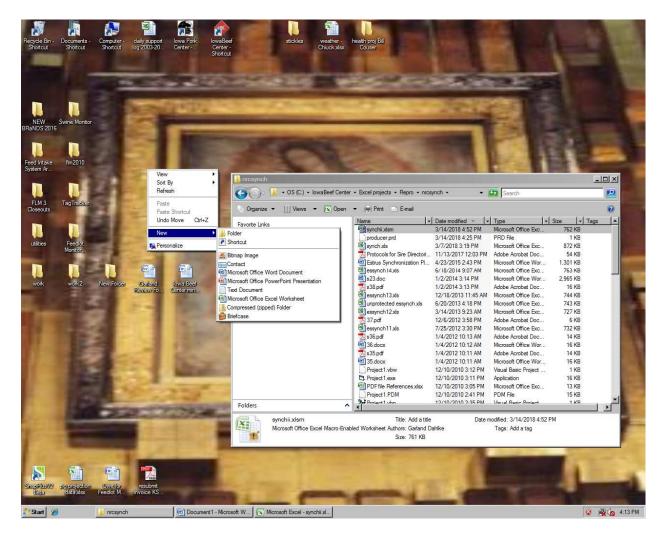
More Details on How to Use the Multigroup Synch Planner



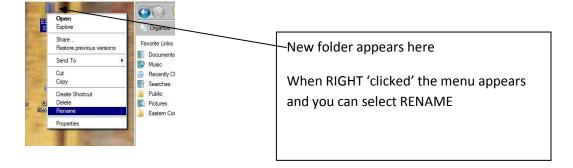
Create a Folder on your Desktop



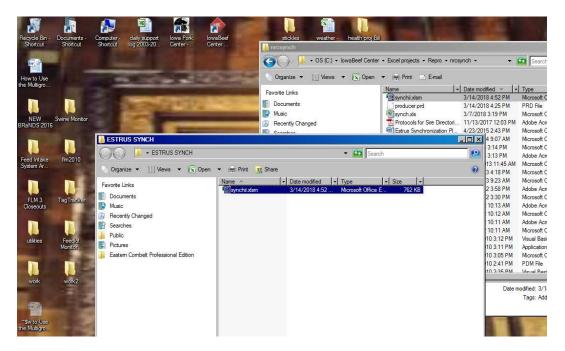
1. On your Computer desktop 'click' your RIGHT mouse button.

2. You will get a pop up menu appearing (as shown above) - then select NEW followed by FOLDER

3. You may name this folder ESTRUS SYNCH (as shown below) by RIGHT 'clicking' the folder, selecting RENAME and then typing in the name.



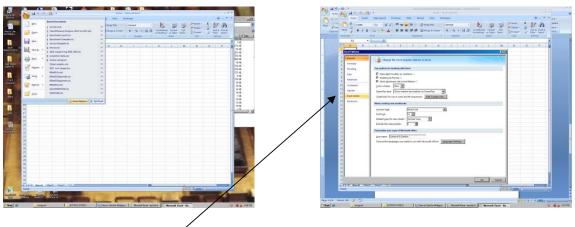
- 4. Now with the downloaded file (named "synchii.xlsm", drag it into this folder
- 5. To run the program, all you need to do is 'double click' this file



Allow Excel to Run this Application on your Computer

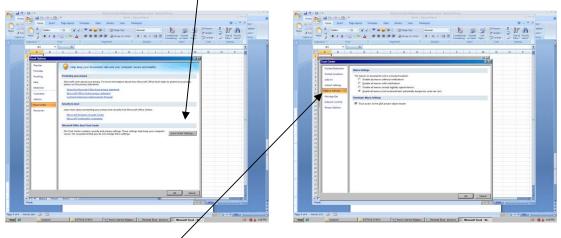
Because the Synch Planner is an Excel based program with some underlying nonExcel code you will need to give your computer permission to run this program. To do this:

