	Calculator Click-	Power					
PPM	3.5	l oute.	1.459				
Base Recharge (s)	10	Area Modifier	1.344				
Cast Time (s)	2.17	MRT	10.000				
Radius (ft)	9	*if it's not an AoE, set Rad	dius = 0				
Arc (deg)	90	*if it's not a cone, set Arc	= 360				
Desired Proc Probability	90.00%	Desired Recharge Amt.	-46.149%				
Enhanced Recharge	0	Proc Probability	52.811%				
	Auto/Toggle	e/Pseudopet					
PPM	7						
Radius (ft)	8	*If auto-power, make Rad	ius = 0				
Area Factor	2.200						
Area Modifier	1.900						
Proc Probability	61.404%						
		-Power					
PPM	3.5	Area Factor	4.750				
Base Recharge	60	Area Modifier	3.813				
Cast Time	2.508	MRT	31.579				
Max Targets	5	*AF = 1 + 0.75 *MaxTarget	S				
Desired Proc Probability	90.00%	Desired Recharge Amt.	6.547%				
Enhanced Recharge	90.00%	Proc Probability	52.155%				
<u> </u>							
Legend							
Input	edit						
Formula Fields	don't edit						

Proc or	DMG Enhanc	ement?								
Base Damage	100									
Level	50									
Percentages	Standard	Epic								
PPM	3.5	4.5								
Proc Damage:	71.75	107.09								
Click	37.892%	72.714%								
A/T/P	22.029%	42.272%								
Chain	37.421%	71.810%								
**										

Proc or DMG Enhancement Calculator

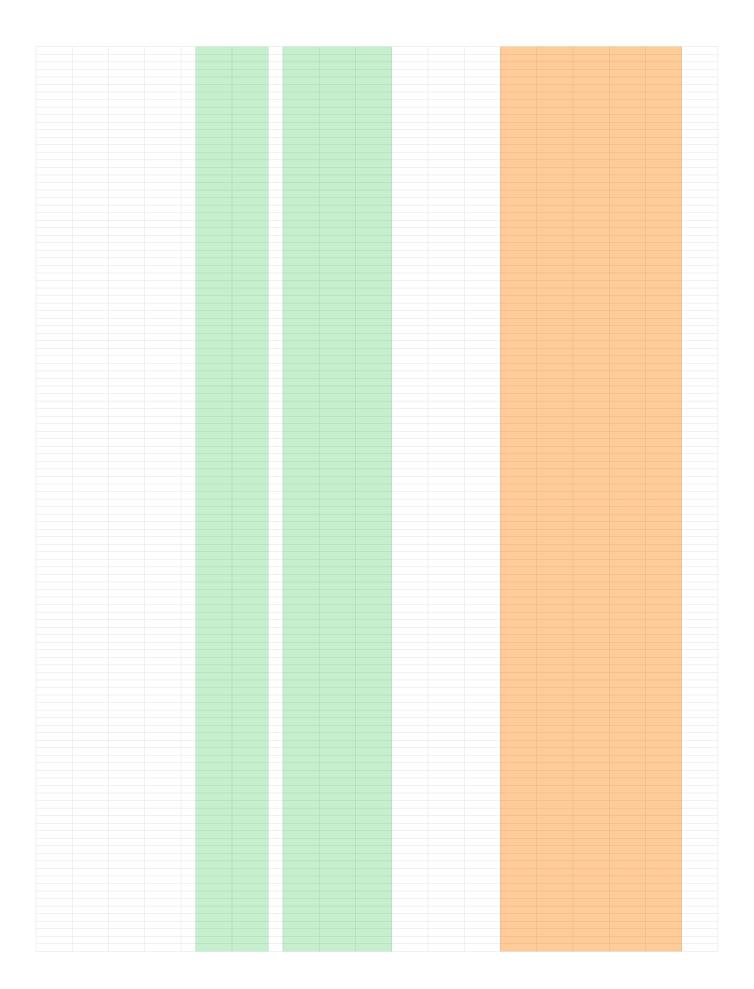
Calculate the equivalent amount of added Damage Enhancement a Proc provides. Use this to determine if it is better to slot another Damage Enhancement or to use a Proc.

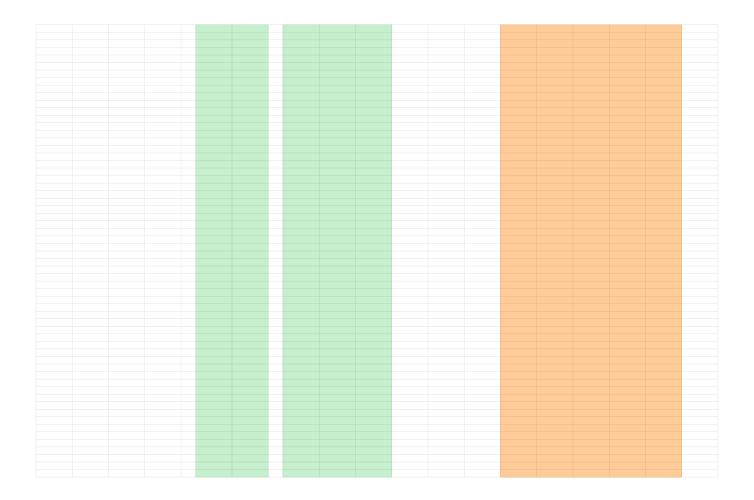
- Instructions
 Input the base amount of damage the power does (at your selected level, with no buffs/enhancements)
 Select your Level (Damage Procs scale by level)
 Input the PPM amounts for Standard and Epic damage procs
- Equivalent Damage Enhancement percentages will calculate based on the inputs of the Proc Probability Calculators.

https://forums.homecomingservers.com/topic/5290-procs-per-minute-ppm-information-guide/

P	Proc	Damage			Proc Damage	
.evel	l Epic	Damage	Damage	Combat Level	Epic Damage	Damage
	1	107.09	71.75	25	58.69	39.32
	1	106.78	71.54	24	55.86	37.43
	1	106.47	71.34	23	53.07	35.55
	1	105.96	71.00	22	50.31	33.70
	1	105.26	70.52	21	47.59	31.89
	1	104.36	69.92	20	44.93	30.11
	1	103.27	69.19	19	42.34	28.37
	1	102.00	68.34	18	39.81	26.67
	1	100.55	67.37	17	37.35	25.03
	9	98.94	66.29	16	34.97	23.43
	9	97.16	65.10	15	32.68	21.89
	9	95.23	63.81	14	30.47	20.41
	9	93.17	62.42	13	28.35	18.99
	9	90.97	60.95	12	26.31	17.63
		88.65	59.40	11	24.38	16.33
		86.23	57.77	10	22.53	15.10
		83.71	56.08	9	20.78	13.92
		81.10	54.34	8	19.12	12.81
	-	78.43	52.55	7	17.55	11.76
		75.69	50.71	6	16.08	10.77
		72.91	48.85	5	14.69	9.84
		70.09	46.96	4	13.39	8.97
		67.25	45.06	3	12.18	8.16
		64.39	43.14	2	11.05	7.40
		61.54	41.23	1	10.00	6.70

