	Primary	Secondary	Between	Sporadic	Height	Density	Size	Weight	OW	Nether	TF	End	End A.	Moon	Deimos	Mars	Phobos	Asteroids	Callisto	Ceres	Europa	Ganymede	Io	Mercury	Venus	Enceladus	Miranda	Oberon	Titan	Proteus	Triton	Haumea	Kuiper Belt	Makemake	Pluto	A Centauri Bb	Barnarda C	Barnarda E	Barnarda F	T Ceti E	Vega B
Graphite	Graphite Ore	Graphite Ore	Diamond Ore	Coal Ore	5-20	1	16	40	X		X						X					X		X				X		X	X				X						
Redstone	Redstone Ore	Redstone Ore	Ruby Ore	Cinnabar Ore	5-40	2	24	60	X	X						X						X		X	X			X								X					X
Chalcopyrite (Low)	Chalcopyrite Ore	Iron Ore	Pyrite Ore	Copper Ore	5-60	3	24	80	X	X		X	X	X					X	X						X					X							X				
Brown Limonite	Brown Limonite Ore	Yellow Limonite Ore	Banded Iron Ore	Malachite Ore	10-40	3	24	120	X	X	X					X			X	X		X		X					X						X						
Grossular	Grossular Ore	Spessartine Ore	Pyrolusite Ore	Tantalite Ore	20-30	2	16	20	X	X			X						X				X					X	X		X					X		X	X		
Kyanite	Kyanite Ore	Mica Ore	Cassiterite Ore	Psilucite Ore	20-40	2	16	20	X											X																	X				
Lazurite	Lazurite Ore	Sodalite Ore	Lapis Ore	Calcite Ore	20-50	4	16	40	X		X		X		X					X							X														X
Soapstone	Soapstone Ore	Talc	Glauconite Ore	Pentlandite Ore	20-50	2	16	40	X		X									X																					
Magnetite (Low)	Magnetite Ore	Magnetite Ore	Vanadium Magnetite Ore	Gold Ore	30-60	2	32	160	X		X	X	X				X	X	X	X										X					X			X	X	X
Coal	Coal Ore	Coal Ore	Coal Ore	Lignite Coal Ore	30-80	5	32	80	X		X																													
Apatite	Apatite Ore	Apatite Ore	Tricalcium Phosphate Ore	Pyrochlore Ore	40-60	2	16	60	X		X																													X	
Cassiterite	Cassiterite Sand	Garnet Sand	Asbestos Ore	Diatomite Ore	50-60	3	24	80	X												X															X					
Basaltic Mineral	Basaltic Mineral Sand	Granitic Mineral Sand	Fullers Earth	Gypsum Ore	50-60	3	24	80	X												X																X				
Kaolinite	Kaolinite	Zeolite Ore	Fullers Earth	Glauconite Sand	50-70	4	16	60	X																															X	
Rock Salt	Rock Salt Ore	Salt Ore	Lepidolite Ore	Spodumene Ore	50-70	2	24	50	X		X					X																					X			X	
Olivanda	Olivanda Ore	Olivanda Ore	Olivanda Ore	Olivanda Ore	50-80	5	16	40	X																												X			X	
Magnetite (High)	Magnetite Ore	Magnetite Ore	Iron Ore	Vanadium Magnetite Ore	60-180	2	32	160	X		X				X					X				X							X							X		X	
Tin	Tin Ore	Tin Ore	Cassiterite Ore	Tin Ore	60-220	4	24	50	X		X	X	X	X										X		X		X												X	
Chalcopyrite (High)	Chalcopyrite Ore	Vermiculite	Cassiterite Ore	Alunite Ore	80-200	3	24	80	X																																
Lignite Coal	Lignite Coal Ore	Lignite Coal Ore	Lignite Coal Ore	Coal Ore	80-210	7	32	160	X																													X			
Dolomite	Dolomite Ore	Wollastonite Ore	Trona Ore	Andradite Ore	150-200	4	24	40	X																																
Sulfur	Sulfur Ore	Sulfur Ore	Pyrite Ore	Sphalerite Ore	5-20	4	24	100		X					X	X	X							X		X										X					
Beryllium	Beryllium Ore	Beryllium Ore	Emerald Ore	Thorium Ore	5-30	2	16	30		X		X	X			X				X						X				X		X		X	X	X		X			
Saltpeter	Saltpeter Ore	Diatomite Ore	Electrotine Ore	Alunite Ore	5-45	3	16	40		X										X															X						
Wulfenite	Wulfenite Ore	Molybdenite Ore	Molybdenum Ore	Powellite Ore	20-50	2	16	5		X	X	X	X				X			X				X					X	X				X				X		
Nether Quartz	Nether Quartz Ore	Nether Quartz Ore	Quartzite Ore	Quartzite Ore	40-80	4	24	80		X																									X						
Quartzite	Quartzite Ore	Barite Ore	Certus Quartz Ore	Certus Quartz Ore	80-120	2	16	30		X																															
Tetrahedrite	Tetrahedrite Ore	Tetrahedrite Ore	Copper Ore	Stibnite Ore	80-120	3	24	70		X		X		X		X		X					X			X								X			X			X
Peridillo Infused Stone	Peridillo Infused Stone	Ordo Infused Stone	Amber Ore	Cinnabar Ore	5-35	2	16	16			X																													
Terra Infused Stone	Terra Infused Stone	Aer Infused Stone	Amber Ore	Cinnabar Ore	5-35	2	16	16			X																													
Aqua Infused Stone	Aqua Infused Stone	Ignis Infused Stone	Amber Ore	Cinnabar Ore	5-35	2	16	16			X																													
Galena (TF)	Galena Ore	Galena Ore	Silver Ore	Lead Ore	5-35	4	16	40			X																													
Galena	Galena Ore	Galena Ore	Silver Ore	Lead Ore	5-45	4	16	40			X				X		X							X		X			X		X										X
Almandine	Almandine Ore	Pyrope Ore	Sapphire Ore	Green Sapphire Ore	10-40	2	16	60			X																													
Bantonite	Bantonite Ore	Magnesite Ore	Olivine Ore	Glauconite Ore	10-40	2	16	60			X		X								X										X		X				X			
Garnierite	Garnierite Ore	Nickel Ore	Cobaltite Ore	Pentlandite Ore	10-40	2	16	40			X	X	X		X	X	X									X				X		X		X						
Naquadah	Naquadah Ore	Naquadah Ore	Naquadah Ore	Enriched Naquadah Ore	10-90	4	32	30				X						X							X	X			X	X		X		X			X	X		X
Scheelite	Scheelite Ore	Scheelite Ore	Tungstate Ore	Lithium Ore	20-60	2	16	10				X			X	X		X	X				X				X			X	X	X	X	X						X
Sheldonite	Sheldonite Ore	Palladium Ore	Platinum Ore	Iridium Ore	40-50	2	16	5				X																												
Ilmenite	Ilmenite Ore	Chromite Ore	Uvarovite Ore	Perlite Ore	10-70	2	16	16						X				X	X				X		X				X	X					X					X	
Bauxite	Bauxite Ore	Ilmenite Ore	Aluminium Ore	Ilmenite Ore	10-80	3	24	80						X			X	X	X				X		X				X	X		X	X	X	X					X	
Bastnasite	Bastnasite Ore	Bastnasite Ore	Monazite Ore	Neodymium Ore	20-40	2	16	30						X	X				X					X		X				X	X	X			X				X	
Quartzite	Quartzite Ore	Barite Ore	Certus Quartz Ore	Certus Quartz Ore	40-80	3	16	20						X		X	X							X		X				X					X				X	
Desh	Desh Ore	Desh Ore	Scheelite Ore	Tungstate Ore	5-40	2	16	30								X																								
Uraninite	Uraninite Ore	Uraninite Ore	Uranium 238 Ore	Uranium 238 Ore	20-30	2	16	20							X		X			X			X						X		X	X	X			X				
Draconium	Draconium Ore	Electrotine Ore	Jade Ore	Vinteum Ore	20-40	1	16	40							X		X							X																
Pitchblende	Pitchblende Ore	Pitchblende	Uraninite Ore	Uraninite Ore	30-60	2	16	40								X	X							X		X			X		X	X	X		X			X		X
Orihaukon	Orihaukon Ore	Tanzanite Ore	Vyroxeres Ore	Mirabilite Ore	30-60	2	16	40							X		X																							
Arsenic	Arsenic Ore	Bismuth Ore	Antimony Ore	Antimony Ore	40-60	5	32	60								X	X							X					X											X
Chrome	Chrome Ore	Tungstate Ore	Molybdenum Ore	Manganese Ore	5-15	2	16	5													X																		X	
Platinum	Platinum Ore	Chrome Ore	Sheldonite Ore	Palladium Ore	5-30	2	16	10											X	X		X	X	X				X						X						
Callisto Ice	Callisto Ice Ore	Topaz Ore	Blue Topaz Ore	Aldusorite Ore	40-60	2	16	40											X																					
Magnesite	Magnesite Ore	Banded Iron Ore	Sulfur Ore	Opal Ore	55-65	4	24	110													X																		X	
Ledox	Ledox Ore	Opal Ore	Orichalcum Ore	Rubracium Ore	55-65	2	24	30													X						X													
Uranium 238	Uranium 238 Ore	Plutonium 239 Ore	Thorium Ore	Thorium Ore	65-120	2	8	5											X	X			X	X																
Rutile	Rutile Ore	Titanium Ore	Bauxite Ore	Meteoric Iron Ore	5-20	4	12	8														X							X											
Quantium	Quantium Ore	Amethyst Ore	Rutile Ore	Ardite Ore	5-25	3	24	30														X							X											
Mythril	Mythril Ore	Jasper Ore	Cerussase Ore	Vulcanite Ore	10-30	2	16	40															X																	
Gold	Gold Ore	Gold Ore	Infused Gold Ore	Platinum Ore	15-40	2	16	30															X						X	X		X					X			X
Nickel (Iridium)	Nickel Ore	Iridium Ore	Palladium Ore	Mithril Ore	15-40	2	16	10															X	X	X	X	X		X		X		X							
Pyrolusite	Pyrolusite	Apatite	Tantalite	Pyrochlore	20-30	4	26	10															X				X													
Tungsten	Tungsten Ore	Silicon Ore	Deep Iron Ore	Shadowiron Ore	5-25	2	30	16																				X	X						X	X	X			
Nickel (Osmium)	Nickel Ore	Osmium Ore	Iridium Ore	Nickel Ore	5-30	2	16	10																	X	X	X	X	X		X		X		X					
Vanadium	Vanadium Ore	Magnetite Ore	Gold Ore	Chrome Ore	10-50	2	24	60																	X			X			X				X					
Neutronium	Neutronium Ore	Adamantium Ore	Naquadah Ore	Titanium Ore	5-30	2	16	10																			X	X	X	X	X		X			X			X	
Niobium	Niobium Ore	Yttrium Ore	Gallium Ore	Gallium Ore	5-30	2	24	60																				X			X								X	
Thorium	Thorium Ore	Uranium 238 Ore	Plutonium 241 Ore	Uranium 235 Ore	10-30	2	24	60																				X	X			X							X	
Black Plutonium	Black Plutonium Ore	Red Garnet Ore	Yellow Garnet Ore	Borax Ore	5-25	2	24	40																								X	X		X		X			
Red Garnet	Red Garnet Ore	Yellow Garnet Ore	Chrysotile Ore	Realgar Ore	10-30	2	16	40																								X							X	
Garnet	Garnet Sand	Nether Star Ore	Red Garnet Ore	Yellow Garnet Ore	20-60	2	24	60																							X							X	X	
Samarium	Samarium Ore	Neodymium Ore	Tartarite Ore	Tartarite Ore	10-40	3	24	10																												X	X			
Cadmium	Cadmium Ore	Caesium Ore	Lanthanum Ore	Cerium Ore	30-60	2	24	40																												X		X		X

