Indexes											9/17/2020 2:21:09 PM		
INTERNAL INDEX CALCULATION DETAIL REPORT 27a													
FOR THE PERIOD ENDED: 12/31/2020				Calculation scenario name: Q4 2020 Final Calculation									
Showing all extensions before dealing with inflation outliers, missing cost items & other exclusions													
											MISSING CY	INFLATION	DATA INPUT
POOL	ITEM NO.	ITEM DESCRIPTION	PRODUCT CLASS	PRODUCT CLASS DESCRIPTION	QTY ON HAND	CY ITEM COST	PY ITEM COST	CY EXT COST	PY EXT COST	ITEM INDEX	OR PY ITEM COST OR BOTH	OUTLIERS INCLUDED	SHEET ROW NO.
1	00004005	IM/AHP2 HAND PENDANT -	399	5*Std Equipment	8	1	11.14	8	89	.089767		> 30% Deflator	2
1	00020671	HOLDER SENSOR SUPRAREX	561	3*Aftermarket Cutting	2	49.11	49.11	98	98	1.000000			3
1	00020727	CYCLE 8 HARDWARE KIT	508	1*Cutting Automation	1	7.7	7.7	8	8	1.000000			4
1	00020728	A5 200 Quattrojet P/NG	500	1*Cutting Automation	1	5,412.98	5,412.98	5,413	5,413	1.000000			5
1	00021153	GEARED MOTOR	508	1*Cutting Automation	1	615.99	602.11	616	602	1.023052			6
1	00021153	GEARED MTR KARBEN BEVE	561	3*Aftermarket Cutting	3	710.27	687.95	2,131	2,064	1.032444			7
1	00021153	GEARHEAD MTR DF02 I=31	561	3*Aftermarket Cutting	4	1,015.81	992.92	4,063	3,972	1.023053			8
1	00021574	CVR Y CAR COMBIREX	508	1*Cutting Automation	1	42.98	42.98	43	43	1.000000			9
1	00021800	CABLE CHAIN KIT 6M SINGL	508	1*Cutting Automation	1	910.77	910.77	911	911	1.000000			10
1	00022070	MOD CENT GAS MANI ACON	508	1*Cutting Automation	1	3,608.48	3,608.48	3,608	3,608	1.000000			11
1	00022346	AIR HOSE 5M QUICK COUPL	508	1*Cutting Automation	2	74.14	74.14	148	148	1.000000			12
1	00022549	KIT AC MC	508	1*Cutting Automation	1	676.26	676.26	676	676	1.000000			13
1	00022643	CABLE SET PANEL T5 RELAY	508	1*Cutting Automation	1	229.11	224.16	229	224	1.022082			14
1	00022643	CABLE EXT M12 M/F/ SHIEL	562	3*Aftermarket Cutting	30	29.03	28.12	871	844	1.032361			15
1	00022643	CABLE HF GENATOR 0.7M	508	1*Cutting Automation	2	64.98	63.52	130	127	1.022985			16
1	00022643	Supply Cable Aircon.OC 15	500	1*Cutting Automation	2	83.9	83.9	168	168	1.000000			17
1	00022645	CBL ENC SUPRAREX 5M	560	3*Aftermarket Cutting	4	112.42	70.2	450	281	1.601425		> 30% Inflation	18
1	00022645	CBL ENC SUPRAREX 7M	560	3*Aftermarket Cutting	8	102.62	69.83	821	559	1.469569		> 30% Inflation	19
1	00022645	CBL DRIVE SUPRAREX 5M	560	3*Aftermarket Cutting	3						P/Y = C/Y		20
1	00022645	CBL DRIVE SUPRAREX 7M	560	3*Aftermarket Cutting	17	96.8	50.12	1,646	852	1.931365		> 30% Inflation	21
1	00022646	CBL ENC 15M SGMPH-04 Y	508	1*Cutting Automation	1						P/Y = C/Y		22
1	00022646	CBL MTR 15M SGMPH-04 Y	561	3*Aftermarket Cutting	1						P/Y = C/Y		23



Reports: Internal Index Calculation Detail (Report 27b)

- Lists all items loaded by user from data input sheet(s)
- Shows all extensions after applying user-defined item cost treatment, exceptions & outlier settings
- Shows pool & combined totals
- Includes fields to denote the following:
 - CY & PY Ext Cost
 - CY index
 - If item was missing CY or PY item cost
 - If item exceeded user-defined inflation/deflation percentages or dollar threshold
 - Also includes column indicating if the item was included or excluded from index calculation (based on user-defined item cost treatment settings)
 - Data input sheet row #

Sample Company Internal Indexes											9/17/2020 2:21:14 PM							
INTERNAL INDEX CALCULATION DETAIL REPORT 27b																		
FOR THE PERIOD ENDED: 12/31/2020					Calculation scenario name: Q4 2020 Final Calculation													
Showing extensions used for Report 27 pool index calculations after applying user-defined item cost & outlier settings																		
											MISSING CY		INC OR					
POOL		PRODUCT			QTY ON		CY ITEM		PY ITEM		CY EXT		PY EXT		OR PY ITEM	INFLATION	EXC	DATA INPUT
NO.	ITEM NO.	ITEM DESCRIPTION	NUMBER	CLASS	PRODUCT CLASS	HAND	COST	COST	COST	COST	ITEM INDEX	COST OR BOTH	OUTLIERS INCLUDED	FROM CALC		SHEET ROW NO.		
1	0004005	IM/AHP2 HAND PENDANT	399	5	Std Equipment	8	1	11.14	8	89	.089767		> 30% Deflation	Included		2		
1	0002067	HOLDER SENSOR SUPRAREX	561	3	Aftermarket Cutting	2	49.11	49.11	98	98	1.000000			Included		3		
1	0002072	CYCLE 8 HARDWARE KIT	508	1	Cutting Automation	1	7.7	7.7	8	8	1.000000			Included		4		
1	0002072	A5 200 Quattrojet P/NG	500	1	Cutting Automation	1	5,412.98	5,412.98	5,413	5,413	1.000000			Included		5		
1	0002115	GEARED MOTOR	508	1	Cutting Automation	1	615.99	602.11	616	602	1.023052			Included		6		
1	0002115	GEARED MTR KARBEN BEVE	561	3	Aftermarket Cutting	3	710.27	687.95	2,131	2,064	1.032444			Included		7		
1	0002115	GEARHEAD MTR DF02 I=31	561	3	Aftermarket Cutting	4	1,015.81	992.92	4,063	3,972	1.023053			Included		8		
1	0002157	CVR Y CAR COMBIREX	508	1	Cutting Automation	1	42.98	42.98	43	43	1.000000			Included		9		
1	0002180	CABLE CHAIN KIT 6M SINGL	508	1	Cutting Automation	1	910.77	910.77	911	911	1.000000			Included		10		
1	0002207	MOD CENT GAS MANI ACOM	508	1	Cutting Automation	1	3,608.48	3,608.48	3,608	3,608	1.000000			Included		11		
1	0002234	AIR HOSE 5M QUICK COUPL	508	1	Cutting Automation	2	74.14	74.14	148	148	1.000000			Included		12		
1	0002254	KIT AC MC	508	1	Cutting Automation	1	676.26	676.26	676	676	1.000000			Included		13		
1	0002264	CABLE SET PANEL T5 RELAY	508	1	Cutting Automation	1	229.11	224.16	229	224	1.022082			Included		14		
1	0002264	CABLE EXT M12 M/F/ SHIEL	562	3	Aftermarket Cutting	30	29.03	28.12	871	844	1.032361			Included		15		
1	0002264	CABLE HF GENATOR 0.7M	508	1	Cutting Automation	2	64.98	63.52	130	127	1.022985			Included		16		
1	0002264	Supply Cable Aircon.OC 15	500	1	Cutting Automation	2	83.9	83.9	168	168	1.000000			Included		17		
1	0002264	CBL ENC SUPRAREX 5M	560	3	Aftermarket Cutting	4	112.42	70.2	450	281	1.601425		> 30% inflation	Included		18		
1	0002264	CBL ENC SUPRAREX 7M	560	3	Aftermarket Cutting	8	102.62	69.83	821	559	1.469569		> 30% inflation	Included		19		
1	0002264	CBL DRIVE SUPRAREX 5M	560	3	Aftermarket Cutting	3						P/Y = C/Y		Included		20		
1	0002264	CBL DRIVE SUPRAREX 7M	560	3	Aftermarket Cutting	17	96.8	50.12	1,646	852	1.931365		> 30% inflation	Included		21		
1	0002264	CBL ENC 15M SGMPH-04 Y	508	1	Cutting Automation	1						P/Y = C/Y		Included		22		
1	0002264	CBL MTR 15M SGMPH-04 Y	561	3	Aftermarket Cutting	1						P/Y = C/Y		Included		23		



Reports: Internal Index Missing Item Cost Exceptions Detail (Report 28a)

- Shows only items with missing current and/or prior/base year item costs
- Also shows any item cost treatment settings applied
- Also includes column indicating if the item was included or excluded from index calculation (based on user-defined item cost treatment settings)

Sample Company Internal Indexes											
INTERNAL INDEX MISSING ITEM COST EXCEPTIONS REPORT 28a											
FOR THE PERIOD ENDED: 12/31/2020						Calculation scenario name: Q4 2020 Final Calculation					
								MISSING CY		DATA INPUT	
			OR PY ITEM		INC OR EXC		FROM INDEX			SHEET ROW	
POOL	ITEM NO.	ITEM DESCRIPTION	QTY ON HAND	CY ITEM COST	PY ITEM COST	CY EXT COST	PY EXT COST	ITEM INDEX	COST OR BOTH	FROM INDEX CALC	SHEET ROW NO.
2	070041	FS-025-400 OSC 392M SPEC	8,672	.64		5,554	5,554	1.000000	P/Y	INC; PY = CY	89297
2	070050	FS-025-512 OSC 391M SPEC	5,195	.62		3,208	3,208	1.000000	P/Y	INC; PY = CY	89299
2	070051	FS-030-400 OSC 391M SPEC	6,700	.59		3,964	3,964	1.000000	P/Y	INC; PY = CY	89300
2	070052	FS-040-512 OSC 391M SPEC	3,730	.59		2,207	2,207	1.000000	P/Y	INC; PY = CY	89301
2	070054	FS-019-535 OSC 395E SPEC	4,320	.67		2,892	2,892	1.000000	P/Y	INC; PY = CY	89302
2	070056	FS-025-512 OSC 392M SPEC	20,475	.67		13,718	13,718	1.000000	P/Y	INC; PY = CY	89303
2	770030	FLUXLITHIUM OXIDE AGGLC	129	1.78		230	230	1.000000	P/Y	INC; PY = CY	89324
2	770512	CELLULOSE ALPHA FLOCK	12	.75		9	9	1.000000	P/Y	INC; PY = CY	89365
2	770642	FERRO TITANIUM 40% LOW	452	4.42		1,998	1,998	1.000000	P/Y	INC; PY = CY	89376
2	770644S	MANGANESE METAL.ELECTF	2,694	2.04		5,496	5,496	1.000000	P/Y	INC; PY = CY	89377
2	770645	CHROMIUM METAL LOW CA	1,105	5.94		6,562	6,562	1.000000	P/Y	INC; PY = CY	89378
2	770660	FERRO MANGANESE HI-C LO	148	1.24		184	184	1.000000	P/Y	INC; PY = CY	89379
2	770664F	SILICO MANGANESE	4,512	1.02		4,602	4,602	1.000000	P/Y	INC; PY = CY	89381
2	770675F	FERRO SILICON UNSTABILIZ	2,717	.84		2,282	2,282	1.000000	P/Y	INC; PY = CY	89383
2	771643	SILICO MANGANESE (STABI	2,490	1.14		2,839	2,839	1.000000	P/Y	INC; PY = CY	89438
2	778801D	OK FLUX 429 DUST COLLECT	3,520						BOTH	EXCLUDED	89448
2	778801F	OK FLUX 429 FINES	6,921						BOTH	EXCLUDED	89449
2	778804D	OK FLUX 10.62 DUST COLLEC	3,890						BOTH	EXCLUDED	89450
2	778804F	OK FLUX 10.62 FINES	11,461						BOTH	EXCLUDED	89451
2	778805D	OK FLUX 10.71 DUST COLLEC	1,210						BOTH	EXCLUDED	89452
2	778805F	OK FLUX 10.71 FINES	17,574						BOTH	EXCLUDED	89453
2	778806D	OK FLUX 10.72 DUST COLLEC	2,930						BOTH	EXCLUDED	89454
2	778806F	OK FLUX 10.72 FINES	18,922						BOTH	EXCLUDED	89455



