

User Guide - ELS Loan Calculator Program

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The ELS Loan Valuation Program is designed to facilitate calculation of Commodity Credit Corporation (CCC) ELS loan premium and discount values given high-volume instrument (HVI) classing information. If desired, this program has the capability to calculate net returns over harvest cost on a per acre basis. Results can be presented in both report and graphical formats. This program is primarily designed for variety test evaluations, but it can be used without modification for other applications involving calculation of ELS loan values.

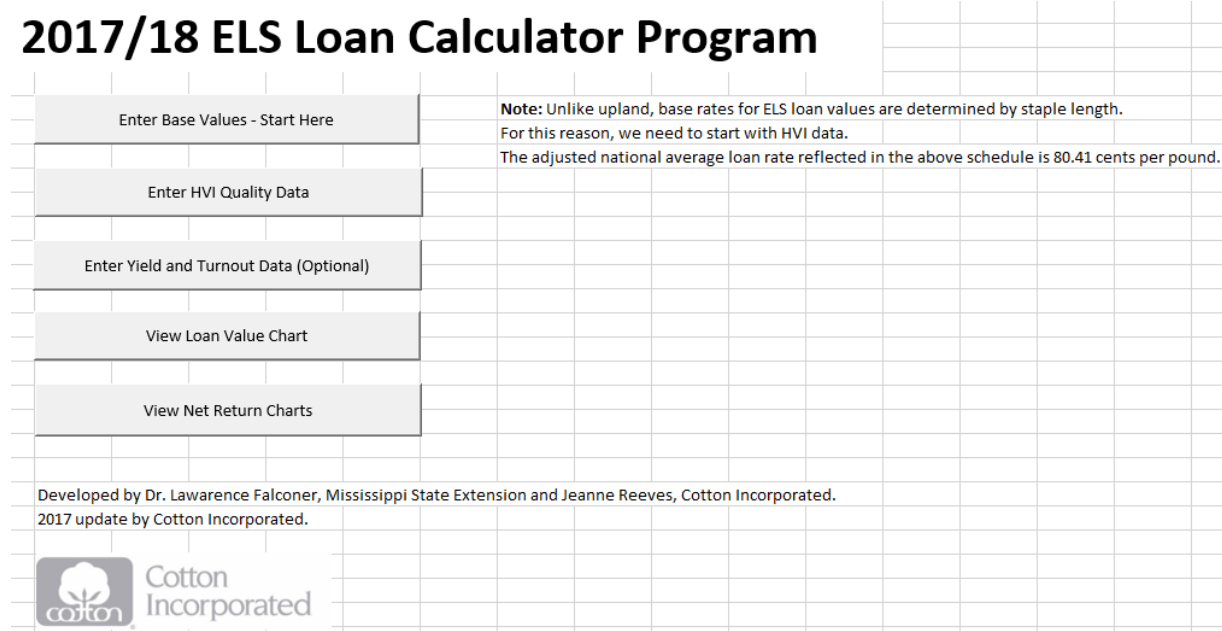
The program is distributed as a Microsoft® Excel spreadsheet. **For the program to perform properly, the user must enable Macros. It should be possible to enable macros by simply clicking allow content when you open the file. If that does not work, set macro security by clicking on File (top left corner of Excel), then select Trust Center, then click on Trust Center Settings. In the Trust Center menu, click on Enable all macros, then click Ok.**

In addition to the change to 2017 USDA loan values, the 2017 update of this program included a series of primarily cosmetic changes. Functionality, with respect to the ability to calculate loan values and estimate returns is the same.

Please note that certain cells are locked to prevent formulas from being changed. If you need to unlock any of the sheets, go to Review in the Excel ribbon at the top of the book, click Unprotect sheet, and enter "cottoninc" as the password. You can also right click on the sheet tab (at bottom, e.g., HVI Quality Data) and select unprotect sheet.

Questions, comments, and suggestions are welcome. Please send an email (cspmadmin@cottoninc.com), we are happy to help.

Figure 1. Program Main Menu



2. Enter HVI Data

The user should go to the HVI Quality Data sheet to enter all the require information to calculate the CCC loan premium and discounts for ELS cotton.

Figure 3, shown below, displays an example of all the input data required for the calculation of net loan prices. “Dummy” data were entered as examples. These numbers can be cleared or restored with the buttons on this page.

Variety names can be changed in the Variety/Sample Name column.

HVI data for color, leaf, length, strength, micronaire, and extraneous matter have to be entered (cells with blue text).

All of the cells with black text will update automatically with the entry of the HVI data.

Column N gives the net change in the base loan rate due to quality differences.

Column O gives the net loan price in cents/lb (base rate plus net change due to quality differences).

