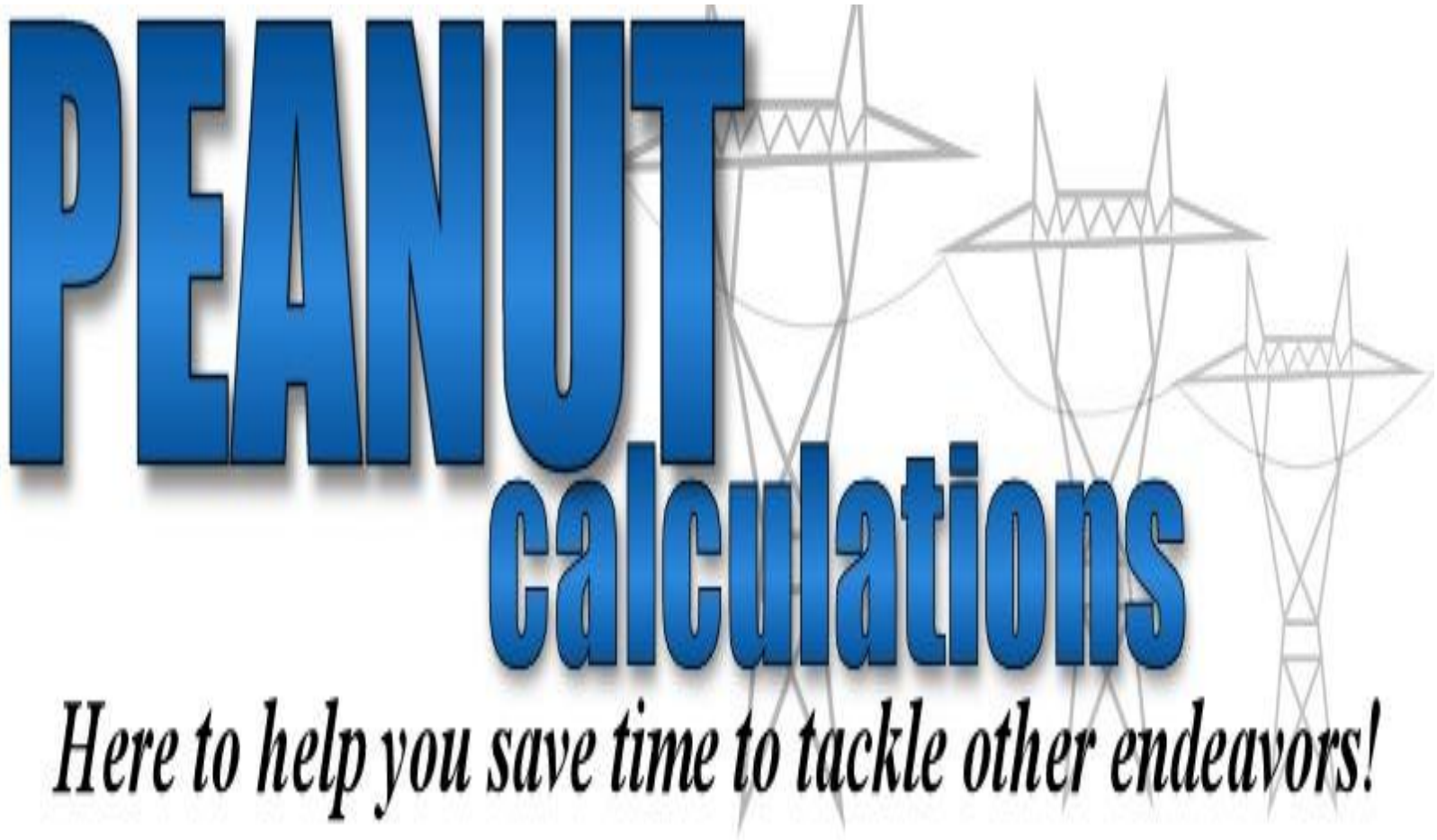
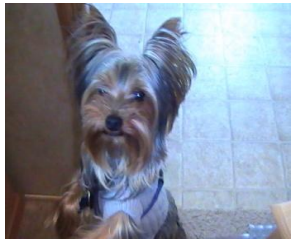

PEANUT
calculations
Here to help you save time to tackle other endeavors!