End Asteroids (End A.) are oblong shaped and tend to be fairly large, with a bunch of ores on them of the same vein. They are not the random spheres throughout The End.

Highlights above are what dim/planet tier you first encounter the vein

Rocket T1 is the moon, color changes after that indicate rocket tier+1

Toxic Everglades has GT++ Ores. To get there you need the Containment Frames and Alkalus disk, which is ZPM

Ross128b, Ross128ba have Bartworks Ores

Bedrock Dim has a variety of ores. Get there with the Kami pickaxe

Deep Dark ore has been removed in favor of using the BW void miner there. It will produce all the ores (even useless ores, but maybe not BW or GT++?), even fusion metals, minus infinity

Temporary BW ore info until bart fixes his stuff. Versions below 2.0.8.8 may crash if you try to check the origin of the ore. Of course, Bart removed the ores instead of fixing them, aside from Ross ores

Some/all of these may have been disabled due to broken world gen (mercury veins on the moon). Check NEI!

									Ross123b (T3)	Ross128ba (T5)
Platinum Metallic Powder	Platinum Metallic Powder	?	?	?	?	?	?	?	Multiple listed, can't tell them all because of broken word wrap	
Palladium Metallic Powder	Palladium Metallic Powder	?	?	?	?	?	?	?	Multiple listed, can't tell them all because of broken word wrap	
Leach Residue	Leach Residue	?	?	?	?	?	?	?	Multiple listed, can't tell them all because of broken word wrap	
Crude Rhodium Metal	Crude Rhodium Metal	?	?	?	?	?	?	?	Multiple listed, can't tell them all because of broken word wrap	
Rarest Metal Residue	Rarest Metal Residue	?	?	?	?	?	?	?	Multiple listed, can't tell them all because of broken word wrap	
Iridium Metal Residue	Iridium Metal Residue	?	?	?	?	?	?	?	Multiple listed, can't tell them all because of broken word wrap	
Arsenopyrite	Arsenopyrite	Ferberite	Loellingite	Roquesite	?	?	?	?	X	
Arsenopyrite	Arsenopyrite	?	?	?	?	?	?	?	Multiple listed, can't tell them all because of broken word wrap	
BArTiMaEuSNeK	BArTiMaEuSNeK	BArTiMaEuSNeK	BArTiMaEuSNeK	BArTiMaEuSNeK	?	?	?	?		
Bismuthinite	Bismuthinite	Stibnite	Bismuth	Bismutite	?	?	?	?	X	
Ferberite	Ferberite	Huebnerite	Loellingite	Scheelite	?	?	?	?	X	
Ferberite	Ferberite	Huebnerite	Loellingite	Scheelite	?	?	?	?		
Fluorspar	Galena	Sphalerite	Fluorspar	Barite	?	?	?	?		
Olenite	Olenite	Fluor-Buergerite	Chromo-Alumino-Povondra	Vanadio-Oxy-Dravite	?	?	?	?	X	
Olenite	Olenite	Fluor-Buergerite	Chromo-Alumino-Povondra	Vanadio-Oxy-Dravite	?	?	?	?		
Orange Descloizite	Forsterite	Fayalite	Orange Descloizite	Red Descloizite	?	?	?	?	X	
Orange Descloizite	Hadenenergite	Fayalite	Orange Descloizite	Red Descloizite	?	?	?	?	X	
Prasiolite	Amethyst	Olivine	Prasiolite	Hedenbergite	?	?	?	?		
Red Fuchsite	Fayalite	Green Fuchsite	Red Zircon	Red Fuchsite	?	?	?	?	X	
Tartinguaite	Cinnabar	Tartinguaite	Athenesite	Temagamite	?	?	?	?	null	(It's on the moon, but should be on mercury?)
Thorianite	Thorianite	Uraninite	Lepidolite	Spodumene	?	?	?	?	X	
Tiberium	Tiberium	Tiberium	Enriched Naquadah	Enriched Naquadah	?	?	?	?		
Wittichenite	Djurleite	Bornite	Wittichenite	Tetrahedrite	?	?	?	?	X	

