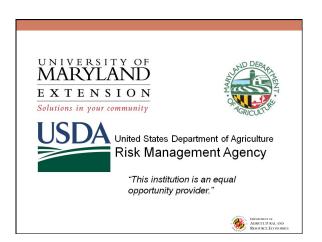
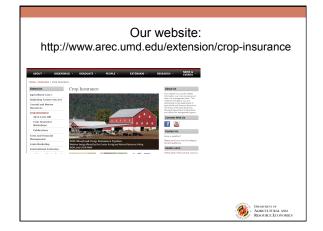
NEW FARM BILL CHOICES

Prof. Howard Leathers University of Maryland Maryland Agricultural Extension







My Personal Journey

- · Reading the language
- · Working through examples.
- · Preliminary lessons:
- Everything is different.
- Except where it isn't. (PLC and countercyclical payments)
- · Everything is complicated.
- Farmers will need to make some important decisions about program participation.



WARNING: TALOCA

There

Are

Lots

Of

Confusing

Acronyms



Crop Commodity Program Decisions

- · What Program will you participate in for the next 5 years?
- Price Loss Coverage (PLC)
- With or without participation in supplemental coverage option (SCO)
- Agricultural Risk Coverage, County option ($\underline{\mathsf{ARC}-\mathsf{CO}}$)
- Agricultural Risk Coverage , Individual option ($\underline{\mathsf{ARC}-\mathsf{IN}})$
- Update base acres?
- Update yields?
- Inter-relationships between Program decisions and crop insurance decisions.



Next step on my path to discovery: Constructing examples that include all elements of programs and insurance.

What we need for our examples:

7 different <u>yield measures</u> 6 different <u>price measures</u> 3 different <u>area measures</u>



Review of all assumptions

- Things which are known to a considerable degree:
 - Examples: county yields from the recent past, PLC reference prices
- Characteristics of a particular farm, things known from that farm's past.
 - Examples: program yields, base acres, Average Production History for insurance.
- · Guesses or "scenarios" about the future.
- Examples: future crop prices; future county yields.



Program alternatives under this scenario: Summary County ARC + 75% rev. insur 58,300 1,300 5,922 0 2466 0 63056 PLC + rev. 58.300 1.300 3.905 2466 0 61039 58,300 1,300 3,905 7702 2466 67465

"Normal" or average wheat income: 200 acres x 65 b/acre x 6.54/b = 85,020

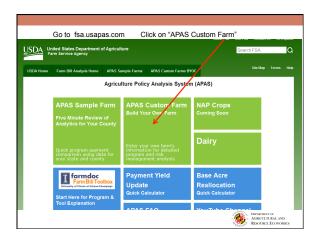
86% of normal income: \$73,117



Next step on my path to discovery: Using the "decision tools"

The complicated details of the programs are built into a calculator.





Lessons from the decision tools.

- Choice of PLC or ARC CO can be made on a crop-bycrop basis.
- The "best" program for corn may not be the "best program" for wheat or barley.
- For two farmers in the same county:
 - \bullet ARC-CO will have identical per acre payments for a crop.
- PLC will have different per acre payments depending on the farmer's program yields.



Lessons from the decision tools.

- For two farmers in the same county:
 - · ARC-CO will have identical per acre payments for a crop.
 - PLC will have different per acre payments depending on the farmer's program yields.

	County	Program yield	ARC-CO payment per acre	PLC payment per acre
Joe Baltimore	Baltimore	70	34.99	6.82
Hank Baltimore	Baltimore	210	34.99	20.45



Lessons from the decision tools.

- For two farmers with the same program yields but in different counties:
- PLC will have identical per acre payments for a crop.
- ARC-CO will have different per acre payments depending on the farmer's county.

	County	Program yield	ARC-CO payment per acre	PLC payment per acre
Joe Baltimore	Baltimore	70	34.99	6.82
Joe Calvert	Calvert	70	16.55	6.82
Joe Caroline	Caroline	70	45.84	6.82



Why does ARC-CO differ from county to county?

	Corn ARC-CO (5 year average)	average yield 2000-2013	Olympic average yield 2008-13
St. Mary's	17.41	100	94
Queen Anne's	20.43	131	114
Baltimore	34.99	126	135
Dorchester	50.18	132	130

When "normal" long term yields are higher than recent yields, then a return to normal will mean low or no ARC-CO payments.