INDEX OF DIRECTIONS



BY THE WAY HERE'S PEANUT

DIRECTIONS FOR THE DYNOMETER TENSION SAG PROGRAM

TO ALL USERS,

We would like to thank you for your purchase and use of this program and the other programs in this series. We have set a goal at Peanut Calculations to save the person in charge of these job tasks in the field time. Because we know your time is valuable and if your like me there's not enough of it. With a few measurements entered from the your project drawings and in some cases transit shots, the calculations for guy length and anchor angles are complete and ready to print. You can choose to do an entire project or one structure at a time the choice is yours. If you have any questions or ideas about something you would like to see in this program or others please leave us a message at support@peanutcalculations.com or e-mail me at norman@peanutcalculations .com. We are here to support and help you with this you with this program and your ideas to make your job easier. But please remember these programs have copy rights so please use for your benefit but don't give unauthorized copies to others. If there is anyway we can support or help please contact us.

THANK YOU
NORMAN S. JAYJOHN
PRESIDENT OF PEANUT CALCULATIONS

PLEASE KEEP ONE COPY OF EACH PROGRAM IN A FILE TO MAKE A COPY FOR EACH PROJECT WORKED.

Disclaimer,

Please double check your input data and finished data to make sure program is working correctly. Peanut Calculations excepts no liability for miss information from our programs.

DATA INPUT sheet

1. By entering a few known data items and measurements from blue prints or surveyed distances all of your guy lengths and anchor angles will be calculated for you. These items are structure number, footage added for workability of the guy, guy insulator length if any used, anchor distance from structure, guy attachment height, anchor elevation above or below bottom of the structure, if two guys go to one anchor head you have to change the anchor numbers, if there is a guy insulator or not, and if the guy insulator goes at the top of the guy or a distance down the guy. In these directions we will show you examples to all these type of guys. Make sure scroll both ways in the data input sheet to get to all the information needed.

example of a blank Data Input sheet

STRUCTURE #	GUY & ANCHOR #	REVISED ANCHOR # IF 2 GUYS GO TO 1 ANCHOR	GUY DIAMETER	ANCHOR DISTANCE FROM STRUCTURE	ATTACHMENT HEIGHT ON STRUCTURE	ANCHOR ELEVATION CHANGE MINUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	ANCHOR ELEVATION CHANGE PLUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	IF GUY GOES TO SAME ANCHOR AS ANOTHER GUY, INSTALL A ZERO IN PLACE OF A ONE FOR THAT GUY	IF NO GUY INSULATOR PLACE A ZERO IN CELL FOR THAT GUY, IF GUY INSULATOR ON TOP OF GUY PLACE A ONE IN THE CELL FOR THAT GUY, IF GUY INSULATOR GOES IN THE MIDDLE OF THE GUY PLACE A TWO IN THE CELL FOR THAT GUY	MEASUREMENT IN FEET IF FIBERGLASS INSULATOR IS TO BE INSTALLED BELOW THE TOP OF THE GUY, IN CELL IS BELOW
	1							1	0	
	2							1	0	
ADDED FOOTAGE	3							1	0	
FOR WORKABILITY	4							1	0	
	5							1	0	
LENGTH OF	6							1	0	
GUY INSULATOR	7							1	0	
IN FEET	8							1	0	
	9							1	0	
	10							1	0	
STRUCTURE #										
	1							1	0	
	2							1	0	
ADDED FOOTAGE	3							1	0	
FOR WORKABILITY	4							1	0	
	5							1	0	
LENGTH OF	6							1	0	
GUY INSULATOR	7							1	0	
IN FEET	8							1	0	
	9							1	0	
	10							1	0	
STRUCTURE #										
	1							1	0	
	2							1	0	
ADDED FOOTAGE	3							1	0	
FOR WORKABILITY	4							1	0	
	5							1	0	
LENGTH OF	6							1	0	
GUY INSULATOR	7							1	0	
IN FEET	8							1	0	
	9							1	0	
	10							1	0	
STRUCTURE #										
	1							1	0	
	2							1	0	
ADDED FOOTAGE	3							1	0	
FOR WORKABILITY	4							1	0	
	5							1	0	
LENGTH OF	6							1	0	
GUY INSULATOR	7							1	0	
IN FEET	8							1	0	
	9							1	0	
	10							1	0	