Reports: Internal Index Price Change Exceptions Detail (Report 28b)

- Shows only items with current vs. prior/base year item cost change that exceed the user-defined inflation/deflation outlier percentages and/or dollar threshold
- Includes column indicating if item was an inflation or deflation outlier
- Also includes column indicating if the item was included or excluded from index calculation (based on user-defined item cost treatment settings)

Sample Company Internal Indexes										9/17/2020 2:21:19 PM		
INTERNAL INDEX PRICE CHANGE EXCEPTIONS (OUTLIERS) REPORT 28b												
FOR THE PERIOD ENDED: 12/31/2020					Calculation scenario name: Q4 2020 Final Calculation							
POOL	NO.	ITEM NO.	ITEM DESCRIPTION	QTY ON HAND	CY ITEM COST	PY ITEM COST	CY EXT COST	PY EXT COST	ITEM INDEX	OUTLIER TYPE	INC OR EXC FROM INDEX CALC	DATA INPUT SHEET ROW NO.
1	000040050	IM/AHP2 HAND PENDANT -		399	5	8	1,995	3,192	.625000	>= 25% DEFLATION	INCLUDED	2
1	000206716	HOLDER SENSOR SUPRAREX		561	3	2	1,683	1,122	1.500000	>= 25% INFLATION	INCLUDED	3
1	000211535	GEARHEAD MTR DF02 I=31.		561	3	4	1,683	2,244	.750000	>= 25% DEFLATION	INCLUDED	8
1	000223468	AIR HOSE 5M QUICK COUPL		508	1	2	508	1,016	.500000	>= 25% DEFLATION	INCLUDED	12
1	000226434	CABLE EXT M12 M/F/ SHIEL		562	3	30	1,686	16,860	.100000	>= 25% DEFLATION	INCLUDED	15
1	000226435	CABLE HF GENATOR 0.7M		508	1	2	508	1,016	.500000	>= 25% DEFLATION	INCLUDED	16
1	000226437	Supply Cable Aircon.OC 15		500	1	2	500	1,000	.500000	>= 25% DEFLATION	INCLUDED	17
1	000226457	CBL ENC SUPRAREX 5M		560	3	4	1,680	2,240	.750000	>= 25% DEFLATION	INCLUDED	18
1	000226457	CBL ENC SUPRAREX 7M		560	3	8	1,680	4,480	.375000	>= 25% DEFLATION	INCLUDED	19
1	000226457	CBL DRIVE SUPRAREX 7M		560	3	17	1,680	9,520	.176471	>= 25% DEFLATION	INCLUDED	21
1	000226465	CBL 3.5M SIDE CARRIAGE		508	1	9	508	4,572	.111111	>= 25% DEFLATION	INCLUDED	24
1	000226465	CBL 7.5M SIDE CARRIAGE		508	1	9	508	4,572	.111111	>= 25% DEFLATION	INCLUDED	25
1	000226465	CBL 10M M12 5P F		508	1	15	508	7,620	.066667	>= 25% DEFLATION	INCLUDED	26
1	000226472	CBL 3.5M PWR ACON HUB		508	1	2	508	1,016	.500000	>= 25% DEFLATION	INCLUDED	29
1	000226472	CBL 7.5M M12 5P FE		508	1	34	508	17,272	.029412	>= 25% DEFLATION	INCLUDED	31
1	000226472	CBL 3M M12 5P FE		508	1	25	508	12,700	.040000	>= 25% DEFLATION	INCLUDED	32
1	000226473	CBL AY 7M PWR 230V		508	1	9	508	4,572	.111111	>= 25% DEFLATION	INCLUDED	35
1	000226474	POWER CBL 8M		561	3	1	1,683	561	3.000000	>= 25% INFLATION	INCLUDED	36
1	000226474	POWER CABLE 10M		561	3	2	1,683	1,122	1.500000	>= 25% INFLATION	INCLUDED	37
1	000226474	POWER CBL 15M		561	3	1	1,683	561	3.000000	>= 25% INFLATION	INCLUDED	38
1	000226475	GROUND CABLE 1M 16MMY		508	1	13	508	6,604	.076923	>= 25% DEFLATION	INCLUDED	39
1	000226475	GROUND CABLE 2M 16MMY		508	1	24	508	12,192	.041667	>= 25% DEFLATION	INCLUDED	40
1	000226475	GROUND CABLE 4M 16MMY		508	1	35	508	17,780	.028571	>= 25% DEFLATION	INCLUDED	41
1	000226477	"SENSOR CABLE M8 TOOLTI		508	1	2	508	1,016	.500000	>= 25% DEFLATION	INCLUDED	42
1	000226478	CBL PWR AIR COND OC 7M		561	3	2	1,683	1,122	1.500000	>= 25% INFLATION	INCLUDED	43



Reports: Internal Index Unit of Measure Exceptions Detail (Report 28c)

- Optional report to assist with the identification of items with differing current vs. prior/base year units of measure
- Requires user to include both CY & prior/base year unit of measure (UOM) fields within the data input sheets to be loaded into the LIFOPro software
- Also includes column indicating if the item was included or excluded from index calculation (based on user-defined item cost treatment settings)

Sample Company Internal Indexes											9/17/2020 2:21:09 PM	
CY VS. PY UNIT OF MEASURE EXCEPTION DETAIL REPORT 28c												
FOR THE PERIOD ENDED: 12/27/2020												
Showing items with different current vs. prior year units of measure (UOM)												
POOL NO.	ITEM NO.	ITEM DESCRIPTION	CY UOM	PY UOM	QTY ON HAND	CY ITEM COST	PY ITEM COST	CY EXT COST	PY EXT COST	CY INDEX	DATA INPUT SHEET NO.	INCLUDED OR EXCLUDED
1	00033480	MESH 1/2	EA	CASE	30	.11	2.28	3	68	.048246	76	INCLUDED
1	00061010	HEX SHC SCR FOR B2-200	EA	CASE	12	.16	2.49	2	30	.064257	225	INCLUDED
1	00061010	HEX SHCS GALV M6X16 ISO	EA	CASE	130	.06	2.28	8	296	.026316	226	INCLUDED
1	00061010	SCREW SHCSISO4762 M 6X2	EA	CASE	10	.06	2.28	1	23	.026316	227	INCLUDED
1	00061010	HEX SHC SCR M6X40	EA	CASE	88	.13	2.49	11	219	.052209	229	INCLUDED
1	00061011	HEX SHC SCR ISO4762 M6X1	EA	CASE	51	.12	2.28	6	116	.052632	232	INCLUDED
1	00061500	WASHER B64 DIN 125	EA	CASE	137	.02	2.49	3	341	.008032	239	INCLUDED
1	00061570	SPR L WASHER DIN127-B6	EA	CASE	100	.03	2.28	3	228	.013158	246	INCLUDED
1	04027872	COPPER-NICKEL TUBE OD1.3	EA	CASE	14	19.23	17.48	269	245	1.100152	274	INCLUDED
1	05609381	GASKET FOAM SEALING	EA	CASE	16	.56	.51	9	8	1.101176	457	INCLUDED
1	05609514	SCR HEX SET DIN916-M12-1	EA	CASE	22	.07	7.2	2	158	.010278	926	INCLUDED
1	05609544	SPLATTER SHIELD SGX	EA	CASE	4	33.53	30.46	134	122	1.100788	1027	INCLUDED
1	05609562	Cover Collision Protection	EA	CASE	5	20.28	297.58	101	1,488	.068150	1061	INCLUDED
1	05609574	Retaining Ring External, 5	EA	CASE	6	.39	5.64	2	34	.069149	1096	INCLUDED
1	2243847	SPRINGS R-83	EA	CASE	4	2.99	2.71	12	11	1.101857	1856	INCLUDED
1	41V43	CAP AY TOR LONG HW-9	EA	CASE	39	3.95	3.45	154	134	1.146589	1956	INCLUDED
1	52425	STRAIN RELIEF SEALED 5/16	EA	CASE	29	.46	8.71	13	252	.052607	2033	INCLUDED
1	61341115	SCR 10001 STLZPC 0.312-18	EA	CASE	44	.14	.13	6	6	1.100629	2240	INCLUDED
1	73010001	CABLE WELDING COPPER #1	EA	CASE	200	1.53	1.39	306	278	1.101829	2380	INCLUDED
1	828243	SPR .41 X .28D .88L .47H 7	EA	CASE	13,500	.16	4.14	2,160	55,952	.038604	2635	INCLUDED
1	995631	CAPC FILM ***0.27***UF *8	EA	BOX	2	.09	6.39	0	13	.014081	3336	INCLUDED
1	835N81	TUBE 0.133X.020WX*0.75L	EA	BOX	16	.	.13	0	2	.019877	3767	INCLUDED
1	05609568	Cable, 40m, 3 Pos. Shided	EA	BOX	5	91.99	83.56	460	418	1.100886	4359	INCLUDED
1	05610068	Pinion Screw	EA	BOX	93	.09	8.98	8	835	.010022	4483	INCLUDED



Reports: Internal Index Calculation Statistics (Report 29)

- Item Count & Match Stats:
 - Data input sheet(s) item row count
 - Items included in index calculation
 - Items with no PY cost (new items)
 - New vs. preexisting item % of total
 - Items w/ missing CY cost only
 - Items missing both CY & PY cost
- Inflation & Deflation Outliers: Items with CY vs. PY item cost greater than user defined inflation or deflation percentage
- Exclusions & Adjustments: shows balances of items where user-defined item cost settings were applied to the following types of items:
 - New items
 - Items w/ missing CY cost only
 - Items w/ missing CY & PY cost

Sample Company Internal Indexes		9/17/2020 2:21:16 PM				
INTERNAL INDEX CALCULATION STATISTICS REPORT 29						
FOR THE PERIOD ENDED: 12/31/2020						
Calculation scenario name: Q4 2020 Final Calculation						
Pool #	Pool Name/Statistic Description	Item Count	CY Ext Cost	PY Ext Cost	% of CY Pool Total	Pool Inflation Index
Item Count & Match Stats						
Pool: 1 Location A						
1	Rows read from current year data file	89,179	80,120,969	58,937,865	100.0%	1.359414
1	Items with 0 Quantity on Hand	0				
1	Items included in index calculation before item cost settings applied	89,179	80,120,969	58,937,865	100.0%	1.359414
1	Items with missing current & prior year item cost	3,668				
1	Items with missing CY item cost & PY item cost not missing	0				
1	Items for which there is no prior year item cost (new items)	21,693	18,279,282		22.8%	
1	Items for which a prior year item cost exists	63,818	61,841,687	58,937,865	77.2%	1.049269
1	Items for which both a current & prior year item cost exists	63,818	61,841,687	58,937,865	77.2%	1.049269
1	New items PY item cost set = to CY item cost	21,693	18,279,282	18,279,282	22.8%	1.000000
	Items included in inflation calculation	85,511	80,120,969	77,217,147	100.0%	1.037606
Item Cost Inflation & Deflation Outlier Stats						
Pool: 1 Location A						
1	Greater than 30% Inflation Outliers	4,412	4,769,107	3,255,665	6.0%	1.464864
1	Greater than 30% Deflation Outliers	1,329	492,943	1,136,586	0.6%	.433705
	Pool: 1 Location A Item Cost Inflation & Deflation Outlier Totals	5,741	5,262,050	4,392,251	6.6%	1.198031
Exclusions & Adjustments Made to Row 50 PBC Balances to Calculate Pool Indexes						
Pool: 1 Location A						
1	Preexisting items with QOH and CY & PY item cost > 0	63,818	61,841,687	58,937,865	77%	1.049269
1	Add new items for which PY item cost set = to CY item cost	21,693	18,279,282	18,279,282	23%	1.000000
1	Pool: 1 Location A Pool totals & index that tie to Reports 27 & 27b	85,511	80,120,969	77,217,147	100%	1.037606



Reports: Internal Index Current Year Index by Class Summary (Report 30)

- Optional report showing current year index by user-defined class for preexisting items (i.e. non-new items)
- Examples of product classes include category, department, product groups/lines, profit centers, material types or stage of production
- Also used to reconstruct new item prior/base year item cost using the following steps (if user selects this setting):
 - Current year index by class calculated for preexisting items in Report 30
 - New item's current year index is set equal to the matching class' preexisting item current year index
 - **New item prior/base year item cost = CY item cost ÷ matching class' preexisting item current year index**
- Requires user to include one of the following fields within their data input sheet (both fields can be used if desired):
 - Class code or number
 - Class description or name
- Indexes calculated by pool & in total
- User can concatenate multiple class fields into a single cell to include multiple classes within this report

