https://docs.google.com/spreadsheets/d/1W	V-iH9WvnIFr5LKA7MdefB2uZ4AaLp7w_uDuvDxdPWA8
Another method to caluclate the best maps	Credit goes to elmoe0715
to grind	Arknights Material Farming with API Fetcher
	Removed LTF (1/3 T2 mats) map and full T1 mats - because its better to view LTF 1/12 T1+1/3 T2 mats
	First, Each item is assigned its lowest sanity cost per 1 item based on the best map for that item.
How maps are compared	Using the Assigned sanity for each item, we calculate the Sum of each item assigned sanity cost per item times its drop rate divide by the sanity cost of map, or
·	is called the Sanity Ratio. we compare each map sanity ratio and can determine which maps are better long term becaues it will yeild a better return rate of it
Calculating 'Sanity Ratio'	Sanity Ratio = (Assign sanity value of Item 1)*(Drop rate of item 1)+(Assign sanity value of Item 2)*(Drop rate of item 2)]/ (Sanity cost of map) The Sanity Ratio is being compared to items within their maps and thus we can make a ranking of which maps are better.
measurement unit	THIS DOES NOT MEAN A MAP WILL DROP X SANITY WORTH OF DROP PER SANITY SPENT. It is a unit we used to mesaure the Value of a map. The is used to RANK the maps
How this sheet differs from other sheet/table/chart.	This sheet caclulate all drops from the map including Exp tickets/ Pure gold/ LMD from workshop/ T1 ma (full value or 1/3value)(Calculation differ on each tab)(Includes byproduct calculation)
	Removing Exp tickets/Pure gold from calculation basically means maps that drop exp ticket/pure gold are valued at Zero sanity saved. This should be perfer of at end game when exp ticket/pure gold are not as vauable. This massively affects ch 1/2/3 maps as lower maps have a higher drop rate of exp ticket/ pure gold can be used for a higher % of sanity spent towards materials instead of exp
	Another way to look at the benefit of removing Exp ticket/pure gold from calcuation/ lets take the map 1-7, about 13% of sanity spent is used toward exp/pure gold and 87% on items. while in the map 5-10, 100% of the sanity is spent on items.
Excluding item from Sanity Ratio calculation	Some spreadsheet /table/ Chart will exclude T1 mats from calculation, but I would argue that T1 mats should be counted because T1 mats can be converted T2 mats and save sanity that way.
Calculation I	Removing any items from the Sanity Ratio calculation will change the ranking of maps, thus is why different spreadsheet/table/chart will offer different place to grind for best usage of sanity.
	An Example of how excluding items from sanity raito can change the ranking of maps: Take Orirock Cube for example: the map 1-7 has a Sanity Raito of 1.5 and the map 5-10 has 1.24 sanity raito. (calculating everything) Removing all exp ticket/pure gold from calculation will drop Sanity raito of the map 1-7 to 1.30 and map 5-10 to 1.24 Then removing T1 mats from the maps. 1-7 Sanity raito drops to 1.09. 5-10 sanity raito is 1.24. 5-10 doesnt have any exp ticket/pure gold drops or have any T1 mats drop, so the sanity ratio stayed the same. Only calculating T2/T3 mats. 5-10 will beat 1-7 in the long term grind.
	E1 Catapult/ E0 Ceylon, E1 Sussurro are the best operator to use for an increased byproduct rate for elite materials. Small invest for the 80% byproduct rate/ She has a 80% bonus for elite material and will increase the byproduct rate to 18% chance I think the byproduct item is random with equal chance of same tier as the crafting material. (needs more data)
Byproduct calculation	Other operators with 80% byproduct rate: E0 Nian (100%), E2 Blue Poison, E2 Meteorite
Added to all the sheets	Calculation
	T2 mats value=18%*(T1 mats x 3 + LMD Cost-(Avg of all T1 mats value))+82% * (T1 mats x 3+LMD cost) T1 mats value=[T2 mats value -LMD cost+(avg of all T1 mats value)] / 3 The math is circular, therefore I estimate the best value for the avg of all T1 mats values
Data is collected from->	https://penguin-stats.io/result/item
	Tabs
ndividual mats	This tab shows the map best to grind to spend the least amount of sanity to obtain one certain item
The Corel Obert	Looking to get the material fast, use this tab
he Smol Chart ong term Farm (1/3 T1/T2 mats)	A very dumbdown version of this sheet. Data based on 1/3 T1 mats. Its the map i would recommend if you want to see the deital version This chart reduce T1/T2 mats to 1/3 value. Use this chart when you are convert all T1/T2 mats into T3
Long term Farm (1/3 T1/T2 mats) (-exp)	This chart reduce T1/T2 mats to 1/3 value. Use this chart when you are convert all T1/T2 mats into T3 and removes exp/pure godl value from maps
Orop Rate Tab	This is just my data collection from penguin stats
Orop Rate Last update	9/9/2020
Post suggestion/freeback here	https://www.reddit.com/r/arknights/comments/fdybns/maps_to_grind_materials_short_termlong_term/
mages from	https://github.com/Aceship/
My other guide	https://docs.google.com/document/d/1QYdNSiUNXK4R7I0KWhbtdzvvveEajVc4GPdYFf_xYdA/edit
Reddit Discord	<u>u/FivePlop</u> O_0#8135
Jisou	o_circlio
Edits made	
4/7	7 Fix Loxic value from ch 6-11 to 2-9, since Ch 6 isnt out yet
	added byproduct calculation in Long term(T1 mats full value)
	added byproduct calculation in Long term(1/3 T1 mats)
	added byproduct calculation in Long term(1/3 T1 mats) (-exp)
	added byproduct calculation in Long term(1/3 T1/T2 mats) (needs more thinking as i'm not 100% on byproduct calculation on orirock/oriron
	9 Added assign value sheet
4/9	Added New table Long term farm (1/3 T1/T2 mats)(-exp)
	adjusted Smol chart, according to new ranking due to hyproduct calculation
4/10	0 adjusted Smol chart- according to new ranking due to byproduct calculation 2 Add Obsidian infinite Raffle shop
4/10 4/22	2 Add Obsidian infinite Raffle shop
4/10 4/22 5/21	
4/10 4/22 5/21 6/12	2 Add Obsidian infinite Raffle shop 1 Add API connector to update drop rate
4/10 4/22 5/21 6/12 6/28	2 Add Obsidian infinite Raffle shop 1 Add API connector to update drop rate 2 Add Event Shop for CC
4/10 4/22 5/21 6/12 6/28 7/27	2 Add Obsidian infinite Raffle shop 1 Add API connector to update drop rate 2 Add Event Shop for CC 8 Working on ch 6.
4/10 4/22 5/21 6/12 6/28 7/27 7/31	2 Add Obsidian infinite Raffle shop 1 Add API connector to update drop rate 2 Add Event Shop for CC 8 Working on ch 6. 7 Removed LTF (1/3 T2 mats) map - because its better to view LTF 1/12 T1+1/3 T2 mats 1 Added Comparing Orundum pack 1 Added Base operators
4/10 4/22 5/21 6/12 6/28 7/27 7/31 8/1	2 Add Obsidian infinite Raffle shop 1 Add API connector to update drop rate 2 Add Event Shop for CC 8 Working on ch 6. 7 Removed LTF (1/3 T2 mats) map - because its better to view LTF 1/12 T1+1/3 T2 mats 1 Added Comparing Orundum pack