Small Ores		Density	Location		
Platinum Metallic Powder	Platinum Metallic Powder	8	Every space dim?		
Palladium Metallic Powder	Palladium Metallic Powder	8	Every space dim?		
Leach Residue	Leach Residue	8	Every space dim?		
Crude Rhodium Metal	Crude Rhodium Metal	8	Every space dim?		
Rarest Metal Residue	Rarest Metal Residue	8	Every space dim?		
Iridium Metal Residue	Iridium Metal Residue	8	Every space dim?		
Arsenopyrite	Arsenopyrite	8	Multiple listed, can't tell them all because of broken word wrap	(All space dims?)	
Athenesite	Cinnabar	3	null	Do these spawn cinnabar and not themselves then?	
Temagamite	Cinnabar	3	null		
Tartinguaite	Cinnabar	3	null		

Ore Name	Height	Amount	OW	Nether	TF	End	End A.	Moon	Deimos	Mars	Phobos	Asteroids	Callisto	Ceres	Europa	Ganymede	Io	Mercury	Venus	Enceladus	Miranda	Oberon	Titan	Proteus	Triton	Haumea	Kuiper Belt	Makemake	Pluto	A Centauri Bb	Barnarda C	Barnarda E	Barnarda F	T Ceti E	Vega B
Diamond	5-15	2	X						X			X	X	X					X			X	X		X		X								X
Redstone	5-25	8	X	X						X						X	X	X					X	X											
Lapis	10-50	4	X								X					X	X			X		X												X	
Gold	20-60	8	X			X	X			X	X	X	X	X					X		X						X		X				X		
Silver	20-60	20	X	X		X	X										X			X		X	X	X	X				X						X
Iron	40-100	16	X	X		X				X	X	X	X			X	X			X	X		X		X	X	X					X	X		
Nickel	80-150	8	X			X	X		X	X		X		X				X	X	X							X	X	X			X	X		
Copper	60-180	32	X	X		X				X	X													X	X										
Zinc	80-210	24	X	X		X	X			X						X	X	X		X			X	X		X						X			
Tin	80-220	32	X	X		X	X		X	X						X							X	X											
Coal	120-250	24	X																																
Sulfur	5-60	40		X													X		X																
Certus Quartz	5-115	16		X																															
Saltpeter	10-60	8		X	X				X	X						X	X		X	X				X											
Realgar	15-85	32		X																													X		
Nether Quartz	30-120	64		X																															
Lead	40-180	16		X		X	X		X	X		X		X		X		X	X			X			X		X	X	X						X
Bismuth	80-120	8		X						X			X	X			X	X						X				X							X
Amber	5-35	2			X																														
Amethyst	5-35	2			X																														
Blue Topaz	5-35	2			X																														
Emerald	5-35	2			X																														
Green Sapphire	5-35	2			X																														
Jade	5-35	2			X																														
Jasper	5-35	2			X																														
Olivine	5-35	2			X																														
Opal	5-35	2			X																														
Red Garnet	5-35	2			X																														
Ruby	5-35	2			X																														
Ruby (Fake)	5-35	2			X																														
Tanzanite	5-35	2			X																														
Topaz	5-35	2			X																														
Sapphire	5-35	2			X																														
Yellow Garnet	5-35	2			X																														
Meteoric Iron	50-70	8						X	X	X	X						X		X										X						
Draconium	5-15	4							X		X					X			X			X				X		X	X						
Desh	10-30	6							X		X		X					X			X			X	X	X		X							
Titanium	10-180	32							X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X		
Chromite	20-40	8							X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X						X
Tungstate	20-40	8							X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X		X		X						
Orlharukon	20-40	6								X				X				X					X		X	X		X							
Naquadah	5-25	8												X			X	X	X	X				X			X		X			X	X		
Quantium	5-25	6												X			X						X			X		X	X						
Mytryl	5-25	6											X						X		X			X				X							
Ledox	40-60	4											X					X		X		X				X			X						
Firestone	5-15	2															X		X																
Deep Iron	5-40	8																X																	
Tungsten	10-120	16															X		X																
Neutronium	5-15	8																		X		X	X	X	X	X	X	X	X			X	X	X	X
Black Plutonium	25-45	6																							X	X			X	X			X	X		X
Awakened Draconium	5-15	2																															X	X	X	X
Bedrockium	5-25	6																																X		
Infinity Catalyst	40-80	6																																		X
	Highlights above are what dim/planet tier you first encounter the small ore																																		
	Rocket T1 is the moon, color changes after that indicate rocket tier+1																																		
	Europa, Centauri Bb, Barnard C have none																																		
	Other dimensions probably have none																																		

GregTech Tier	Mod Tier	Metal	Rocket/Planet Tier	Mod-Start	Thaumcraft tier	Blood Magic Tier
Pre-Steam	0	Stone / Flint	0	Vanilla, Pam's Harvestcraft, Tinkers, Railcraft		
Steam	1	Bronze	0	Gregtech		
LV	2	Steel	0	Steve's Carts, Extra Utilites		
MV	3	Aluminum	0	Ender IO, Witchery	Tier 1 (Stick)	1
HV	4	Stainless Steel	1	Ender IO finishes, SFM, Witchery finishes	Tier 2 (Greatwood)	2
EV	5	Titanium	2	GT++ ABS, AE2, NanoChestPlate	Tier 3 (Elemental)	3
IV	6	Tungstensteel	3, 4	EnderStorage	Tier 4 (Warpwood)	4
LuV	7	Rhodium-Plated Palladium	5		Tier 5 (Ichor/Kami)	5
ZPM	8	Iridium	6	GraviChestPlate		6
UV	9	Osmium	7	Gendustry		
UHV	10	Neutronium	8	Draconic Evolution		
UEV	11	Bedrockium				
UIV	12	Black Plutonium				
UMV	13	Draconium				
UXV	14	No recipe				
OpV	15	No recipe				
MAX	16	No recipe				
Tiers UIV+ aren't really used right now						

Other Useful Sheets:

GTNH : Best Biome for IC2 crop

Uses info from the biome sheet to show you what are the best biomes for IC2 crops

https://docs.google.com/spreadsheets/d/1kEsvYlUZTw8oY5gu1NSB9B-KUZBqhpIC1xb2TWjZvoY/edit#gid=1059242842

Cracked Fuels

Lists results of most cracking DT recipes, Bee Planet dusts and their results, and some rocket info

https://docs.google.com/spreadsheets/d/1ifqKryaKXYWTku6p_45zYcdSJXYzabJ1QfzPBmC7a_I/edit#gid=0

Large Turbine Calculator

Make a copy, and then change the variables. Check the GT Turbine Stats sheet to see what kinds of turbines there are

https://docs.google.com/spreadsheets/d/1bNX3uDuWW5C_e1KWrUFLdDhqlYdI73c2oAhh901u7M0/edit#gid=655714366

GTNH Aspects

Follow the instructions to make your own copy, then sort to find out what has the essentia you want. Try removing items that have none to filter them out.

https://docs.google.com/spreadsheets/d/1s0jNPH-MVP4LKIP1fBZto-JCqcbeLSmDoCQBft4wKfA/edit#gid=267860337

Platinum Chart (may not be 100% accurate)

https://github.com/GTNewHorizons/NewHorizons/issues/4976

Cleanroom Calculator

https://docs.google.com/spreadsheets/d/18iIlmJdGN6o6NcrVr2F_1xYepNrqjq5NmdosAqYKAbA/edit#gid=1830446114

GTNH 2.0.9.0 Ore Byproducts

https://docs.google.com/spreadsheets/d/1UHTwues7WKA18VICFK2v4zYlahKAeNyrY8y03azSpHE/edit#gid=0