Sample Company Internal Indexes					9/17/2020 2:21:23 PM	
CURRENT YEAR INDEX BY INVENTORY CLASS SUMMARY REPORT 30						
FOR THE PERIOD ENDED: 12/31/2020						
Calculation scenario name: Q4 2020 Final Calculation						
Data path:Y:\LIFOPRO1\SAMPLE INTERNAL INDEX CALCULATION\LINKCHAIN\						
CLASS NUMBER	CLASS DESCRIPTION	QOH	CY EXT COST	PY EXT COST	CY INFLATION INDEX	% OF CY EXT COST TOTAL BALANCE
Pool: 1 Location A						
110	7*SIP	1,035	954,940	967,155	.987371	1.2%
301	6*Gap App/Man Plasma	1,927	1,400,792	1,456,706	.961616	1.7%
399	5*Std Equipment	3,206	8,184,420	7,539,284	1.085570	10.2%
508	1*Cutting Automation	1,907	1,162,464	1,165,690	.997232	1.5%
521	2*OEM Business Cutting	545	403,599	391,378	1.031226	.5%
561	3*Aftermarket Cutting	3,777	4,145,399	4,117,438	1.006791	5.2%
610	8*Std Automation	925	884,211	923,957	.956983	1.1%
620	9*Engineering	234	215,885	215,837	1.000222	.3%
761	New JDE	13,102	23,785,457	22,458,241	1.059097	29.7%
FG	Finish Good	60	780,134	780,134	1.000000	1.0%
P110002	Cored wire	1	282	248	1.135455	.0%
P110003	Solid wire	2	157	157	1.000000	.0%
P110005	Other filler metals	5	7,840	7,953	.985715	.0%
P120003	PPE	34	37,316	27,892	1.337850	.0%
P120004	MIG/TIG	4,615	2,869,414	2,812,605	1.020198	3.6%
P120005	Power Sources	2,304	1,390,504	1,301,256	1.068586	1.7%
P130001	Steel industry products	715	640,299	657,108	.974420	.8%
P140001	Engineered Welding	189	121,543	118,183	1.028427	.2%
P150001	Cutting Automation	48	78,272	76,971	1.016908	.1%
P150002	OEM Business Cutting	359	324,829	315,811	1.028555	.4%
P150003	After Market Cutting	1,365	630,703	618,733	1.019345	.8%
P160001	Others	27,846	15,491,957	15,218,105	1.017995	19.3%
P170001	Gas Equipment	15,047	12,024,057	11,573,374	1.038941	15.0%
P170002	Plasma Cutting	5,741	4,005,142	3,857,913	1.038163	5.0%
P170003	Gouging and Exo Cutting	519	581,354	615,016	.945266	.7%
Extensions total of pool Location A		85,508	80,120,969	77,217,147	1.037606	100.0%



Reports: LIFO Calculation Summary (Report 18)

- Provides all amounts required to record LIFO-related general ledger journal & tax return entries
- One sheet for each period closed, providing for all prior period's results to be viewed/printed or saved to Excel

Current Year End Report 18 (Last Period Closed)

Sample Company Internal Indexes		9/21/2020 7:59:17 PM							
ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18									
12/31/2020		Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\							
POOL NO.	POOL NAME	12/31/2020 CURRENT YEAR COST	12/31/2020 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	12/31/2020 LIFO INVENTORY	12/31/2019 LIFO RESERVE	12/31/2020 LIFO RESERVE	12/31/2020 LIFO EXPENSE
1	Location A	80,120,969	1.037606	1.094968	1.094968	75,200,374	4,920,595	2,483,293	2,437,302
2	Location B	18,600,745	1.042908	1.111806	1.111806	17,255,730	1,345,015	794,735	550,280
3	Location C	9,039,021	1.162164	1.109278	1.109278	8,413,639	625,383	-260,428	885,811
4	Location D	6,393,751	1.069558	1.313903	1.313903	5,313,607	1,080,144	703,007	377,137
	Totals	114,154,486	1.049134			106,183,350	7,971,137	3,720,607	4,250,530

Prior Year End Report 18

Sample Company Internal Indexes		9/21/2020 7:59:17 PM							
ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18									
12/31/2019		Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\							
POOL NO.	POOL NAME	12/31/2019 CURRENT YEAR COST	12/31/2019 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	12/31/2019 LIFO INVENTORY	12/31/2019 LIFO RESERVE	12/31/2018 LIFO RESERVE	12/31/2019 LIFO EXPENSE
1	Location A	64,811,679	1.013516	1.055283	1.055283	62,328,386	2,483,293	1,669,304	813,989
2	Location B	12,824,665	.994655	1.066063	E 1.066063	12,029,930	794,735	936,186	-141,451
3	Location C	5,462,436	.964651	.954493	E .954493	5,722,864	-260,428	-77,642	-182,786
4	Location D	5,421,915	.948432	1.228454	E 1.228454	4,718,908	703,007	997,806	-294,799
	Totals	88,520,695	1.003406			84,800,088	3,720,607	3,525,655	194,952



Reports: LIFO Inventory History Schedule (Report 16)

Report 16 provides one sheet per pool LIFO history carryforward for all years, including all pools combined format

Pool 1 (Single Pool format)

Sample Company Internal Indexes												9/21/2020 5:13:46 PM	
LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2020 REPORT 16													
Pool: 1 Location A Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\													
PERIOD	YEAR COST	CUR. YR.	CUMLTV.	INVENTORY	INC(DEC)	CUMLTV.	PRICED INC(DEC)	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST	
		DEFLATOR INDEX	DEFLATOR INDEX	AT BASE PRICES	AT BASE PRICES	INFLATOR INDEX							
12/31/2011	11,199,769	1.000000	1.000000	11,199,769	11,199,769	1.000000	11,199,769	11,199,769	0	0	10,185,891	10,185,891	
12/31/2012	11,199,769	1.013543	1.013543	11,050,115	-149,654	1.000000	-149,654	11,050,115	149,654	149,654	0	0	
12/31/2013	11,199,769	1.065410	1.079839	10,371,702	-678,413	1.000000	-678,413	10,371,702	828,067	678,413	0	0	
12/31/2014	10,835,272	.985103	1.063753	10,185,891	-185,810	1.000000	-185,810	10,185,891	649,381	-178,687	0	0	
12/31/2015	62,060,141	.954157	1.014987	61,143,778	50,957,887	1.014987	51,721,594	61,907,485	152,656	-496,725	45,664,411	46,348,784	
12/31/2016	59,052,937	1.000847	1.015846	58,131,751	-3,012,028	1.014987	-3,057,169	58,850,316	202,621	49,965	0	0	
12/31/2017	61,021,886	1.026546	1.042814	58,516,575	384,824	1.042814	401,300	59,251,616	1,770,270	1,567,649	0	0	
12/31/2018	60,221,633	.998462	1.041209	57,838,163	-678,412	1.030772	-699,287	58,552,329	1,669,304	-100,966	0	0	
12/31/2019	64,811,679	1.013516	1.055283	61,416,405	3,578,242	1.055283	3,776,057	62,328,386	2,483,293	813,989	0	0	
12/31/2020	80,120,969	1.359414	1.434566	55,850,302	-5,566,103	1.040892	-5,793,711	56,534,675	23,586,293	21,103,000	0	0	
				55,850,302		1.012254	56,534,675		23,586,293		55,850,302	56,534,675	

All Pools Combined Format

Sample Company Internal Indexes												9/21/2020 5:13:46 PM	
LIFO INVENTORY HISTORY SCHEDULE FOR 12/31/2011 BASE YEAR THROUGH 12/31/2020 REPORT 16													
All Pools Combined Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\													
PERIOD	YEAR COST	CUR. YR.	CUMLTV.	INVENTORY	INC(DEC)	CUMLTV.	PRICED INC(DEC)	LIFO INVENTORY	LIFO RESERVE	LIFO EXPENSE	LAYER AT BASE	LAYER AT COST	
		DEFLATOR INDEX	DEFLATOR INDEX	AT BASE PRICES	AT BASE PRICES	INFLATOR INDEX							
12/31/2011	48,436,465		1.000000	48,436,465	48,436,465	1.000000	48,436,465	48,436,465	0	0	24,770,296	24,770,296	
12/31/2012	35,893,449	.991527		36,200,163	-12,236,302	.999958	-12,235,783	36,200,682	-307,233	-307,233	0	0	
12/31/2013	42,791,339	1.016742		42,407,715	6,207,552	.999916	6,207,033	42,407,715	383,624	690,857	5,722,864	5,722,864	
12/31/2014	35,283,052	1.012350		34,301,296	-8,106,420	1.000375	-8,109,462	34,298,253	984,799	601,175	30,002	29,852	
12/31/2015	86,021,962	.966211		84,797,461	50,496,165	1.015170	51,262,173	85,560,427	461,535	-523,263	47,652,272	48,366,437	
12/31/2016	81,772,438	1.004582		80,244,006	-4,553,455	1.009784	-4,598,005	80,962,422	810,016	348,481	0	0	
12/31/2017	94,025,326	1.022196		90,092,751	9,848,746	1.057169	10,411,792	91,374,213	2,651,113	1,841,096	1,781,134	2,072,412	
12/31/2018	90,133,894	1.011004		85,286,811	-4,805,940	.991684	-4,765,974	86,608,239	3,525,655	874,542	47,998	62,169	
12/31/2019	88,520,695	1.003406		83,582,808	-1,704,004	1.061119	-1,808,151	84,800,088	3,720,607	194,952	3,578,242	3,776,057	
12/31/2020	114,154,486	1.049134		102,916,995	19,334,188	1.105982	21,383,262	106,183,350	7,971,137	4,250,530	19,334,188	21,383,262	
				102,916,995		1.031738	106,183,350		7,971,137		102,916,995	106,183,350	



Reports: LIFO Reserve Calculation (Report 18a)

- Shows math used to calculate all LIFO variables, including decrements & LIFO expense (income) components
- One sheet for each period closed, providing for all prior period's results to be viewed/printed or saved to Excel

Sample Company Internal Indexes		9/21/2020 8:02:31 PM					
CALCULATION OF LIFO RESERVE REPORT 18a							
12/31/2019							
Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\							
Pool number		1	2	3	4		
Pool name	Row Formula/Source	Location A	Location B	Location C	Location D	TOTALS/AVG.	
Current-year cost	7 Inventory total	64,811,679	12,824,665	5,462,436	5,421,915	88,520,695	
Current year deflator index	8 Pool index calculated	1.013516	.994655	.964651	.948432	1.003405	
Prior year cumulative deflator index	9 Layer history Report 16	1.041209	1.071792	.989470	1.295247		
Current year cumulative deflator index	10 Row 8 times Row 9	1.055283	1.066063	.954493	1.228454		
Current year inventory at base	11 Row 7 divided by Row 10	61,416,405	12,029,930	5,722,864	4,413,608	83,582,808	
Prior year inventory at base	12 Layer history Report 16	57,838,163	14,448,666	7,887,740	5,112,242	85,286,811	
Increase(decrease) at base	13 Row 11 minus Row 12	3,578,242	-2,418,736	-2,164,876	-698,634	-1,704,004	
Current year cumulative inflator index	14 Same as Row 10 for increment	1.055283	n/a	n/a	n/a		
Increase(decrease) in LIFO cost	15 13 x 14; Row 34 for decrement	3,776,057	-2,519,846	-2,159,459	-904,904	-1,808,151	
Prior year LIFO inventory	16 Layer history Report 16	58,552,329	14,549,776	7,882,323	5,623,812	86,608,239	
Current year LIFO inventory	17 Row 15 plus Row 16	62,328,386	12,029,930	5,722,864	4,718,908	84,800,088	
Current year LIFO reserve	18 Row 7 minus Row 17	2,483,293	794,735	-260,428	703,007	3,720,607	
Prior year LIFO reserve	19 Layer history Report 16	1,669,304	936,186	-77,642	997,806	3,525,655	
Current year LIFO expense(income)	20 Row 18 minus Row 19	813,989	-141,451	-182,786	-294,799	194,952	
Detail of decrements calculation:							
Decrease at base by year:	23						
	24 Report 16a		-2,294,160 17	-514,467 17	-698,634 18		
	25 Report 16a		-124,576 11	-1,650,409 13			
	26 Sum of rows 24 to 25		-2,418,736	-2,164,876	-698,634		
Cumulative inflator indexes for decrement	27						
	28 Report 16a		1.044073 17	.989470 17	1.295247 18		
	29 Report 16a		1.000000 11	1.000000 13			
Average index for decrement	30 Weighted avg. index of rows 28 to 29		1.041803	.997498			
Decrease at LIFO cost by year:	31						
	32 Report 16a		-2,395,270 17	-509,050 17	-904,904 18		
	33 Report 16a		-124,576 11	-1,650,409 13			
	34 Sum of rows 32 to 33		-2,519,846	-2,159,459	-904,904		
Proof of current year LIFO expense(income):							
Current year inflation(deflation)	36 Row 8 minus one as a percentage	1.35%	-.53%	-3.53%	-5.16%	.34%	
Prior year current-year cost	37 Layer history Report 16	60,221,633	15,485,962	7,804,681	6,621,618	90,133,894	
C/Y expense(income) due to inflation	38 Row 36 times Row 37	813,989	-82,772	-275,885	-341,463	113,869	
C/Y cum. def. index minus avg. index of layers eroded	39 Row 10 - Row 30 (pools w/decr only)	n/a	.024260	-.043005	-.066793		
Expense(income) due to layer erosions	40 Row 13 * Row 39 (pools w/decr only)	n/a	-58,679	93,099	46,664	81,084	
Total current year LIFO expense(income)	41 Row 38 plus Row 40(ties to Row 20)	813,989	-141,451	-182,786	-294,799	194,952	



Reports: LIFO Expense & Income Components (Report 19)

Report 19 shows the breakdown of the inflation index & layer erosion effect components that make up the total LIFO expense (income) for any given pool and/or year. The layer erosion effect LIFO income pre-tax amount that is required by GAAP to be disclosed in the notes to the financial statements for financial reporting purposes if material.

