Table 4. Feed cost of gain.

Feed Cost of Gain Analysis									Steers				
Receiving Pro	325 Ibs	375 Ibs	425 Ibs	475 Ibs	525 Ibs	575 Ibs	625 Ibs	675 Ibs	725 Ibs	775 Ibs			
Нау	\$/ton	\$80	lb/day	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Supplement	\$/ton	\$400	lb/day	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Mineral	\$/ton	\$300	oz/day	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Feed cost duri	ing rece	eiving	\$/head	\$36.21	\$36.21	\$36.21	\$36.21	\$36.21	\$36.21	\$36.21	\$16.90	\$16.90	\$16.90
Transport to	pasture	е		\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
Other receiving costs				\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25	\$0.25
Total receiving program expenses			\$38.46	\$38.46	\$38.46	\$38.46	\$38.46	\$38.46	\$38.46	\$19.15	\$19.15	\$19.15	
Expenses during grazing													
Pasture rent	\$/	cwt/mor	1th \$7.00	\$31.64	\$35.49	\$39.66	\$43.51	\$47.67	\$51.17	\$54.48	\$56.55	\$60.05	\$63.55
Supplement	\$/ton	\$400	oz/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mineral	\$/ton	\$300	oz fed/day	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Feed & pastur	e durin	g grazin	g \$/head	\$32.11	\$35.96	\$40.12	\$43.97	\$48.14	\$51.64	\$54.96	\$57.02	\$60.52	\$64.02
Implant cost (S	\$/head)			\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25
Freight (\$/hea	d)			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Labor (\$/head	/day)			\$0.10	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10
Equipment an	d mach	inery (\$	/head)	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00
Management	fee (\$/h	lead)											
Other													
Total grazing	expen	ses		\$36.46	\$40.31	\$44.47	\$48.32	\$52.49	\$55.99	\$59.30	\$61.37	\$64.87	\$68.37
Total Expenses			\$74.92	\$78.77	\$82.93	\$86.78	\$90.95	\$94.45	\$97.76	\$80.52	\$84.01	\$87.52	
Expected weight gain (lbs)			254.0	264.0	283.0	293.0	312.0	312.0	306.5	265.7	265.7	265.7	
Cost of gain excluding vet, marketing and other expenses (\$/lbs)			\$0.29	\$0.30	\$0.29	\$0.30	\$0.29	\$0.30	\$0.32	\$0.30	\$0.32	\$0.33	

Table 5. Results.

	St	eers	Heifers		
		Purchase		Purchase	
	\$	weight	\$	weight	
Highest Return (\$/hd)	97.92	325	75.66	375	
Highest Return (\$/acre)	109.51	375	91.83	375	
Lowest breakeven (\$/cwt)	94.84	525	86.55	475	

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The Oklahoma Wheat Stocker Purchase Planner was developed to assist wheat stocker producers project economic profitability of their wheat stocker enterprises. With user-supplied data, the program projects returns from various purchase weights of stocker calves. The program is a joint project of the Departments of Agricultural Economics and Animal Science at Oklahoma State University. The program can be downloaded from: www.beefextension.com (click on "Stocker" and then "Software").

This software is programmed in MS Excel 2007. Substantial loss of functionality, run-time errors and calculation errors will likely occur if it is run in MS Excel 2003 or earlier versions of Excel. So, its use in MS Excel 2003 or previous versions is not recommended. For the program to function properly, the user must allow the macro features of MS Excel. In MS Excel 2007, the user is prompted with a warning just below the button bar that macros have been disabled. Click on the warning and enable macros.

Data input

Only cells with a yellow background and black text are changeable. All other cells are calculated automatically by the program, are not accessible to the user, and have a light blue or green background.

The program has five sections accessed by the tabs at the bottom of the screen. The tabs are labeled Producer Info, Cattle type, Steers, Heifers, and Results. Another tab "Feed cost of Gain" can be accessed through a macro on the "Steers" and "Heifers" tabs.