Symbol																		
Name Cast Time Base Recharge Duration		Your Powe	r Information		Pe	ermanent Re	charge Buffs		Temporary Rechar	ge Buffs				6.44	Sorted Tem	porary Buffs	+2)	
Part Composition Composi	Nome		1	Durantina						_			N				Iterative	Initial
Set Name Recharge films Recharge f																		
Ageless 0 10.00% 60 38.59% 89.9156631 Chrono Shift 89.320 92.164 Somewhat Culcid Reflexes 0.00% Ageless 0 10.00% 60 Fixed this Ageless 0 10.00% 30 38.59% 89.9156631 How Much Recharge to become Perma? Name Cast Time Base Recharge Upuration Hasten 0.73 450 120 Full perma (include Cast Time) (ignore cast Time) (ign					Enh	nancements	95.90%	Chrono Sh	ift 50.00%	90		* Edit this	Ageless120	10.00%	120	335.90%	89.90771063	
Ageless120 10.00% 120 Ageless10 40.00% 10 385.90% 89.91966831 Name Cast Time Base Recharge Duration Histan 0.73 450 120 Flory Perna (include Cast Time) (ignore Cast Time) 277.51% 25.00% Introc // Introc								Ageless30	10.00%	30	Calculation	* Don't edit this	Ageless60	10.00%	60	385.90%	89.91966831	
Name Cast Time Base Recharge Duration Hasten 0.73 450 120 Fully Perma (Include Cast Time) (Ignore Cast Time) 277.91% 225.00% https://forums.homecomingservers.com/nopic/12685-rcharge-guide/ Description: This tool will allow you to calculate the exact time to recharge a power based on its Base Recharge, your Permanent Recharge Buffs (Islasse is 100%, then between this experiment. Islasse is 100%, then between the common time of the common time o	Chrono Shift	89.920	92.164	Somewnat					0 10.00%	120	Fixed	* Don't edit this	Ageless 10	40.00%	10	385.90%	89.91966831 89.91966831	
Fully Perma Mostly Perma (include Cast Time) (ignore Cast Time)																		
(Ignore Cast Time) (Ignore Cast Time) 275.09% https://forums.homecomingseners.com/nopid/12684-recharge-guide/ Description: This tool will allow you to calculate the exact time to rechange a power based on its Base Recharge, your Permanent Recharge Buffs (Base is 100%, then you have enhancements, set bounses, etc.), and Temporary Recharge buffs. If your power has a Duration, you can also determine whether or not its effects will be permanent. Input the details of your power in the "Your Power Information" on the top left. Then, insert the Permanent Recharge buffs you have in your build (Name is not required, the Amount's ki). The Permanent Recharge buffs can be combined if you like. Finally, input the Temporary Recharge Buffs individually (Id not combine). Once again, the Name is not needed for the Temporary Recharge Buffs in (June 1) and Duration are required. The tool will sort your Temporary Recharge Buffs in columns. O through S, then will us one letterative collastions to determine what the final recharge will be. You recharge will always be the final calculation.																		
### 177.95% ### 1	Fully I (include	Perma Cast Time)	Mostly (ignore C	Perma (ast Time)														
Description: This tool will allow you to calculate the exact time to recharge a power based on its Base Recharge, your Permanent Recharge Buffs [Base is 100%, then you have enhancements, set bonuse, etc.), and Femporary Recharge buffs. [Base is 100%, then you have enhancements, set bonuse, etc.), and Femporary Recharge buffs. [If your power has a Duration, you can also determine whether or not its effects will be permanent. Input the details of your power in the "Your Power Information" on the top left. Then, insert the Permanent Recharge buffs you have in your buff (Mane's for tequired, the Amount sis). The Permanent Recharge buffs will be permanent Recharge buffs on the combined fly on the (Final), input the Recharge buffs can be combined fly on the (Final), input the Remorary Recharge Buffs individually (on to combine). Once greater the Remorary Recharge Buffs individually in Pecharge Buffs (in a final recharge Buffs individually in columns O through S, then will uson the Internation and Duration are required. The tool will sort your Temporary Recharge Buffs in columns O through S, then will uson the Internation Calculations to determine what the final recharge will be. You recharge will always be the final calculation. Whatever you do, don't edit the Calculation to calculation to determine what the final recharge will be. You recharge will always be the final calculation.	277	.91%																
This tool will allow you to calculate the exact time to recharge a power based on its Base Recharge, you Permanent Recharge Buffs [Base is 100%, then you have enhancements, set bonuses, etc.), and remporary Recharge buffs if your power has Duration, you can also determine whether or not its effects will be permanent. In position to the details of your power in the "Your Power Information" on the too left. Then, insert the Permanent Recharge buffs you have in your build (Name is on trequired, the Annount % is). The Permanent Recharge buffs you have in your build (Name is on trequired, the Annount % is). The Permanent Recharge buffs individually (In not combine). Once again, the Name is not needed for the Temporary Recharge Buffs individually (In on combine). Once again, the Name is not needed for the Temporary Recharge Buffs individually but the Annount and Duration are required. The tool will sort your Temporary Recharge Buffs in columns O through S, then will not some treative calculations to determine when the streative calculation to determine when the Standard	https://forums.h	homecomingserve	ers.com/topic/126	85-recharge-guid	le/													
(Base is 10%, then you have enhancements, set bonuses, etc.), and remporary Recharge buffs. If your power has a Duration, you can also determine whether or not its effects will be permanent. Iniput the details of your power in the "Your Power Information" on the top left. Then, insert the Permanent Recharge buffs you have in your build (Name is not required, the Amount % is). The Permanent Recharge buffs in the "Recharge buffs on the combined if you like. Finally, input the Temporary Recharge Buffs individually (do not combine). Once again, the Name is not needed for the Remporary Recharge Buffs individually (do not combine). Once again, the Name is not needed for the Remporary Recharge Buffs in the Temporary Recharge Buffs in columns O through S, them will us now in terative calculations to determine what the final recharge will be. You recharge will always be the final calculation. Whatever you do, don't edit the Calculation coles (orange), that can	This tool will allo	ow you to calculat	te the exact time to	o recharge a														
linput the details of your power in the "Your Power Information" on the top left. Then, insert the Permanent Recharge buffs you have in your bould (Name is not required, the Amount % is). The Permanent Recharge buffs you have in your build (Name is not required, the Amount % is). The Permanent Recharge buffs individually (do not combine). Once again, the Name is not needed for the Remporary Recharge Buffs individually (do not combine). Once again, the Name is not needed for the Remporary Recharge Buffs in columns O through S, then will run some interative columns on a required. The tool will sort your Temporary Recharge Buffs in columns O through S, then will run some iterative columns on the columns of the run of t	(Base is 100%, th	hen you have enh	ancements, set bo	nuses, etc), and														
the top left. Then, insert the Permanent Recharge buffs you have in your build (Name is on trequired, the Amount's ki). The Permanent Recharge buffs can be combined if you like. Finally, input the Temporary Recharge Buffs individually (do not combine). Once again, the Name is not needed for the Temporary Recharge Buffs (if t's a nice to havely, buff the Amount and Duration are required. The tool will sort your Temporary Recharge Buffs in columns. O through S, the multi usone leterative calculations to determine what the final recharge will be. You recharge will always be the final calculation. Whatever you do, don't edit the Calculation cells (orange), that can	also determine v	whether or not its	s effects will be pe	rmanent.														
Recharge buffs can be combined if you like. Finally, input the Impropary Recharge Buffs individually (do not combine). Once again, the Name is not needed for the Temporary Recharge Buffs (if a nice to have), but the Amount and Duration are required. The tool will sort you' Temporary Recharge Buffs in columns O through S, then will un some iterative calculations to determine what the final recharge will be. You recharge will always be the final calculation. Whatever you do, don't edit the Calculation cells (orange), that can	the top left. The	n, insert the Pern	nanent Recharge b	uffs you have in														
(It's a nice to have), but the Annount and Duration are required. The tool will sort your Temporary Recharge Buffs in columns O through S, then will run some Interative calculations to determine what the final recharge will be. You recharge will always be the final calculation. Whatever you do, don't edit the Calculation cells (orange), that can	Recharge huffs of	an he combined i	if you like Finally i	innut the														
The tool will sort your Temporary Recharge Bulfs in columns O through S, then will run some iterative calculations to determine what the final recharge will be. You recharge will always be the final calculation. Whatever you do, don't edit the Calculation cells (orange), that can	Temporary Rech again, the Name	arge Buffs Individ	r the Temporary R	echarge Buffs														
through S, then will run some lerative calculations to determine what the final recharge will be. You recharge will always be the final calculation. Whatever you do, don't edit the Calculation cells (orange), that can																		
Whatever you do, don't edit the Calculation cells (orange), that can	through S, then what the final re	will run some iter	rative calculations	to determine														
	calculation.																	
	Whatever you de easily break the	o, don't edit the (tool	Calculation cells (o	range), that can														
																		-