T1	Drop Rate	Мар	Sanity / Item	Sanity Ratio	T2	Drop Rate	Map	Sanity / Item	Sanity.Ratio	Notable Drops	T3	Drop Rate	Map	Sanity / Item	Sanity Ratio	Notable Drops
						31.31%	4-4	57.49	1.59	Loxic Kohl						
						31.71%	5-5	56.76	1.49	Oriron Cluster						
						31.64%	4-7	56.89	1.41	Maganese Ore						
and the same of th	004 000/					124.40%	1-7	4.82	1.39			Grind orin	ck cube	(1-7) and Conv	ert to Orirck	
	364.68%	S2-5	1.69	0.83		21.31%	3-3	70.39	1.36	Grindstone				Cluster		
Orirock Rock					Orirock Cube	35.45%	4-10	59.24	1.38	Integrated Device	Orirock Cluster					
						31.82%	5-2	56.57	1.33	Sugar Pack						
						185.92%	5-10	11.30	1.23	Integrated Device						
	COLC	R CO	DED													
nis is your Targ	get material															
is is the targe	t material's	drop ra	ate on the ma	ıp												
ap of the mate	erial															
inity/ item = th	ne estiamted	Sanit	y it will cost to	grind one ite	m of the target n	naterial. (san	ity of ma	p divided by d	Irop rate)							
					ed by all the dro											
		the r	naps, the h	igher numb	er the better tl	ne return o	f item o	of sanity sav	ed. best usa	age of sanity.						
ne map's Nota	ble Drop															
			. ,		re and orirock											
						orirock cube	drop rat	e. 4-4 offer Lo	xic as its mair	n drop but If you do not r	need Loxic, then y	ou should gri	nd some	where else.		
					on of the sheet											
	4 74- 5 44	476	:4	44100	J F 40 b	14 41 4 4	044	f 4 7 ib-		than 5-10. (exp included	0.05		40:-			

Recommend Farming T3 mats before farming T2 mats because friend shop/ T3 maps could drop T2 mats that you may need.

T1	Мар	T2	Мар	Т3	Мар	Т3	Мар	
	S2-5		1-7		Grind 1-7 to		4-9 2-10	Green highlight= best for long term
Orirock Rock		Orirock Cube		Orirock Cluster	Craft	RMA70-12		benefit
	2-3		4-10		3-4 or 4-10		4-8	Yellow
	2-3		S3-4		3-4		3-3	Highlight= best for short term
Damaged Device		Device		Integrated Device		Grindstone		benefit
	S2-7		3-8		3-8		4-4	
	02-1		S3-2		2-6		2-9,6-11	
Ester		Polyester		Polyester Pack		Loxic Kohl		
	S2-8		S4-1		S4-1		4-7	
	32-0		S3-3		Grind S3-3		3-2	
Oriron Shard		Oriron		Oriron Cluster	to craft	Maganese Ore		
	S2-6		4-2		4-2			
85.00 p	32-0		S3-1		2-5		S3-6	
Sugar Substitue		Sugar		Sugar Pack		Incandescent Alloy		
	S2-9		4-5		4-5 or 3-1		S5-7	
	32-9	<i>6</i>	3-7		3-1		S4-10	
Diketon		Polyketon		Aketon		Coagulating Gel		

							_		-		_		_											_													_							
	-		T1 n						T2 r	nata			-						T3 mats											14						_								
Sheet	Diketon	Ester C	rirock ⁵	Sub si	tim Di	ovice Device	Polyketon	Polyeste	Orirock	cube Su	gar O	Iriron De	vice A	keton Poh	ester Orio	ck Sugar ter pack	Orizon Intel duster Di	grated Rt evice Rt	IMA70-12	Grindstone	Kohl i	alloy	gel	Manganese ore	Grinatone Pentahydrate	White Horse Kohl	Keton Optimi Colloid Devi	zed Mang ce Trib	ganese RM hydrate	M70-24	Omlock Concentration	Alloy	gel	Polyester Lump	Sugar Lump	Driron E Block 5	32 Bi	polar Po noflake I	ymerization reparation	Drill Battle record	Frontline Batti record	Tactical Battle record	Strategic Battle record	Pure Gold
1/12 T1+1/3 T2 mats	3.55	2.86	.67	2.84 4	.18	4.64	10.49	8.41	4.82	: 8	35 1	2.36 13	75 4	1.02 3	70 23	18 32.47	48.52 5	4.05	54.35	47.44	33.94 2	8.80	62.94	40.53	144.31	115.06	149.33 142	15 14	41.99 1	36.03	87.02	134.20	144.18	134.66	148.29	178.10 30	7.73 3	17.65	389.84	0.81	1.62	4.05	8.11	2.10
1/2 T1+ 1/3 T2 mats (- exp)	3.55	2.86	1.67	2.84 4	.18	4.64	10.49	8.41	4.83	: 8	35 1	2.36 13	75 4	1.02 3	.70 23	18 32.47	48.52 5	4.05	54.35	47.44	33.94			40.53	144.31	115.06	149.33 142	15 14	41.99 1	36.03	87.02			134.66	148.29	178.10 30	7.73 3	17.65	389.84	0	0	0	0	0
LMD is from the workshop	T1 mat	ts full valu samit		ns T1 ma rom the		lowest							Т																															
	1/3 T1 s	mats shee	t assign val		ts from 1	2 mats	T1 mats	all and 1/ sa	3 T1 sheet nity value	assign T from the	2 mats map	as its lowe	at															All T	T4 mate shor	old he cost	ted from the w	wkahan									France	alculated based	on I S.A.	
Avg of T1 mats or T2 mats is the return value	T1 mate	- (T2ma	s-LMD mat	cost +0. s)/3	18" Avg o	of sell T1											T3 mats are	assign its i	lowest san	ity value from	the maps						Assig				18°avg value of		D cost								Drift be Frontline	tie record = 200 battle record=40 attle Record=10	/7400°30 30/7400°30	
from the byproduct rate Assuming that the byproduct item is given	1	1/3 T2 ms	ts assig	na T1 m	ats from	T3 mats.	1/12 T1	3T2 mat	sheet-As		mats v	alue from 1	13		Except for	Orizock	cluster value	= crirock o	cube value	re sanity effect e x 5 +LMD - A LMD - Avg of	wo of all Ta	from the wo	rkshop		Long term farm due to a sligh	(1/3 T1/T2)-1 ly higher valu	The value of T4 se in T3 mats wh	mats value sch directi	e sightly diffe by affect the b	er because byproduct r	of the change rate value of cr	d value in Or offing T4 mad	ock cluster a and thus all	nd Orieon clu htly affects i	der. The re II T4 mats v	son is slue .					Pure gold Pure	is calculated bis pold value+500.0	sed on CE-5 7140*30	
equally random and from the same tier as crafting material	T1 mate-		ake T2	mats)-Li	MD+avg	T1 mats) T2 mats)	T2 mats	ralue = (T3 mats-L3 mail		0.18"	Avg of all T	2																															
		/(w	of T2 to	make T	3)		(T2	mats-LM	D cost + 0.	16" Avg o	f all T2	mats)/5																_	_							_	-	_						_
Fundre Part		SK-5	brick (Carbon b	nick	Parts		MD sani	y Brick aft	er worksl	hop	to fum	tiure	Si	nity part																													
			3 5	20.00		10		-1.67	3.20	. 0	63		art 12		50																													
Sanity per LMD	0.0040																																											