REPORT 19 (LIFO Provision Breakdown)

Edit Save Report 19 as Excel File Help

Zoom % 100 F20

	A	B	C	D	E	F
1	ABC Corporation		8/10/2020 3:16:42 PM			
2	BREAKDOWN OF LIFO EXPENSE COMPONENTS REPORT 19					
3	LIFO SUMMARY FOR 12/31/2018					
4						
5	Data path:Y:\LIFOPRO1\SAMPLE IPIC CALCULATION\LPDataFiles\OnLIFO\LPDataFiles\					
6						
7						
8	-----POOL-----		INFLATION	LAYER	TOTAL	
9	NO.	NAME	EFFECT	EROSION	LIFO	
				EFFECT	EXPENSE	
10	1	Mechanical Tubing	4,269,234	0	4,269,234	
11	2	Boiler (pressure) Tubing	35,507	-14,211	21,297	E
12	3	Pipe	1,333,329	-488,049	845,281	E
13	4	Valves & Fittings	195,053	-97,201	97,852	E
14	5	Stainless Pipe & Tubing	1,665,697	0	1,665,697	
15	6	Stainless Valve & Fittings	18,868	0	18,868	
16	7	Aluminum Pipe & Tubing	51,767	-7,129	44,639	E
17	8	Aluminum Valve & Fittings	874	15	889	E
18	9	Cold finished bar	331,055	-7,912	323,143	E
19		TOTAL	7,901,384	-614,485	7,286,899	
20	E-Layer erosion.					

REPORT 19 (LIFO Provision Breakdown)

Edit Save Report 19 as Excel File Help

Zoom % 100 I9

	A	B	C	D	E	F	G
1	ABC Corporation		8/10/2020 3:24:10 PM				
2	BREAKDOWN OF LIFO EXPENSE COMPONENTS REPORT 19						
3	ALL POOLS						
4							
5	Data path:Y:\LIFOPRO1\SAMPLE IPIC CALCULATION\LPDataFiles\OnLIFO\LPDataFiles\						
6							
7							
8			INFLATION	LAYER	TOTAL		
			EFFECT	EROSION	LIFO		
				EFFECT	EXPENSE		
9	YEAR						
10	6/30/2011		0	0	0		
11	12/31/2011		-462,141	0	-484,034		
12	12/31/2012		-1,495,306	0	-1,495,306		
13	12/31/2013		-666,960	0	-666,960		
14	12/31/2014		349,479	0	349,479		
15	12/31/2015		-299,396	0	-299,396		
16	12/31/2016		-5,786,187	0	-5,786,146		
17	12/31/2017		2,760,116	-53,281	2,706,874		
18	12/31/2018		7,901,384	-614,485	7,286,899		
19			2,300,988	-667,766	1,611,409		



Reports: LIFO Layer History Proof (Report 16a)

Report 16a shows the detail by layer of all decrements and the detail by layer of all layers remaining. This report is a proof of the Report 16 decrement calculations.

REPORT 16a(LIFO Layer History Proof)

Edit Save Report 16a as Excel File Help

Zoom % 100 H8

ABC Corporation
LIFO LAYER HISTORY PROOF REPORT 16a
DECREMENT & LAYERS REMAINING AS OF 12/31/2018 CALCULATION DETAIL

Pool: 1 Mechanical Tubing

LAYERS AT BASE:	6/30/2011	12/31/2011	12/31/2017	12/31/2018	At Base	Increase (Decrease)
6/30/2011	19,461,446				19,461,446	
12/31/2011		168,897			168,897	
12/31/2017			3,048,590		3,048,590	
12/31/2018				3,938,629	3,938,629	
Layer remaining	19,461,446	168,897	3,048,590	3,938,629	26,617,562	
						Inc(Dec)
Cum. inflator index	1.000000	.988603	.877300	1.065563		in LIFO
LIFO LAYERS AT COST:						Inventory
6/30/2011	19,461,446				19,461,446	
12/31/2011		166,972			166,972	
12/31/2017			2,674,528		2,674,528	
12/31/2018				4,196,858	4,196,858	
Layer remaining	19,461,446	166,972	2,674,528	4,196,858	26,499,804	

Navigation: 1 2 3 4 5 6 7 8 9

REPORT 16a(LIFO Layer History Proof)

Edit Save Report 16a as Excel File Help

Zoom % 100 A1 ABC Corporation

ABC Corporation
LIFO LAYER HISTORY PROOF REPORT 16a
DECREMENT & LAYERS REMAINING AS OF 12/31/2018 CALCULATION DETAIL

Pool: 9 Cold finished bar

LAYERS AT BASE:	6/30/2011	12/31/2011	12/31/2012	12/31/2013	12/31/2016	At Base	Increase (Decrease)
6/30/2011	2,336,390					2,336,390	
12/31/2011		175,452				175,452	
12/31/2012			241,758			241,758	
12/31/2013				311,102		311,102	
12/31/2016					307,734	307,734	
12/31/2017					-94,400	-94,400	
12/31/2018					-65,169	-65,169	
Layer remaining	2,336,390	175,452	241,758	311,102	148,165	3,212,867	
							Inc(Dec)
Cum. inflator index	1.000000	1.036700	.927001	.898798	.758701		in LIFO
LIFO LAYERS AT COST:							Inventory
6/30/2011	2,336,390					2,336,390	
12/31/2011		181,891				181,891	
12/31/2012			224,110			224,110	
12/31/2013				279,618		279,618	
12/31/2016					233,478	233,478	
12/31/2017					-71,621	-71,621	
12/31/2018					-49,444	-49,444	
Layer remaining	2,336,390	181,891	224,110	279,618	112,413	3,134,422	

Navigation: 1 2 3 4 5 6 7 8 9



Reports: LIFO Layer History Detail (Report 17)

Report 17 is a one page per pool LIFO history for all years which includes all data contained in Report 16 but also shows the remaining balance of all layers for all years.

Single Pool Format

REPORT 17 (Pool Histories)

Edit Save Report 17 to Excel File Help

Zoom % 85 J1

ABC Corporation 8/10/2020 12:10:54 PM

LIFO INVENTORY HISTORY SCHEDULE REPORT 17

Pool: 1 Mechanical Tubing

	6/30/2011	12/31/2011	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	12/31/2018
Current-year cost	19,461,446	19,406,607	19,406,607	19,406,607	19,406,607	19,406,607	15,986,464	19,896,600	28,362,691
Current yr. index	1.000000	.988603	1.000000	1.000000	1.000000	1.000000	.823764	1.077288	1.214571
Cumulative index	1.000000	.988603	.988603	.988603	.988603	.988603	.814375	.877316	1.065563
Inventory at base	19,461,446	19,630,343	19,630,343	19,630,343	19,630,343	19,630,343	19,630,343	22,678,933	26,617,562
Change at base	19,461,446	168,897	0	0	0	0	0	3,048,590	3,938,629
Cum. inflator index	1.000000	.988603	.988603	.988603	.988603	.988603	.814375	.877300	1.065563
Change at LIFO cost	19,461,446	166,972	0	0	0	0	0	2,674,528	4,196,858
LAYERS AT BASE:									
6/30/2011	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446
12/31/2011		168,897	168,897	168,897	168,897	168,897	168,897	168,897	168,897
12/31/2012			0	0	0	0	0	0	0
12/31/2013				0	0	0	0	0	0
12/31/2014					0	0	0	0	0
12/31/2015						0	0	0	0
12/31/2016							0	0	0
12/31/2017								3,048,590	3,048,590
12/31/2018									3,938,629
Totals	19,461,446	19,630,343	19,630,343	19,630,343	19,630,343	19,630,343	19,630,343	22,678,933	26,617,562
LIFO LAYERS AT COST:									
6/30/2011	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446	19,461,446
12/31/2011		166,972	166,972	166,972	166,972	166,972	166,972	166,972	166,972
12/31/2012			0	0	0	0	0	0	0
12/31/2013				0	0	0	0	0	0
12/31/2014					0	0	0	0	0
12/31/2015						0	0	0	0
12/31/2016							0	0	0
12/31/2017								2,674,528	2,674,528
12/31/2018									4,196,858
Totals	19,461,446	19,628,418	19,628,418	19,628,418	19,628,418	19,628,418	19,628,418	22,302,946	26,499,804
LIFO RESERVE	0	-221,811	-221,811	-221,811	-221,811	-221,811	-3,641,954	-2,406,346	1,862,888
LIFO EXPENSE	0	-221,811	0	0	0	0	-3,420,143	1,235,608	4,269,234

1 2 3 4 5 6 7 8 9 Combined

All Pools Combined Format

REPORT 17 (Pool Histories)

Edit Save Report 17 to Excel File Help

Zoom % 85 J1

ABC Corporation 8/10/2020 12:10:54 PM

LIFO INVENTORY HISTORY SCHEDULE REPORT 17

All Pools Combined

	6/30/2011	12/31/2011	12/31/2012	12/31/2013	12/31/2014	12/31/2015	12/31/2016	12/31/2017	12/31/2018
Current-year cost	37,545,767	37,910,820	38,367,753	38,794,803	39,423,637	39,256,453	35,720,785	43,182,306	52,051,246
Current yr. index		.987271	.956784	.981423	1.009272	.992147	.849609	1.079418	1.190407
Cumulative index									
Inventory at base	37,545,767	38,399,620	40,624,992	41,940,926	42,268,809	42,430,754	45,713,300	50,723,101	51,981,216
Change at base	37,545,767	853,853	2,225,372	1,315,934	327,883	161,945	3,282,546	5,009,801	1,258,115
Cum. inflator index									
Change at LIFO cost	37,545,767	849,087	1,952,240	1,094,009	279,356	132,212	2,250,478	4,754,647	1,582,041
LAYERS AT BASE:									
6/30/2011	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	36,655,591
12/31/2011		853,853	853,853	853,853	853,853	853,853	853,853	698,373	698,373
12/31/2012			2,225,372	2,225,372	2,225,372	2,225,372	2,225,372	2,225,372	2,225,372
12/31/2013				1,315,934	1,315,934	1,315,934	1,315,934	1,315,934	1,315,934
12/31/2014					327,883	327,883	327,883	327,883	327,883
12/31/2015						161,945	161,945	161,945	161,945
12/31/2016							3,282,546	2,316,772	1,966,555
12/31/2017								6,131,055	3,048,590
12/31/2018									5,580,974
Totals	37,545,767	38,399,620	40,624,992	41,940,926	42,268,809	42,430,754	45,713,300	50,723,101	51,981,216
LIFO LAYERS AT COST:									
6/30/2011	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	37,545,767	36,655,591
12/31/2011		849,087	849,087	849,087	849,087	849,087	849,087	692,351	692,351
12/31/2012			1,952,240	1,952,240	1,952,240	1,952,240	1,952,240	1,952,240	1,952,240
12/31/2013				1,094,009	1,094,009	1,094,009	1,094,009	1,094,009	1,094,009
12/31/2014					279,356	279,356	279,356	279,356	279,356
12/31/2015						132,212	132,212	132,212	132,212
12/31/2016							2,250,478	1,593,319	1,328,918
12/31/2017								5,568,542	2,674,528
12/31/2018									5,630,632
Totals	37,545,767	38,394,854	40,347,094	41,441,103	41,720,459	41,852,671	44,103,149	48,857,796	50,439,837
LIFO RESERVE	0	-484,034	-1,979,341	-2,646,300	-2,296,822	-2,596,218	-8,382,364	-5,675,490	1,611,409
LIFO EXPENSE	0	-484,034	-1,495,306	-666,960	349,479	-299,396	-5,786,146	2,706,874	7,286,899

