

A	B	C	D	E	F	G	H			
Use this spreadsheet for a mixing protocol for Brewers' grain + additive										
Chose a condition for the mixing protocol and enter targetted amount of material in the yellow cells of Table A										
Change materials pricing and specifications in the yellow cells of Table B										
Change crude protein target in the yellow cells of Table B.										
Change prices of corn and soybean, and specifications of brewers' grain in the yellow cells of Table C										
Change production cost, input rate of pressed grain, and hours of operation in the yellow cells of Table D										
Change maximum allowable urea in the last column of Table B, by changing CP target										
				Table A. Mixing prot						
				corn gluten meal	dehydrated eggwhite	soybean flour	wheat protein			
CHOOSE ONE CONDITION, TO GENERATE A MIXING PROTOCOL, based on additive used	1 T final product		Amount pressed Brewer's grain, T	2.455	2.640	2.321	2.614	2		
			OR Amount dried Brewer's grain, T	0.839	0.902	0.793	0.893	0		
			Amount of additive	0.161	0.098	0.207	0.107	0		
			Total final product, T	1.00	1.00	1.00	1.00	1		
	OR									
	Amount of final product, T (enter value in yellow cell)	10	Amount pressed Brewer's grain, T	24.545	26.402	23.207	26.136	28		
			OR Amount dried Br	O				P	Q	
			Amount of additive	Table B. Additives Specs and Amount				corn gluten meal	dehyd	
			Total final product, T					eggw		
	OR									
	Amount of pressed brewers' grain, T (enter value in yellow cell)	5	Amount dried Brew	Table B. Additives Specs and Amount				corn gluten meal	dehyd	
			Amount of additive					\$ Price / T	610	260
			Total final product, T					% additive in mixture, dry weight basis, to reach target CP	16.13	10.2
	OR							16.13	9.7	
	Amount of dried brewers' grain (10% moisture), T (enter value in yellow cell)	10	Amount pressed Bre	% Target CP *, dry basis.				34.00	34.0	
			OR Amount dried Br	Enter new value to change sale price						
			Amount of additive	\$ Sale Price (from Table C)				311.61	312	
			Total final product, T	\$ Profit / T				45.48	-122	
	OR							\$ Value of displaced brewer's grain /T	32.26	19.5
							\$ Cost of additive / T	98.39	254	
							\$ Net cost of additive / T	66.13	234	
							\$ Added value	24.75	25.6	
							\$ Increase or decrease in profit	-41.38	-209	
							Protein content, % on dry basis	60	78	
							TDN, % on dry basis	83	88	
							% Dry Matter	90	90	