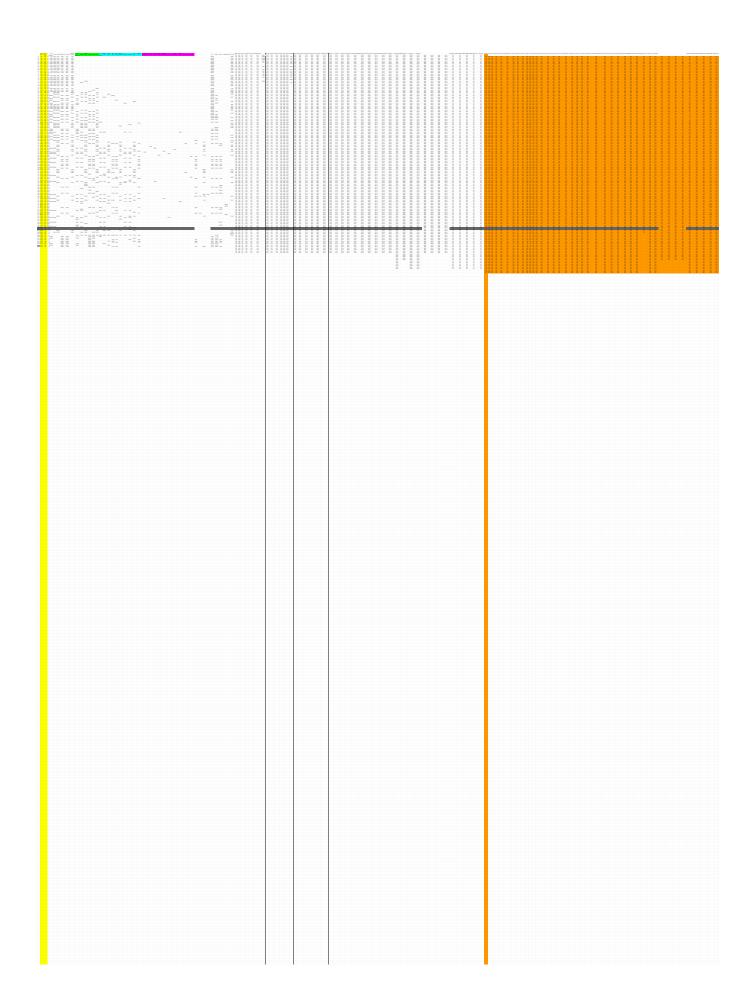
T1		Drop Rate	Мар	Sanity / Item	T2		Drop Rate	Мар	Sanity / Item	Т3		Drop Rate	Мар	Sanity / Item	
Orirock Rock	Also	364.68%	S2-5	3.29	Orirock Cube		124.40%	1-7	4.82	Orirock Cluster		Grind orin	ick cube (1-7) a Orirck Cluste		
Damaged Device		145.80%	2-3	8.23	Device	E	91.68%	S3-4	16.36	Integrated Device		27.75%	3-4	54.05	
Ester		251.62%	S2-7	4.77	Polyester		152.56%	S3-2	9.83	Polyester Pack	2	36.70%	2-6	32.70	
Oriron Shard		190.81%	S2-8	6.29	Oriron		121.32%	S3-3	12.36	Oriron Cluster	♣	Grind oriro	on (S3-3) and co Cluster	nvert to Oriron	
Sugar Substitue	-	246.30%	S2-6	4.87	Sugar		151.38%	S3-1	9.91	Sugar Pack		36.96%	2-5	32.47	Craft all T4 materials
Diketon		192.86%	S2-9	6.22	Polyketon		122.84%	3-7	12.21	Aketon		36.57%	3-1	41.02	
										RMA70-12	*	27.60%	2-10	54.35	
							re efficient			Grindstone		31.62%	3-3	47.44	
Short Term		Looking to o		quickly then	Crafting	Oriron	and to conv /Oriro	ert to Orii in cluster	ock cluster	Loxic Kohl	4	49.09%	6-11	42.78	
										Maganese Ore		37.01%	3-2	40.53	
										Alloy		38.66%	S3-6	38.80	
										Gel		28.60%	S4-10	62.94	