1. **Before opening your Synchii Planner**, open an empty Excel sheet and go to the FILE – Excel OPTIONS area



2. Select the TRUST CENTER

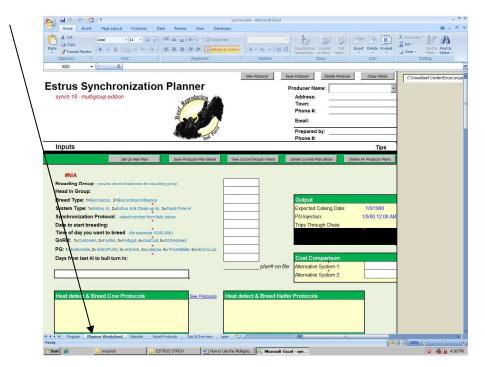
3. Select TRUST CENTER SETTINGS button



- 4. Select MACRO SETTINGS
- 5. Check the 'Enable Macros' radio button that you are comfortable with
- 6. Check the "TRUST ACCESS TO VBA PROJECT OBJECT MODEL"
- 7. Close Excel and now OPEN your Synchii program.

Using the Multigroup Synch Planner – Set Up Producers

1. Select the PLANNER WORKSHEET tab at the bottom and the following page will appear.



2. You may set up specific producers if you will schedule synchronization protocols with multiple locations or producers. Do this by:

A. Select the NEW PRODU	JCER button	
B. Type in the producer (or location name), the other det	ails are optional.
C. Select the SAVE PRODU	JCER button.	
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	Task For	Prepared by: Phone #:
Inputs		Tips

3. Now each time you want to work with a specific producer or location go to this list and select the individual prior to setting up or editing the synch plans.

Using the Multigroup Synch Planner – Set Up Protocols

1. With the producer selected, scroll down and select the button SET UP NEW PLAN.

2. Provide the inputs required as shown in the following image.

3. Select the SAVE PRODUCER PLAN button. The screen will clear automatically and you may enter another plan

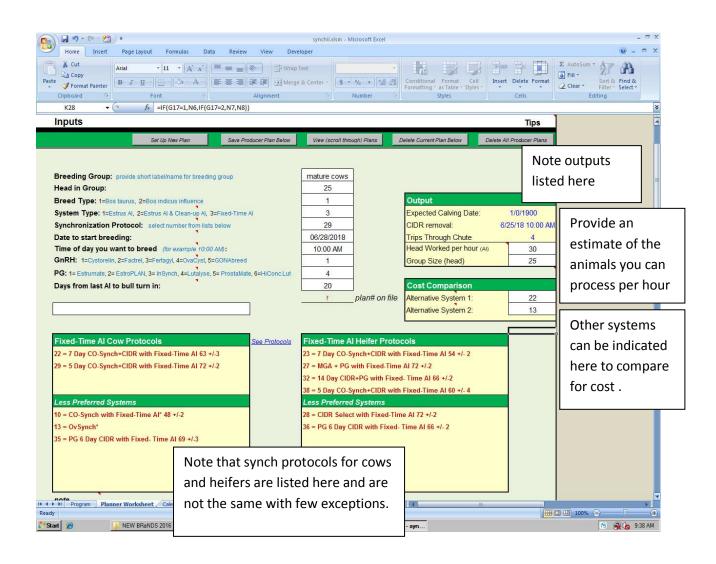
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	Set Up New Pla	Save Producer Plan Below	View (scroll through) Plans	Delete Current Plan Be		te All Producer Pla
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Breed Type: 1=Bos taurus, System Type: 1=Estrus AI,	2=Estrus AI & Clean-up AI,		25 1 3	Expected Calvi		1/0/1900 6/25/18 10:0
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4. If you want to review the plans saved or make edits to what you have saved, select the VIEW PLANS button. Each time you 'click' it, it will show you the next plan saved starting with the first.