When "normal" long term yields are lower than or close to recent yields, then a return to normal is more likely to generate ARC-CO payments.

Lessons from the decision tools.

- Choosing the "right" program can make a big difference:
- \$10 per corn base acre in Calvert Co.
- \$39 per corn base acre in Caroline Co.

	County	Program yield	ARC-CO payment per acre	PLC payment per acre
Joe Calvert	Calvert	70	16.55	6.82
Joe Caroline	Caroline	70	45.84	6.82



Lessons from the Decision Tools

- Corn: ARC-CO is better than PLC.
- Soybeans: ARC-CO is better than PLC.
- · Wheat: PLC or ARC-CO case by case.
- · Barley: PLC is better than ARC-CO.
- ("Usually" better.)
- SCO (Supplemental Coverage Option) expected indemnities do not cover premiums for corn. (Tentative conclusion: needs further confirmation.)



Baltimore County average annual expected payments during 2014-2018

	ARC-CO	PLC	SCO indemnity	SCO premium
Corn	34.99	10.71	7.53	8.67
Wheat	16.23	10.96	Not available	
Soybeans	22.21	1.46	3.42	5.20
Barley	23.55	46.92	Not available	

Wheat is a close call, and PLC would be higher if a farmer's payment yield was above 67, instead of the 45 used in these calculations.



Lessons from the Decision Tools

- To evaluate individual ARC, run one scenario with the "best" individual choices for your crops, and a second scenario for ARC-IN.
- In the sample cases I have run, ARC-IN is never better.

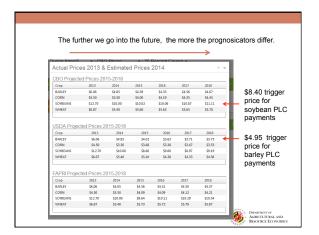


Reallocation of Base

- · Two choices:
- Keep the base acres allocated as they are now.
- Keep the total number of base acres the same, but reallocate them so they reflect recent average cropping practices.
- 5 year average returns per acre.

	Corn	Soybeans	Barley	Wheat
St. Mary's	17.41	14.70	55.45	
Queen Anne's	20.43	19.47	34.12	11.56
Baltimore	34.99	22.21	46.92	16.23

Barley base acres are a goldmine (if price projections used here are correct). If you have them, but now grow little or no barley do not reallocate. If you don't have barley base, but you've grown barley lately, do reallocate.



How much does future price prognostication matter?

5 year PLC for Barley, using CBO prices, FAPRI prices, and USDA prices, and FAPRI prices.

	Program yields used	CBO prices	FAPRI prices	USDA prices
St. Mary's	65	31.26	22.94	55.45
Queen Anne's	40	19.24	14.12	34.12
Baltimore	55	26.45	19.41	46.92

Barley base acres are a goldmine if <u>USDA projected prices are correct.</u>
Less so if FAPRI price projections are correct.



What about Dairy?

- Enrollment decision in Market Protection Program (MPP) due December 5. (Friday).
- · You can choose:
- Basic (\$4.00) free margin protection for 2015 (\$100 flat fee).
- Higher protection (up to \$8.00) for 2015 with a premium.
- No enrollment for 2015, with the option of entering the program in 2016



Forecasted margin based on futures prices in late October 2014. 117.00 110.00

Margin Level	Sep-Oct 2014	Nov-Dec 2014	Jan-Feb 2015	Mar-Apr 2015	May-Jun 2015	Jul-Aug 2015	Sep-Oct 2015	Nov-Dec 2015
Expected	\$15.95	\$12.62	\$10.52	\$9.88	\$9.68	\$9.89	\$10.50	\$10.37
< \$8.00			5%	16%	20%	19%	14%	21%
< \$7.50			2%	10%	13%	12%	9%	15%
< \$7.00	-	-	1%	5%	8%	7%	5%	10%
< \$6.50				2%	4%	3%	3%	6%
< \$6.00				1%	2%	1%	1%	4%
< \$5.50					1%	1%		2%
< \$5.00			-					1%
< \$4.50								
< \$4.00		-			-			