T1	Drop Rate		Sanity / Item			Drop Rate		Sanity / Item		s reduce to 1/	T3				Sanity Ratio	Notable Drops
			, / 10/11	, , , , , , , , , , , , , , , ,	1-	31.71%	5-5	56.76	1.46	Oriron Cluster			шар	- anny / 100111		
						31.31%	4-4	57.49	1.36	Loxic Kohl					orirock cli	ock cube from 1-7 and crafting uster would cost ~24.1 sanity
						124.40%	1-7	4.82	1.37	ROCKS!		Grind oriric	ck cube (1-	7) and craft	(24.9 sanity	accounting for LMD in worksh
and the same	364.68%	S2-5	1.69	0.79		31.64%	4-7	56.89	1.36	Maganese Ore		into Orirck (Cluster is to 6 for long t	etter than to erm	(22.97 sanity	accounting for LMD+byprodu
rirock Rock					Orienali Oriena	21.31%	3-3	70.39	1.32	Grindstone	Outro de Obretos				Grinding at	2-4 would cost ~ 28.4 sanity f
TIFOCK ROCK					Orirock Cube	31.82%	5-2	56.57	1.29	Sugar Pack	Orirock Cluster					orirock cluster
						35.45%	4-10	59.24	1.34	Integrated Device		45.03%	4-6	39.98	1.20	
						185.92%	5-10	11.30	1.23	Integrated Device		45.03%	4-6	39.98	1.20	
						12.52%	4-4	143.75	1.36	Loxic						
						12.42%	5-5	144.96	1.46	Oriron Cluster		00.000/	4.40	00.40	4.04	Outlies land Davids
						75.79%	6-11	27.71	1.29	Loxic		30.23%	4-10	69.48	1.34	Optimized Device
						12.64%	4-7	142.44	1.36	Maganese Ore						
	145.80%	2-3	8.23	0.83		8.47%	3-3	177.18	1.32	Grindstone						
Damaged Device					Device	14.00%	4-10	149.99	1.34	Integrated Device	Integrated Device	27.75%	3-4	54.05	1.32	Device
501100						13.29%	5-2	135.49	1.29	Sugar Pack	201.00					
						12.57%	4-6	143.25	1.20	Orirock Cluster		31.03%	6-16	67.68	1 20	
						91.68%	S3-4	16.36	1.08			31.03%	0-10	07.00	1.30	
						8.18%	4-8	256.65	1.46	Grindstone		46.74%	SV-5	32.09	1.36	Event
						8.78%	4-9	239.26	1.40	RMA70-12			3v-5	32.09	1.30	Eveni
						11.54%	6-4	156.00	1.32	Polyester Pack/Lump		36.70%	2-6	32.70	1.32	
	251 620/	C2 7	4 77	0.07		11.03%	6-2	163.21	1.30	Maganese Ore						
Ê	251.62%	52-7	4.77	0.87	Debrester	10.55%	4-5	170.66	1.34	Aketon	Debugat D- :	20.470/	2.0	45.00	4.04	Delurated
					Polyester	10.55%	3-8	170.57	1.31	Polyester Pack	Polyester Pack	39.47%	3-8	45.60	1.31	Polyester Lump
						14.04%	3-4	106.87	1.32	Integrated Device						
Ester						152.56%	S3-2	9.83	1.10			48.97%	5-3	36.75	1.28	
						15.85%	S4-1	113.59	1.57	Oriron Cluster						
						15.67%	4-2	114.86	1.44	Sugar Pack						
_						105.72%	5-7	19.86	1.40	Grindstone		31.61%	S4-1	56.95	1.57	Oriron Block
	190.81%	S2-8	6.29	0.94		10.56%	2-10	142.09	1.35	RMA70-12						
riron Shard					Oriron	10.42%	3-1	143.97	1.35	Aketon	Oriron Cluster					
						121.32%	S3-3	12.36	1.26			29.01%	5-5	62.04	1.46	Oriron Block
						19.51%	S4-1	92.26	1.57	Oriron Cluster						
						19.94%	4-2	90.27	1.44	Sugar Pack						
					Fig. 1	84.92%	5-3	21.20	1.28	Polyester Pack		39.64%	4-2	45.41	1.44	Sugar Lump
00000	246.30%	S2-6	4.87	0.86		13.03%	2-10	115.13	1.35	RMA70-12						
ar Substitue					Sugar	12.75%	3-1	117.69	1.35	Aketon	Sugar Pack					
						12.90%	3-7	116.24	1.13	Polyketon		36.96%	2-5	32.47	1.34	
						151.38%	S3-1	9.91	1.11							
					10	6.74%	4-8	311.51	1.46	Grindstone	/S					
						7.28%	4-9	288.47	1.40	RMA70-12		36.57%	3-1	41.02	1.35	
•					_	8.92%	6-2	201.72	1.30	Mag Ore						
	192.86%	S2-9	6.22	0.86		10.55%	3-1	142.20	1.35	Aketon						
Diketon					Polyketon	100.34%	6-16	20.93	1.30	Integrated Device	Aketon	31.19%	4-5	57.72	1.34	Keton Colloid
					1	122.84%	3-7	12.21	1.13							
											A Company					
Why T1 ma	ats reduce	to 1/1	2 value of T3	mats?	Note: GRIND T	3 MATS BEF	ORE T2	MATS				30.01%	4-9	69.98	1.40	RMA70-24
s is good whe	n you dont	need	T1 mats and i	s converting							RMA70-12	27.60%	2-10	54.35	1.35	
true value of	f T1 mats is	s [[(val	ue of T3 mats		Maps that are of if the target item		ie lower t	han 5%				34.96%	4-8	60.07	1.46	Grindstone Pentahydrat
			mats to mak						ble drop, the	lower sanity ratio map		34.52%	5-7	60.84	1.40	Oriron
LMD+8	avg 12 mat	sj/(# o	T2 to make	3)	is excluded											
					ir maps nave a i	ower sanity	ratio then	i the map with	the lowest s	anity cost of the item	Grindstone	31.62%	3-3	47.44	1.32	
Why T2 m	ats reduce	to 1/3	3 value of T3 T2 mats and i	mats?								37.26%	4-4	48.31	1.36	White Horse Kohl
-	the T2 ma	ats to T	3 mats.	-								49.09%	6-11	42.78	1.29	Device
true value o	f T2 mats i	s [(valu	ue of T3 mats	-(LMD from							Loxic Kohl	26.49%	2-9	45.31	1.07	
worksho	p))/(# of T2	mats	to make T3 m	atS)							ja ja	29.61%	4-7	60.80	1.36	
					_	It is mo	re efficier	nt to arind Orio	ock cuhe/ Ori	iron and to convert to		29.70%	6-2	60.61	1.30	
					Crafting		,	Orirock clust			Maganese Ore	37.01%	3-2	40.53	1.32	Maganese Trihydrate
																,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
											100	32.40%	6-12	55.55	1.34	
											to the same of	38.66%	S3-6	38.80	1.32	
											Incandescent					
											Alloy	29.81%	S5-8	60.38	1.31	
											6	39.88%	SV-7	45.14	1.80	Event
												25.52%	S5-7	70.54	1.57	
												20.02 /0	00-7	70.01	1.01	