Figure 3. HVI Quality Data

Enter HVI Quality Data for Each Sample													Loan Rate Before Any Premiums	Strength Premium or Discount	Mike Premium or Discount	Extraneous Matter Discount	Net Premium or Discount	Net Loan Price (cents/lb)
Variety/Sample Name	Color	Leaf	Length	Strength	Mike	Extraneous Matter		Staple	Discounts	Discount	Discount	Discount	Discount					
						Preparation	Other											
Variety 1	1	1	1.35	35.4	2.4	0	0	44	76.90	-1350	-1915	0	-3265	44.25				
Variety 2	1	2	1.38	36.4	2.6	0	0	44	76.90	-1100	-1915	0	-3015	46.75				
Variety 3	2	3	1.40	37.4	2.8	0	0	45	73.15	-850	-1420	0	-2270	50.45				
Variety 4	3	4	1.40	38.4	3.0	0	0	45	68.30	0	-920	0	-920	59.10				
Variety 5	1	5	1.45	39.0	3.2	0	0	46	77.45	0	-920	0	-920	68.25				
Variety 6	2	6	1.45	36.7	3.4	0	0	46	80.85	-850	-415	0	-1265	68.20				
Variety 7	3	7	1.50	37.7	3.6	0	0	48	76.20	0	0	0	0	76.20				
Variety 8	1	1	1.50	38.7	3.8	0	0	48	81.35	0	0	0	0	81.35				
Variety 9	2	2	1.55	39.7	4.0	0	0	50	81.10	0	0	0	0	81.10				
Variety 10	3	3	1.55	36.1	4.2	0	0	50	72.75	-1100	0	0	-1100	61.75				
Clear Sample Values		Note: Staple lengths below 44 not eligible for ELS loan.																
Restore Dummy Data		Note: There are no premiums/discounts for uniformity for ELS.																
Return to Main Menu		Note: Extraneous matter readings are 0, 1, or 2. Please enter the value for the appropriate level. Blank cells for extraneous matter are treated as 0.																

3. Yield and Turnout Data

After entering the HVI data, the user can enter yield and turnout data in order to calculate estimates for net returns.

Lint Yield needs to be entered in column B.

Turnout needs to be entered in column C.

Figure 3. Yield and Turnout Data

Enter Yield and Turnout Data for Each Sample

Enter yield and turnout data in boxes with blue font.

Variety/Sample Name	Lint	Turnout (%)	Lint	Estimated	Seed	Gross	Picking	Ginning	Net
	Yield (lbs/Acre)		Value (\$/Acre)	Seed Yield (lbs/Acre)	Value (\$/Acre)	Return (\$/Acre)	& Moduling Cost (\$/Acre)	Cost (\$/Acre)	Return (\$/Acre)
Variety 1	736	35.8	368	1039	96	464	66	88	310
Variety 2	699	37.9	350	987	91	441	59	84	298
Variety 3	674	35.9	353	952	88	441	60	81	300
Variety 4	671	34.5	352	947	88	440	62	81	297
Variety 5	670	35.7	351	946	88	439	60	80	299
Variety 6	654	36.9	357	923	85	442	57	78	307
Variety 7	653	37.7	324	922	85	409	55	78	276
Variety 8	644	37.4	334	909	84	418	55	77	286
Variety 9	635	36.1	346	897	83	429	56	76	297
Variety 10	644	35.6	345	909	84	429	58	77	294

Note: Seed yield is the product of lint yield and estimated pounds of seed per pound of lint entered on the Base Values sheet.

Clear Sample Data

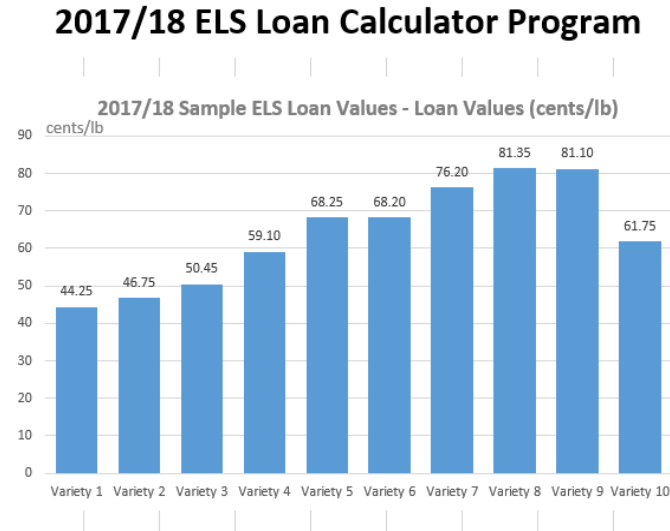
Return to Main Menu

4. Charts

There are two sheets with charts. All of the data in these charts update automatically when the data are entered on the other sheets (Base Values, HVI Quality Data, and Yield and Turnout).

The first chart sheet (Charts – Loan Value) contains only a chart of loan values.

Figure 4. Loan Value Chart



The second chart sheet (Charts – Net Return) contains loan values, lint yield, gross returns, and net returns.

Figure 5. Loan Value, Yield, Gross Return, and Net Return Charts

