#### Crude Protein Variation Estimator Workbook

CP-VEW2

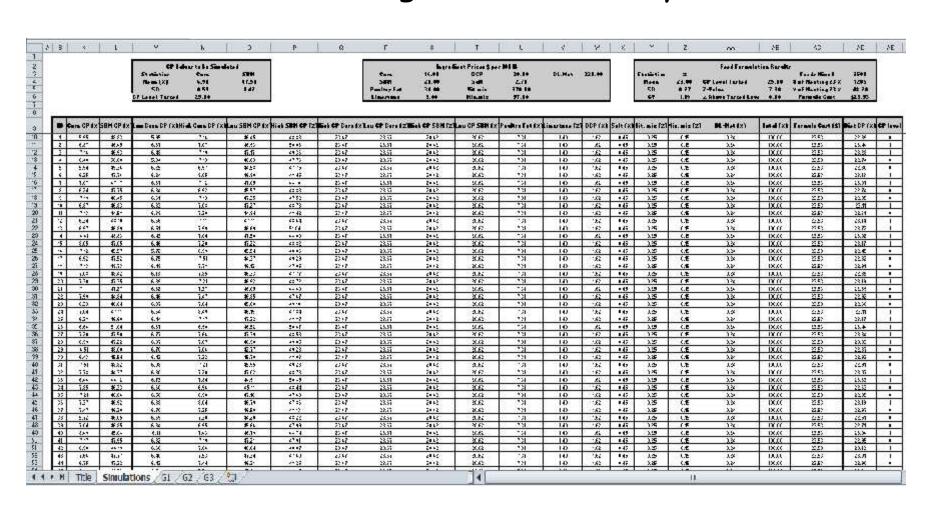
Version 1.0

2- Bin Method

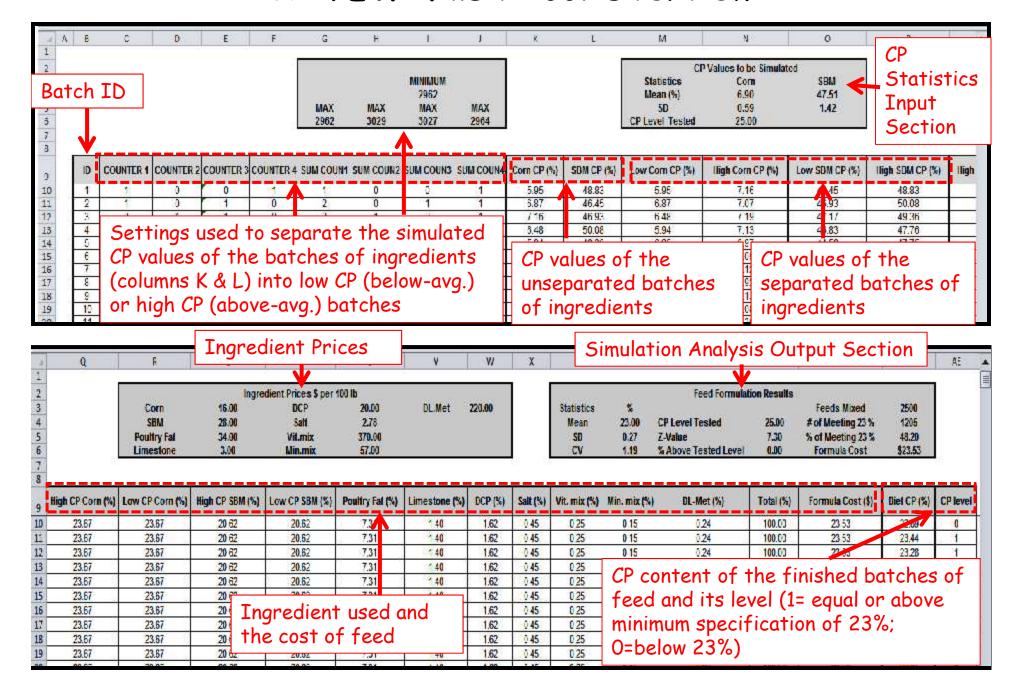
Rashed A. Alhotan & Gene M. Pesti

**Tutorial** 

# This PDF file shows you how to use CP-VEW2.xlsx Workbook to calculate measures of crude protein variability in finished feed formulated by the 2-Bin Method using simulation analysis.