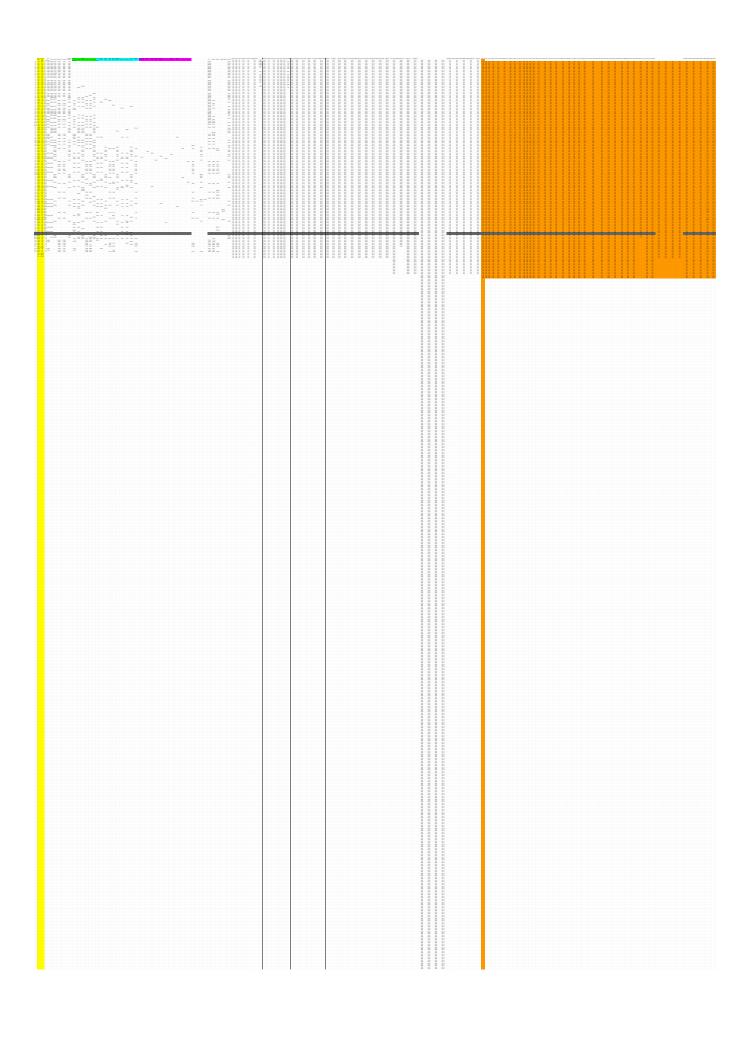
										to 1/3 of T3 n						
T1	Drop Rate	Мар	Sanity / Item	Sanity Ratio	T2	Drop Rate		Sanity / Item			T3	Drop Rate	Мар	Sanity / Item	Sanity Ratio	Notable Drops
						31.31%	4-4	57.49	1.35	Loxic						
						31.71%	5-5	56.76	1.45	Oriron Cluster						ock cube from 1-7 and crafting
					400	21.31%	3-3	70.39	1.30	Grindstone				I-7) and craft better than		uster would cost ~24.1 sanity accounting for LMD in workshop
	364.68%	00.5	1.69	0.79		31.64% 35.45%	4-7 4-10	56.89 59.24	1.35	Maganese Ore			6 for long			accounting for LMD+byproduc
1000	364.68%	52-5	1.69	0.79						Integrated Device		4 C in 1	the 2nd be	not ontion	Crinding of	2-4 would cost ~ 28.4 sanity for
Orirock Rock					Orirock Cube	185.92% 31.82%	5-10 5-2	11.30 56.57	1.23 1.28	Integrated Device Sugar Pack	Orirock Cluster	4-0 IS I	ille zhu bi	est option	Gilliding at 2	orirock cluster
						31.02%	5-2	50.57	1.20	Sugai Pack						
						124 40%	1-7	4.82	1.17	ROCKS!		45.03%	4-6	39.98	1.18	
						12.52%	4-4	143.75	1.35	Loxic						
						75.79%	6-11	27.71	1.29	Integrated Device						
					A	12.42%	5-5	144.96	1.45	Oriron Cluster	A	30.23%	4-10	69.48	1.33	Optimized Device
						14.00%	4-10	149.99	1.33	Integrated Device						
_	145.80%	2-3	8.23	0.83	_	8.47%	3-3	177.18	1.30	Grindstone	-					
Damaged					Device	12.64%	4-7	142.44	1.35	Maganese Ore	Integrated	27.75%	3-4	54.05	1.30	Device
Device						13.29%	5-2	135.49	1.28	Sugar Pack	Device					
						12.57%	4-6	143.25	1.18	orirock Cluster						
						91.68%	S3-4	16.36	1.07			31.03%	6-16	67.68	1.30	
						8.18%	4-8	256.65	1.46	Grindstone		10.5	01.1.5	06.11	4.00	5.1
						8.78%	4-9	239.26	1.40	RMA70-12		46.74%	SV-5	32.09	1.33	Polyester Lump
Ê						11.54%	6-4	156.00	1.32	Polyester Pack/Lump		39.47%	3-8	45.60	1.31	
	054 000	00.7	4	0.07		11.03%	6-2	163.21	1.30	Maganese Ore						
	251.62%	S2-7	4.77	0.87		10.55%	4-5	170.66	1.34	Aketon		48.97%	5-3	36.75	1.28	
Ester					Polyester	10.55%	3-8	170.57	1.31	Polvester Pack	Polyester Pack					
						14.04%	3-4	106.87	1.30	Integrated Device						
						152.56%	S3-2	9.83	1.08			36.70%	2-6	32.70	1.22	
						15.85%	S4-1	113.59	1.54	Oriron Cluster						
						105.72%	5-7	19.86	1.40	Sugar Pack		31.61%	S4-1	56.95	1.54	Oriron Block
<u> </u>						15.67%	4-2	114.86	1.40	Grindstone						
	190.81%	S2-8	6.29	0.94		10.56%	2-10	142.09	1.33	RMA70-12						
Oriron Shard					Oriron	10.42%	3-1	143.97	1.32	Aketon	Oriron Cluster	29.01%	5-5	62.04	1.45	Oriron Block
						121.32%	S3-3	12.36	1.23							
						19.51%	S4-1	92.26	1.54	Oriron Cluster						
						19.94%	4-2	90.27	1.40	Sugar Pack		39.64%	4-2	45.41	1.40	Sugar Lump
						12.75%	3-1	117.69	1.32	Polyester Pack						
-	246.30%	S2-6	4.87	0.86		13.03%	2-10	115.13	1.33	RMA70-12		36.08%	5-2	49.89	1.28	Sugar Lump
gar Substitue					Sugar	84.92%	5-3	21.20	1.28	Aketon	Sugar Pack					
						12.90%	3-7	116.24	1.11	Polyketon		36.96%	2-5	32.47	1.24	
						151.38%	S3-1	9.91	1.08							
					[a]	6.74%	4-8	311.51	1.46	Grindstone	(A)					
						7.28%	4-9	288.47	1.40	RMA70-12		31.19%	4-5	57.72	1.34	Keton Colloid
	192.86%	00.0	6.22	0.86		8.92%	6-2	201.72	1.30	Mag Ore						
	192.86%	52-9	6.22	0.86		10.55%	3-1	142.20	1.32	Aketon						
Diketon					Polyketon	100.34%	6-16	20.93	1.30	Integrated Device	Aketon	36.57%	3-1	41.02	1.32	
						122.84%	3-7	12.21	1.11							
is is good when	n you dont	need '	2 value of T3 T1 mats and	is converting	Note: GRIND T	3 MATS BEF	ORE T2	MATS			*	30.01%	4-9	69.98	1.40	RMA70-24
the "	T1 mats to	T2 ma	its to T3 mats		Maps that are	excluded:					RMA70-12	27.60%	2-10	54.35	1.33	
e true value of orkshop)+avg	T1 mats is	ร [[(vali # of T1	mats to mate	e T2 mats)-	if the target item	n's drop rate	is lower	than 5%	blo drop the	lower sanity ratio map		34.96%	4-8	60.07	1.46	Grindstone Pentahydrate
			T2 to make		is excluded	nigner sanity	raito or i	tne same Nota	ble arop, the	lower sanity ratio map		34.52%	5-7	60.84	1.40	Oriron
					if maps have a	lower sanity	ratio ther	n the map with	the lowest sa	anity cost of the item	Grindstone	31.62%	3-3	47.44	1.30	
\A/b TO	ata uz di:		value of T3													
is is good whe					This should	ny exclude l	xp ticke	et/pure gold? or end game v	vhen evn			37.26%	4-4	48.31	1.35	White Horse Kohl
-	the T2 ma	ats to T	3 mats.	-	ticket are not as	vauable. Th	is massi	vely affects ch	1/2/3 maps			49.09%	6-11	42.78	1.29	Device
e true value of			ie of T3 mats to make T3 n		as lower maps h	nave a highe	r drop ra	te of exp ticket	/ pure gold.		Loxic Kohl	26.49%	2-9	45.31	0.97	
	-,,,(,, 0, 12				Can be used	inst	ead of e	nity spent towa xp	ius ileiii			29.61%	4-7	60.80	1.35	
												29.70%	6-2	60.61	1.30	
											Maganese Ore	37.01%	3-2	40.53	1.30	
											1					
												38.66%	S3-6	38.80	1.305	
												32.40%	6-12	55.55	1.303	
											Incandescent	29.81%	S5-8	60.38	1.294	
											Alloy		SV-7	45.14		Front
												39.88%			1.77	Event
											Occasional Control	25.52% 28.60%	S5-7	70.54	1.57	
											Coagulating Gel	Z8.6U%	S4-10	62.94	1.33	

#		friend credit	Sanity Saved / item	Sanity per friend credit	
1	Recruitment Permit	160		ALWAY BUY	
3	carbon brick	200	7.95	0.119	buy only if base not fully upgraded
5	Carbon Stick	160	3.75	0.117	buy only if base not fully upgraded
1	Device	160	16.36	0.102	
2	Oriron	240	12.36	0.103	
2	Polyketon	240	12.21	0.102	
3	Skill Summary-2	200	6.67	0.100	This list ranks all the item in the friend credit store by how much sanity saved per friend credit.
2	Sugar	200	9.91	0.099	now much samey saved per mend credit.
2	Polyester	200	9.83	0.098	Always buy discounted item first
5	Skill Summary-1	160	3.00	0.094	Never Buy Expidition Ticket
20	Furniture Part	160	0.66	0.082	
25	Furniture Part	200	0.66	0.082	
6	Pure Gold	160	2.10	0.079	
1800	LMD	100	0.00	0.076	
3600	LMD	200	0.00	0.076	
9	Frontline Battle Record	200	1.62	0.073	
9	Drill Battle Record	100	0.81	0.073	
3	orirock cube	200	4.82	0.072	
1	damage device	80	5.54	0.069	
2	Oriron shard	120	4.21	0.070	
2	Diketone	120	4.15	0.069	
2	sugar sub	100	3.39	0.068	
2	Esters	100	3.36	0.067	
24	Carbon Brick (Furniture part)	200	0.61	0.060	Buy Carbon Brick if you are convert to Furniture parts (Does not account for byproduct)
20	Carbon Stick (Furniture part)	160	0.61	0.050	Buy Carbon Brick if you are convert to Furniture parts (Does not account for byproduct)
2	Orirock	80	1.69	0.042	