Pylon Time	DPS Calcula	ator		
	Traditiona	l Formula		Legend
Hit Points	30677.15			Fixed don't edit
Regen (HP/sec)	102.2572			Input edit
Resistance	20.00%			Formula Fields don't edit
Time	140.000	DPS	401.725	
DPS	342.000	Time	179.040	
				NOTES:
				1) The New Formula incorporates where regeneration ticks land to determine a more accurate estimation of your DPS.
	New Fo	rmula		The Traditional Formula assumes the Pylon is regenerating some hit points every second, which is not true.
Hit Points	30677.15			
Regen (HP/sec)	102.2572			2) Although it wouldn't be difficult to implement, regeneration debuffs are not factored into the calculation.
Resistance	20.00%			
				3) The New Formula offers a range of outcomes. Based on the limitations of time stamps only showing down to
Time-start	0.000	DPS-worst	269.623	whole second accuracy, the DPS-worst and DPS-best capture the range of times by assuming time
Time-1st DMG	2.000	DPS-mid	270.681	events occured at the extremes of a whole second block. The DPS-mid assumed all times occured
Time-end	255.000	DPS-best	271.746	exactly at the half-second mark of each time recording.
				4) Fun fact, it's possible to have a slower time but actually have a higher DPS. If an extra regen tick occurs, causing
				you to have to do more total damage, it's possible to make up in average DPS if you can kill fast enough
				on the extra tick of health. Use 2s for 1st damage, and compare end times of 255s and 258s to see for yourself
				https://forums.homecomingservers.com/topic/871-pylon-damage-thread/?do=findComment&comment=219550

14 ASSauli	Hybrid Com	iparator						
							Logond	1
Click Power							Legend Edit Fields	
Click Fower	B	D				Edward	Formula Fields	
Power	Base Damage	Base Cooldown	Cast Time	Radius	Arc	Enhanced Recharge	(Don't Edit)	
KoB	200	25	2.23	0	0	0.00%		
Core (select)	Core 75% DMG	Radial Dbl-Hit DMG	Double-Hit Chance	Net Difference			Core Wins	Radial Wins
75%	150	186.764	90.00%	-18.088				
					1			
Toggle/ Pseud	opet							
Power	Base Damage	Activate Period	Radius					
Mud Pots	9.51	2	8					
Core (select)	Core 75% DMG	Radial Dbl-Hit DMG	Double-Hit Chance	Net DPS				
75%	7.133	4.284	52.63%	3.341				
. • , 0		0.	02.0070	0.011				
Notes:								
		-			nly T4 is currently			
						dial on Toggle/Pseudo	pet powers is horrible.	
nttps://forums.	nomecomingserve	ers.com/topic/7404	<u>I-what-the-hell-i</u>	s-doublehit-a-hyb	rid-assault-guide/			
Assault Radial	ormulas							
Γier	PPM	Scale		Click Attack	Damage = Scale	c 0.2 x [0.8 x minmax(R	techarge, 1s, 30s) + 1.8] x 107.09	/ AreaFactor
Tier 2 (R.G)	2	0.2		Toggle/Pseudo	Damage = Scale	c 0.11 x minmax(Activa	ntionPeriod, 0s, 2s) x 107.09 / Ar	eaFactor
Tier 3 (P.C.G)	4	0.1			AreaFactor = 1 +	Radius x (11 x Arc + 54	0) / 30,000	
Tier 3 (P.R.G)	4	0.2						
Tier 3 (T.R.G)	4	0.3						
Γier 4 (R.E.)	6	0.4						