Agribusiness Management Series Oklahoma Wheat Stocker Purchase Planner

Oklahoma Cooperative Extension Fact Sheets are also available on our website at: http://osufacts.okstate.edu

Producer Info

The first section (see Table 1) allows the user to enter a scenario name ("DEMO") in the table below and the date of the scenario. Clicking on the location cell will produce a popup menu that allows the producer to choose a set of auction market prices, either Oklahoma City or Combined Oklahoma auctions. These prices are stored in a hidden tab and can be updated from an OSU website.

To update prices, first connect to the internet. Then open the spreadsheet. Click on "UPDATE PRICE DATA." If asked if you want to proceed, click "OK." Note, if your internet connect is slow, this may take several minutes. The screen may flash several times as files and tabs are opened and closed.

Next enter the expected purchase date of stockers and an operating note interest rate.

NAME	DEMO							
Date	July 2, 2009							
What location's price data do you want to use? Oklahoma Cit								
The current	The current price data is dated as							
Do you want	ita?							
Expected pu	1-Nov							
Interest rate	•	%	6.00%					

Table 1. "Producer Info" tab.

Cattle type

The user first must select a lightest and heaviest weight that will be considered for purchase (see Table 2). For both cells, a pop-up menu asked the producer to select a weight. Weights from 300 to 800 pounds, in 50 pound increments, can be considered. Next, the user selects the gender(s) to be considered.

Purchase prices for stockers can be generated by clicking the "Generate prices" button on the top of the page. Note, the user should update prices as described in the Producer Info

	ţλ		S.														
	Stocking density	(head/acre)	Heifers	0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4			
	Stockin	(hea	Steers	0	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.3	0.3			
	death		Heifers) U	1.8%	1.8%	1.7%	1.7%	1.6%	1.5%	1.4%	1.2%	1.0%	0.9%			
	Percent death	loss	Steers) OO O	2.0%	2.0%	1.9%	1.9%	1.8%	1.7%	1.6%	1.4%	1.2%	1.0%			
	azing	at	Heifers	(7	<u>α.</u>	1.9	2.0	2.1	2.2	2.2	2.1	2.1	2.1	2.1			
	ADG grazing	wheat	Steers	0	2.0	2.1	2.2	2.3	2.4	2.4	2.3	2.3	2.3	2.3			
	S	ng at	Heifers		001	100	100	100	100	100	100	100	100	100			
	Days	grazing wheat	Steers Heifers	0	001	100	100	100	100	100	100	100	100	100			
	cieving tm		Heifers		0.1	1.0	1.2	1.2	1.4	1.4	1.5	1.5	1.5	1.5			
	ADG in recieving	program	Steers	0	2.1	1.2	1.4	1.4	1.6	1.6	1.7	1.7	1.7	1.7 1.			
		ing am	Heifers	Ļ	45 C	45	45	45	45	45	45	21	21	21			
	Days in	recieving	Steers	ļ	45	45	45	45	45	45	45	21	21	21			
			ers		00	00	42	49	81	94.98	95.96	95.42	74	89.50			
	Expected	chase (\$/cwt)	chase (\$/cwt)	purchase price(\$/cwt)	chase e(\$/cwt)	Heifers	1	120.00	118.00	101.42	96.49	97.	94.	95.	95.	92.74	89.
	Exp	pur	Steers		120.00	121.74	112.40	110.68	107.27	105.03	102.59	100.58	101.24	96.45			
Heaviest weight	800	Steers and Heifers	ange	C L	350	400	450	500	550	600	650	700	750	800			
Lightest weight	300		Weight range		300	350	400	450	500	550	600	650	700	750			
_	nge				(so	4 (IF	цбі	эм	əs	еца	oun _c	3					
	Weight range	Gender															

"Cattle type" tab. Table 2.

Table 3. "Steers" tab.