#### CP-VEW2.xlsx Tool Overview



4 Steps to calculate measures of crude protein variability in feed using CP-VEW2.xlsx Workbook

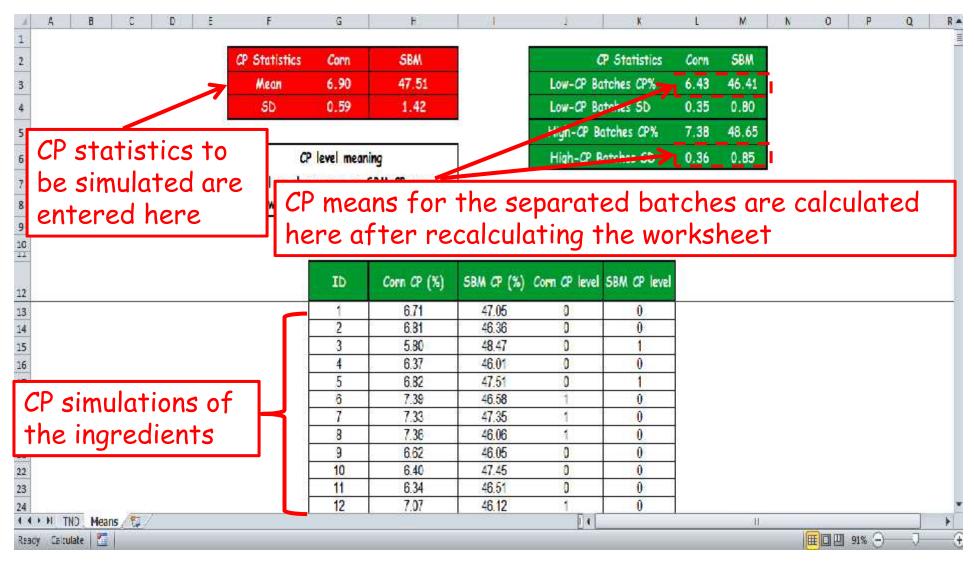
Step 1- Calculate CP means for below- and above-average batches for each ingredient using the workbook TND Calculator.xlsx.

Step 2- Formulate feed using the calculated CP means from step 1.

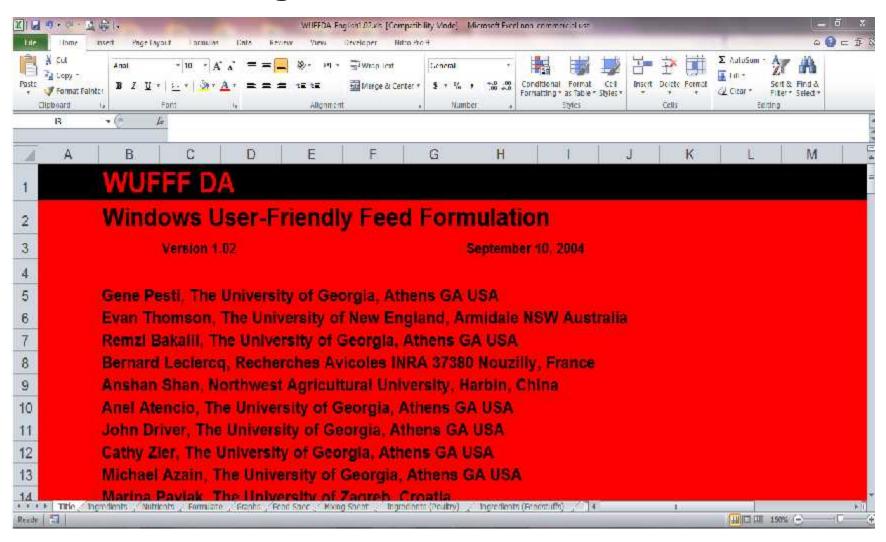
Step 3- Generate CP simulations using the mean and SD of CP.

Step 4- Calculate the measures of crude protein variability of the finished feed.