	Green Ticket	Sanity	Sanity Saved per ticket			
Headhunting permit	450	1061	2.36	All Tier on	e is worth	n buying
Coagulating Gel	40	62.94	1.57	Buying Hea	adhunting	depends if you value Gacha pulls more than saving sanity of
Loxic Kohl	30	42.78	1.43			sider orundum farming then it is better to buy Headhunting permit.
Oriron Cluster	35	48.33	1.38	It is better	early game	e to buy mats than the headhuntng permit
RMA70-12	45	54.35	1.21	it io bottor t	ourly guin	to buy mate than the headhanding permit
Integrated Device	45	54.05	1.20	This table i	repersent	a short term sanitiy saving
Grindstone	40	47.44	1.19			
Aketon	35	41.02	1.17			s worth it because it offers simialr value in the long run (math below)
Mag Ore	35	40.53	1.16	(assuming		mate chance is from my recording usage of recruitment permit stars)
Incandescent Alloy	35	38.80	1.11	(***** 3		
Polyester Pack	30	32.70	1.09	Estimated	chances	tickets
Sugar Pack	30	32.47	1.08	5/6 stars	1%	5 yellow
Orirock Cluster	25	22.99	0.92	4star	25%	30 green 1 yellow
				3star	74%	10 green
				Overall	14.9	green
					0.3	yellow
				Overall 1 re	ecruitment	will return 14.9 green and 0.29 yellow



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Pack	Reset	Total item given	Price (\$USD)	Orundum	Orundum per dollar	Sanity from Item	Sanity per Dollar	Other		
Monthly Card	days	6 OP 200 orundum per day for 30 days 1 Emergency Sanity potion(60 Sanity) per day for 30 days	\$4.99	7,080	1,419	1,800	361			Snity per furnitr
Starter Pack	No	Gummy 1 Headhunting Permit 10k LMD 20 Drill Battle Record (4k Exp)	\$0.99	600	606	56	57	Gummy		0.656
Starter Headhunting Pack	No	2 Ten-roll Headhunting	\$19.99	12,000	600	0				
\$1 Originium (2x bonus)		3 OP	\$0.99	540	545	0				
Monthly Headhunting Pack	Monthly	42 OP + 10 Headhunting permit	\$25.99	13,560	522	0				
\$15 Originium (2x bonus)	No	40 OP	\$14.99	7,200	480	0				
\$30 Originium (2x bonus)	No	80 OP	\$29.99	14,400	480	0				
\$50 Originium (2x bonus)	No	132 OP	\$49.99	23,760	475	0				
\$100 Originium (2x bonus)	No	260 OP	\$99.99	46,800	468	0				
\$5 Originium (2x bonus)	No	12 OP	\$4.99	2,160	433	0				
\$100 Originium		185 OP	\$99.99	33,300	333	0				
\$50 Originium		90 OP	\$49.99	16,200	324	0				
\$30 Originium		50 OP	\$29.99	9,000	300	0				
\$15 Originium		24 OP	\$14.99	4,320	288	0				
\$5 Originium		7 OP	\$4.99	1,260	253	0				
Starter Upgrade Pack	No	13 OP 40k LMD 20 Tactical Battle Record 30 Frontline Battle Record 40 Drill Battle Record 40 Drill Battle Record 10 Skill Summary 2 30 Skill Summary 1 4 Device 5 Polyketon 5 Oriron 7 Polyester 7 Sugar 10 Orirock Cube	\$9.99	2,340	234	?	#VALUE!			
\$1 Originium		1 OP	\$0.99	180	182					
Starter Furniture Pack		6 OP 2400 Furniture Part	\$9.99	1,080	108	1,574	158			
Weekly Growth Pack	Weekly	80k LMD 10 Strategic battle Record 25 Tactical battle Record 50 Frontline Battle Record 20 Skill Summary 2 40 Skill Summary 1 10 Caron Stick 306 Furniture Part	\$9.99	0	0	?	#VALUE!			
NOTE		ar is only calculating orundum+ OP convert to orundum +he	adhunting	permit conve	ert to orundu	m				
	Sanity is calculating	ng the Estimated Saniy Saved from all the items given								
Past Deal										
Half Year Anniv. Resource Pack	Yes	90 OP 10 Headhunting Permits 200k LMD 4 Chip Catalyst 20 Strategic Battle Record 50 Tactical Battle Record 100 Frontline Battle Record 20 Skill Summary 3 5 Skill Summary 3	\$49.99	22,200	444	2,274 [1]	45			
Half Year Anniv. Special Pack		51 OP 2020 Orundum 10 Headhunting Permits 1000 Furniture Parts	\$29.99	17,200	574	656	22			