ancel-on-Miss [OoT Calculator							
obability to Tick	75%		Legend	1	Ticks	Prob(X=Ticks)	Prob (X ≥ Ticks)	Prob (X < Ticks
ax # of Ticks	4		Input	* Edit this	11CKS	25.00%	100.00%	0.00
amage per Tick	0.137		Calculation		1	18.75%	75.00%	25.00
					2	14.06%	56.25%	43.75
erage # Ticks	2.0508				3	10.55%	42.19%	57.81
erage Damage	0.2810				4	31.64%	31.64%	68.36
ps://forums.homecon	ningservers com/tor	nic/15370-interface.	-damage-over-time	-dot-procs-how-to-	5	0.00%	0.00%	100.00
antify-their-effects/	mingservers.com/top	olo/10070-interface	-damage-over-time	-dot-procs-now-to-	6	0.00%	0.00%	100.00
					7 8	0.00% 0.00%	0.00% 0.00%	100.00 100.00
<u>escription:</u> ere are some Damad	ne-over-Time (DoT)	effects in the game	that are cancel-or	n-miss. This means	9	0.00%	0.00%	100.00
ch tick of damage ha	s a chance to fail, a	nd if it does, the Do	oT will stop. The pu	irpose of this tool	10	0.00%	0.00%	100.00
o answer two question					11	0.00%	0.00%	100.0
ss DoT?" and "How r t you input the Proba					12	0.00%	0.00%	100.0
nieve, and the amour	nt of damage each t	ick would do. Belov	w it, the average nu	umber of ticks and	13	0.00%	0.00%	100.0
average damage ar					14	0.00%	0.00%	100.0
culated, and the cum culating the Probabil			snown. The last co	blumn is used for	15	0.00%	0.00%	100.00
-	nty or root and rot at	no occumig.			16	0.00%	0.00%	100.0
ommon Example:					17	0.00%	0.00%	100.0
ch Interface DoT are iants: 25% chance to					18	0.00%	0.00%	100.0
nage: Minor (10.71 o	damage per tick) an	d Moderate (13.39	damage per tick).	If you use T4	19	0.00%	0.00%	100.0
active Radial (75% c					20 21	0.00%	0.00%	100.0
nage), but if you use s of damage (4.46 a		(∠5% cnance), you	can expect on ave	rage only 0.333	21	0.00% 0.00%	0.00% 0.00%	100.0 100.0
o or damage (1. 10 a	iverage damage).				23	0.00%	0.00%	100.0
					23	0.00%	0.00%	100.0
					25	0.00%	0.00%	100.0
					26	0.00%	0.00%	100.0
					27	0.00%	0.00%	100.0
					28	0.00%	0.00%	100.0
					29	0.00%	0.00%	100.0
					30	0.00%	0.00%	100.0
					31	0.00%	0.00%	100.0
					32	0.00%	0.00%	100.0
					33	0.00%	0.00%	100.0
					34	0.00%	0.00%	100.0
					35	0.00%	0.00%	100.0
					36	0.00%	0.00%	100.0
					37	0.00%	0.00%	100.0
					38	0.00%	0.00%	100.0
					39	0.00%	0.00%	100.0
					40	0.00%	0.00%	100.0
					41	0.00%	0.00%	100.0
					42	0.00%	0.00%	100.0
					43	0.00%	0.00%	100.0
					44	0.00%	0.00%	100.0
					45	0.00%	0.00%	100.0
					46	0.00%	0.00%	100.0
					47	0.00%	0.00%	100.0
					48	0.00%	0.00%	100.0
					49 50	0.00% 0.00%	0.00%	100.0
					50	0.00% 0.00%	0.00% 0.00%	100.0 100.0
					52	0.00%	0.00%	100.0
					53	0.00%	0.00%	100.0
					54	0.00%	0.00%	100.0
					55	0.00%	0.00%	100.0
					56	0.00%	0.00%	100.0
					57	0.00%	0.00%	100.0
					58	0.00%	0.00%	100.0
					59	0.00%	0.00%	100.0
					60	0.00%	0.00%	100.0
					61	0.00%	0.00%	100.0
					62	0.00%	0.00%	100.0
					63	0.00%	0.00%	100.0
					64	0.00%	0.00%	100.0
					65	0.00%	0.00%	100.0
					66	0.00%	0.00%	100.0
					00	0.00 /8	0.00 /6	
					67	0.00%	0.00%	100.0

Cancel-on-Miss	DoT Calculator						
Probability to Tick	75%	Legend		Ticks	Prob(X=Ticks)	Prob (X ≥ Ticks)	Prob (X < Ticks)
max # of Ticks	4	Input	* Edit this	0	25.00%	100.00%	0.00%
Damage per Tick	0.137	Calculation	* Don't edit this	1	18.75%	75.00%	25.00%
				2	14.06%	56.25%	43.75%
Average # Ticks	2.0508			3	10.55%	42.19%	57.81%
Average Damage	0.2810			4	31.64%	31.64%	68.36%
				69	0.00%	0.00%	100.00%
				70	0.00%	0.00%	100.00%
				71	0.00%	0.00%	100.00%
				72	0.00%	0.00%	100.00%
				73	0.00%	0.00%	100.00%
				74	0.00%	0.00%	100.00%
				75	0.00%	0.00%	100.00%

Enter Total Debuffs				Enter Target's Original	Resistance		Target's Final Debuffs	
Type	Amount	Î	Ī	Type	Resistance	Final Resistance Debuff	New Resistance	Final Damage Debuff
Resistance	19.20%			Smashing	0.00%	19.20%	-19.20%	14.80%
Resistance (unresistable)	0.00%			Lethal	10.00%	17.28%	-7.28%	13.99%
Damage	6.75%			Fire	25.00%	14.40%	10.60%	12.78%
Damage (unresistable)	6.75%			Cold	50.00%	9.60%	40.40%	10.77%
Enemy Con	<u>0</u>			Energy	75.00%	4.80%	70.20%	8.76%
Purple Patch Effect	100.00%			Negative	85.00%	2.88%	82.12%	7.96%
				Psionic	87.00%	2.50%	84.50%	7.80%
				Toxic	90.00%	1.92%	88.08%	7.55%
Enter Total Debuffs			Enter 1	Target's Original Debuff	Resistance		Target's Final Debuffs	
Type	Amount	1 [PP	Type	Resistance	Final Resistance Debuff	New Debuff Resistance	Final Debuff
Resistance	153.05%		1.00	General +0	95.00%	58.90%	36.10%	12.78%
Resistance (unresistable)	20.25%		1.00	AV +0	85.00%	74.20%	10.80%	17.84%
Debuff	20.00%		0.48	General +4	0.00%	90.32%	-90.32%	18.27%
Debuff (unresistable)	0.00%		0.48	AV + 4	87.00%	26.41%	60.59%	3.78%
Enter Total Debuffs			Enter 1	Target's Original Debuff	Resistance		Target's Final Debuffs	
Туре	Amount		PP	Туре	Resistance	Final Resistance Debuff	New Debuff Resistance	Final Debuff
Resistance	0.00%		1.00	General +0	0.00%	0.00%	0.00%	46.88%
Resistance (unresistable)	0.00%		1.00	AV +0	85.00%	0.00%	85.00%	7.03%
Debuff	46.88%		0.48	General + 4	0.00%	0.00%	0.00%	22.50%
Debuff (unresistable)	0.00%		0.48	AV + 4	87.00%	0.00%	87.00%	2.93%
, ,								
Notes/Description	https://forum	ns homer	omina	servers com/tonic/212	51-how-to-calcu	late-dehuffs/		