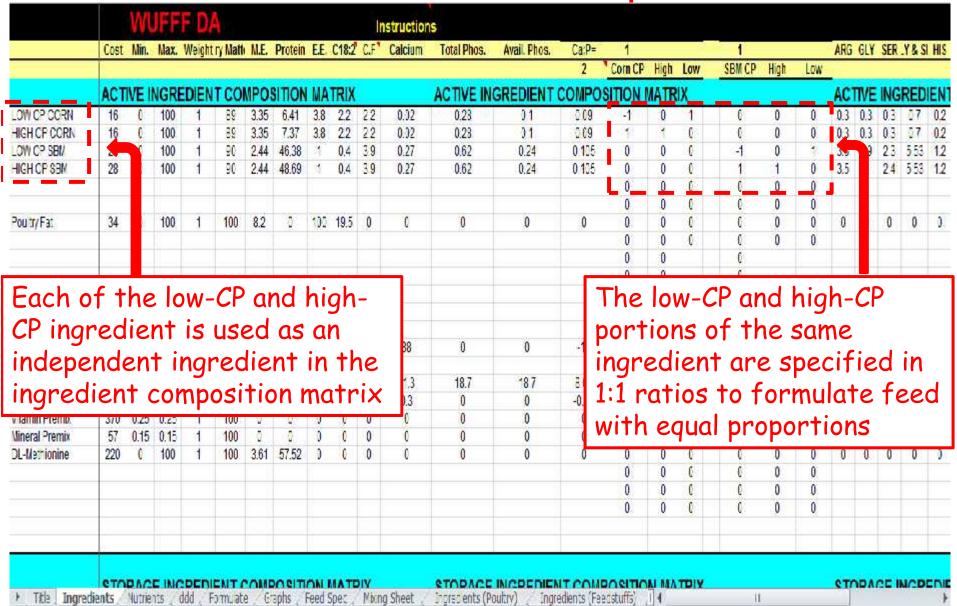
# Step 1- Calculate CP means for below- and above-average batches for each ingredient using the workbook TND Calculator.xlsx.



# The ingredient amounts of the feed formulated with the CP values of interest can be obtained using WUFFFDA Workbook



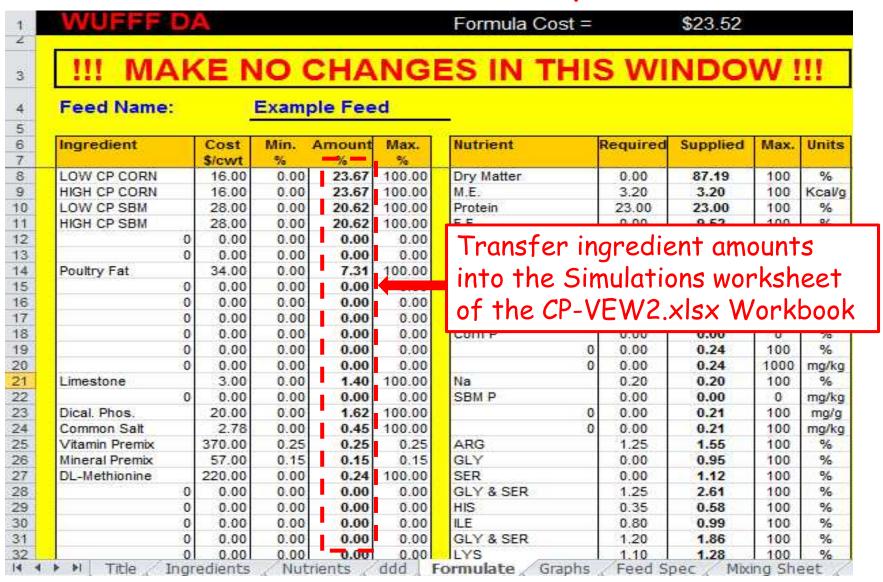
Step 2- Formulate feed using the calculated CP means from step 1.



Step 2- Formulate feed using the calculated CP means from step 1.