5. If you want to change something, provide the change and select SAVE PRODUCER PLAN.

6. If you want to remove a plan, select the DELETE CURRENT PLAN button

7. If you want to start over and save a new set of protocols, select the DELETE ALL PRODUCER PLANS button and then redo what needs to be done.



Evaluating the Protocol and Costs of the Plan in Place

After providing the inputs on the protocol that you wish to follow you may scroll down and provide some other details if you want to estimate the cost of the synch program that you will be implementing. Like above, the white colored boxes allow inputs. Unlike those inputs above, you do not need to provide an input here though.

If you scroll further down you will see the cost evaluation for the protocol and if you provided other systems to compare, they will also appear. Finally there is a chart showing the cost per pregnancy. Fixed Time protocols and those that use a "Clean Up AI" after some heat detection assume 100% insemination rate. The heat detection systems provide a chart showing different rates of insemination and subsequent pregnancy rates. Note that the Yardage charge is left off the chart.

A formatted report of the screens shown below can be generated by selecting PRINT from your Excel menu.

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35 = PG 6 Day CIDR with Fixe	ed- Time Al 69 +/-3						
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All females require a GnRH i	njection at fixed-tim	ne Al.					synchronization
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			puon Rate of the	ose Respondi	ng to Synchroni	zation	
Rate		35 %	45%	55%	65%	75%	
100%	% Al Pregnant	35.0%	45.0%	55.0%	65.0%	75.0%	The cost shown on the
100 %	\$ per Synch Al Pregnancy	\$197.89	\$153.92	\$125.93	\$106.56	\$92.35	
0%	% Al Pregnant	0.0%	0.0%	0.0%	0.0%	0.0%	chart is the cost per
070	\$ per Synch Al Pregnancy	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	pregnancy less the
0%	% Al Pregnant	0.0%	0.0%	0.0%	0.0%	0.0%	
076	\$ per Synch Al Pregnancy	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	yardage or pasture
0%	% Al Pregnant	0.0%	0.0%	0.0%	0.0%	0.0%	
0/0	\$ per Synch Al Pregnancy	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	charge.
0%	% Al Pregnant	0.0%	0.0%	0.0%	0.0%	0.0%	
•/•	\$ per Synch Al Pregnancy	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	The total yardage
		Excludes	Yardage+Feed =	\$34.54	per head.		I The total yaruage

Printing the Synch Calendar

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Clear Calendar			'= may not be adequ	ate time between scheduled ever	Pho
	Sunday	Monday	Tuesday	Wednesday	Thursday
	6/17/2018	6/18/2018	6/19/2018	6/20/2018	6/21/2018
Load Calendar	10:00 AM coming 3yr	4:00 AM heifers		10:00 AM mature cows	
	Add CIDR+Inject 2cc Cystorelin-al	II cow Add CIDR+Inject 2cc Cystorelin-all heifer	5	Add CIDR+Inject 2cc Cystorelin-all	ows
	and a second	and the second			
	6/24/2018	6/25/2018	6/26/2018	6/27/2018	6/28/2018
		10:00 AM mature cows			10:00 AIM mature cows
		Pull CIDR+Inject Scc Lutalyse			Inject 2cc Cystorelin+Fixed Time
		10:00 AW coming 3yr			
1					
		Inject 2cc Cystorelin+Fixed Time Al			
		1:00 PM heiters			
		Inject 2cc Cystorelin+Fixed Time Al			
		6:00 PM mature cows			
		Give 2nd Scc Lutalyse injection			
1	7/1/2018	7/2/2018	7/3/2018	7/4/2018	7/5/2018
	//1/2018	//2/2018	//3/2018	//4/2018	//5/2018
	7/8/2018	7/9/2018	7/10/2018	7/11/2018	7/12/2018
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- 1. Select the CALENDAR tab
- 2. Select the Producer/ Location from the Producer List
- 3. Select the LOAD CALENDAR button.