This calculator was originally developed as a way to calculate the final damage debuff of an enemy's damage type after factoring in the enemy's resistance to that damage type and the resistance debuffs applied to the enemy.

The tool was then expanded to apply the same calculations for debuffs other than damage. For instance, and enemy may have a resistance to Regeneration debuffs and you might apply a resistance debuff to Regeneration [e.g. Res(Regeneration)]. The resistance debuff to regeneration acts the same way as a resistance debuff to damage: your Regeneration Debuffs will become stronger much like how Damage Debuffs will become stronger.

The top calculator is intended for evaluating the Resistance debuff and/or Damage debuff of an enemy. You input your resistance debuffs, both resistable and unresistable (although unresistable resistance debuffs are incredibly rare and likely a bug). You also input your damage debuffs, both resistable and unresistable. Finally, you select the enemy's con level for purposes of applying the purple patch modifier. You then input the enemy's resistance to each damage type and the calculator will output the final amount of resistance debuff, the new resistance of the enemy, and the final damage debuff of the enemy.

The bottom 2 calculators are the same. They are used for calculating the final debuff (regeneration, to-hit, defense, etc) when factoring that enemy's resistance to that type of debuff and when factoring in your resistance debuffs applied to that type of debuff. That is a mouthful, but here's an example. Let's say an enemy has a 50% resistance to recovery debuffs. You apply a 25% Res(Recovery) debuff on the enemy. Now their resistance to recovery becomes 50% x (1 - 50%*25%) = 37.5%. Next, you apply a 80% recovery debuff on this enemy. They can only resist 37.5% of that debuff and will now have their recovery debuffed by 80% x (1 - 80%*37.5%) = 50%. Those calculations are what you are able to do with the bottom 2 calculators.

Just like before, you input the resistance debuff amount (both resistable and unresistable), and you input the debuff amount (both resistable and unresistable). Next, you are able to run up to 4 calculations using those numbers. You input the Purple Patch Effect and the Resistance that the enemy has to this particular debuff. The Final Resistance Debuff, New Debuff Resistance, and Final Debuff Amount all get calculated for each of the 4 scenarios.

Select Your Archetype		Enter Your De	f/Res Value		Max Values for your AT		Time until Death	Melee	Ranged	AoE	No Position	E	hetype Inform	ation (based	on Paragon	Wiki)				Critter Rank	Acc Mod	Critter Level Acc N	led To Hit I	Mod Purple Patch	Purple Patch (En
Archetype	Brute	Type	Defense	Pariettanea															Regeneration						
жилинуры	<u> </u>	,,,,			HP (base)	1499.3	Smashing	1.0	1.0		.01 1.01					generation (max)		HP Boost ma	x (base)	Minion	1.00	-3 1.0			
		Melee	0.00%	0.00%	HP (max)	3212.7	Lethal	1.0			.01 1.01		ster		1847.3	2000%					1.15	-2 1.0			
Enter Your Health Bonuses		Ranged	0.00%	0.00%	Regeneration (max)	2000.00%	fire	1.0.	1.0	1.	.01 1.01		ntroller		1606.4	2000%	75	% 585			r 1.30	-1 1.0	-109		
Max HP Boost (%)	0.00%	AoE	0.00%	0.00%	Resistance (max)	90.00%	Cold	1.0					ender		1606.4	2000%				Monster, GM, AV	1.50	0 1.0			
Regeneration (%)	100.00%	Smashing		0.00%		_	Energy	1.0			.01 1.01		apper		2409.5	3000%						+1 1.0			
Additional Heal over Time (HPS)	0	Lethal		0.00%	Your Health Calculations		Negative	1.0			.01 1.01		tinel	1204.8		2000%						+2 1.2			
		fire	0.00%	0.00%	Resistance	0.00%	Psionic	2.0			.01 1.01		iker	1874.1		2500%						+3 1.3			
Enter Your Debuffs		Cold		0.00%	Defense	0.00%	Texic	1.0			.01 1.01		cebringer		2409.5	2000%						+4 1.4			
Damage Debuff	-50.00%	Energy		0.00%	Max Health	1499.3	Max DPS for Survival Duration		Ranged		No Position		rshade		2409.5	2000%						+5 1.5			
To Hit Debuff	0.00%	Negative	0.00%	0.00%	Regen Period (5% HP every X sec)	22.000	Smashing	5.8.			.87 5.87		ruptor	1070.9		2000%						+6 1.5			
		Psionic		0.00%	HP per Regen Tick	74.965	Lethal	5.8.			.87 5.87		minator	1017.4		2000%						+7 1.5			
Enter Your Enemy's Attack Info		Taxic	0.00%	0.00%	HP/sec	6.247	Fire	5.8.			.87 5.87		stermind		1606.4	2000%						+8 1.5			
Attack Damage Per Second Desired Survival Duration (seconds)	1000	Lecend	_			_	Cold	5.8.			.87 5.87		te lker	1499.3		2000%						+9 1.5			
					Your Damage Taken Calculations		Energy	5.8.			.87 5.87			1204.8		3000%						+10 1.5	40%	0.03	2.10
Attack Type Damage Type	Melec	Input Drog-Down	edit		Damage Taken (after Resistance)	1762.25	Negative	5.8.			.87 5.87		chnos Soldier	1070.9		2000%									
Enemy To Hit	Smashing 50,00%	Colculation			Total Accuracy Mods (product)	1.69	Psionic Toxic	5.8.			.87 5.87		chnos Widow	1070.9	2409.5	2000%	85	% 1255	10.00						
Enemy Accuracy Modifier	1.00	Fixed Value			Total ToHit Mods (sum) Probability to Hit	50.00% 84.50%		5.8 Melee	Ranged		.87 5.87 No Position														
Enemy Accuracy Modifier Enemy Type		Total value	DUIT L' VOIL		Average Damage Taken Per Second		Survivability Score Smashing	0.7			75 0.75		tes on how to u		44										
Enemy Relative Level	+3				Average Damage Taken Per Second	2489.101	Lethal	0.7			75 0.75						1 ft			ed to be editted. Everyth	to a state of				
Literal Measure Level	19				Your Survivability Calculation	_														ed to de editted. Everyth age Type, Enemy Type as					
	Management and another				Time until Death (seconds)	-	Fire Cold	0.73			.75 0.75	2)				looking up into to nd the fields will u		is: Archetype, A	ttack Type, Dam	age Type, Enemy Type as	nd Enemy Relat	ive Level.			
Number of Pets	Mastermina only					1.01		0.73			.75 0.75														
Bodyguard Damage Taken					Max DPS for Survival Duration	5.87	Energy	0.73			.75 0.75	3)						To Hit modifier,	so feel free to a	djust as necessary.					
bodyguard Damage raken	100.00%				Survivability Score	0.75	Negative	0.7			.75 0.75					se is the incarnate									
					Immortality Score	4.20	Psionic	0.7			.75 0.75					cause it is a nice				ppropriate.					
							Texic	0.7			.75 0.75					Average Damage									
							Immortality Score	Melee	Ranged		No Position	6)				nation field is all b		rs I found on Pa	ragon Wiki, whi	ch is outdated.					
							Smashing	4.21			.20 4.20					wrong, feel free!									
							Lethal	4.21			.20 4.20						el of the enemy.	If you don't wi	int those modifi	ers, select Minion and +0	1				
							Fine	4.21			.20 4.20		Added Bodygua												
							Cold	4.21			.20 4.20							red (ToHit, Dam	rage) and it will	give a damage bonus to t	the enemy.				
							Energy	4.21			.20 4.20	bt	os://forums.hor	necomingse	rvers.com/to	pic/12212-the-su	rvivability-tool/								
							Negative	4.21	4.1	20 4.	.20 4.20														
							Psionic	4.21	4.1		.20 4.20														
							Texic	4.21	4.1	20 4.	.20 4.20														