							Steers				
Purchase weight (lbs)		325	375	425	475	525	575	625	675	725	775
Veterinary cost	\$/head	20.00	19.00	19.00	38.00	17.00	16.00	14.00	12.00	12.00	12.00
Marketing cost	\$/head	11.00	12.00	13.00	14.00	15.00	16.00	16.50	16.50	17.00	18.00
Other costs per month	\$/head	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Feed cost of gain	\$/lb	0.45	0.46	0.48	0.50	0.53	0.57	0.62	0.64	0.66	0.68
Sales date		26-Mar	2-Mar	2-Mar	2-Mar						

Wheat Stocker Enterprise Budget													
Steers													
Purchase weight (lbs)	325	375	425	475	525	575	625	675	725	775			
Revenue													
Sales weight	lbs/head	579	639	708	768	837	887	932	941	991	1041		
Sales price	\$/cwt	118.51	111.99	104.24	97.46	89.66	84.01	78.98	77.94	72.29	66.64		
Gross Revenue	\$/head	686.20	715.60	737.99	748.46	750.45	745.16	735.70	733.19	716.19	693.53		
Expense per head sold													
Purchase	\$/head	390.00	456.54	477.29	525.71	563.19	603.91	641.20	678.93	733.96	747.52		
Cost of gain	\$/head	114.30	121.44	135.84	146.50	165.36	177.84	190.03	170.05	175.36	180.68		
Vet, Marketing and Other	\$/head	33.00	33.00	34.00	34.00	34.00	34.00	32.50	30.50	31.00	32.00		
Interest expense	\$/head	11.05	12.72	13.40	14.68	15.80	16.92	17.94	15.50	16.65	16.98		
Total Expense	\$/head	548.35	623.71	660.53	720.90	778.35	832.67	881.67	894.97	956.98	977.18		
Net Return	\$/head	137.85	91.89	77.46	27.57	-27.90	-87.51	-145.97	-161.78	-240.78	-283.65		
Net Return after													
death loss	\$/head	124.13	77.58	63.44	13.35	-41.41	-100.18	-157.74	-172.05	-249.38	-290.59		
Breakeven Price	\$/head	96.64	99.60	95.1	95.68	94.70	95.50	96.19	96.49	97.77	94.85		
Net Return per acre	\$/acre	115.16	110.83	105.73	26.69	-82.81	-250.44	-364.92	-404.46	-802.61	-945.51		

The Steers (or Heifers) tab is divided into two tables. section above before using the "Generate prices" feature. If the data file is missing historical prices for some gender-weight The top table requires the user to enter veterinary, production and marketing costs. A detailed sub-table can be used combinations, the program will prompt the user to manually to enter "Feed cost of gain" by clicking on any cell in the enter these prices. Generated prices can be manually overwrit-"Feed cost of gain" row and then simultaneously pressing ten by typing the expected purchase price in the appropriate "ctrl-t" (See Table 4). The results from the "Feed cost of gain" cell. Next, the user must enter information on days in a resub-table can be transferred back to the Steers (or Heifers) tab by clicking on the "Return to Steers" button (or "Return to ceiving programming, days grazing wheat, expected rates of Heifers" button). gain, death loss and stocking rates. Note, to copy cell's value

downward to end of its column: 1) enter the value to copy and press enter; 2) return to the cell with the arrow keys or with the mouse; and 3) double left click on the cell. Its value will copy down to the end of the entry fields.

Steers and Heifers

If the user selects "Steers" or "Both" in the gender cell on the Cattle type tab, a tab labeled "Steers" will be visible. For producers that rent wheat pasture, the appropriate (Otherwise, this tab is hidden.) Similarly for Heifers, the tab decision aid is likely the purchase weight and gender with the highest returns per head. For producers that own wheat is only visible if "Heifers" or "Both" was selected in the gender pasture, the appropriate decision aid is likely the purchase cell. The Steers and Heifers tabs (as in Table 3) are identical weight and gender with the highest returns per acre. For very in appearance and date entry requirements. The discussion risk-averse producers, the purchase weight and gender with below applies to both tabs. the lowest breakeven price might be advisable.

Results

The result tab reports three results. First, the highest returns per head and the associated purchase weight are reported by gender. Second, the highest returns per acre and the associated purchase weight are reported by gender. Third, the lowest breakeven price is reported by gender.