1 2 3 4 5 6 7 8 9 Combined



Reports: LIFO Projections (Report 1)

- Report 1 shows an array of LIFO expense (income) amounts that would result for the next period to be closed based on a user-defined range of inventory balances at cost (i.e. FIFO, average/standard cost, EAC) & inflation/deflation indexes
- User can also define first inventory/index value to be included on report
- Increments between inventory balances & indexes can also be modified by the user
- Minimum balances required to avoid LIFO layer erosions is shown at bottom of report for each index displayed
- One page per pool report

Sample Company	Internal Indexes														9/25/2020 6:09:06 PM	
LIFO PROJECTION	REPORT FOR RANGE OF FIFO INVENTORY VALUES & INDEXES														REPORT 1	
PROJECTION FOR	12/31/2021	For Pool 1 Location A														
CURRENT-YEAR COST VALUES	-----LIFO EXPENSE (INCOME) USING INDEXES ON FOLLOWING ROW-----															
	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	
40,000,000	-4,212,880	-3,797,670	-3,391,110	-2,992,933	-2,602,882	-2,220,711	-1,846,183	-1,479,072	-1,119,159	-766,234	-420,097	-80,552	252,585	579,496	900,354	
45,000,000	-4,143,497	-3,676,386	-3,219,006	-2,771,057	-2,332,250	-1,902,307	-1,480,964	-1,067,963	-663,061	-266,021	123,384	505,371	880,151	1,247,926	1,608,890	
50,000,000	-4,074,115	-3,555,102	-3,046,903	-2,549,181	-2,061,618	-1,583,904	-1,115,744	-656,855	-206,964	234,192	666,864	1,091,294	1,507,717	1,916,355	2,317,427	
55,000,000	-4,004,732	-3,433,819	-2,874,799	-2,327,306	-1,790,986	-1,265,500	-750,525	-245,747	249,134	734,405	1,210,344	1,677,218	2,135,282	2,584,785	3,025,963	
60,000,000	-3,953,708	-3,312,535	-2,702,695	-2,105,430	-1,520,353	-947,097	-385,306	165,362	705,231	1,234,618	1,753,824	2,263,141	2,762,848	3,253,214	3,734,500	
65,000,000	-4,148,936	-3,421,052	-2,708,333	-2,018,959	-1,359,962	-714,279	-81,510	538,730	1,146,809	1,734,831	2,297,305	2,849,064	3,390,413	3,921,644	4,443,036	
70,000,000	-4,468,085	-3,684,210	-2,916,666	-2,164,948	-1,428,571	-707,070	0	693,070	1,372,550	2,038,835	2,692,308	3,312,229	3,918,366	4,513,172	5,096,964	
75,000,000	-4,787,233	-3,947,368	-3,124,999	-2,319,587	-1,530,612	-757,575	0	742,575	1,470,589	2,184,467	2,884,616	3,571,429	4,245,284	4,906,543	5,555,556	
80,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	792,080	1,568,628	2,330,098	3,076,924	3,809,524	4,528,302	5,233,645	5,925,926	
85,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,560,748	6,296,297	
90,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
95,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
100,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
105,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
110,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
115,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
120,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
125,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
130,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
135,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
140,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
145,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
150,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
155,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
160,000,000	-4,807,258	-4,006,048	-3,204,838	-2,403,629	-1,602,419	-801,209	0	801,210	1,602,420	2,403,630	3,204,839	4,006,049	4,807,259	5,608,468	6,409,678	
Actual FIFO balance at 12/31/2020 year end: 80,120,969																
Actual current year LIFO index for 12/31/2020 year end: 1.038																
Actual LIFO reserve balance at 12/31/2020 year end: 4,920,595																
12/31/2021 Minimum FIFO balance required to avoid LIFO layer erosions:																
	75,313,711	76,114,920	76,916,130	77,717,340	78,518,549	79,319,759	80,120,969	80,922,178	81,723,388	82,524,598	83,325,807	84,127,017	84,928,227	85,729,436	86,530,646	



Reports: §263A UNICAP Costs Reports

Users can calculate §263A UNICAP costs by entering §263A absorption ratio into software

One UNICAP rate used for all pools
 One UNICAP rate used for all pools
 Multiple UNICAP rates used for at least one year
 N/A or UNICAP Costs not calculated by LIFO-PRO



LP UCC INPUT - [UNICAP RATES SCREEN FOR ABC Corporation]

LP File Edit Insert Delete Save UCC Report as Excel File

Print Exit and Save Exit and Don't Save

B14

ABC Corporation
UNICAP RATES SCREEN

Period	Rate
6/30/2011	.06158700
12/31/2011	.06158700
12/31/2012	.06158700
12/31/2013	.09871630
12/31/2014	.09871630
12/31/2015	.09871630
12/31/2016	.07131985
12/31/2017	.07131985
12/31/2018	.07131985
12/31/2019	



Sample Company Internal Indexes 9/22/2020 7:59:39 PM

ACTUAL YEAR-END LIFO SUMMARY WITH UNICAP COSTS REPORT 18

12/31/2020 Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2020 DEF LATOR INDEX	CUMLTV DEF LATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	12/31/2020 LIFO RESERVE	12/31/2019 LIFO RESERVE	12/31/2020 LIFO EXPENSE	UNICAP COSTS APPLIED
1	Location A	80,120,969	1.037606	1.094968	1.094968	75,200,374	4,920,595	2,483,293	2,437,302	1,377,994
2	Location B	18,600,745	1.042908	1.111806	1.111806	17,255,730	1,345,015	794,735	550,280	356,686
3	Location C	9,039,021	1.162164	1.109278	1.109278	8,413,639	625,383	-260,428	885,811	173,502
4	Location D	6,393,751	1.069558	1.313903	1.313903	5,313,607	1,080,144	703,007	377,137	106,476
Totals excluding UNICAP costs		114,154,486	1.049134			106,183,350	7,971,137	3,720,607	4,250,530	2,014,658
Total UNICAP costs										2,014,658
Totals including UNICAP costs						108,198,008				
UNICAP costs ratio for this year: .01865425										
12/31/2019 (last year) UNICAP costs applied 1,615,770										
12/31/2020 Increase(decrease) in UNICAP costs applied 398,889										
12/31/2020 LIFO expense(income) excluding UNICAP costs applied 4,250,530										
12/31/2020 LIFO reserve before UNICAP costs applied 7,971,137										
12/31/2020 LIFO inventory balance before UNICAP costs applied 106,183,350										

Sample Company Internal Indexes 9/22/2020 8:02:18 PM

LIFO INVENTORY HISTORY SCHEDULE WITH UNICAP COSTS FOR 12/31/2011 BASE YEAR THROUGH 12/31/2020 REPORT 16

All Pools Combined Data path:Y:\LIFOPRO1\Sample Internal Index Calculation\LinkChain\

PERIOD	CUR. YR. CURRENT YEAR COST	CUMLTV. DEF LATOR INDEX	INVENTORY AT BASE PRICES	INC(DEC) AT BASE PRICES	CUMLTV. INFLATOR INDEX	LIFO PRICED INC(DEC)	INVENTORY W/O UNICAP	UNICAP COSTS APPLIED	LIFO PLUS UNICAP	LIFO RESERVE W/O UNICAP	LIFO EXPENSE	LAYER AT BASE	LAYER COST BEFORE UNICAP	UNICAP COSTS APPLIED	LAYER INCLUDING UNICAP	
12/31/2011	48,436,465	1.000000	48,436,465	48,436,465	1.000000	48,436,465	48,436,465	021546	1,043,636	49,480,101	0	0	24,770,296	24,770,296	533,713	25,304,008
12/31/2012	35,893,449	.991527	36,200,163	-12,236,302	.999958	-12,235,783	36,200,682	021546	-263,638	36,980,680	-307,233	-307,233	0	0	0	0
12/31/2013	42,791,339	1.016742	42,407,715	6,207,552	.999916	6,207,033	42,407,715	021546	133,740	43,321,453	383,624	690,857	5,722,864	5,722,864	123,308	5,846,172
12/31/2014	35,283,052	1.012350	34,301,296	-8,106,420	1.000375	-8,109,462	34,298,253	017532	-177,168	35,034,823	984,799	601,175	30,002	29,852	523	30,376
12/31/2015	86,021,962	.966211	84,797,461	50,496,165	1.015170	51,262,173	85,560,427	017532	898,736	87,195,731	461,535	-523,263	47,652,272	48,366,437	847,967	49,214,404
12/31/2016	81,772,438	1.004582	80,244,006	-4,553,455	1.009784	-4,598,005	80,962,422	018774	-86,325	82,511,402	810,016	348,481	0	0	0	0
12/31/2017	94,025,326	1.022196	90,092,751	9,848,746	1.057169	10,411,792	91,374,213	018654	194,224	93,117,418	2,651,113	1,841,096	1,781,134	2,072,412	38,659	2,111,071
12/31/2018	90,133,894	1.011004	85,286,811	-4,805,940	.991684	-4,765,974	86,608,239	018654	-88,571	88,262,872	3,525,655	874,542	47,998	62,169	1,160	63,329
12/31/2019	88,520,695	1.003406	83,582,808	-1,704,004	1.061119	-1,808,151	84,800,088	018654	-38,863	86,415,857	3,720,607	194,952	3,578,242	3,776,057	70,440	3,846,497
12/31/2020	114,154,486	1.049134	102,916,995	19,334,188	1.105982	21,383,262	106,183,350	018654	398,889	108,198,008	7,971,137	4,250,530	19,334,188	21,383,262	398,889	21,782,150
			102,916,995	1.031738	106,183,350			018973	2,014,658			7,971,137	102,916,995	106,183,350	2,014,658	108,198,008



Consolidated Reporting (Report 18c & 18s)

- Separate LIFO calculations made for multiple entities or companies with different book & tax calculations can be consolidated into a single LIFO report by using the Consolidated Reporting Module
- User selects Report 18c button in Main Menu screen or Combined Report 18 button in Company Selection Menu screen

HISTORICAL DATA(12/31/2011 to 12/31/2020)	
LIFO Inventory History Summary (Report 16) - All years, by pool	With UNICAP
LIFO Layer History (Report 16a) - All years, by pool	With UNICAP
LIFO Inventory History Detail (Report 17) -All years, by pool	With UNICAP
Year End LIFO Calculation Summary (Report 18) -All pools, by year	With UNICAP
LIFO Reserve Calculation (Report 18a) -All pools, by year	With UNICAP
Consolidated Year End LIFO Calculation Summary (Report 18c)	With UNICAP

OR

COMPANY SELECTION MENU - [Company Selection Menu]		
Specify Top Level Data Path	Refresh Screen	Combined Report 18



REPORT 18 CONSOLIDATION SELECTION

Help

Back Run Report from Saved Companies List Exit System

Select (click on) the Folder below that includes all the Companies you want to Combine

- Y:

- LIFOPRO1
 - SAMPLE IPIC CALCULATION
 - LPDataFiles
 - Double-Extension
 - Book - - ABC CORPORATION BOOK LIFO - 12/31/2019
 - Tax - - ABC CORPORATION TAX LIFO - 12/31/2018
 - FirstYearOnLIFO - - ABC CORPORATION - 12/31/2018
 - Link-Chain
 - ➔ Sample Company Separate Book Tax
 - Book - - ABC CORPORATION BOOK LIFO - 12/31/2019
 - Tax - - ABC CORPORATION TAX LIFO - 12/31/2019
 - ➔ Sample Parent Sub
 - Parent - - PARENT CORPORATION - 12/31/2019
 - Subsidiary A - - SUBSIDIARY A CORPORATION - 12/31/2019
 - Subsidiary B - - SUBSIDIARY B CORPORATION - 12/31/2019
 - Subsidiary C - - SUBSIDIARY D CORPORATION - 12/31/2019

User selects folder containing one of the following types of subfolders:

- 1) separate Book & Tax LIFO calculations
- 2) Multiple LIFO calculations for related entities



Consolidated Reporting (Report 18c & 18s)

- Consolidated Reporting Module appears on screen listing the calculations to be combined
- User selects period to be combined & Continue button to generate consolidated reports

Consolidated Reports for Multiple Entities

Consolidated Report Year Selection - [CONSOLIDATED REPORT YEAR SELECTION]

Calculations/companies to be consolidated into a single LIFOPro report

Period that the LIFOPro report will be closed through (prior or future period may be selected)

Continue Run Consolidated Report 18

Next period to be closed

Last period closed

Last period closed minus 1

Last period closed minus 2

Last period closed minus 3

Back

Selections from list at left change years to be used for all companies listed.