DATA INPUT sheet

2.1 This set of inputs are for all types of guys and your anchor angles. They are listed from left to right on the Data Input sheet.

a.) Structure number is entered in column A.

b.) Extra length of guy wire you like to use for workability of the guy is entered in column A.

c.) If two guys go to the same anchor you can change the guy an anchor numbers to reflect this in column C.

d.) Guy diameter in fractions of an inch 3/8, 7/16, 1/2, 5/8, ect, is entered in column D. This is only to keep the guy sizes straight if you have different sizes of guy wire on the same structure.

e.) Anchor head distance from the structure face the guy attaches is entered in column E.

f.) Guy attachment height on the structure. Distance above the ground the guy attaches is entered in column F.

g.) Anchor elevation above ground level of the structure. This measurement is the distance the anchor is above the structure ground level. Enter this distance in column G.

h.) Anchor elevation below ground level of the structure. This measurement is the distance the anchor is below the structure ground level. Enter this distance in column H.

i.) In column I enter a zero instead of a one for the guy going to the same anchor as another guy.

J.) Column J should be- zero for no fiberglass guy insulator
one for a fiberglass guy insulator at the top of a guy
two for a fiberglass guy insulator down the guy a specified measurement making the guy multiple sections.

DATA INPUT sheet

2.2 This set of inputs are for all guys with a fiberglass guy insulator at the top of the guy.

a.) Enter all the data ask for in the items of section 2.1 above

b.) Fiberglass guy insulator length in feet entered in column A for that structure.

c.) Enter a one instead of zero in column J for the guy you are working on. This is also mentioned in section J of 2.1 above.

2.3 This set inputs are for all guys with a fiberglass guy insulator down the guy a specified distance, making the guy in two sections.

a.) Enter all the data ask for in the items of section 2.1 above.

b.) Fiberglass guy insulator length in feet entered in column A for that structure.

c.) Enter a two in column J instead of a zero or one for the guy you are working on. This is also mentioned in section J of 2.1 above.

e.) Enter in column K the distance in feet how far down the guy you need to install the fiberglass guy insulator you are installing for the guy you are working on.

EXAMPLES OF ALL DIFFERENT GUY TYPES AND THEIR INPUTS TO FOLLOW

example data input sheet with no fiberglass guy insulator

A	B	C	D	E	F	G	H	I
STRUCTURE #	GUY & ANCHOR #	REVISED ANCHOR # IF 2 GUYS GO TO 1 ANCHOR	GUY DIAMETER	ANCHOR DISTANCE FROM STRUCTURE	ATTACHMENT HEIGHT ON STRUCTURE	ANCHOR ELEVATION CHANGE MINUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	ANCHOR ELEVATION CHANGE PLUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	IF GUY GOES TO SAME ANCHOR AS ANOTHER GUY, INSTALL A ZERO IN PLACEOF A ONEFOR THAT GUY
21	1		5/8	97	97		10	1
	2		5/8	87	87		10	1
ADDED FOOTAGE	3		5/8	87	87		10	1
FOR WORKABILITY	4		5/8	87	87		10	1
4	5		5/8	97	97		10	1
LENGTH OF	6		5/8	97	97	12		1
GUY INSULATOR	7		5/8	89	89	12		1
IN FEET	8		5/8	89	89		15	1
	9		5/8	90	90		14	1
	10		5/8	98	98			1