	Yellow Highlight=Best in Gray= Not released yet i		pest operators to use in eac	ch layout, if you are missing a highest bonus you have'	ii operators just use the f
	Factory (Exp)		2 Trading	Post 4Factory 3 P	ower Plant
Eater			<u> </u>	·	3 Power plants
Conviction	E0 +30% (upgraded at E2) E1 +35%	E2 +35%	1st Trading Post Exusiai E2+35%	1st Factory (exp) Feater E2 +35%	Greyy: E0 +20%
igna igna	E0 +30%		Lappland+o%	Vigna +30%	Liskarm: E2 +20%
Castle-3	Lv30 +30%		Texas+65%	Castle-3 +30%	Pick one from below
Shirayuki	E1 +30%		Amiya/Swire +7%		Ifrit: E2+15%
rostleaf	E1 +30%		Total=107%	total =105%	Glaucus: E2 +15%
Scene	E0 15% to 25%	E2 storage capacity +12	2nd Trading Post	2nd Factory (exp)	Shaw: E1 +15%
Click	E0 mood reduction per hour -0.25	E1 storage capacity +12	Snowsant: E2+35%	Shirayuki E1 +30%	Rotating Team
	Factory (Gold)	Gummy: +30%	Frostleaf E1 +30%	Pick one from below
Purestream	E2 +20% per Trading post		Midnight: +30%	Vannilla E0+25%	Ifrit: E2+15%
Gravel	E1 +35%		Amiya/Swire +7%		Glaucus: E2 +15%
laze	E0 +30%		Total= 102%	Total=85%	Shaw: E1 +15%
pot	E1 +30%		TP Rotating Team (Any 3)	3rd Factory (Pure Gold)	
	Factory (Origini	um)	Catapult: +30%	Waai Fu E2 +40%	
yjafjalla	E0 +35%		Yato: +30%	Mayer E2 +30%	Factory Rotating Team
eylon	E2 +35%		Mousse: +30%	Jessica E0 +25%	Vanilla:
arthspirit	E1 +35%		Ambriel: +30%	Total= 95%	Perfumer:
ava Midnight	E1 +35% E1 +30%		Fang: +30% Haze: +30%	4th Factory (Pure Gold) Vermeil +16%+20%+16%	Steward: Popukar:
iluriigiit	E1 +30 %		11aze. 13070	1	горикат.
	Factory (Any))		Noir Corna E0+10%	Ptilopsis:
Veedy	E0 production from other operators reduced to 0, however increase production by +10% for every existing Power Station	E2 production from other operators reduced to 0, however increase production by +15% for every existing Power Station		Ceobe E2 +25%	Silence:
Waai Fu:	E0 remove Morale Reduction effects from operators	E2: gain % from others, up to 40%		Total= 87%	
vuai i u.	E0 -production from other operators reduced to 0,	E2 -production from other operators reduced to 0,		15.00 - 07 /0	-
Eunectes	however increase production by +5% for every existing	however increase production by +10% for every			
	Power Station (Skill upgrade at E2)	existing Power Station			l - Black
Mayer:	E2 +30%			ding Post 5 Factory 2 Powe	2 Power plants
essica: 'anilla:	E0 +25% E0 +25%		1st Trading Post Exusiai E2+35%	1st Factory (exp) Feater E2 +35%	Greyy: E0 +20%
erfumer:	E1 +25%		Lappland+o%	Vigna +30%	Liskarm: E2 +20%
teward:	E1 +25%		Texas+65%	Castle-3 +30%	Liskaini. LZ 12070
opukar:	E0 +25%, -12 Capacity and +0.25 Morale Reduction		Amiya/Swire +7%	00000 0 10070	Power Plant Rotating Tea
tilopsis:	E0 +15%	E2 +25%	Total=107%	total =105%	Pick one from below
Silence:	E0 +15%	E2 +25%	2nd Trading Post	2nd Factory (exp)	Ifrit: E2+15%
sbestis	E0 +25%, storage capacity -12 and mood reduction per hour +0.25 (stack with E2)	E2 storage capacity +16 and mood reduction per hour -0.25	Snowsant: E2+35%	Shirayuki E1 +30%	Glaucus: E2 +15%
Ceobe	E0 +8 Capacity and -0.25 Morale Reduction	E2 +20 to +25% Best with Vermeil	Gummy: +30%	Frostleaf E1 +30%	Shaw: E1 +15%
ang:	E0 +20% to 25%		Midnight: +30%	Vannilla E0+25%	
Kroos: Meteor:	E0 +15% to 25% E0 +15%		Amiya/Swire +7% Total= 102%	Total=85%	
rato:	Lv30 +15%		Rotating Team (Any 3)	3rd Factory (Pure Gold)	5th Factory (Flex)
Noir Corne:	E0 +10% and +10 Capacity		Catapult: +30%	Waai Fu E2 +40%	Vanilla:
Cardigan:	E0 +10% and +6 Capacity		Yato: +30%	Mayer E2 +30%	Perfumer:
Beagle:	E0 +10% and +6 Capacity		Mousse: +30%	Jessica E0 +25%	Steward:
Cuora:	E0 +10% and +10 Capacity		Ambriel: +30%	Total= 95%	Total= 75%
Scavenger:	E1 +8 Capacity and -0.25 Morale Reduction		Fang: +30%	4th Factory (Pure Gold)	Rotating Team (Flex)
/ermeil:	E0 +8 Capacity and -0.25 Morale Reduction	E1 +2% for every +1 Capacity from Operators	Haze: +30%	Vermeil +16%+20%+16%	Popukar:
/ulcan:	E0 -5%, +16 Capacity and -0.15 Morale Reduction	E2 -5%, +18 Capacity and -0.25 Morale Reduction	ı	Noir Corna E0+10%	Ptilopsis:
				Ceobe E2 +25%	Silence:
	Trading Post			Total= 87%	
		E2			
Shamare	E0 Slightly increase the appearance rate of high volume orders of precious metals (affected by work duration) and mood reduction per hour -0.25	order acquisition efficiency from other operators reduced to 0, however each operator grants +45% order acquisition efficiency to self. Additionally, mood reduction per hour of all operators +0.25			
xusiai	E0 +20%	E2 +35%			
appland	E0 -0.1 Morale Reduction and +2 Order Limit	E2 -0.1 Morale Reduction and +4 Order Limit			
exas	E0 With Lappland, +65% and +0.3 Morale Reduction	E2 With Exusiai, -0.3 Morale Reduction			
nowsant:	E0 +5% per 5% of other Operators, 25% cap (upgraded at E2)	E2 Gain % from others up to 35%			
Summy:	E0 +30% and -0.25 Morale Reduction				
lidnight:	E0 +30% and -0.25 Morale Reduction				
atapult:	E0 +30% and -0.25 Morale Reduction				
ato:	E0 +30%				
lousse: mbriel:	E0 +30% E1 +30%				
ang:	E1 +30% E1 +30%				
arig. latoimaru:	E1 +30%				
ora:	E2 +30%				
ison:	E0 +20%	E2 +30% and +1 Order Limit			
roissant:	E0 +20%	E2 +30% and +1 Order Limit			
laze:	E1 +30%	Better in factory (+30% pure gold)			
lelantha:	E0 +25% and +1 Order Limit				
Sitano:	E0 +25% and +1 Order Limit				
orchid:	E1 +25% and +1 Order Limit				
eepcolor:	E0 +20%				
dana de le l	E0 +20%		1		
/anilla:	E1 +20%				
Adnachiel: /anilla: Cuora: Silverash:		E2 +20% and +3 Order Limit			