Years for individual companies can be changed by clicking left spin button(<-) below for earlier year or right(>-) button for later year for the company on which the cursor is on.

If years or pools are selected that are outside of the range for which layers exist, they will be excluded from the report.

Company Name	Earliest Base Year	Latest Base Year	Last Year Closed	Next Year to be Closed	Period to be Printed	Next Year to be Closed LIFO Inputs
Parent Corporation	6/30/2011	6/30/2011	12/31/2019	12/31/2020	12/31/2019	act12_20.prn
Subsidiary A Corporation	12/1/1945	12/1/1945	12/31/2019	12/31/2020	12/31/2019	act12_20.prn
Subsidiary B Corporation	12/1/1945	12/1/1945	12/31/2019	12/31/2020	12/31/2019	act12_20.prn
Subsidiary C Corporation	6/30/2011	6/30/2011	12/31/2019	12/31/2020	12/31/2019	act12_20.prn

CONSOLIDATED REPORT YEAR SELECTION - [CONSOLIDATED REPORT 18]

Edit Save Report 18s as Excel File Help

Zoom % 80 F16 Print Report Main Menu

	A	B	C	D	E	F	G
1	COMBINED REPORT 18						
2	ACTUAL YEAR-END LIFO CALCULATION SUMMARY	REPORT 18c					
3	COMPANY TOTALS ONLY						
4							
5		CURRENT	CURRENT	THIS YEAR	PRIOR YEAR		
6		CURRENT	DEFLATOR	LIFO	LIFO	LIFO	LIFO
7	COMPANY NAME	YEAR COST	INDEX	INVENTORY	RESERVE	RESERVE	EXPENSE
8	Company A - Parent Corporation 12/31/2019	54,426,606	1.012487	51,101,399	3,325,207	2,732,653	592,554
9	Subsidiary B Corporation 12/31/2019	38,372,890	1.163882	19,391,900	18,980,990	13,735,898	5,245,093
10	Subsidiary C Corporation 12/31/2019	38,800,789	1.084741	22,037,541	16,763,248	13,735,898	3,027,350
11	Subsidiary D Corporation 12/31/2019	30,000,000	1.133031	24,232,335	5,767,665	2,245,327	3,522,338
12	Grand total	161,600,285	1.084767	116,763,174	44,837,111	32,449,776	12,387,335

Consolidated Book & Tax Reports

CONSOLIDATED REPORT YEAR SELECTION - [CONSOLIDATED REPORT 18]

Edit Save Report 18s as Excel File Help

Zoom % 80 G19 Print Report Main Menu

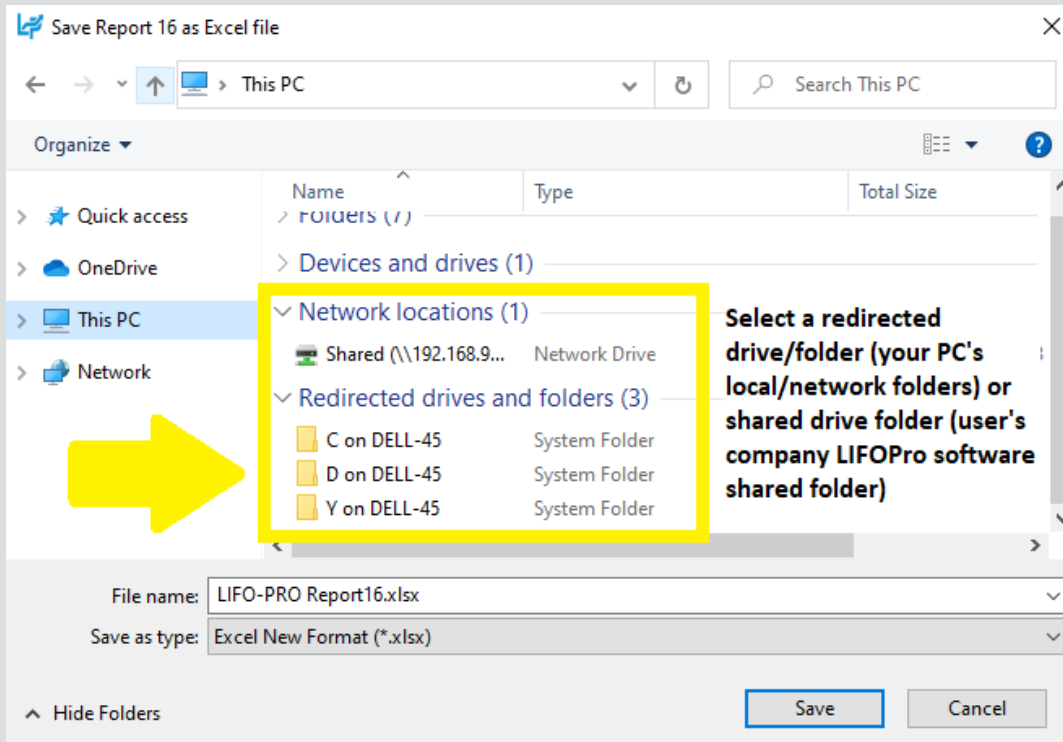
	A	B	C	D	E	F	G
1	COMBINED REPORT 18						
2	ACTUAL YEAR-END LIFO CALCULATION SUMMARY	REPORT 18c					
3	COMPANY TOTALS ONLY						
4							
5		CURRENT	CURRENT	THIS YEAR	PRIOR YEAR		
6		CURRENT	DEFLATOR	LIFO	LIFO	LIFO	LIFO
7	COMPANY NAME	YEAR COST	INDEX	INVENTORY	RESERVE	RESERVE	EXPENSE
8	ABC Corporation Book LIFO 12/31/2018	54,179,434	1.213836	51,446,781	2,732,653	-5,675,490	8,408,143
9	ABC Corporation Tax LIFO 12/31/2018	54,179,434	1.210060	36,564,032	17,615,402	9,548,437	8,066,965
10	Grand total	108,358,868	1.211945	88,010,813	20,348,055	3,872,947	16,475,108



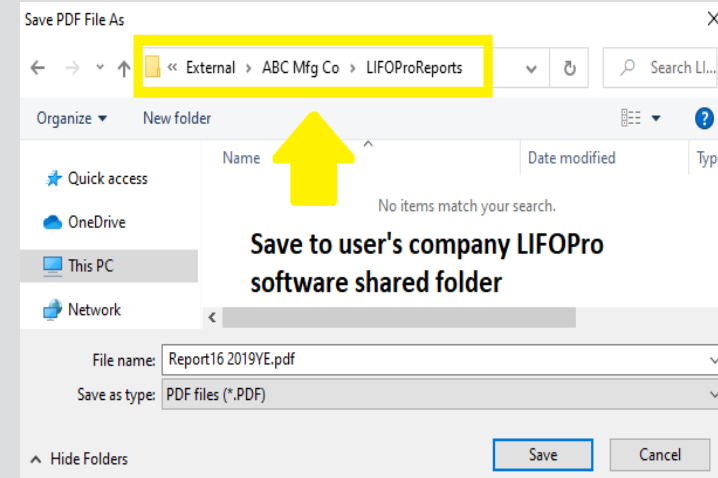
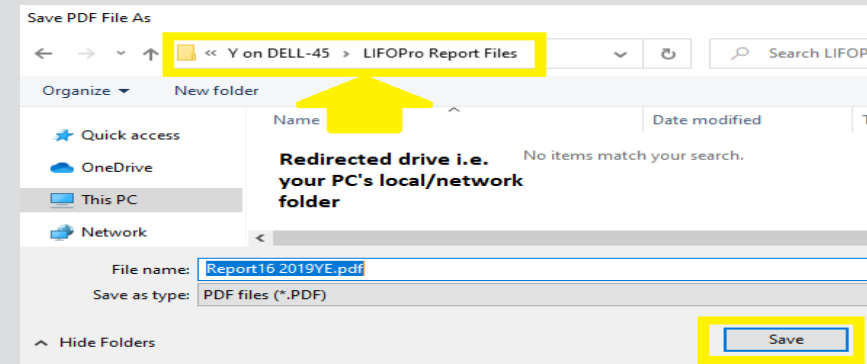
Printing & Saving Reports to User's Local Devices

- All LIFOPro reports can be printed or saved from your LIFOPro software Virtual Machine to your local printer or PC's local/network drives
- Only difference is determining the file print/save location; can save it to the following locations:
 - **Redirected drives** – these are your PC's local/network folder locations
 - **Shared drive** – user's company LIFOPro software VM shared folder

Save Reports as Excel File



Save Reports as Adobe PDF



Printing & Saving Reports: Print Drivers

- The printers available on your LIFOPro software VM can be organized into two categories:
 - **User's local/network printers** – will have the words “Redirected 1” at the end of the printer names
 - **LIFOPro software VM printers** – will NOT have the words “Redirected 1” at the end of the printer names
- The LIFOPro software VM has the Adobe PDF & Microsoft Print to PDF print drivers installed for purposes of printing/saving LIFOPro reports as Adobe PDF files
- All LIFOPro reports can be printed or saved as follows:
 - Printed to your PC's local/network printers
 - Saved to your PC's local/network folders
 - Saved to your LIFOPro software VM's shared drive

All LIFOPro software reports can be printed or saved as follows:

- 1) Printed to your PC's local/network printers
- 2) Saved to your PC's local/network drives
- 3) Saved to your company's LIFOPro software VM shared drive

Printers with "(redirected 1)" at the end of the printer name are the user's local/network printers. Printers without this designation are the LIFOPro software VM's print drivers & include the Adobe PDF & Microsoft Print to PDF print drivers that are made available for printing reports as Adobe PDF files.

Name	Classification	Device category
Printers (17)		
Adobe PDF	Printers	Printers and Faxes
Adobe PDF (redirected 1)	Printers	Printers and Faxes
Brother HL-5470DW series Printer (redirected 1)	Printers	Printers and Faxes
Brother HL-6180DW series Printer (redirected 1)	Printers	Printers and Faxes
Brother HL-L6200DW series Printer (redirected 1)	Printers	Printers and Faxes
Brother MFC-L2740DW series Printer (redirected 1)	Printers	Printers and Faxes
Fax (redirected 1)	Printers	Printers and Faxes
HP Color LaserJet 3800 (redirected 1)	Printers	Printers and Faxes
Microsoft Print to PDF	Printers	Document Writers
Microsoft Print to PDF (redirected 1)	Printers	Printers and Faxes
Microsoft XPS Document Writer	Printers	Document Writers
Microsoft XPS Document Writer (redirected 1)	Printers	Printers and Faxes
OneNote for Windows 10	Printers	Document Writers
OneNote for Windows 10 (redirected 1)	Printers	Printers and Faxes
Send To OneNote	Printers	Document Writers
Send To OneNote (redirected 1)	Printers	Printers and Faxes
Webex Document Loader (redirected 1)	Printers	Printers and Faxes

Printing & Saving Reports: Save as Excel File

All reports can be saved as Excel files by selecting any of the report buttons listed on Main Menu or Internal Index Module screens & selecting "Save Report as Excel File" command button

1. Select Save Report As Excel File Command Button

2. Select Folder location to save your LIFOPro report file & select Save Button

The screenshot shows the LIFOPro software interface for 'REPORT 18 (Year Histories)'. The 'Save Report as Excel File' button is highlighted with a yellow arrow. Below it, a 'Save As' dialog box is open, showing the file name 'ABC Corporation LIFO-PRO Report 18 for 12. 2018 year end.xlsx' and the 'Save' button highlighted in yellow.