You may scroll though the three page summary after loading the calendar or you may print it. To print, go to your Excel menu and select the PRINT item from the Excel menu. The first page of the calendar generally is the one most loaded with details, the second page has the overflow. The third page gives a summary of the systems used/ shown on the calendar along with the requirement for pharmaceuticals, probable time for each event for the given group.

Be sure to o through the calendar and look for conflicts. The printout will flag the most obvious conflicts with the 'orange' box on the conflicting times on a given date, but you will need to use good sense in making sure the other times are with adequate time allotments to carry out your tasks properly.

Please note, timing is as critical as technique in getting a good response from synchronization. However, there is enough 'wiggle' room to start an hour earlier and end in the hour following from the hour displayed on the calendar and still maintain good results

Y 12	Estrus Synchror	nization Planner	r	-			
A STATEMENT	and the second sec	Itigroup edition		Prod	Address: 313 Kildee Hall ISU		
				Town: Ames IA 5001			
C. A. C.		to make and he advances	Pho	Phone Number: 515 294 9910 Email: garland@lastate.edu			
Sunday	Monday	Tuesday	te time between scheduled events Wednesday	Thursday	Friday	Saturday	
6/17/2018	6/18/2018	6/19/2018	6/20/2018	6/21/2018	6/22/2018	6/23/2018	
COO AM coming Byr Id CIDR+Inject 2cc Cystorellin-all cows	4:00 AM helfers Add CIDR+inject 2cc Cystorelin-all helfers		10:00 AM imature cows Add CIDR+inject 2cc Cystontiin-all cows		20:00 AM coming 3yr Pull CIDR+inject Scc Lutalysa	5:00 AM helfers Give 2nd Scc Lutalyse injection	
or crownights are execution an other	And Citrar inject are operation an heaters		And Clothingto acceptionenn an cowe		6:00 PM coming 3yr	4:00 AM helfers	
					Give 2nd Scc Lutalyse injection	Pull CIDR+Inject Scc Lucalyse	
6/24/2018	6/25/2018	6/26/2018	6/27/2018	6/28/2018	6/29/2018	6/30/2018	
	20:00 AM mature cows. Pull CIDR+Inject Sct Latalyse			10:00 AM mature cows Inject 2cc Cystorelin=Fixed Time AI			
	10:00 AM coming Byr						
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	6.00 PM mature cows						
	Give 2nd Scc Lutaryse injection		C/1000000	a terretation		and pressented	
7/1/2018	7/2/2018	7/3/2018	7/4/2018	7/5/2018	7/6/2018	7/7/2018	
7/8/2018	7/9/2018	7/10/2018	7/11/2018	7/12/2018	7/13/2018 * coming Tyr Return to Estrus	7/14/2018 * builders Rotsen to Estrus	
7/15/2018 coming 3vr	7/16/2018	7/17/2018	7/18/2018	7/19/2018	7/20/2018	7/21/2018	
coming syr im in Bull Power	Return to Estrus		Turn in Bull Power				
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29 mature cows Head 25 Hrs/Run 0.83 Group System 29 = 5 Day CO-Synch+CIDR with Face4-Time AI 72 +/-2 PG S0 doies CIDR 52 PG 50 doies GaRH 50 doies CIDR 25 Hotes CIDR 52 S0 doies CIDR 52	29 Group ownig 3yr Head 10 Hrs/Run 0.33 System 29 - 5 Oay: CO-Synch+ODB with Fixed-Time AI 72 +/-2 PG 20 doses GnRH 20 doses CIDRS 10 Notes GnRH 20 doses CIDRS 10 Notes CIDRS 10	38 Head 10 Hrs/Nun 0.33 Spetem 38 = 5 Day CO-Synch+CDR with Fixed-Time AI 60 +/-4 Hrs/Nun 0.33 PG 20 dotes GmRH 20 dotes CIDRS 10 Notes GmRH 20 dotes CIDRS 10