Power Distribution Diagram

We use the 'Moron' version (maybe, not guaranteed), which should balance power distribution better than the older system. Numbers are the order in which the machines get power

https://docs.google.com/spreadsheets/d/1A6gnzL3cljTsc89jN5BEML41INakvN7Pq6lN1MIveFg/edit#gid=0

GregTech New Horizons – Complete bee list

Has useful bee info

https://docs.google.com/spreadsheets/d/1NREhjJwEGRUK5W1wUSDNrKGG2AkFsblUZF9_PjtzPZ4/edit#gid=1525351597

Discord Links:

GT New Horizons (main discord for GTNH): https://discord.gg/EXshrPV

Bart's Stuff (Bartworks discord): https://discord.gg/jFvhQD6

GT++ (GT++ discord): https://discord.gg/YdXJbgb

TecTech (TecTech discord): https://discord.gg/aFurAxd

Magic Solars Info:

Aer: If you're at Y 220 (I think?), you get a 3x multiplier or 1x multiplier at Y 5. If you're between those two Y values, you'll get 1.5x for example (requires daylight)

Terra: Works exactly the same as Aer, except opposite for Y 5 being the best and Y 220 being the worst (requires daylight)

Aqua: While under water, you get a 2x multiplier. While raining, you get a 3x multiplier. While in a thunderstorm, you get a 6x multiplier (all but the thunderstorm events requires dalight

Ignis: While under lava, you get a 2x multiplier (requires daylight). While in the Nether biome or being fed ignis CVis, you get a 3x multiplier (I haven't checked this solar out so more info is needed)

Ordo: You get a 2x multiplier during the day but only produce a fraction of the EU during the night

Perditio: You get a 2x multiplier during the night but only produce a fraction of the EU during the day

Cables

Material	Voltage Tier	Max Amps	Loss
Red Alloy	8 (ULV)	1/2/4/8/12/16	0
Cobalt	32 (LV)	2/4/8/16/24/32	2
Lead	32 (LV)	2/4/8/16/24/32	2
Soldering Alloy	32 (LV)	1/2/4/8/12/16	1
Tin	32 (LV)	1/2/4/8/12/16	1
Zinc	32 (LV)	1/2/4/8/12/16	1
Redstone Alloy	32 (LV)	1/2/4/8/12/16	0
Cupronickel	128 (MV)	2/4/8/16/24/32	3
Iron	128 (MV)	2/4/8/16/24/32	3
Nickel	128 (MV)	3/6/12/24/36/48	3
Copper	128 (MV)	1/2/4/8/12/16	2
Annealed Copper	128 (MV)	1/2/4/8/12/16	1
SC Base MV	128 (MV)	1/2/4/8/12/16	1
Kanthal	512 (HV)	4/8/16/32/48/64	3
Electrum	512 (HV)	2/4/8/16/24/32	2
Gold	512 (HV)	3/6/12/24/36/48	2
Silver	512 (HV)	1/2/4/8/12/16	1
Blue Alloy	512 (HV)	2/4/8/16/24/32	1
SC Base HV	512 (HV)	1/2/4/8/12/16	1
Nichrome	2048 (EV)	3/6/12/24/36/48	4
Steel	2048 (EV)	2/4/8/16/24/32	2
Black Steel	2048 (EV)	3/6/12/24/36/48	2
Titanium	2048 (EV)	4/8/16/32/48/64	2
Aluminium	2048 (EV)	1/2/4/8/12/16	1
SC Base EV	2048 (EV)	2/4/8/16/24/32	1
Osmium	8192 (IV)	4/8/16/32/48/64	2
Tungstensteel	8192 (IV)	3/6/12/24/36/48	2
Tungsten	8192 (IV)	2/4/8/16/24/32	2
Platinum	8192 (IV)	2/4/8/16/24/32	1
SC Base IV	8192 (IV)	2/4/8/16/24/32	1
Yttrium Barium Cuprate	32768 (LuV)	4/8/16/32/48/64	4
HSS-G	32768 (LuV)	4/8/16/32/48/64	2
Niobium-Titanium	32768 (LuV)	4/8/16/32/48/64	2
Vanadium-Gallium	32768 (LuV)	4/8/16/32/48/64	2
SC Base LuV	32768 (LuV)	4/8/16/32/48/64	2
Trinium	131072 (ZPM)	6/12/24/48/72/96	4
Naquadah	131072 (ZPM)	2/4/8/16/24/32	2
SC Base ZPM	131072 (ZPM)	4/8/16/32/48/64	2
Duranium	524288 (UV)	1/2/4/8/12/16	8
Naquadah Alloy	524288 (UV)	2/4/8/16/24/32	4
Fluxed Electrum	524288 (UV)	3/6/12/24/36/48	1
SC Base UV	524288 (UV)	8/16/32/64/96/128	2
HSS-S	2097152 (UHV)	6/12/24/48/72/96	4
Bedrockium	2097152 (UHV)	2/4/8/16/24/32	1
SC Base UHV	2097152 (UHV)	12/24/48/96/144/192	2
Draconium	8388608 (UEV)	8/16/32/64/96/128	4
Nether Star	33554432 (UIV)	4/8/16/32/48/64	4

Wires

Material	Voltage Tier	Max Amps	Loss
Red Alloy	8 (ULV)	1/2/4/8/12/16	1
Cobalt	32 (LV)	2/4/8/16/24/32	4
Lead	32 (LV)	2/4/8/16/24/32	4
Soldering Alloy	32 (LV)	1/2/4/8/12/16	2
Tin	32 (LV)	1/2/4/8/12/16	2
Zinc	32 (LV)	1/2/4/8/12/16	2
Redstone Alloy	32 (LV)	1/2/4/8/12/16	2
Cupronickel	128 (MV)	2/4/8/16/24/32	6
Iron	128 (MV)	2/4/8/16/24/32	6
Nickel	128 (MV)	3/6/12/24/36/48	6
Copper	128 (MV)	1/2/4/8/12/16	4
Annealed Copper	128 (MV)	1/2/4/8/12/16	2
SC Base MV	128 (MV)	1/2/4/8/12/16	2
SC MV	128 (MV)	2/4/8/16/24/32	0
Kanthal	512 (HV)	4/8/16/32/48/64	6
Electrum	512 (HV)	2/4/8/16/24/32	4
Gold	512 (HV)	3/6/12/24/36/48	4
Silver	512 (HV)	1/2/4/8/12/16	2
Blue Alloy	512 (HV)	2/4/8/16/24/32	2
SC Base HV	512 (HV)	1/2/4/8/12/16	2
SC HV	512 (HV)	2/4/8/16/24/32	0
Nichrome	2048 (EV)	3/6/12/24/36/48	8
Steel	2048 (EV)	2/4/8/16/24/32	4
Black Steel	2048 (EV)	3/6/12/24/36/48	4
Titanium	2048 (EV)	4/8/16/32/48/64	4
Aluminium	2048 (EV)	1/2/4/8/12/16	2
SC Base EV	2048 (EV)	2/4/8/16/24/32	2
SC EV	2048 (EV)	4/8/16/32/48/64	0
Osmium	8192 (IV)	4/8/16/32/48/64	4
Tungstensteel	8192 (IV)	3/6/12/24/36/48	4
Tungsten	8192 (IV)	2/4/8/16/24/32	4
Graphene	8192 (IV)	1/2/4/8/12/16	2
Platinum	8192 (IV)	2/4/8/16/24/32	2
SC Base IV	8192 (IV)	2/4/8/16/24/32	2
SC IV	8192 (IV)	4/8/16/32/48/64	0
Yttrium Barium Cuprate	32768 (LuV)	4/8/16/32/48/64	8
HSS-G	32768 (LuV)	4/8/16/32/48/64	4
Niobium-Titanium	32768 (LuV)	4/8/16/32/48/64	4
Vanadium-Gallium	32768 (LuV)	4/8/16/32/48/64	4
SC Base LuV	32768 (LuV)	4/8/16/32/48/64	2
SC LuV	32768 (LuV)	8/16/32/64/96/128	0
Trinium	131072 (ZPM)	6/12/24/48/72/96	8
Naquadah	131072 (ZPM)	2/4/8/16/24/32	4
SC Base ZPM	131072 (ZPM)	4/8/16/32/48/64	2
SC ZPM	131072 (ZPM)	8/16/32/64/96/128	0
Duranium	524288 (UV)	1/2/4/8/12/16	16
Naquadah Alloy	524288 (UV)	2/4/8/16/24/32	8
Fluxed Electrum	524288 (UV)	3/6/12/24/36/48	2
SC Base UV	524288 (UV)	8/16/32/64/96/128	2
SC UV	524288 (UV)	16/32/64/128/192/256	0
HSS-S	2097152 (UHV)	6/12/24/48/72/96	8
Ichorium	2097152 (UHV)	12/24/48/96/144/192	2
Bedrockium	2097152 (UHV)	2/4/8/16/24/32	32
SC Base UHV	2097152 (UHV)	12/24/48/96/144/192	2
SC UHV	2097152 (UHV)	16/32/64/128/192/256	0
Draconium	8388608 (UEV)	8/16/32/64/96/128	32
Nether Star	33554432 (UIV)	4/8/16/32/48/64	16
Quantium	134217728 (UMV)	2/4/8/16/24/32	16
Black Plutonium	536870912 (UXV)	1/2/4/8/12/16	16
Awakened Draconium	1073741824 (OpV)	1/2/4/8/12/16	16
Infinity	2147483640 (MAX)	8192/16384/32768/65	1