		W	JH	EDA						In	struction	S													
	Cost	Min.	Max.	Weight ry	Math	M.E.	Protein	E.E.	C18:2	C.F	Calcium	Total Phos.	Avail Phos.	Ca:P=	1		75	1			ARG	GLY	SER .	Y & SI	Н
	7													2	Corn CP	High	Low	SBM CP	High	Low	111				
	ACT	VE I	NGRE	DIENT	COL	MPOS	ITION	MA	TRIX			<b>ACTIVE IN</b>	GREDIENT	COMPOS	NOTE	MATR	XIX				AC	TIVE	ING	RED	E
OW CP CORN	16	0	100	1	86	3.35	6.41	3.8	2.2	22	0.02	0.23	0.1	2.09	-1	0	1	- 6	0	0	0.3	0.3	0.3	57	0
HIGH OF CORN	16	6	100	1	89	3.35	7.37	3.8	22	22	0.32	0.23	0.1	0.09	0.0	4	0	6	0	0	0.3	0.3	0.3	0.7	0
OW CP SBN	28	0	100	1	90	2.44	46.38	*	0.4	3.9	0.27	0.62	0.24	0.105	0	0	0	-1		1	3.3	1.9	23	5.53	1
HIGH CP SBM	28	0	100	1	90	2.44	48.69	15	0.4	3.9	0.27	0.62	0.24	0.105	0	0	0	1	- 9	0	3.5	2	24	5.53	1
															0	0	0	6		0				_	
															0	0	0	0		0					Г
Poultry Fat	34	0	100	1	100	8.2		100	19.5	0	0	0	0	0	0	0	0	0		0	0	0	0	0	1
THE PERSON NAMED IN COLUMN TWO																					1000	1000	7,747,411	1000	
mestone	3	0	ing ob	tai	die ne	en <sup>-</sup>	ts i fro	r t wh	the nic tl	h	are TN	D	pre	e reg	t ea	ch	an	nino	ac	id d	15	a	edi	ier	1
		0	ing ob	gre	die ne	en <sup>-</sup>	ts i fro	r t wh	the nic tl	h		D	pre fun	dict actio	gre t ea	ssi ch	an	nino	ac eac	ons	15	a	edi	ier	11
Dical Phos.	20	0	ing ob Ca	gre tai	die ne la	en <sup>-</sup>	ts i fro	r t wh	the nic tl	h d	TN	1 1000	pre fun	dict ictio	gre t ea on o	ssi ch f (	an	nino	ac eac	ons id d h i	15	a	0	ier	1
Dical, Phos. Common Salt	20 278	0	ing ob Ca	gre tai	die ne la	en <sup>-</sup>	ts i fro	r t wh	the nic tl	h one	TN 0.3	0	pre fun	dict actio	great ea	ssi ch f (	an	nino	ac eac	ons	ng	a re	0	ier 0	11
Imestone Dical Phos. Common Salt Itamin Premix	20	0 0 0.25	ing ob Ca 100 0.25	gre tai	die ne la	en <sup>-</sup>	ts i fro	r t wh	the nic tl	h d	0.3 0	0	pre fun	dict ictio	great each	ssi ch f C	an	nino	aceac	ons id d h i	ng	a re	0	0	1
Dical, Phos. Common Salt Mamin Premix Mineral Premix	20 278 370 57	0	100 0.25 0.15	gre tai	die ne la	ent d tor	ts v fro r.xl	r t wh	the nic tl	h one	TN 0.3	0	pre fun	edict ectio	great ear	ssi ch f (	an	nino	ac eac	ons id d h i	ng	0 0 0	0 0 0	0	
Dical, Phos. Common Salt Mamin Premix Mineral Premix	20 278	0 0 0.25 0.15	ing ob Ca 100 0.25	gre tai	0 100 100	en <sup>-</sup>	ts i fro	r t wh	the nic tl	h o	0.3 0 0	0 0 0	9re fun	2dict 1ctio 1805 10.15 0	great each	ssi ch f (	an	nino	ac eac	ons id d h i	ng 0 0	0 0 0 0	0 0 0 0	0 0 0 0	
Dical, Phos. Common Salt	20 278 370 57	0 0 0.25 0.15	100 0.25 0.15	gre tai	0 100 100	ent d tor	ts v fro r.xl	r t wh	the nic tl	h o	0.3 0 0	0 0 0	9re fun	2dict 1ctio 1805 10.15 0	great ear	ssi ch f (	an	nino	ac eac	ons id d h i	ng 0 0	0 0 0 0	0 0 0 0	0 0 0 0	
oica : Phos. Common Salt Tamin Premix Lineral Premix	20 278 370 57	0 0 0.25 0.15	100 0.25 0.15	gre tai	0 100 100	ent d tor	ts v fro r.xl	r t wh	the nic tl	h o	0.3 0 0	0 0 0	9re fun	2dict 1ctio 1805 10.15 0	great each	ssi ch f (	an	nino	0 0 0 0 0	ons id d	ng 0 0	0 0 0 0	0 0 0 0	0 0 0 0	
oica : Phos. Common Salt Tamin Premix Lineral Premix	20 278 370 57	0 0 0.25 0.15	100 0.25 0.15	gre tai	0 100 100	ent d tor	ts v fro r.xl	r t wh	the nic tl	h o	0.3 0 0	0 0 0	9re fun	2dict 1ctio 1805 10.15 0	greate and on o	55i ch f 0 0 0	CP 1	nino	000000000000000000000000000000000000000	ons id o	ng 0 0	0 0 0 0	0 0 0 0	0 0 0 0	
Dica , Phos. Common Salt Tamin Premix Jineral Premix	20 278 370 57	0 0 0.25 0.15	100 0.25 0.15	gre tai	0 100 100	ent d tor	ts v fro r.xl	r t wh	the nic tl	h o	0.3 0	0 0 0	9re fun	2dict 1ctio 1805 10.15 0	greate and on o	55i ch f 0 0 0	CP 1	nino	000000000000000000000000000000000000000	ons id o	ng 0 0	0 0 0 0	0 0 0 0	0 0 0 0	