Part						Formu	ılas											C	onst	ants					
March Application Applic	Legend								Area Factor Calcula	ator				AT and End Constants	,					PVE AT D	hoM anema	fiare		Level	Rese Demons
Section Company Comp	Input	edit									/ 30000					*Hsec	in End	urance	Calculations				anged		
Controlled Con	Drop-Down			are editable fields in	tended for the user to	plug in numbers for	their desired																		
Control of Control o		don't edit					Advanture and a description		80	5															
Contract	Calculation	don't edit							^ See note 2 for "go	ntrha" on melee cons	ns.														
Contract Count Principle 1 1 1 1 1 1 1 1 1																					0.5	50 0	0.650	46	
Enchange Technology Techn									Damage Calculation	on:				PvP Constants						Controller	0.5	50 0	0.550	45	54.2642
Rechange Time Air Fact Consisted Annual Factor Scales Endurance		Damage Formula: S	cale = 0.2 x (0.8 x R	echarge + 1.8) / Are	eaFactor				DMG = Scale x L	viMod x ATMod				Control Class PVP Hold Duration	4					Brute	0.7	50 0	0.750	44	53.7426
## 1,000 control of the control of t		Endurance Form	ila: END = 2 x (0.	8 x Recharge + 1	.8) x EndConstant	x ATConstant			Scale	Level	AT Modifier	Damage		Non-Control class PVP Hold Duration	2					Stalker	1.0	00 0	0.600	43	53.1404
Solid		Recharge Time	AT End Constant	Area Factor *	Scale	Endurance *			1.96	50	0.95	103.546		PVP Elusivity Bonus	0.3					Corrupter	0.7	50 0	0.750	42	52.4628
Secondary 1,000	0.2102425876	7.5	Non-MM End Const	1.237	1.2614555256	8.112				*Pulls from fixed va	alues in Columns Z:A	A								Dominator	1.0	50 0	0.950	41	51.7150
Year Anneal Factor From SC ** User Endocument from P P P P P P P P P P		Scale	AT End Constant	Area Factor *	Recharge Time	Endurance *														Mastermin	d 0.5	50 0	0.550	40	50.9022
Cast Time DAM Multiplier Nov Code	0.09460916442	0.84	Non-MM End Const	1.237	4.24	5.402			Formula for Anima	ition Length Damage	Multiplier:									Kheld	0.8	50 0	0.800	39	50.0299
Scale (Cast Time - Interrupt Time) 2 0 1 - Rechange x 0.0 4 + 0.4 () American Constitution 1.00 1				*Uses Area Factor	from K5	* Uses EndConstan	t from P3		y = 2 x CastTime	/ (1.50 + CastTim	e)									Nova	-	- 1	1.200	38	49.1033
Scale (CoastTime = InterruptTime) to 27 + Recharge 20.4 + 0.4 Area Factor									Cast Time	DMG Multiplier	New Scale *									Dwarf	1.0	00		37	48.1279
Accordance Time Accordance Time Accordance Time Accordance Time		PvP Damage Formu	la:						2.53	1.256	1.584									Veat	1.0	00 1	1.000	36	47.1088
1.237 1.744 1.74		Scale = ((CastTin	e + InterruptTime) x 0.7 + Recharg	je x0.04 + 0.4) / Are	aFactor					* Calculates New I	Damage Scale from E5		PVP Damage Modifiers						Sentinel	1.2	20 1	1.370	35	46.0511
Part		Recharge Time	Cast Time	Interrupt Time	PvP Area Factor	Scale																		34	44.9599
Recommend Period Change	0.2990566038	7.5	2.17	0	1.237	1.7943			Boolean Resistanc	e:					Normal	DMG off	iet							33	43.8398
Canace Total CombatMod 1) - Defense Accuracy Canace Total CombatMod 1) - Defense Accuracy Canace Total CombatMod 1) - Defense Accuracy Canace Total Canada Canad	0.1435471698				*Typically, Area Fac	tor is 1.75 for AoEs,	except skinny cones		NewDur = Dur / (1 + Res)						Activati	on Time	DMG ad	ustment					32	42.6954
Chance (Total + CombatMod -1) - Defense) x Accuracy Chance To Hit CombatMod -1) - Defense X-Curacy Chance To Hit Y-2005 1 0.00% 104.30% 78.23% Strapper 0.4 0.7 0.04 1.1 Strapper 1.2 0.75 Strapper 0.4 0.7 0.04 1.2 Strapper 0.4 0.7 0.04 1.2 Strapper 1.2 0.75 Strapper 0.4 0.7 0.04 1.2 Strapper									Original Dur	Targets Res	New Duration						Rechar	ge DMG	adjustment	i25 PvP A	T Damage N	lodifi	ers *	31	41.5310
Total CombatMod Defense Accuracy Chance To Hit Total 1,000 1,0		Accuracy/ToHit					1		20		6.67							AT Mo	d DMG adjustme	Archetype	Mel	ee R	anged	30	40.3506
Section 1		Chance = (ToHit -	(CombatMod - 1)) - Defense) x Aco	curacy		1							Tanker	0.4	0.7	0.04	1.3		Tanker	1.0	04	0.83	29	39,1582
Section 1		ToHit	CombatMod	Defense	Accuracy	Chance To Hit								Scranner	0.4	0.7	0.04	1.1		Scranner	1.3	32	0.75	28	37.9571
Recharge Time, Interrupt Time) Defender 0.4 0.7 0.04 1.5 Corrobler 0.8 0.7 0.04 1.7			1						STR Only AttribMo	ads that affect time							0.04	1.2						27	
Display Disp		10.00.0					-		(Recharge Time	Interrunt Time)					0.4	0.7	0.04	16		Defender				26	
Section Continues Contin											New Time						0.04	1.7						25	
Use Pils to to cachylate the mellor effectivements of a DCT power when "Carroll on Milst" is set to Faller.		Damage Over Time	(DoT) Calculator					1																	
Scale Duration Period Chance Average Scale Average Damage 10,000 10,				offootivonoon of a	DoT nower when *C	oncol on Micc" ic o	ot to Enlan	1	300	70.00%	211.70	-													
## 1																									
Note: Note: No				renou					Endowner Disease	-1-		_													
Endurance = EffectMed x DurationScale x EffectStrength x EndConsent x ATConstant Effect Description EffectMed x DurationScale x EffectStrength x EndConsent x ATConstant Effect Description EffectMed x Duration (Scale) Strength (%) Endurance Strength (%) Endurance EffectMed x Duration (Scale) EffectMed x		0.2	4.1	1	100.00%	1.000	10.000				ENDD()	_													
Endurance = Effection Duration Scale x EffectStrength x EndConsant x AT Constant																								20	20.3072
Enformance = Effect/Mod x Duration/Scale x Effect/Strength x End/Consent x AT Consent Effect		Endowe Formula	for Chatra Effects				_																		
Effect Description Effect Mod Duration (Scale) Strength (%) Endurance *									25	132.00%	10.76	-		veat											
Single Value Stower 1 50 100,00% 5,000							I	-						Pet	0.4	0.7	0.04	_ 1_	-	Sentinel	1.3				
Story Story attacks rate 1.5									Faculty for those	a fitness with the fit time for													Estimated		
Introductive (1905). Cart walk 1 10 5 5.200 Siege O profring plut cell 1 30 5 15.600 Shun (100% Slove) Cent attack 1.5 10 1 7.800 Third Cent more or after 2.5 10 1 1.330 **Uses APConstant from C3 **Uses APC factor from K5 **Uses APC fac																									