Loss is per block per amp

Wires other than (finished) superconductors and Graphene hurt to walk on when in use

Voltage	Tier
8	ULV
32	LV
128	MV
512	HV
2048	EV
8192	IV
32,768	LuV
131,072	ZPM
524,288	UV
2,097,152	UHV
8,388,608	UEV
33,554,432	UIV
134,217,728	UMV
536,870,912	UXV
1,073,741,824	OpV
2,147,483,640	MAX

Mod	Material	Heat Limit	Tiny	Small	Normal	Large	Huge	Quadruple	Nonuple	
GT++	Trinium Naquadah Carbonite	250,000 K	40	80	120	160	200	n/a	n/a	
GT	Copper	1,000 K	60	120	400	800	1,600	400	120	
GT	Wood	350 K	n/a	200	600	1,200	n/a	n/a	n/a	Not Gas Proof
GT++	Clay	500 K	200	400	600	800	1,000	n/a	n/a	
GT	Bronze	2,000 K	400	800	2,400	4,800	9,600	2,400	800	
GTNH Coremod	Wrought Iron	2,250 K	600	1,200	3,600	7,200	14,400	3,600	1,200	
GT++	Lead	1,200 K	1440	2,880	4,320	5,760	7,200	n/a	n/a	
GT	Steel	2,500 K	800	1,600	4,800	9,600	19,200	4,800	1,600	
GT++	Potin	2,000 K	1,920	3,840	5,760	7,680	9,600	n/a	n/a	
GT	Plastic (Polyethylene)	350 K	1,200	2,400	7,200	14,400	28,800	7,200	2,400	
GT	Stainless Steel	3,000 K	1,200	2,400	7,200	14,400	28,800	7,200	2,400	
GT	PTFE	600 K	1,600	3,200	9,600	19,200	38,400	9,600	3,200	
GT	Titanium	5,000 K	1,600	3,200	9,600	19,200	38,400	9,600	3,200	
GT++	Void Metal	25,000 K	3,200	6,400	9,600	12,800	16,000	n/a	n/a	
GT	Tungstensteel	7,500 K	2,000	4,000	12,000	24,000	48,000	12,000	4,000	
GT	PBI	1,000 K	2,000	4,000	12,000	24,000	48,000	12000	4000	
GT++	Dark Steel	2,750 K	4,640	9,280	13,920	18,560	23,200	n/a	n/a	
GTNH Coremod	Nobium-Titanium	2,900 K	3,000	6,000	18,000	36,000	72,000	18,000	6,000	
GT++	Tungsten	7,200 K	8,640	17,280	25,920	34,560	43,200	n/a	n/a	
GTNH Coremod	Enderium	15,000 K	6,000	12,000	36,000	72,000	144,000	36,000	12,000	
GT++	Tantalloy-60	4,250 K	20,000	40,000	60,000	80,000	100,000	n/a	n/a	
GT++	Tantalloy-61	5,800 K	24,000	48,000	72,000	96,000	120,000	n/a	n/a	
GT++	Europium	7,500 K	24,000	48,000	72,000	96,000	120,000	n/a	n/a	
GT++	Staballoy	7,500 K	25,000	50,000	75,000	100,000	125,000	n/a	n/a	
GT++	Maraging Steel 300	2,500 K	28,000	56,000	84,000	112,000	140,000	n/a	n/a	
GT++	Inconel-690	4,800 K	30,000	60,000	90,000	120,000	150,000	n/a	n/a	
GT++	Maraging Steel 350	2,500 K	32,000	64,000	96,000	128,000	160,000	n/a	n/a	
GT++	Inconel-792	5,500 K	32,000	64,000	96,000	128,000	160,000	n/a	n/a	
GT++	Hastelloy-X	4,200 K	40,000	80,000	120,000	160,000	200,000	n/a	n/a	
GT	High Pressure	1,500 K	n/a	96,000	144,000	192,000	n/a	n/a	n/a	
GTNH Coremod	Naquadah	19,000 K	30,000	60,000	180,000	360,000	720,000	180,000	60,000	
GTNH Coremod	Neutronium	100,000 K	56,000	112,000	336,000	672,000	1,344,000	336,000	112,000	
GTNH Coremod	Nether Star	1,000,000 K	64,000	128,000	384,000	768,000	1,536,000	384,000	128,000	
GTNH Coremod	Mysterious Crystal	1,000,000 K	80,000	160,000	480,000	960,000	1,920,000	480,000	160,000	
GTNH Coremod	Awakened Draconium	10,000,000 K	150,000	600,000	600,000	1,800,000	3,600,000	900,000	300,000	
GTNH Coremod	Infinity	10,000,000 K	200,000	400,000	1,200,000	2,400,000	4,800,000	1,200,000	400,000	

Material	Tiny	Small	Normal	Large	Huge
Tin	0.125	0.25	0.5	1	2
Brass	0.25	0.5	1	2	4
Nickel	n/a	n/a	1	2	4
Electrum	0.5	1	2	4	8
Cobalt	n/a	n/a	2	4	8
Aluminium	n/a	n/a	2	4	8
Platinum	1	2	4	8	16
PVC	n/a	n/a	4	8	16
Osmium	2	4	8	16	32
Fluxed Electrum	4	8	16	32	64
Black Plutonium	8	16	32	64	128
Bedrockium	16	32	64	128	256
Quantium	32	64	128	256	512

Restrictive pipes are the same, but lower the Routing Value

There are Hexadecuple (16) fluid pipes for the following, but are uncraftable:
Copper, Bronze, Steel, Stainless Steel, Titanium, Tungsten, Plastic, PTFE