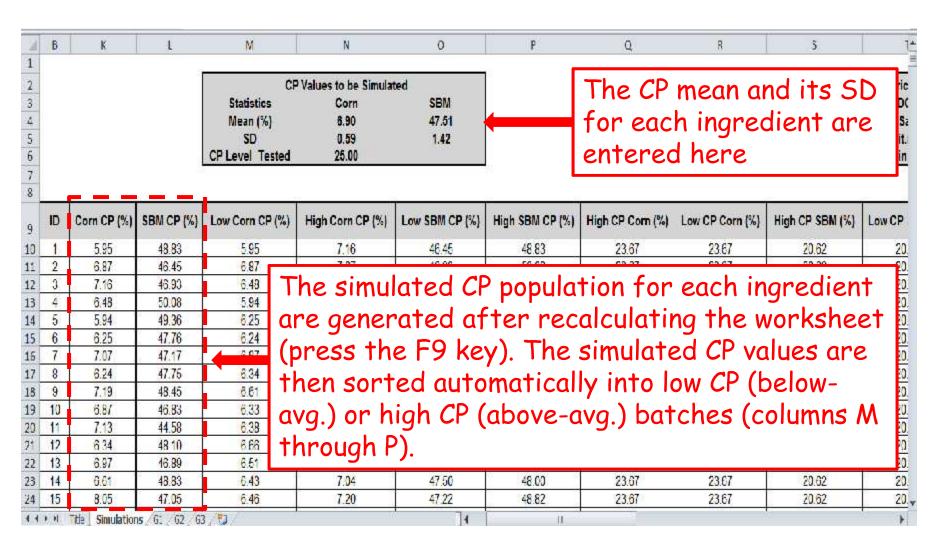
## Step 2- Formulate feed using the calculated CP means from step 1.