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2018 DEFULATOR INDEX	CUMLTV DEFULATOR INDEX	CUMLTV INFLATOR INDEX	12/31/2018 LIFO INVENTORY	12/31/2018 LIFO RESERVE	12/31/2017 LIFO RESERVE	12/31/2018 LIFO EXPENSE
1	Mechanical Tubing	28,362,691	1.214571	1.065563	1.065563	26,499,804	1,862,888	-2,406,346	4,269,234
2	Boiler (pressure) Tubing	548,331	1.043055	1.047740	1.047740	523,346	24,985	3,688	21,297
3	Pipe	4,931,553	1.214617	1.086719	1.086719	4,437,882	493,671	-351,610	845,281
4	Valves & Fittings	2,930,958	1.044751	1.093840	1.093840	2,679,513	251,444	153,592	97,852
5	Stainless Pipe & Tubing	10,802,888	1.213012	0.868227	0.868227	11,322,271	-519,382	-2,185,079	1,665,697
6	Stainless Valve & Fittings	555,329	1.044909	0.931034	0.931034	580,045	-24,716	-43,584	18,868
7	Aluminum Pipe & Tubing	1,074,608	1.048077	0.793862	0.793862	1,245,233	-170,625	-215,263	44,639
8	Aluminum Valve & Fittings	17,229	1.045531	0.994626	0.994626	17,322	-93	-982	889
9	Cold finished bar	2,827,659	1.129624	0.880105	0.880105	3,134,422	-306,763	-629,906	323,143
Totals		52,051,246	1.190407			50,439,837	1,611,409	-5,675,490	7,286,899

LIFOPro Report 18 Saved as Excel File

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2018 DEFULATOR INDEX	CUMLTV DEFULATOR INDEX	CUMLTV INFLATOR INDEX	12/31/2018 LIFO INVENTORY	12/31/2018 LIFO RESERVE	12/31/2017 LIFO RESERVE	12/31/2018 LIFO EXPENSE
1	Mechanical Tubing	28,362,691	1.214571	1.065563	1.065563	26,499,804	1,862,888	-2,406,346	4,269,234
2	Boiler (pressure) Tubing	548,331	1.043055	1.047740	1.047740	523,346	24,985	3,688	21,297
3	Pipe	4,931,553	1.214617	1.086719	1.086719	4,437,882	493,671	-351,610	845,281
4	Valves & Fittings	2,930,958	1.044751	1.093840	1.093840	2,679,513	251,444	153,592	97,852
5	Stainless Pipe & Tubing	10,802,888	1.213012	0.868227	0.868227	11,322,271	-519,382	-2,185,079	1,665,697
6	Stainless Valve & Fittings	555,329	1.044909	0.931034	0.931034	580,045	-24,716	-43,584	18,868
7	Aluminum Pipe & Tubing	1,074,608	1.048077	0.793862	0.793862	1,245,233	-170,625	-215,263	44,639
8	Aluminum Valve & Fittings	17,229	1.045531	0.994626	0.994626	17,322	-93	-982	889
9	Cold finished bar	2,827,659	1.129624	0.880105	0.880105	3,134,422	-306,763	-629,906	323,143
Totals		52,051,246	1.190407			50,439,837	1,611,409	-5,675,490	7,286,899

Separate sheets saved to Excel file for all periods stored in LIFOPro software



Printing & Saving Reports: Print or Save as PDF

All reports can also be printed or saved as Adobe PDF files by selecting any of the report buttons listed on Main Menu or Internal Index Module screens & selecting gray "Print Report" button

LP REPORT 18 (Year Histories)

LP Edit Save Report 18 as Excel File Help

Zoom 85 %

1. Select Print Report button → **Print Report** Main Menu

A1 ABC Corporation

12-31-2020 12-31-2019 12-31-2018 12-31-2017 12-31-2016 12-31-2015 12-31-2014 12-31-2013 12-31-2012

ABC Corporation
8/10/2020 8:22:27 PM

ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18
12/31/2019 Data path: \\LIFOPRO1\Sample IPIC Calculation\LPDataFiles\OnLIFO\LPDataFiles\

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2019 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	12/31/2019 LIFO RESERVE	12/31/2018 LIFO RESERVE	12/31/2019 LIFO EXPENSE
1	Mechanical Tubing	28,362,691	1.214571	1.294202	E 1.294202	21,632,920	6,729,772	1,862,888	4,866,884
2	Boiler (pressure) Tubing	548,331	1.043055	1.092851	E 1.092851	501,743	46,587	24,985	21,603
3	Pipe	4,931,553	1.214617	1.319947	E 1.319947	3,735,288	1,196,265	493,671	702,594
4	Valves & Fittings	2,930,958	1.044751	1.142790	E 1.142790	2,564,739	366,219	251,444	114,775
5	Stainless Pipe & Tubing	10,802,888	1.213012	1.053169	E 1.053169	9,567,294	1,235,594	-519,382	1,754,976
6	Stainless Valve & Fittings	555,329	1.044909	.972846	E .972846	556,177	-848	-24,716	23,867
7	Aluminum Pipe & Tubing	1,074,608	1.048077	.832028	E .832028	1,202,456	-127,848	-170,625	42,777
8	Aluminum Valve & Fittings	17,229	1.045531	1.039912	E 1.039912	16,568	661	-93	754
9	Cold finished bar	Print					3,844	-306,763	310,607
	Totals						9,450,246	1,611,409	7,838,837

2. Select the printer you'd like to print to or select your PDF print driver to save as an Adobe PDF file

3. Select OK button

Printer Name: HP Color LaserJet 3800
Status: **Adobe PDF**
Type: Brother HL-5470DW series Printer
Where: Brother HL-6180DW series Printer
Comment: Brother HL-L6200DW series Printer
Brother MFC-L2740DW series Printer
Fax
HP Color LaserJet 3800
Print Range: Microsoft Print to PDF
Microsoft XPS Document Writer
OneNote (Desktop)
OneNote for Windows 10
Webex Document Loader
Copies: 1
Collate:
Print What: Selected Sheet(s)
 Entire Workbook

OK Cancel Preview

LIFOPro Report 18 Saved as Adobe PDF File

Report18.pdf - Adobe Acrobat Pro DC

ABC Corporation
8/10/2020 8:33:33 PM

ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18
12/31/2019 Data path: Y:\LIFOPRO1\SAMPLE IPIC CALCULATION\LPDataFiles\OnLIFO\LPDataFiles\

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2019 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	12/31/2019 LIFO RESERVE	12/31/2018 LIFO RESERVE	12/31/2019 LIFO EXPENSE
1	Mechanical Tubing	28,362,691	1.214571	1.294202	E 1.294202	21,632,920	6,729,772	1,862,888	4,866,884
2	Boiler (pressure) Tubing	548,331	1.043055	1.092851	E 1.092851	501,743	46,587	24,985	21,603
3	Pipe	4,931,553	1.214617	1.319947	E 1.319947	3,735,288	1,196,265	493,671	702,594
4	Valves & Fittings	2,930,958	1.044751	1.142790	E 1.142790	2,564,739	366,219	251,444	114,775
5	Stainless Pipe & Tubing	10,802,888	1.213012	1.053169	E 1.053169	9,567,294	1,235,594	-519,382	1,754,976
6	Stainless Valve & Fittings	555,329	1.044909	.972846	E .972846	556,177	-848	-24,716	23,867
7	Aluminum Pipe & Tubing	1,074,608	1.048077	.832028	E .832028	1,202,456	-127,848	-170,625	42,777
8	Aluminum Valve & Fittings	17,229	1.045531	1.039912	E 1.039912	16,568	661	-93	754
9	Cold finished bar	2,827,659	1.129624	.994187	E .994187	2,823,814	3,844	-306,763	310,607
	Totals	52,051,246	1.190407			42,601,000	9,450,246	1,611,409	7,838,837



Printing & Saving Reports: Automated Report Printing & Saving

Multiple reports including cover sheet & table of contents can be printed or saved within a single screen

MAIN MENU

Specify Top Level Data Path **Print Standard Reports Automatically**

ABC Corporation

Data Path = Y:\LIFOPRO1\Sample IPIC Calculation\LPDataFiles\OnLIFO\LP

COMPANY SELECTION

Select different company



MAIN MENU - [Cover Sheet]

Save as Excel File Help Reset Defaults

Save Settings Update Cover Sheet Print Cover Sheet & TOC Only Main Menu

1. Select Reports to print/save

SELECT REPORTS TO PRINT OR SAVE

- Report 18
- Report 18a
- Report 18a-SP
- Report 16
- Report 16a
- Report 17
- Report 19
- IPIC Reports
- Report 25
- Report 26-CP1
- Report 26-PPI
- Report 1 - SP

COVER SHEET SETTINGS

Rept Type: NONE

Row 2: LIFO Reports For

Row 3: ABC Corporation

Row 4: For year ended 12/31/2018

Row 9: (Appropriate Month Dec 2018/Dec 2017)

Row 12:

Row 13:

Row 14:

Row 15:

Row 16:

Row 17:

Row 20: Prepared by:

Row 21: LIFO-PRO, Inc.

Row 22: 11620 Arbor Street, Suite 100

Row 23: Omaha, NE 68144

Row 25: (402) 330-8573

Row 26: (877) 848-6583 Fax

Row 28: EMAIL: lifopro@lifopro.com

Row 29: Website: www.lifopro.com

2. Preview report cover sheet & table of contents (optional)

Save Reports to Excel

Print Data Path on Reports

Enter Report Prefix if any: _____

DO NOT CREATE COVER SHEET & TOC

Print Selected Reports

3. Choose to print to printer, Adobe PDF file or save to Excel file

LIFO Reports For
ABC Corporation
For year ended 12/31/2018

(Appropriate Month Dec 2018/Dec 2017)

Prepared by:
LIFO-PRO, Inc.
11620 Arbor Street, Suite 100
Omaha, NE 68144

(402) 330-8573
(877) 848-6583 Fax

EMAIL: lifopro@lifopro.com
Website: www.lifopro.com

July 7, 2020

LIFOPRO



Printing & Saving Reports: Table of Contents

- Table of Contents will be created based on report check boxes selected on left side of Auto Report Print Screen
- User selects desired reports to include in Table of Contents, selects update & “TOC” sheet to view
- TOC sheet will print w/ cover sheet & selected reports automatically upon selecting Print Reports button

MAIN MENU - [Cover Sheet]

Save as Excel File Help Reset Defaults

Update Cover Sheet Print Cover Sheet & TOC Only Main Menu

1. Select reports you want to print /save

2. Select Update Cover Sheet button after selecting the reports you want to print/save

3. Table of Contents sheet displayed on right side of screen will now include descriptions of all reports selected on left side of screen

COVER SHEET SETTINGS

Rept Type: NONE

Row 2:

Row 3: Sample Company Internal Indexes

Row 4:

Row 6: excluding Sec. 263A costs

Row 7:

Row 9: Using Internal Indexes

Row 12:

Row 13:

Row 14:

Row 15:

Row 16:

Row 17:

Row 20:

Row 21:

Row 22:

Row 23:

Row 25:

Row 26:

Row 28:

Row 29:

Print Reports with UNICAP Costs

Save Reports to Excel

Print Data Path on Reports

DO NOT CREATE COVER SHEET & TOC

Print Selected Reports

LIFO-PRO Reports Table of Contents

Actual Year End LIFO Summary Report (Report 18) - Shows summary information for each pool & in total for the current & previous year ends (separate reports for each of these years). This report shows the balances necessary to make the LIFO accounting entries. Balances shown include the inventory current year cost (FIFO or average cost), current & cumulative indexes, LIFO inventory, reserve & expense & Sec. 263A costs (if applicable) for each pool.

LIFO Reserve Calculation Report (Report 18a) - This is a more detailed version of Report 18 that shows all the steps necessary to calculate all years' LIFO reserves & shows the details of decrement calculations where applicable. This report shows these calculations for all pools & in total for a given year. The bottom section of this report (except where retail LIFO is used) shows the breakdown of the LIFO expense or income components between the inflation index effect & the layer erosion effect. The latter is the pre-tax amount that is required by GAAP to be disclosed in the notes to the financial statements (if material) for financial reporting purposes.

LIFO Inventory History Summary Report (Report 16) - This is a one page per pool LIFO history carryforward schedule for all years, which includes all data fields involved in the calculation of LIFO balances once the current year index & current year cost (FIFO or average cost) total by pool has been determined. This format shows the amount of the original increment or decrement & the amount of all layers remaining as of the latest year closed. The cumulative inflator indexes for years in which there are decrements is the weighted average index of the layers eroded & is equal to the Priced Increase (Decrease) or decrease in LIFO cost divided by the decrease at base prices. The detail of which years' layers are eroded for decrements is shown in Reports 16a & 18a.

LIFO Layer History Proof Report (Report 16a) - This is a one page per pool schedule showing the detail by layer of all decrements & the detail by layer of all layers remaining. This report is a proof of the Report 16 decrement calculations.

LIFO Inventory History Detail Report (Report 17) - This is a one page per pool LIFO history for all years which includes all data contained in Report 16 but also shows the remaining balance of all layers for all years.

LIFO Expense Components Report (Report 19) - This report shows the breakdown of the LIFO expense or income components between the inflation index effect & the layer erosion effect. The latter is the pre-tax amount that is required by GAAP to be disclosed in the notes to the financial statements (if material) for financial reporting purposes.

Internal Index Calculation Summary Report (Report 27) - This is a summary report by pool & in total showing the internal index method pool indexes for the current year as well as the prior & current year cumulative indexes, FIFO & LIFO inventory balances, LIFO reserve, & LIFO expense.