Fuid Temp in pipe > Heat Limit = Fire (instead of pipe) = Explosion

No	Material Name	Durability	Mining Level	Mining Speed	Damage	Trait	Durability Modifier	Break Chance	Weight	Draw Speed	Arrow Speed
41	Neutronium (GT)	491520	7	24	20	Reinforced III	6	90	10000	3	5.5
63	Awakened Draconium	49152	9	40	4		7.5	90	9.8	4	7.5
62	Draconium	24576	8	20	3		6.5	90	9.8	3.5	6.5
66	Adamantium	9216	6	34.5	12		4.5	90	2	2.5	4.5
112	Tritanium	7680	7	20	3		5.5	90	9.8	3	5.5
190	Oriharukon	7680	6	32	2.5		4.5	90	9.8	2.5	4.5
26	Infinity	7500	6	60	25	Cosmic/Unbre	10	0	2	1.5	10
152	Shadow	6144	5	32	2		3.5	90	9.8	2	3.5
187	Black Plutonium	6144	7	36			5.5	90	9.8	3	5.5
23	Bedrockium	5625	8	8	2		1.75	40	40	10	3
127	Enhanced Galgadorian	5400	6	32	2.5		4.5	90	9.8	2.5	4.5
78	Duranium	3840	6	16	2.5		4.5	90	9.8	2.5	4.5
105	Naquadah Alloy	3840	6	8	2.5		4.5	90	9.8	2.5	4.5
109	Nether Star	3840	5	6	2		3.5	90	9.8	2	3.5
182	HSS-E	3840	5	10	2		3.5	90	8.1	2	3.5
73	Celenegil	3072	2	10	1		1.5	90	9.8	1	1.5
166	Vibrant Alloy	3036	5	18	2		3.5	90	10.7	2	3.5
181	HSS-G	3000	4	10	1.5		2.5	90	9.8	1.5	2.5
128	Galgodorian	2700	4	16	1.5		2.5	90	9.8	1.5	2.5
65	Orichalcum	2592	4	4.5	1.5		2.5	90	9.8	1.5	2.5
50	Titanium	2400	4	7	7.5	Reinforced II	3.5	90	72	1.5	2.5
88	Haderoth	2400	4	10	1.5		2.5	90	9.8	1.5	2.5
117	Osmiridium	2400	4	7	1.5	Reinforced III	2.5	0.9	0.19	0.65	5
183	HSS-S	2250	5	14	2		3.5	90	12.9	2	3.5
44	Palladium	2200	2	18	8		1.5	90	2	1	1.5
113	Void	2050	5	16	4		3.5	90	9.8	2	3.5
36	Iridium	1920	4	6	1.5	Reinforced II	2.5	90	19.2	1.5	2.5
51	Tungsten	1920	4	7	1.5		2.5	90	18.3	1.5	2.5
59	Tungstensteel	1920	5	8	14	Reinforced III	4.5	90	178.5	2	3.5
82	Eximite	1920	4	5	1.5		2.5	90	9.8	1.5	2.5
165	Energetic Alloy	1805	4	12	1.5		2.5	90	0.11	1	4.6
25	Neutronium	1800	6	9	3	Supermassive	2.5	0	5	2.5	5
99	Inolashite	1728	4	8	1.5		2.5	90	9.8	1.5	2.5
134	Dark Steel	1561	4	8	5		2.5	90	2.7	1.5	2.5
146	Ultimet	1536	5	9	2		3.5	90	6.1	2	3.5
185	Quantium	1536	5	18	2		3.5	90	9.8	2	3.5
164	Damascus Steel	1500	4	8	2.5	Reinforced II	5	90	5.6	1.5	2.5
103	Meteoric Steel	1480	5	16.2	12	Reinforced I	3.5	90	2.1	2	3.5
110	Oureclase	1440	4	6	1.5		2.5	90	9.8	1.5	2.5
180	Vanadiumsteel	1440	4	18	7		2.5	90	5.5	1.5	2.5
77	Desh	1344	5	20	2		3.5	90	2	1.2	4.4
81	Enderium	1125	4	8	1.5		2.5	90	12.6	1.5	2.5
156	Knightmetal	1021	4	13	3		2.5	90	1.5	1.5	2.5
142	Stainless Steel	987	5	12	2.5	Reinforced I	3.5	90	5.5	2	3.5
43	Osmium	960	5	16	2	Reinforced II	3.5	90	19	2	3.5
75	Ceruclase	960	2	6	1		1.5	90	9.8	1	1.5
84	Firestone	960	4	6	1.5		2.5	90	9.8	1.5	2.5
104	Naquadah	960	5	6	2		3.5	90	9.8	2	3.5
106	Enriched Naquadah	960	5	6	2		3.5	90	9.8	2	3.5
124	Diamond	960	4	8	1.5		2.5	90	76.8	1.5	2.5
179	Tungstencarbide	960	5	14	2		3.5	90	9.7	2	3.5
12	Manyullyn	900	8	9	2.5		2.5	100	2.25	2.5	5
17	Blue Slime	900	0	1.5	0.5	Blue Slimy	1.5	0	0.22	1.05	4
155	Steeleaf	806	4	8	1.5		2.5	90	0.2	1.5	4.2
90	HSLA Steel	775	4	6	3		4	90	9.8	1.5	2.5
56	Endium	768	5	16	2		3.5	90	9.8	2	3.5
163	Blue Steel	768	5	7.5	4	Reinforced I	3.5	90	1.2	2	3.5
184	Ledox	768	5	15	2		3.5	90	9.8	2	3.5
188	Callisto Ice	768	5	9	2		3.5	90	9.8	2	3.5
162	Red Steel	672	5	7	5	Reinforced I	3.5	90	2.1	2	3.5
20	Aeon	617	5	11	1.5	Reinforced II	1.6	?	?	?	?
10	Cobalt	600	7	11	2	Reinforced II	1.75	200	3	2.25	5.3
80	Enderium Base	576	5	16	2		3.5	90	13.4	2	3.5
115	Vyroxeres	576	4	9	1.5		2.5	90	9.8	1.5	2.5
154	Shadowsteel	576	5	6	3		3.5	90	17.4	2	3.5
161	Black Steel	576	4	14	2.5	Reinforced I	2.5	90	6.4	1.5	2.5
135	Pig Iron (GT)	500	4	7.8	1.5		1.35	90	5.6	1	1.5
29	Blood Infused Iron	459	2	7	1.5		1.4	70	3.1	2.6	5.1
11	Ardite	455	6	8	2	Stonebound II	2.1	200	1.25	2.75	4.9
22	Dogbearium	450	5	8	1	Serrated	1.6	?	?	?	?
116	Reinforced	450	5	7	2		6	90	9.8	2	3.5
15	Alumite	413	5	7.9	2	Reinforced II	1.3	70	1.1	2.25	5
83	Fiery Steel	410	4	8	2		2.5	90	9.8	1.5	2.5
38	Manganese	384	2	7	1		1.5	90	5.5	1	1.5
39	Molybdenum	384	2	7	1		1.5	90	9.5	1	1.5
40	Neodymium	384	2	7	1		1.5	90	14.4	1	1.5
46	Plutonium 244	384	4	6	1.5		2.5	90	24.6	1.5	2.5
47	Plutonium 241	384	4	6	1.5		2.5	90	24.3	1.5	2.5
49	Thorium	384	2	6	1		1.5	90	23	1	1.5
52	Uranium 238	384	4	6	1.5		2.5	90	23.8	1.5	2.5
53	Uranium 235	384	4	6	1.5		2.5	90	23.5	1.5	2.5
58	Electrical Steel	384	2	6	1		1.5	90	3.6	1	1.5
79	Fluxed Electrum	384	4	16	1.5		2.5	90	9.8	1.5	2.5
107	Naquadria	384	5	1	2		3.5	90	9.8	2	3.5
111	Prometheum	384	0	8	0.5		0.5	90	9.8	0.5	0.5
177	Magnetic Steel	384	2	6	1	Reinforced I	1.5	90	5.7	1	1.5
178	Magnetic Neodymium	384	2	7	1		1.5	90	14.6	1	1.5
186	Mytryl	384	5	8	2		3.5	90	9.8	2	3.5
189	Duralumin	384	4	16	1.5		2.5	90	3.3	1.1	4.8