#### The amounts of the ingredients obtained from WUFFFDA Workbook

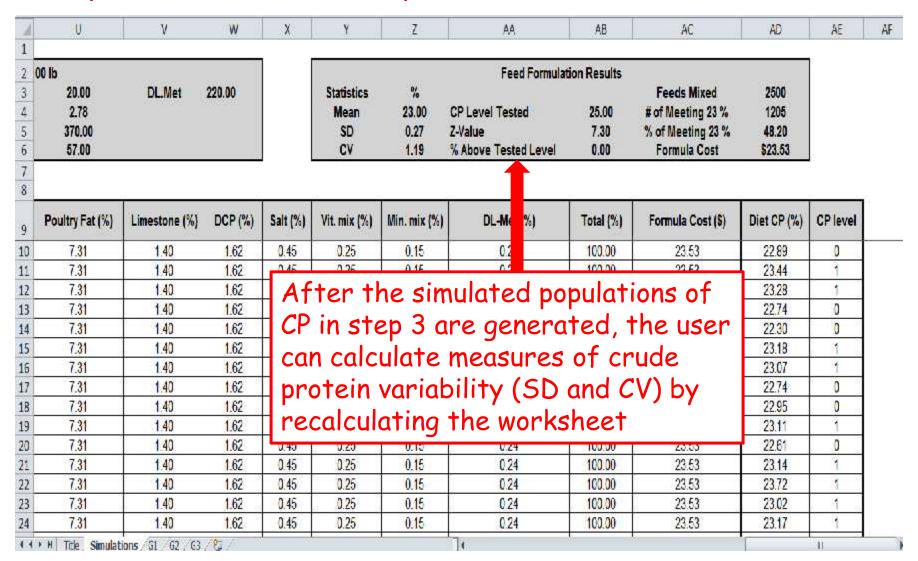
125		Ingre	edient Prices \$ per 1	00 lb				12-11-12-12-12		Feed Formula	tion Result
	Corn SBM	16.00 28.00	DCP Salt	20.00 2.78	DL.Met	220.00		Statistics Mean	% 23.00	CP Level Tested	25.00 7.30
12	Limestone	3.00	Min.mix	57.00			1.	ίν	1.19	% Above   ested Level	0.00
High CP Corn (%)	Low CP Com (%)	High CP SBM (%)	Low CP SBM (%)	Poultry Fat (%)	Limestone (%)	DCP (%)	Salt (%)	Vit. mix (%)	Min. mix (%)	DL Met (%)	Total (%
23.67	23.67	20.62	20.62	7.31	1./0	1.62	0.46	0.25	0.15	0.21	100.00
23.67	23.67	20,62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	73.67	20.62	20.62	/31	1.40	1.62	145	0.25	0.15	0.74	100 00
25.67	23.67	20.62	20.62	131	140	1.62	145	0.25	0.15	0.74	100 00
23.67	23.67	20.62	20.62	7.30	1.40	1.62	0.45	0.25	0 15	0.74	100 00
23.67	23.67	20.62	20.62	7.31	1.40	1,62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20,62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20.62	20.62	7,31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20,62	20.62	7.31	1,40	1.62	0.45	0.25	0.15	0.24	100.30
23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100,00
23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20,62	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
23.67	23.67	20.62	20.62	7,31	1.40	1.62	0.45	0.25	0.15	0.24	100.00
H The Simula	tions 6 52 . 53	/82			14		i data	2.77	1	1	20.00

### Step 3- Generate CP simulations using the mean and SD of CP.



		Corn SBM Poultry Fat Limestone	16.00 28.00 34.00 3.00	edient Prices \$ per 10 DCP Salt Vit.mix Min.mix	20.00 2.78 370.00	DLMet	220.00		Statistics Mean	% 23.00
		SBM Poultry Fat	16.00 28.00 34.00	DCP Salt Vit.mix	20.00 2.78 370.00	DLMet	220.00			
					57.00				SD CV	0.27 1.19
SBM CP (%)	High CP Corn (%)	Low CP Corn (%)	High CP SBM (%)	Low CP IM (%)	Poultry Fat (%)	Limestone (%)	DCP (%)	Salt (%)	Vit. mix (%)	Min. mix (%
48.83	23.67	23.67	20.62	20	7.31	140	1.62	0.45	0.25	0.15
50.08	23.67	23.67	Ingredi	ent nric	es can	he 0	1.62	0.45	0.25	0.15
49.36	23.67	23.67					1.62	0.45	0.25	0.15
47.76	23.67	23.67	updated	d in this	section	1 0	1.62	0.45	0.25	0.15
47.75	23.67	23.67	20.02	20.02	1.01	10	1.62	0.45	0.25	0.15
48.45	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
48.10	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
48.83	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
47.52	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
48.73	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
48.42	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
48.64	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
2000	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
51.04	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
48.00	23.67	23.67	20.62	20.62	7.31	1.40	1.62	0.45	0.25	0.15
48	8.64 1.04 8.00	3.64     23.67       3.04     23.67       3.00     23.67       3.82     23.67	3.64     23.67       23.67     23.67       3.00     23.67       23.67     23.67       3.82     23.67       23.67     23.67	0.64     23.67     23.67     20.62       0.04     23.67     23.67     20.62       0.00     23.67     23.67     20.62       0.82     23.67     23.67     20.62	0.64     23.67     23.67     20.62     20.62       0.04     23.67     23.67     20.62     20.62       0.00     23.67     23.67     20.62     20.62       0.82     23.67     23.67     20.62     20.62	0.64     23.67     23.67     20.62     20.62     7.31       0.04     23.67     23.67     20.62     20.62     7.31       0.00     23.67     23.67     20.62     20.62     7.31	3.64     23.67     23.67     20.62     20.62     7.31     1.40       3.04     23.67     23.67     20.62     20.62     7.31     1.40       3.00     23.67     23.67     20.62     20.62     7.31     1.40       3.82     23.67     23.67     20.62     20.62     7.31     1.40	0.64     23.67     23.67     20.62     20.62     7.31     1.40     1.62       1.04     23.67     23.67     20.62     20.62     7.31     1.40     1.62       3.00     23.67     23.67     20.62     20.62     7.31     1.40     1.62       3.82     23.67     23.67     20.62     20.62     7.31     1.40     1.62	0.64     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45       1.04     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45       3.00     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45       3.82     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45	0.64     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45     0.25       1.04     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45     0.25       3.00     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45     0.25       3.82     23.67     23.67     20.62     20.62     7.31     1.40     1.62     0.45     0.25