the rest of the example data input sheet with no fiberglass guy insulator

J	K
IF NO GUY INSULATOR PLACE AZERO IN CELL FOR THAT GUY, IF GUY INSULATOR ON TOP OF GUY PLACE A ONE IN THE CELL FOR THAT GUY, IF GUY INSULATOR GOES IN THE MIDDLE OF THE GUY PLACE A TWO IN THE CELL FOR THAT GUY	MEASUREMENT IN FEETFIBERGLASS INSULATOR IS TO BE INSTALLED BELOW THE TOP OF THE GUY, IN CELLS BELOW
0	
0	
0	
0	
0	
0	
0	
0	
0	
0	

example guy length sheet with no fiberglass guy insulator

STRUCTURE #	21	GUY #	GUY DIAMETER	LENGTH TO CUT GUY WIRE	LENGTH TO CUT GUY WIRE WITH GUY INSULATOR AT THE TOP	IF GUY INSULATOR IN THE MIDDLE OF GUY: LENGTH TO CUT TOP GUY SECTION	IF GUY INSULATOR IN THE MIDDLE OF GUY: LENGTH TO CUT BOTTOM GUY SECTION
		1	5/8	148.42	0.00	0.00	0.00
		2	5/8	134.30	0.00	0.00	0.00
		3	5/8	134.30	0.00	0.00	0.00
		4	5/8	134.30	0.00	0.00	0.00
		5	5/8	148.42	0.00	0.00	0.00
		6	5/8	132.97	0.00	0.00	0.00
		7	5/8	121.69	0.00	0.00	0.00
		8	5/8	140.88	0.00	0.00	0.00
		9	5/8	141.54	0.00	0.00	0.00
		10	5/8	142.59	0.00	0.00	0.00

example data input sheet with a fiberglass guy insulator at the top of the guy

A	B	C	D	E	F	G	H	I
STRUCTURE #	GUY & ANCHOR #	REVISED ANCHOR # IF 2 GUYS GO TO 1 ANCHOR	GUY DIAMETER	ANCHOR DISTANCE FROM STRUCTURE	ATTACHMENT HEIGHT ON STRUCTURE	ANCHOR ELEVATION CHANGE MINUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	ANCHOR ELEVATION CHANGE PLUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	IF GUY GOES TO SAME ANCHOR AS ANOTHER GUY, INSTALL A ZERO IN PLACEOF A ONEFOR THAT GUY
21	1		5/8	97	97		10	1
	2		5/8	87	87		10	1
ADDED FOOTAGE	3		5/8	87	87		10	1
FOR WORKABILITY	4		5/8	87	87		10	1
4	5		5/8	97	97		10	1
LENGTH OF	6		5/8	97	97	12		1
GUY INSULATOR	7		5/8	89	89	12		1
IN FEET	8		5/8	89	89		15	1
8.00	9		5/8	90	90		14	1
	10		5/8	98	98			1

the rest of the example data input sheet with a fiberglass guy insulator at the top of the guy

J	K
IF NO GUY INSULATOR PLACE AZERO IN CELL FOR THAT GUY, IF GUY INSULATOR ON TOP OF GUY PLACE A ONE IN THE CELL FOR THAT GUY, IF GUY INSULATOR GOES IN THE MIDDLE OF THE GUY PLACE A TWO IN THE CELL FOR THAT GUY	MEASUREMENT IN FEETFIBERGLASS INSULATOR IS TO BE INSTALLED BELOW THE TOP OF THE GUY, IN CELLS BELOW
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	

example guy length sheet with a fiberglass guy insulator at the top of the guy

					LENGTH TO CUT GUY WIRE WITH GUY INSULATOR AT THE TOP	IF GUY INSULATOR IN THE MIDDLE OF GUY	
STRUCTURE #	21	GUY #	GUY DIAMETER	LENGTH TO CUT GUY WIRE		LENGTH TO CUT TOP GUY SECTION	LENGTH TO CUT BOTTOM GUY SECTION
		1	5/8	0.00	140.42	0.00	0.00
		2	5/8	0.00	126.30	0.00	0.00
		3	5/8	0.00	126.30	0.00	0.00
		4	5/8	0.00	126.30	0.00	0.00
		5	5/8	0.00	140.42	0.00	0.00
		6	5/8	0.00	124.97	0.00	0.00
		7	5/8	0.00	113.69	0.00	0.00
		8	5/8	0.00	132.88	0.00	0.00
		9	5/8	0.00	133.54	0.00	0.00
		10	5/8	0.00	134.59	0.00	0.00

example data input sheet with a fiberglass guy insulator down the guy a specified distance