See On ordining but can 1 30 1 1,5600 Shut (100% Soul) carriant cach 1,5 30 1 7,000 Hold Can't more or after 2,5 30 1 1,3000 *Uses Afficient from C3 *								-																	
Shur (100% Stow) Card ethack 1.5 10 1 7.000 Hold Card more or after 2.5 10 1 13.000 *Uses Card Constant from P3 *Uses Area Factor from K5 Uttes Area Factor from K5 Vises Area Factor from K5																									
told Cant more or after 2.5 39 1 1.3000 1 West forficionated from P3 1 Uses ATConstant from P3 1									2.17			9.67													
* Uses EndConstant from P3 * Uses AfConstant from C3 * Uses AfConstant fr						1				*Uses Area Factor	from K5														
* Uses Al Constant from C3 *Uses All Constant from C3 *Uses		Hold	Cant more or atta	2.5	10	1																			
Notes: 1) The Level Modifier used for the damage calculation only selects between 20-50 because levels 1-19 have a normalizing factor that impacts the damage modifiers of the AT. Imay incorporate this in the future, but for now I figure most will only care about Level 50 damage 2) For mode core shat are less than 20 feet, the design formula will reduce the radius by 2 ft. So 3 Pt. core will use 5 ft as its radius. This is for design formula purposes only, the actual area factor will use the actual radius									3																
Notes: 1) The Level Modifier used for the damage ackulation only selects between 20 50 because levels 1:19 have a normalizing factor that impacts the damage modifiers of the AT. I may incorporate this in the future, but for row I figure most will only care about Level 50 damage 2) for morele come that are less than 20 feet, the design formula under control to the AT. I may incorporate this in the future, but for row I figure most will only care about Level 50 damage 2) for morele come that are less than 20 feet, the design formula under control to the AT. I may incorporate this in the future, but for row I figure most will only care about Level 50 damage 2) for morele come that are less than 20 feet, the design formula under control to the AT. I may incorporate this in the future, but for row I figure most will only care about Level 50 damage 2) for more come that are less than 20 feet, the design formula under control to the AT. I may incorporate this in the future, but for row I figure most will only care about Level 50 damage 2) for more come that are less than 20 feet, the design formula under control to the AT. I may incorporate this in the future, but for row I figure most will only care about Level 50 damage 2) for more come that are less than 20 feet, the design formula under control to the AT. I may incorporate this in the future, but for row I figure most will only care about Level 50 damage 2) for more come that are less than 20 feet, the design formula under control to the AT. I may incorporate this in the future, but for row I figure most will not be account and the future, but for the AT. I may incorporate this in the future, but for row I figure most will not be a future to the future, but for row I figure most will not be a future to the future, but for row I figure most will not be a future to the future, but for row I figure most will not be a future to the future, but for row I figure most will not be a future to the future, but for row I figure most will not be a future to the future							* Uses ATConstant f	rom C3																	
1) The Level Modifier used for the damage calculation only selects between 20-50 because levels 1-19 have a normalizing factor that impacts the damage modifiers of the AT. I may incorporate this in the future, but for now ligure most will only care about Level 50 damage 2) For melee cones that are less than 20 feet, the design formula will reduce the radius by 2 ft. 50 a 7 ft cone will use 5 ft as its radius. This is for design formula purposes only, the actual area factor will use the actual radius	https://forums.h	omecomingservers.c	om/topic/3199-desig	en-formulas/																					
1) The Level Modifier used for the damage calculation only selects between 20-50 because levels 1-19 have a normalizing factor that impacts the damage modifiers of the AT. I may incorporate this in the future, but for now ligure most will only care about Level 50 damage 2) For melee cones that are less than 20 feet, the design formula will reduce the radius by 2 ft. 50 a 7 ft cone will use 5 ft as its radius. This is for design formula purposes only, the actual area factor will use the actual radius																									
2) For melee cones that are less than 20 feet, the design formula will reduce the radius by 2 ft. So a 7 ft cone will use 5 ft as its radius. This is for design formula purposes only, the actual area factor will use the actual radius	Notes:																								
	1) The Level Mod	difier used for the da	mage calculation only	y selects between 2	0-50 because levels 1-	19 have a normalizin	g factor that impacts t	the dam	nage modifiers of the	AT. I may incorporate	this in the future, bu	it for now I figure most	will onl	y care about Level 50 damage											
3) PvP Damage Modifier charts are shown mostly for completeness. The game used to not have PvP Damage Modifier Tables, but now they do (not sure when this changed). So the PvP Damage Formula Calculator simply calculates the scale. That scale then points to an AT specific PvP Damage Modifier Table. The numbers on that table I'm not sure about at this time.																									
	3) PvP Damage N	Modifier charts are sh	own mostly for comp	pleteness. The game	e used to not have PvF	Damage Modifier Ta	bles, but now they do	(not su	ire when this changed	f). So the PvP Damag	e Formula Calculator	simply calculates the s	cale. Th	at scale then points to an AT spe	cific Pv	P Dam	ge Mo	difier '	Table. The nu	mbers on that	table I'm not	sure a	bout at this	time.	