Courier:	E0 +15% and +1 Order Limit		
Cliffheart:	E2 +15% and +2 Order Limit		
Noir Corne:	Lv30 +10% and +1 Order Limit		
Plume:	E1 +10% and +1 Order Limit		
	E0 slightly increase the appearance rate of high	E2 increase the appearance rate of high volume	
Bibeak	volume orders of precious metals (affected by work	orders of precious metals (affected by work	
	duration) and mood reduction per hour -0.25	duration) and mood reduction per hour -0.25	
Steward:	E0 -0.25 Morale Reduction and +3 Order Limit		
Rope:	E1 -0.25 Morale Reduction and +3 Order Limit		
Myrtle:	E0 -0.25 Morale Reduction and +3 Order Limit		
iviyitie.		E1 and a limit 1 for every 100/ officional provided	
Jaya	E0- order acquisition efficiency +4% for every 1 difference between the number of currently held orders	E1- order limit -1 for every 10% efficiency provided by other operators. Additionally, order acquisition	
Jaya	and the order limit	efficiency +4% per 1 currently held order	
	and the order mint	Simulating 1770 per 1 daniently field erder	
	Power Plant		
Greyy:	E0 +20%		
Liskarm:	E0 +15%	E2 +20%	
Ifrit:	E0 +10%	E2 +15%	
Glaucus:	E0 +10%	E2 +15%	
Shaw:	E1 +15%		
Puresteam	E0 +15%		
Thermal-EX	E0 +10%	Ivl 30 mood reduction per hour -0.52	
Blaze:	E0 +10%		
Lava:	E0 +10%		
Lancet-2:	E0 +10%		
Castle-3:	E0 +10%		
	Control Cente	r l	
Amiya:	E0 +7% for trading Post		
Swire:	E0 +7% for trading Post	Amiya and Swire Skill DO NOT STACK	
CANILO.		L contar anastore)	
Design + D	Control Center(Mood reducer for control	i center opeators)	
Projekt Red:	E0 -0.05 mood in control center		
Nearl:	E0 -0.05 mood in control center		
Dobermann:	E0 -0.05 mood in control center		
Scavenger:	E0 -0.05 mood in control center	This only effect oneto	
Greythroat:	E0 -0.05 mood in control center	This only affect operators in control center	
Dur-nar:	E0 -0.05 mood in control center		
Executor:	E0 -0.05 mood in control center		
		-	
Reed:	E0 -0.05 mood in control center		
Hung	E2 -0.05 to Operators in the Control Center per Li's Det	ective Agency in the Control Center and reduce	
	morale reduction for those Operators.		
Chen	E0 -0.05 to Operators in the Control Center per Lungme	n Guard Bureau Operator in the Control Center.	
	E0 lightly increase the bias of operators in Reception		
Leizi	finding clues from their own faction, however slightly	E2 slightly increase the bias of operators in	
	increase mood reduction per hour of all operatives in the Command Center	Reception finding clues from their own faction	
Poca	E0 for every operator from Ursus Student Council in the operators in the Command Center -0.05	Command Center, mood reduction per nour of all	
	E0		
Aak:	Increases bias of Operators finding clues in their own fa	ction in Recention Room but increases morale	
run.	reduction per hour for Operators in Control Center	such in recording the more documentals	
	E2		
Eunectes	- if Lancet-2 is stationed at a Power Station, it will be co	nsidered as having 2 additional Power Stations	
	(only affects facility count)	3	
	Dorm (Boost Al	1.)	
	Dorm (Boost Al		
Durin	E0 +0.2 All	Lv30 +0.25 All	
	and -0.1 Self	and -0.1 Self	
Ambriel	E0 +0.2 All		
lorioi	and -0.1 Self		
Zima	E0 +0.15 All	E2 +0.2 All	
Nightingale	E0 +0.1 All	E2 +0.2 All	
Siege	E0 +0.15 All	E2 +0.2 All	
Podenco	E1 +0.15 All		
Sora	E0 +0.15 All		
Amiya	E2 +0.15 All		
		E2 +0.1 All and	
Hellagur	E1 +0.1 All	+0.55 Self	
Bagpipe	E0 +0.1 All	- 5.55 5511	
Dagpipe	LV ·V.I All		
	Dorm (Boost or	e) I	
Shining	E0 +0.55	E2 +0.75	
Conviction	E0 +0.7		
_ancet-2	Lv30 +0.65	E4 10 65	
Podenco	E0 +0.55	E1 +0.65	
Hibiscus	E0 +0.55		
Ansel	E0 +0.55		
Лyrrh	E1 +0.55		
Meteor	E1 +0.55		
	E0 +0.55		
Tomimi	Gavial recieves additional +0.45		
	E0 +0.55,		
Schwarz	Ceylon receives additional +0.45		
Pramanix	E0 +0.5 and +0.25 Self		
· amana			
Nearl	E2 +0.5 and +0.25 Self		
100			
	E1 +0.35		
	and +0.35 Self		
	and +0.35 Self	l l	
Aciddrop	E1 +0.35		
Aciddrop Gummy	E1 +0.35 and +0.35 Self		
Aciddrop	E1 +0.35		

	E4 +0.0		
Mousse	E1 +0.3 and +0.3 Self		
Cliffheart	E0 +0.25		
Beagle	and +0.5 Self E1 +0.2		
Cardigan	and +0.4 Self E1 +0.2		
Caraigan	and +0.4 Self		
	Office	9	
Eyjafjalla:	E2 +45%	E0 + 45%	
Provence: Orchid:	E0 +30% E0 +40%	E2 +45%	
Ethan:	E0 +40%		
Aciddrop Utage	E0 +40% E1 +40%		
Utage Earthspirit:	E1 +40% E0 +30%		
Tsukinogi	E0 +30%	networking reso	ther increase accumulation of ources by +5% for every Open of (excluding the initial slot)
Nightmare:	E2 +40%	- d - i	of alternative stress from House
Poca	E2 +20% and Whenever a refresh count is gained Student Council (affected by work duration and		
Rangers:	E0 +20%		
	WorkShop (rand	om Material)	
Mayer	E0 +65%	· · · · · · · · · · · · · · · · · · ·	
Estelle	E0 +60%		
Deepcolour Magallan	E1 +60% E0 +50%	E2 4+ Morale o	onsumes 2 instead
Hung	E0 +50%		
Spot Rangers	E0 +50% Lv30, +50%		
Adnachiel	E1 +50%		
Gravel Melantha	E0 +40% E1 +40%		
	WorkShop (Elit	e Material)	
Nian	E0 +100%, consumes 2 extra mood	mood	
Chiave	E0 recipes which consume 4 mood will have -1 consumed	E2- +90% for D	evice- type
Ceylon Blue Poison	E0 +80% E0 +75%	E2 +80%	
Meteorite	E0 +75% E0 +75%	E2 +80% E2 +80%	
Catapult	E1 +80%		
Sussurro Sesa	E1 +80% E0 recipes which consume 4 mood will have -2	mood E2 +75%	
	consumed	EZ +15/6	ch consume 2 mood will have -1
Folinic	E0 +75%	mood consume	
Perfumer Myrrh	E0 +75% E0 +75%		
Gavial	E0 +75%		
Ansel Hibiscus	E1 +75% E1 +70%		
i iibiacua	L		
	Workshop (Bas	e Material)	
Blaze	E2 +80%	F2 recipes a bi	ch concume 2 mood will have 4
Leonhardt	E0 +75%	mood consume	ch consume 2 mood will have -1 d
Shaw	E0 +70%		
	Workshop (Skill	l Summary)	
Hellagur	E0 +80%		
Flamebringer Mateimaru	E0 +70% E0 +70%	E2 +80%	
Matoimaru Savage	E0 +70% E0 +70%		
-			
	WorkShop	(Chip)	
Bagpipe	E2 +80%	(3	
Cutter	E0 +70%	E1 recipes whi mood consume	ch consume 2 mood will have -1
Beehunter	E1 +70%	mood consume	
12F	Lv30 +70%		
	Reception	Room	
Clue 1			E2 +10% and easier to obtain
Clue 1	Saria:	E0 +10%	from Rhine Labs
	1	E0 +20%	E1 +20% and easier to obtain from Penguin Logistics
Clue 2	May:		
Clue 2	May: Mostima:	E0 +10%	E2 +10% and easier to obtain
Clue 2		E0 +10% E1 +10% and e	

		E0	E2
		When stationed at	When stationed at Reception,
	Absinthe	Reception, it	whenever a newly obtained clue is not from Ursus Student
	Absilitie	obtain clues from	
		Ursus Student	chance of obtaining clues
		Council	from Ursus Student Council
Clue 5	Indra:	E0 +10%	
	Breeze:	E0 +10%	
Clue 6	Courier:	E1 +10% and easi	er to obtain from Karlan Trading
Clue 7	Angelina:	E0 +10%	E2 +10% and easier to obtain from Rhodes Island
		E0	E2
		When stationed at	When stationed at Reception,
	Elysium	Reception, it	whenever a newly obtained clue is not from Rhodes
	Elysium	becomes easier to	Island, further increase the
		obtain clues from Rhodes Island	chance of obtaining clues
		Rnodes Island	from Rhodes Island
	Reception (Any)		
Gitano:	E1 +25%		
Projekt Red:	E2 +25%		
Astesia:	E0 +10%	E2 +25%	
12F:	E0 +20%		
Firewatch:	E0 +10%	E2 +20%	
Ch'en:	E2 +25%		
Shirayuki:	E0 +20%		
Rope:	E0 +20%		
Utage	E1 +20%		
Ayerscarpe	E0 +10%	E2 +20%	

[1] =200000/(7500/30)---LMD +4*90/(21/30)---chip (20*2000+50*1000+100*400)/(7400/30) ---exp ticket 300+132.5 - skill summary