## Step 4- Calculate the measures of crude protein variability of the finished feed.



8		U	٧	W	Χ	γ	Z	AA	A8	AC	AD	ΑE	A
. 11	dient Prices \$ per 1	00 lb			į.			Feed Formula	tion Results			ŕ	
}	DCP	20.00	DL.Met	220.00		Statistics	%			Feeds Mixed	2500		
1	Salt	2.78				Mean	23.00	CP Level Tested	22.50	# of Meeting 23 %	1250		
	Vit.mix.	370.00				SD	0.28	Z-Value	-1.76	% of Meeting 23 %	50.00		
	Min.mix	57.00				CV	1.23	% Above Tested Level	96.08	Formula Cost	\$23.53		
Ø					Ž				7			ā.÷	
		78	10					XI.		15	72	7 - 17	
è	Low CP SBM (%)	Poultry Fat (%)	Limestone (%)	DCP (%)	Salt (%)	Vit mix (%)	Min. mix (%)	DL-Met (%)	Total (%)	Formula Cost (S)	Diet CP (%)	CP level	
)	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00	23.53	22.92	0	
	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100,00	23.53	22.92	0	
1	20.62	7.31	1,40	1.62	0.45	0.25	0.15	1.24	100.00	23.53	23.19	1 1	
	20.62	7.31	1.40	1.62	0.45	0.25	0.15	0.24	100.00	23.53	23.32	1	
3	20.02	200	1.40	-02	4.50	0.00	4.10	D. C. T.		27.71.53	0. 75.55	S 200	
-	20.62	7.31	4.47			130,000			100000	E MINO	la vittaria	Ö	
4		SO	1.40 1.40			1300000			100000	E MINO	la vittaria	0	
	20.62	7.31 7.31 7.31	1.45 1.45	he pi	ropo	rtion	of th	ne batche:	s of f	eed tha	t lie	1 0	
1	20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31	1.41 T 1.41 at	he pi oove	opo any	rtion CP le	of th	ne batche: an be esti	s of f mate	eed tha	t lie ering	1 0 0	
5	20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31	1.4 1.4 1.4 1.4 1.4 1.4 1.4	he pi oove	opo any	rtion CP le	of th	ne batche: an be esti	s of f mate	eed tha	t lie ering	1 0 0	
5	20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31	1.41 1.41 1.41 1.41 1.41 1.41 1.41	he pi oove ne CF	opo any val	rtion CP le ue in	of th vel co cell N	ne batches an be esti 16 and the	s of f mateo	eed that d by ento portion v	t lie ering vill	1 0 0 1	
7	20.62 20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31 7.31	1.41 T 1.41 at 1.41 at 1.41 th	he pi oove ne CF	opo any val	rtion CP le ue in	of th vel co cell N	ne batches an be esti 16 and the	s of f mateo	eed that d by ento portion v	t lie ering vill	1 0 0 1 1	
7	20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31	1.4. T 1.4. at 1.4. at 1.4. th	he pi oove ne Cf opeai	ropo any val	rtion CP le ue in cell A	of the vel co cell N .B6 (f	ne batches an be esti N6 and the or examp	s of f mateo e prop le in	eed that d by ento portion v the curr	t lie ering vill ent	1 0 0 1 1 1	
7	20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31	1.4. T 1.4. at 1.4. at 1.4. th 1.4. at 1.4. at 1.4. at	he pi oove ne Cf opeai	ropo any val	rtion CP le ue in cell A	of the vel co cell N .B6 (f	ne batches an be esti 16 and the	s of f mateo e prop le in	eed that d by ento portion v the curr	t lie ering vill ent	1 0 0 1 1 1 1	
7	20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31	1.41 T 1.41 at 1.41 th 1.41 ar 1.41 ar 1.41 ar	he pi pove ne Cf opeai ettin	opo any val in gs, ?	rtion CP le ue in cell A 96.08	of the vel concept of the velocity of the velo	ne batches an be esting 16 and the or examp the simul	s of f mate e prop le in ated	eed that d by ento portion v the curr	t lie ering vill ent	1 0 0 1 1 1 1	
	20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31	1.41 T 1.41 at 1.41 th 1.41 at 1.41 at 1.41 at 1.41 se 1.41 se	he pi pove ne Cf opeai ettin	opo any val in gs, ?	rtion CP le ue in cell A 96.08	of the vel concept of the velocity of the velo	ne batches an be esti N6 and the or examp	s of f mate e prop le in ated	eed that d by ento portion v the curr	t lie ering vill ent	1 0 0 1 1 1 1 1	
	20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31	1.4. T 1.4. at 1.4. th 1.4. th 1.4. ar 1.4. ar 1.4. se 1.4. se 1.4. fe	he pi ne Cf opeai ettin eed c	ropo any val r in gs, s	rtion CP le ue in cell A 96.08 equal	of the vel concell No. B6 (for ab	ne batches an be esting 16 and the or examp the simulation	s of f mate e prop le in ated (%)	eed that d by enter portion verting the curr batches	t lie ering vill ent of	1 0 0 1 1 1 1 1 1	
	20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62	7.31 7.31 7.31 7.31 7.31 7.31 7.31 7.31	1.41 T 1.41 at 1.41 th 1.41 at 1.41 at 1.41 at 1.41 se 1.41 se	he pi ne Cf opeai ettin eed c	ropo any val in gs, s	rtion CP le ue in cell A 96.08 equal	of the vel concept of the velocity of the velo	ne batches an be esting 16 and the or examp the simulation	s of f mated e prop le in ated (%)	eed that d by enter portion vert the curr batches	t lie ering vill ent of	1 0 0 1 1 1 1 1	