A	B	C	D	E	F	G	H	I
STRUCTURE #	GUY & ANCHOR #	REVISED ANCHOR # IF 2 GUYS GO TO 1 ANCHOR	GUY DIAMETER	ANCHOR DISTANCE FROM STRUCTURE	ATTACHMENT HEIGHT ON STRUCTURE	ANCHOR ELEVATION CHANGE MINUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	ANCHOR ELEVATION CHANGE PLUS IN FEET FROM LEVEL, FROM STRUCTURE BASE	IF GUY GOES TO SAME ANCHOR AS ANOTHER GUY, INSTALL A ZERO IN PLACEOF A ONEFOR THAT GUY
21	1		5/8	97	97		10	1
	2		5/8	87	87		10	1
ADDED FOOTAGE	3		5/8	87	87		10	1
FOR WORKABILITY	4		5/8	87	87		10	1
4	5		5/8	97	97		10	1
LENGTH OF	6		5/8	97	97	12		1
GUY INSULATOR	7		5/8	89	89	12		1
IN FEET	8		5/8	89	89		15	1
8.00	9		5/8	90	90		14	1
	10		5/8	98	98			1

the rest of the example data input sheet with a fiberglass guy insulator down the guy a specified distance

J	K
IF NO GUY INSULATOR PLACE AZERO IN CELL FOR THAT GUY, IF GUY INSULATOR ON TOP OF GUY PLACE A ONE IN THE CELL FOR THAT GUY, IF GUY INSULATOR GOES IN THE MIDDLE OF THE GUY PLACE A TWO IN THE CELL FOR THAT GUY	MEASUREMENT IN FEETFIBERGLASS INSULATOR IS TO BE INSTALLED BELOW THE TOP OF THE GUY, IN CELLS BELOW
2	25
2	25
2	25
2	25
2	25
2	25
2	25
2	25
2	25
2	25

example guy length sheet with a fiberglass guy insulator down the guy a specified distance

					LENGTH TO CUT GUY WIRE WITH GUY INSULATOR AT THE TOP	IF GUY INSULATOR IN THE MIDDLE OF GUY	
STRUCTURE #	21	GUY #	GUY DIAMETER	LENGTH TO CUT GUY WIRE		LENGTH TO CUT TOP GUY SECTION	LENGTH TO CUT BOTTOM GUY SECTION
		1	5/8	0.00	0.00	25.00	115.42
		2	5/8	0.00	0.00	25.00	101.30
		3	5/8	0.00	0.00	25.00	101.30
		4	5/8	0.00	0.00	25.00	101.30
		5	5/8	0.00	0.00	25.00	115.42
		6	5/8	0.00	0.00	25.00	99.97
		7	5/8	0.00	0.00	25.00	88.69
		8	5/8	0.00	0.00	25.00	107.88
		9	5/8	0.00	0.00	25.00	108.54
		10	5/8	0.00	0.00	25.00	109.59

GUY LENGTH sheet

1. The Guy Length sheet tells you the length to cut your guy wires or sections of guy wire and how to number your guys if they are made up away from the structure. Each sheet in the guy length sheet will print data for up to four structures. If you don't need to print all of the sheets, specify the number of sheets you need to print in the print window. Each guy length column will have the guy length in the proper column for the type of guy you specified for it on the data input sheet.