+HP and Rege	eneration Pr	oc Compari	son Sheet										
		•	P.T	Panacea	Imperv Skin Regen Tissue	Numina	P.T	Panacea	Imperv Skin Regen Tissue	Numina		Melee Heal- Other	
Archetype	Hit P				n (Equivalent)			HP per proc	(Equivalent)		Archetype	Modifier	
Blaster	Base	1204.8	60.00%	64.32%			60.240	64.575	25.10	20.08	Blaster	96,381	
Diaster	Max	1847.3	39.13%	41.95%			00.240	04.575	38.49	30.79	Diastei	30.301	
Controller	Base	1017.4	60.00%	93.09%			50.870	78.925	21.20	16.96	Controller	117.799	
CONTROLL	Max	1606.4	38.00%	58.96%			30.070	70.323	33.47	26.77	Controller	117.733	
Defender	Base	1017.4	60.00%	105.78%			50.870	89.688	21.20	16.96	Defender	133.862	
Dolondoi	Max	1606.4	38.00%	67.00%			00.070	00.000	33.47	26.77	Dololladi	100.002	
Scrapper	Base	1338.6	60.00%	57.89%			66.930	64.575	27.89	22.31	Scrapper	96.381	
остаррог	Max	2409.5	33.33%	32.16%			00.000	01.070	50.20	40.16	Оогаррог	55.551	
Tanker	Base	1874.1	60.00%	41.35%			93.705	64.575	39.04	31.24	Tanker	96.381	
rannor	Max	3534	31.82%	21.93%			00.700	01.070	73.63	58.90	rankoi	00.001	
Peacebringer	Base	1070.9	60.00%	72.36%			53.545	64.575	22.31	17.85	Peacebringer	96.381	
1 cacconinger	Max	2409.5	26.67%	32.16%			00.010	01.070	50.20	40.16	1 caccomiger	00.001	
Warshade	Base	1070.9	60.00%	72.36%			53.545	64.575	22.31	17.85	Warshade	96.381	
Traionado	Max	2409.5	26.67%	32.16%			00.010	01.070	50.20	40.16	Waldingo	00.001	
Sentinel	Base	1204.8	60.00%	64.32%	050/	20%	60.240	64.575	25.10	20.08	Sentinel	96.381	
	Max	2088.3	34.62%	37.11%	25%	20%			43.51	34.81			
Corruptor	Base	1070.9	60.00%	72.36%			53.545	64.575	22.31	17.85	Corruptor	96.381	
	Max	1606.4	40.00%	48.24%				0	33.47	26.77			
Dominator	Base	1017.4	60.00%	93.09%			50.870	78.925	21.20	16.96	Dominator	117.799	
Dominator	Max	1606.4	38.00%	58.96%			30.070	70.323	33.47	26.77	Dominator	117.733	
Mastermind	Base	803.2	60.00%	117.92%			40.160	78.925	16.73	13.39	Mastermind	117.799	
wasterminu	Max	1606.4	30.00%	58.96%			40.100	76.925	33.47	26.77	Wastermind	117.799	
Brute	Base	1499.3	60.00%	51.68%			74.965	64.575	31.24	24.99	Brute	96.381	
brute	Max	3212.7	28.00%	24.12%			74.900	04.5/5	66.93	53.55	Brute	96.361	
01.11	Base	1204.8	60.00%	64.32%			00.040	04.575	25.10	20.08	0		
Stalker	Max	2088.3	34.62%	37.11%			60.240	64.575	43.51	34.81	Stalker	96.381	
	Base	1070.9	50.00%	50.25%	1		50.545	50.040	26.77	21.42		20.047	
Arachnos Soldier	Max	2409.5	22.22%	22.33%			53.545	53.812	60.24	48.19	Arachnos Soldier	80.317	
	Base	1070.9	50.00%	50.25%					26.77	21.42			
Arachnos Widow	Max	2409.5	22.22%	22.33%			53.545	53.812	60.24	48.19	Arachnos Widow	80.317	
	IVIGA	2.00.0	LL.LZ/0	LL.33/8					00.24	10.19			

MBX ZHUS 3 ECECTOR SECURITY

This sheet makes to comparisons: It calculates the equivalent regeneration the +HP procs provide and compares to the Regeneration procs. It also calculates the equivalent HP per 20 seconds the Regeneration procs provide and compares it to the amount of HP produced from the +HP procs

The 20 seconds used for Regeneration comparisons is chosen because the +HP procs are 3 PPM which will average 1 proc per 20 seconds in auto powers

https://forums.homecomingservers.com/topic/19022-hpregen-proc-cheat-sheet/