	7	U	V	W	X	γ	Z	АД	AB	AC	AD	AE
die	ent Prices \$ per 1	00 lb		3	1 1			Feed Formula	rtion Results			Ġ
	DCP	20.00	DL.Met	220.00		Statistics	%	WS STARWERS		Feeds Mixed	2500	
	Salt	2.78				Mean	23.00	CP Level Tested	22.50	# of Meeting 23 %	1250	
	Vit.mix	370.00				SD	0.28	Z-Value	-1.76	% of Meeting 23 %	50.00	
	Min.mix	57.00				CV	1.23	% Above Tested Level	96,08	Formula Cost	\$23.53	
					ā							ė
Lo	ow CP SBM (%)	Poultry Fat (%)	Limestone (%)	DCP (%)	Salt (%)	Vit mix (%)	Min. mix (%)	DL-Met (%)	Total (%)	Formula Cost (S)	Diet CP (%)	CP level
	20.62	7,31	1.40	1.62	0.45	0.25	0.15	0.24	100.00	23.53	22.92	0
				4.00	e re	2.05	78.0	2.04	400.00	92.52	22.00	0
-	20.62	7.04	4.45	4.00								
58 28	20.62 20.62				214/	D ct	otic	tice and	1/on	naw fa	ed l	1
	100000000000000000000000000000000000000				ew (	CP st	atis	tics and	l/or	new fe	ed	1
	20.62	Rem	embe	r ne								1 1 0
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	20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62 20.62	Remingre maki WUF	embe edien ing th DFD	r ne ts c ne a A a	an lopro	be us oprio CP-V	sed in the contract of the con	in this vadjustments value val	vork ents Vork	book by to the book	23.24 23.15 23.32	1 0 0 0 1 1 1 1 1 1 1 1 1
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