8	Green Slime	375	0	1	0.5	Green Slimy	2	0	0.22	1.4	4.2
16	Steel	300	4	7	1.5	Reinforced II	1.3	90	3.6	4	5.5
67	Alduorite	288	2	3	1		1.5	90	9.8	1	1.5
71	Blood Infused Iron (GT)	288	2	10	1		1.5	90	9.8	1	1.5
76	Dark Iron	288	4	7	1.5		2.5	90	9.8	1.5	2.5
102	Meteoric Iron	288	4	6	1.5		2.5	90	9.8	1.5	2.5
123	Deep Iron	288	2	6	1		1.5	90	5.6	1	1.5
147	Wrought Iron	288	2	6	1		1.5	90	5.6	1	1.5
148	Ironwood	288	2	6	1		1.5	90	5.9	1	1.5
153	Shadowiron	288	4	6	1.5		2.5	90	17.4	1.5	2.5
14	Bronze	285	3	3	1.5	Reinforced I	1.25	120	3.2	2.25	5.1
18	Pig Iron	250	2	6	1	Tasty/Reinforc	1.3	50	3	2.1	5.2
30	Aluminium	192	2	10	1		2	90	2.6	0.8	4
34	Chrome	192	4	11	1.5		2.5	90	5.2	1.5	2.5
54	Ruby	192	2	7	1		1.5	90	2.5	1	1.5
57	Conductive Iron	192	4	6	1.5		2.5	90	6.9	1.5	2.5
61	Pulsating Iron	192	4	6	1.5		2.5	90	6.1	1.5	2.5
95	Terra	192	4	8	1.5		2.5	90	9.8	1.5	2.5
119	Soularium	192	2	8	1		1.5	90	10.2	1	1.5
120	Blue Topaz	192	4	7	1.5		2.5	90	1.6	1.5	2.5
126	Emerald	192	2	7	1		1.5	90	1.8	1	1.5
129	Green Sapphire	192	2	7	1		1.5	90	2	1	1.5
130	Invar	192	2	6	1		1.5	90	5.6	1	1.5
132	Magnalium	192	2	6	1		1.5	90	0.12	0.9	3.33
141	Sapphire	192	2	7	1		1.5	90	2	1	1.5
143	Tanzanite	192	2	7	1		1.5	90	2	1	1.5
145	Topaz	192	4	7	1.5		2.5	90	1.6	1.5	2.5
149	Olivine	192	2	7	1		1.5	90	2.8	1	1.5
150	Opal	192	2	7	1		1.5	90	2	1	1.5
151	Amethyst	192	4	7	1.5		2.5	90	2.7	1.5	2.5
159	Black Bronze	192	2	12	1		1.5	90	9.8	1	1.5
160	Bismuth Bronze	192	2	8	1		1.5	90	9.2	1	1.5
168	Cobalt Brass	192	2	8	1		1.5	90	5.8	1	1.5
176	Magnetic Iron	192	2	6	1		1.5	90	5.7	1	1.5
2	Iron	188	2	6	1.5	Reinforced I	1.2	80	3.3	2.7	5.2
5	Bone	151	0	3	1		1.08	100	1.69	1.9	3
27	Thaumium	150	2	6.5	1.5	Thaumic	1.18	50	1.8	1.75	4.75
13	Copper	135	1	1	1		1.1	110	2.7	2	4.9
28	Blood Infused Wood	123	0	4.5	0.5		1.25	50	0.62	0.75	3.2
3	Flint	113	0	4	1		0.5	100	1.33	4.5	1
55	Redstone Alloy	96	2	3	1		1.5	90	4.5	1	1.5
64	Rubracium	96	0	1	0.5		0.5	90	9.8	0.5	0.5
68	Amber	96	2	4	1		1.5	90	9.8	1	1.5
69	Anglmallen	96	2	10	1		1.5	90	9.8	1	1.5
72	Carmot	96	0	16	0.5		0.5	90	9.8	0.5	0.5
85	Force	96	4	10	1.5		2.5	90	9.8	1.5	2.5
89	Hepatizon	96	2	12	1		1.5	90	9.8	1	1.5
138	Polysiloxane	96	0	3	0.5		0.5	90	1.7	0.5	0.5
157	Sterling Silver	96	2	13	1		1.5	90	9.8	1	1.5
158	Rose Gold	96	2	14	1		1.5	90	16.9	1	1.5
169	Red Garnet	96	2	7	1		1.5	90	2.3	1	1.5
170	Yellow Garnet	96	2	7	1		1.5	90	2.3	1	1.5
171	Vinteum	96	4	10	1.5		2.5	90	15.6	1.5	2.5
191	Trinium	96	9	128	4		7.5	90	9.8	4	7.5
7	Netherrack	92	0	4.56	0.5	Stonebound I	1.2	130	1.5	4	1
4	Cactus	83	0	5	1.5	Jagged I	1	100	0.76	1	3.4
19	Unstable	75	5	7	1	Mathematical!	0.6	0	2.4	5.45	5.45
21	Queen's Gold	75	4	5	1		1	?	?	?	?
24	Magical Wood	73	0	1.5	0	Modifiable	1	50	0.69	0.9	3
121	Brass	72	0	7	0.5		0.5	90	6.3	0.5	0.5
144	Tin Alloy	72	2	6.5	1		1.5	90	8.7	1	1.5
6	Obsidian	67	5	6.5	1	Reinforced III	0.8	100	2.4	5.45	1
31	Beryllium	48	2	14	1		1.5	90	0.9	1	1.5
32	Bismuth	48	0	6	0.5		0.5	90	20.8	0.5	0.5
33	Carbon	48	2	1.5	1		1.5	90	0.08	0.85	4.8
35	Gold	48	2	12	1		1.5	90	19.6	1.5	1.5
37	Lead	48	0	8	0.5		0.5	90	20.7	0.5	0.5
42	Nickel	48	2	6	1		1.5	90	5.8	1	1.5
45	Platinum	48	2	12	1		1.5	90	19.5	1	1.5
48	Silver	48	2	10	1		1.5	90	10.7	1	1.5
70	Atlarus	48	2	6	1		1.5	90	9.8	1	1.5
91	Infuscolium	48	2	6	1		1.5	90	9.8	1	1.5
92	Infused Gold	48	4	12	1.5		2.5	90	9.8	1.5	2.5
93	Aer	48	4	8	1.5		2.5	90	9.8	1.5	2.5
94	Ignis	48	4	8	1.5		2.5	90	9.8	1.5	2.5
96	Aqua	48	4	8	1.5		2.5	90	9.8	1.5	2.5
97	Perditio	48	5	32	2		3.5	90	9.8	2	3.5
98	Ordo	48	4	8	1.5		2.5	90	9.8	1.5	2.5
114	Vulcanite	48	2	6	1		1.5	90	9.8	1	1.5
122	Cupronickel	48	0	6	0.5		0.5	90	6	0.5	0.5
125	Electrum	48	2	12	1		1.5	90	15.1	1	1.5
131	Kanthal	48	2	6	1		1.5	90	4.4	1	1.5
133	Nichrome	48	2	6	1		1.5	90	5.6	1	1.5
136	Polyethylene	48	0	3	0.5		0.5	90	0.4	0.25	2.8
139	Polycaprolactam	48	0	3	0.5		0.5	90	0.5	0.5	0.5
140	Polytetrafluoroethylene	48	0	3	0.5		0.5	90	1.6	0.5	0.5
167	Astral Silver	48	2	10	1		1.5	90	18.5	1	1.5
172	Black Granite	48	4	4	1.5		2.5	90	2	1.5	2.5
173	Red Granite	48	4	4	1.5		2.5	90	2	1.5	2.5
1	Wood	38	0	1.5	0.5		1	50	0.69	0.9	3
74	Certus Quartz	24	0	5	0.5		0.5	90	9.8	0.5	0.5
86	Graphite	24	2	5	1		1.5	90	9.8	1	1.5
87	Graphene	24	0	6	0.5		0.5	90	9.8	0.5	0.5
108	Nether Quartz	24	0	1	0.5		0.5	90	9.8	0.5	0.5
137	Epoxid	24	0	3	0.5		0.5	90	0.6	0.5	0.5
175	Realgar	24	0	1	0.5		0.5	90	5.3	0.5	0.5
9	Paper	16	0	1	0.5	Writable	0.3	1000	0.69	0.5	1.1
60	Blaze	12	0	2	0.5		0.5	90	7.8	0.5	0.5
100	Jade	0	2	1	1		1.5	90	9.8	1	1.5
101	Jasper	0	2	1	1		1.5	90	9.8	1	1.5
118	Sunnarium	0	0	1	0.5		0.5	90	9.8	0.5	0.5
174	Chrysotile	0	2	1	1		1.5	90	1.5	1	1.5