example guy length sheet

					LENGTH TO CUT GUY WIRE WITH GUY INSULATOR AT THE TOP	IF GUY INSULATOR IN THE MIDDLE OF GUY	
STRUCTURE #	21	GUY #	GUY DIAMETER	LENGTH TO CUT GUY WIRE		LENGTH TO CUT TOP GUY SECTION	LENGTH TO CUT BOTTOM GUY SECTION
		1	5/8	0.00	140.42	0.00	0.00
		2	5/8	0.00	126.30	0.00	0.00
		3	5/8	0.00	126.30	0.00	0.00
		4	5/8	0.00	126.30	0.00	0.00
		5	5/8	0.00	140.42	0.00	0.00
		6	5/8	0.00	124.97	0.00	0.00
		7	5/8	0.00	113.69	0.00	0.00
		8	5/8	0.00	132.88	0.00	0.00
		9	5/8	0.00	133.54	0.00	0.00
		10	5/8	0.00	134.59	0.00	0.00
STRUCTURE #	0						
		1	0	0.00	0.00	0.00	0.00
		2	0	0.00	0.00	0.00	0.00
		3	0	0.00	0.00	0.00	0.00
		4	0	0.00	0.00	0.00	0.00
		5	0	0.00	0.00	0.00	0.00
		6	0	0.00	0.00	0.00	0.00
		7	0	0.00	0.00	0.00	0.00
		8	0	0.00	0.00	0.00	0.00
		9	0	0.00	0.00	0.00	0.00
		10	0	0.00	0.00	0.00	0.00
STRUCTURE #	0						
		1	0	0.00	0.00	0.00	0.00
		2	0	0.00	0.00	0.00	0.00
		3	0	0.00	0.00	0.00	0.00
		4	0	0.00	0.00	0.00	0.00
		5	0	0.00	0.00	0.00	0.00
		6	0	0.00	0.00	0.00	0.00
		7	0	0.00	0.00	0.00	0.00
		8	0	0.00	0.00	0.00	0.00
		9	0	0.00	0.00	0.00	0.00
		10	0	0.00	0.00	0.00	0.00
STRUCTURE #	0						
		1	0	0.00	0.00	0.00	0.00
		2	0	0.00	0.00	0.00	0.00
		3	0	0.00	0.00	0.00	0.00
		4	0	0.00	0.00	0.00	0.00
		5	0	0.00	0.00	0.00	0.00
		6	0	0.00	0.00	0.00	0.00
		7	0	0.00	0.00	0.00	0.00
		8	0	0.00	0.00	0.00	0.00
		9	0	0.00	0.00	0.00	0.00
		10	0	0.00	0.00	0.00	0.00

ANCHOR ANGLE sheet

1. The Anchor Angle sheet tells you the proper vertical angle to install your anchors. This will keep a more straight line pull allowing less ground deflection of your anchors with guy tension on them. This sheet will print up to 24 structures, four structure on each page. If you don't need to print all the sheets specify in the print window the number of sheets you need to print.

example anchor angle sheet

			REVISED ANCHOR NUMBER	PROPER ANCHOR ANGLE IN DECIMAL DEGREE'S
STRUCTURE #	21	ANCHOR #		
		1	0	47.81
		2	0	48.11
		3	0	48.11
		4	0	48.11
		5	0	47.81
		6	0	41.23
		7	0	40.87
		8	0	49.44
		9	0	49.13
		10	0	45.00
STRUCTURE #	0			
		1	0	0.00
		2	0	0.00
		3	0	0.00
		4	0	0.00
		5	0	0.00
		6	0	0.00
		7	0	0.00
		8	0	0.00
		9	0	0.00
		10	0	0.00
STRUCTURE #	0			
		1	0	0.00
		2	0	0.00
		3	0	0.00
		4	0	0.00
		5	0	0.00
		6	0	0.00
		7	0	0.00
		8	0	0.00
		9	0	0.00
		10	0	0.00
STRUCTURE #	0			
		1	0	0.00
		2	0	0.00
		3	0	0.00
		4	0	0.00
		5	0	0.00
		6	0	0.00
		7	0	0.00
		8	0	0.00
		9	0	0.00
		10	0	0.00