Internal Index Calculation Detail Report (Reports 27a & 27b) - These reports show the details of the pool index calculation. Report 27a shows all extensions before dealing with inflation outliers & missing cost items. Report 27b shows the actual extensions used for the Report 27S pool index calculations.

Internal Index Missing Item Cost Exceptions Report (Report 28a) - This shows items with missing current &/or prior period unit costs.

Internal Index Price Change (Outliers) Exceptions Report (Report 28b) - This report shows items with current vs. prior period unit cost changes that exceed the user defined inflation/deflation percentages.

Internal Index Calculation Statistics Report (Report 29) - This report provides a summary of the item detail source data, including row & dollar totals.

Internal Index Calculation Statistics Report (Report 30) - This report shows the current year indexes by user-defined class for preexisting items (i.e. non-new items). Used to reconstruct new item prior/base year item cost.

Cover Sheet / TOC

Adjusting Company Settings

Settings such as Company/pool names & period labels displayed on all LIFOPro reports can be modified as needed by selecting Company Settings screen button located on the bottom left of the LIFOPro software Main Menu screen

Change Company Name Label

LP COMPANY SETUP, METHODS SETTINGS & POOLS MAINTENANCE

LP Edit IPIC Pooling Method Analysis Help

Company Name: **ABC Corporation - Q2 '19 Estimate**

Retail or Cost LIFO: Cost

Layer Pricing Index Method: Single index, Inflator=deflator index Use Legal Size

UNICAP Mode: One UNICAP rate used for all pools

Cumulative index rounding precision: Unlimited

LIFO history data rounded to 000's: No

Add back negative reserves for book LIFO: No

Go to Period Maintenance

Change Period End Label

Go to Pool Maintenance

Show option to display Rpts. Double Click on the Pool Double Click on the Period

PERIODS MAINTENANCE TABLE

A10 6/30/2019

Period	Period Labels	1	2	3	4	5	6	7	8	9
1	6/30/2011	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	12/31/2011									
3	12/31/2012									
4	12/31/2013									
5	12/31/2014									
6	12/31/2015									
7	12/31/2016									
8	12/31/2017									
9	12/31/2018									
10 *	6/30/2019									
11	12/31/2020									
12	12/31/2021									

* Last period closed Check marks in Pool no. columns indicate base period

Rpt. 18 Before Changing Company Name & Period Label

LP REPORT 18 (Year Histories)

LP Edit Save Report 18 as Excel File Help

Zoom 90 %

C8 28362691.453

12/31-2020 12/31-2019 12/31-2018 12/31-2017 12/31-2016 12/31-2015 12/31-2014 12/31-2013 12/31-2012 12/31-2011

ABC Corporation

ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18

12/31/2019 Data path:Y:\LIFOPRO1\SAMPLE IPIC CALCULATION\LPDataFiles\OnLIFO\LPDataFiles\

POOL NO.	POOL NAME	CURRENT YEAR COST	12/31/2019 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	12/31/2019 LIFO RESERVE	12/31/2018 LIFO RESERVE	12/31/2019 LIFO EXPENSE
1	Mechanical Tubing	28,362,691	1.214571	1.294202	1.294202	21,632,920	6,729,772	1,862,888	4,866,884
2	Boiler (pressure) Tubing	548,331	1.043055	1.092851	1.092851	501,743	46,587	24,985	21,603
3	Pipe	4,931,553	1.214617	1.319947	1.319947	3,735,288	1,196,265	493,671	702,594
4	Valves & Fittings	2,930,958	1.044751	1.142790	1.142790	2,564,739	366,219	251,444	114,775
5	Stainless Pipe & Tubing	10,802,888	1.213012	1.053169	1.053169	9,567,294	1,235,594	-519,382	1,754,976
6	Stainless Valve & Fittings	555,329	1.044909	.972846	.972846	556,177	-848	-24,716	23,867
7	Aluminum Pipe & Tubing	1,074,608	1.048077	.832028	.832028	1,202,456	-127,848	-170,625	42,777
8	Aluminum Valve & Fittings	17,229	1.045531	1.039912	1.039912	16,568	661	-93	754
9	Cold finished bar	2,827,659	1.129624	.994187	.994187	2,823,814	3,844	-306,763	310,607
	Totals	52,051,246	1.190407			42,601,000	9,450,246	1,611,409	7,838,837

Rpt. 18 After Changing Company Name & Period Label

LP REPORT 18 (Year Histories)

LP Edit Save Report 18 as Excel File Help

Zoom 90 %

C8 28362691.453

12/31-2020 6-30-2019 12/31-2018 12/31-2017 12/31-2016 12/31-2015 12/31-2014 12/31-2013 12/31-2012 12/31-2011

ABC Corporation - Q2 '19 Estimate

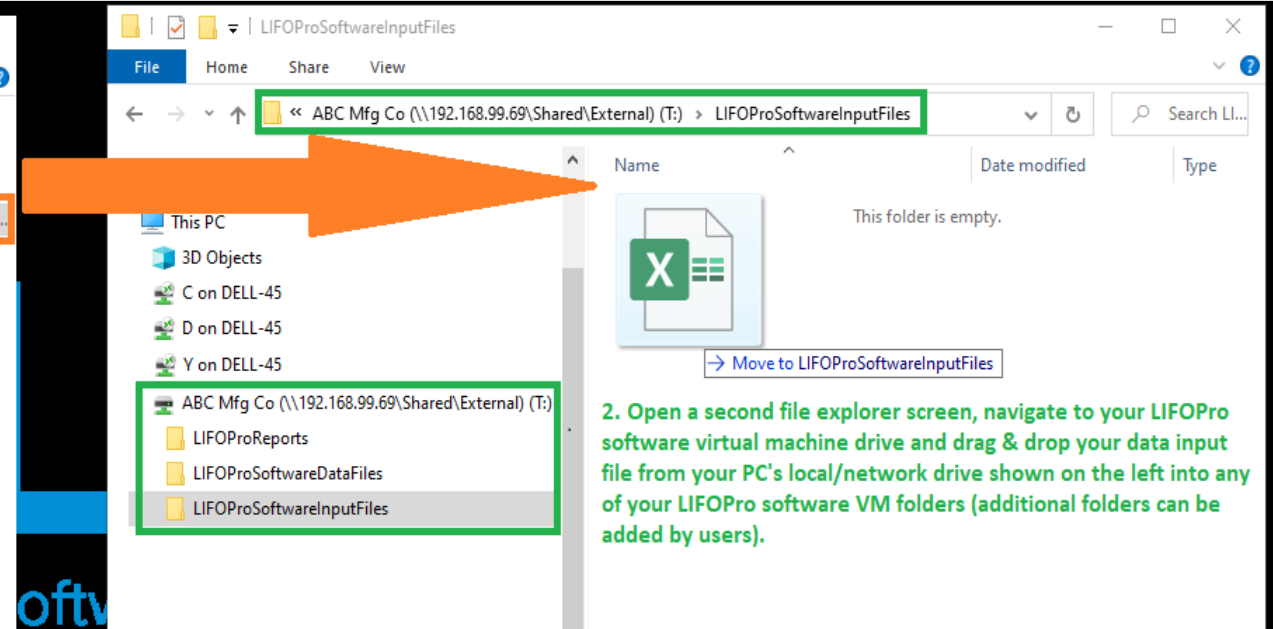
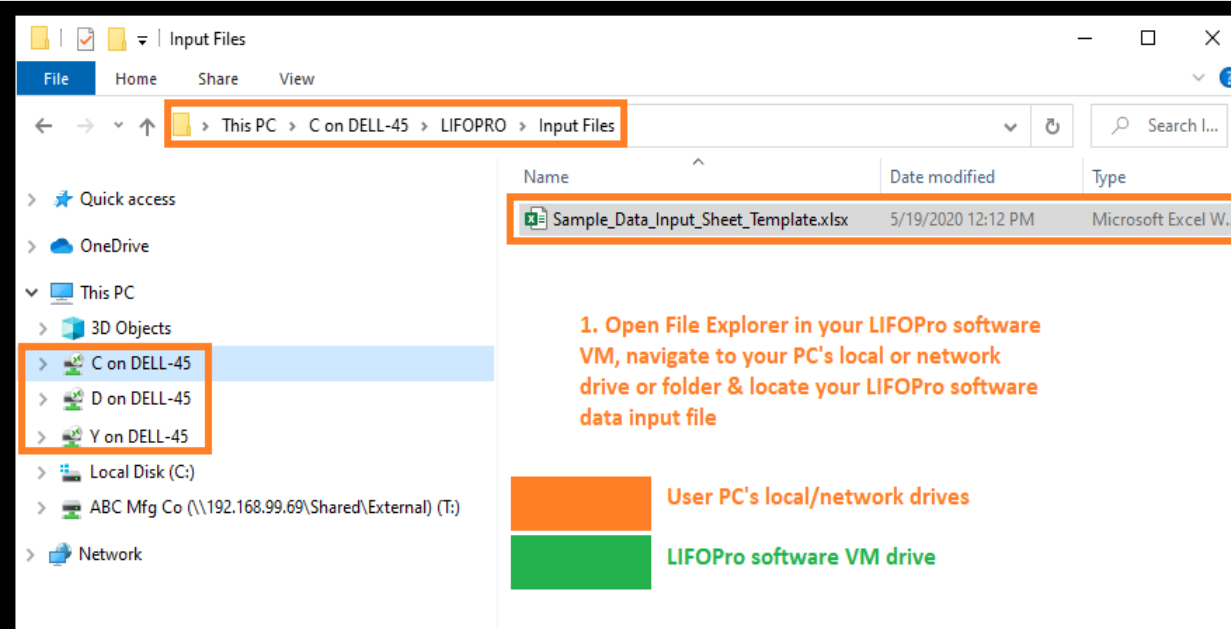
ACTUAL YEAR-END LIFO CALCULATION SUMMARY REPORT 18

6/30/2019 Data path:Y:\LIFOPRO1\SAMPLE IPIC CALCULATION\LPDataFiles\OnLIFO\LPDataFiles\

POOL NO.	POOL NAME	CURRENT YEAR COST	6/30/2019 DEFLATOR INDEX	CUMLTV DEFLATOR INDEX	CUMLTV INFLATOR INDEX	LIFO INVENTORY	6/30/2019 LIFO RESERVE	12/31/2018 LIFO RESERVE	6/30/2019 LIFO EXPENSE
1	Mechanical Tubing	28,362,691	1.214571	1.294202	1.294202	21,632,920	6,729,772	1,862,888	4,866,884
2	Boiler (pressure) Tubing	548,331	1.043055	1.092851	1.092851	501,743	46,587	24,985	21,603
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5	Stainless Pipe & Tubing	10,802,888	1.213012	1.053169	1.053169	9,567,294	1,235,594	-519,382	1,754,976
6	Stainless Valve & Fittings	555,329	1.044909	.972846	.972846	556,177	-848	-24,716	23,867
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8	Aluminum Valve & Fittings	17,229	1.045531	1.039912	1.039912	16,568	661	-93	754
9	Cold finished bar	2,827,659	1.129624	.994187	.994187	2,823,814	3,844	-306,763	310,607
	Totals	52,051,246	1.190407			42,601,000	9,450,246	1,611,409	7,838,837

Troubleshooting: Loading Files into Software

- Some users may experience issues loading files into the LIFOPro software directly from their local PC's drive/folder due to IT security restrictions and/or settings
- If the LIFOPro software will not load a data input file from your PC's local/network drive, take the following steps:
 - Open File Explorer on your LIFOPro software VM & locate your PC's local/network drives (will be shown in File Explorer with the text "on computer name" on the end of the drive letter; see in orange below)
 - Within File Explorer on your LIFOPro software VM, navigate to your PC's local/network drive containing your LIFOPro software data input file
 - Open a second File Explorer screen on your LIFOPro software VM & navigate to your LIFOPro software VM drive
 - On your VM, drag & drop your LIFOPro software data input file from your local drive onto your VM drive



Troubleshooting: Support Options

- The following resources are available for issues that users experience while operating the LIFOPro software:
 - **Quick Assist** – Remote support app that is installed on all PCs with Windows 10 operating systems. Allows LIFOPro support staff to view and/or take control of your PC (accessed via start menu); contact LIFOPro at 402-330-8573 M –F 8am – 5PM CST in order to initiate remote support session & be provided Quick Assist code.
 - [LIFOPro Software Support Page](#) – Contains a complete set of resources for LIFOPro software users
 - [Submit a support ticket](https://www.lifopro.com/support) – Available on the [LIFOPro Software Support Page](https://www.lifopro.com/support) (<https://www.lifopro.com/support>)