How Durability Works

Tier I Tools

The tool head is the only thing that affects mining speed	The tool head is the base durability	The tool binding only affects traits	The handles modifier is multiplied with the heads base durability

Tier II Tools

The tool head and plate(s) average is divided by 2.5 gives the mining speed	The tool head and plate(s) average is the base durability	The handles and bindings modifiers is averaged then multiplied with the base durability then multiplied by 6 (Hammer is multiplied by 9)

Tier I Weapons

The tool head is the only thing that affects damage	The tool head is the base durability	The tool binding only affects traits and weapon type	The handles modifier is multiplied with the heads base durability

Tier II Weapons

The tool head is the only thing that affects damage	The tool head and plate(s) average is the base durability

parts add their material

The tool head is the repair material

	Damage	Modifier
Battlesign	0.5	
Rapier	0.5	0.8
Dagger	0.5	
Arrows	1	0.5
Hatchet	1.5	
Scythe	1.5	
Hammer	1.5	
Broadsword	2	
Longsword	2	1.5 Charging
Cutlass	2	
Battleaxe	2	
Cleaver	4	1.4

Traits		
Blue Slimy	A chance to spawn a blue slime	SlimeParts/(MaxParts*100)
Cosmic	?	?
Green Slimy	A chance to spawn a green slime	SlimeParts/(MaxParts*100)
Jagged	ver the durability the more dama	((Total Damage/72)+1)*-2*-Leve
Mathematical!	only with unstable ingots will be	If all unstable X Reinforced
Modifiable	Adds an extra modifier	r If tool is only Magical Wood +8
Reinforced	Reduces damage taken by 10%	rcedlvl*10/100 Chance for no da
Serrated		
Stonebound	ower the durability the faster the	((Total Damage/72)+1)*-2*Leve
Supermassive	?	?
Tasty	TODO	TODO
Thaumic	Adds an extra modifier	
Unbreakable	Unbreakable…	X Reinforced
Writeable	Adds an extra modifier	

Insta-Breaking	Haste	Efficiency	Breaking Speed		"
Mining Speed * (De)Buffs => Hardeness*30	(Hastelvl*20)% Mining Fatigue :70% II:91% III:99.7%	(Efficiencylvl)2 +1 +Mining Speed	Hardness*30/(Mining Speed * (De)Buffs)=x	(x-1)*5= Ticks	Ticks<=0 Insta-Break

Modifiers			Tier I	Tier II
Haste	Increases Speed	Every lvl increases mining speed by 3+lvl (Hammer is multiplied by 0.6)	Total speed is = Mining Speed + (lvl+3)*(lvl+4)/2 - 6	Total speed is = Mining Speed + (2*lvl + (lvl*(lvl+1))/2*0.4
Sharpness	Increases Damage	Every lvl increases damage by 3 except lvl 1(4) (Cleaver is 4 every lvl except 1 (6))	Total damage is = Attack Damage + 3*lvl + 1	Total damage is = Attack Damage + 4*lvl + 2

Math	Tools with single head	Broadsword	Rapier	Cutlass	Mattock	Shortbow	Hammer	Excavator	Scythe	Cleaver, Battle Axe,Lumber Axe	Longbow	Crossbow	Arrows	Shuriken	Throwing Knife	Javelin	Bolts
Weight													Weight Handle+Head				Weight
								99/16		90/16	18/16 Damage = Avg. of Limbs	15/8	1/10	1/4	9/20	29/320	Handle*1.5+Head
Durability	Head*HandleMod	Head*HandleMod*1.2	Head*HandleMod*0.7	Head*HandleMod*1.5	HeadsAvg.*HandleMod*1.5	sAvg.*BowstringMod	adsAvg.*HandleMod	HeadsAvg.*HandleMod*6.1875	ead*HandleModAvg.*	eadsAvg.*HandlesModAvg.*5.62	HeadsAvg.*(HandlesMod+1)*1.125	HeadsAvg.*HandlesMod	Head*0.1	Head*0.25	Head*0.45	Head*0.090625	Head*HandleMod)/10
Speed	Head				Axe Head	Drawspeed*0.9 Arrowspeed	HeadsAvg./2.5	HeadsAvg./2.5	Head	Head	Drawspeed*1.8 Arrowspeed*1.5 Limbs are Heads Plate is Handle	Drawspeed*1.875 Arrowspeed*1.5 Binding only effects trait Body only effects durability with it's modifier					

No	Material Name	Durability	Mining Level	Mining Speed	Damage	Trait	Durability Modifier	Break Chance	Weight	Draw Speed	Arrow Speed

Limb effects base durability and

Same as above? Obselete?

	Durability	Damage	Speed
Pickaxe	Head*Handle Modifier	Head + 1	
Shovel	Head*Handle Modifier	Head + 2	
Hatchet	Head*Handle Modifier	Head + 3	
Broadswor	Head*Handle Modifier*1.2	Head + 4	
Longsworc	Head*Handle Modifier	4 (Multiply with 1.5 while Ch	
Rapier	Head*Handle Modifier*0.7	(Head + 1)*0.8	
Dagger	Head*Handle Modifier	Head + 1	
Cutlass	Head*Handle Modifier*1.5	Head + 4	
Frying Pan	Head*Handle Modifier	Head + 2	
Battle Sign	Head*Handle Modifier	Head + 1	
Mattock	Head*Handle Modifier*1.5	Head + 3	
Chisel	Head*Handle Modifier	Head	
Lumber Ax	Head Average*Handle Modifier*5.625	Head + 1	
Cleaver	Head Average*Handle Modifier Average*5.625	(Head + 5)*1.4	
Scythe	Head*Handle Modifier Average*9		
Excavator	Head Average*Handle Modifier*6.1875		
Hammer	Head Average*Handle Modifier*9		
Battleaxe	Head Average*Handle Modifier*5.625		
Shuriken	Head Average*0.25		
Throwing K	Head*Handle Modifier*0.1		
Javelin	Head*Handle Modifier Average*0.02		
Shortbow	Head Average*Handle Modifier*1.5	Left Limb is Main H	
Longbow	Limb Average*(Plate Modifier + String Modifier)*1.125	Left Limb is Main H	
Crossbow	Limb*Body Modifier		
Arrows	Arrow Head*Handle Modifier*Fletching Modifier*0.1		
Bolts	Bolt Tip*Handle Modifier*Fletching Modifier*0.1		

Stick	Sugarcane	Bone	Blaze Rod	Shaft Break Chance	Head Break Chance
1	1.5	0.95	1.2		
15%	66%	2%	8%		

WIP

Link to New Large Turbine Calculator

<--- Newer calculator that is accurate
Does not include all turbines, also not always accurate anymore --->

Link to Old Large Turbine Calculator

		Efficiency				Durability				Optimal Flow [mb/t]				Optimal Flow [mb/s]				Nominal Output [EU/t] (Steam)		
Tier	Material	Large	Small	Normal	Huge	Large	Small	Normal	Huge	Large	Small	Norma	Huge	Large	Small	Normal	Huge	Large	Small	Normal
17	Infinity	270.00%	220.00%	245.00%	250.00%	786432000	262144000	524288000	1048576000	38400	12800	25600	51200	768000	256000	512000	1024000	19200	6400	12800
12	Cosmic Neutronium	220.00%	170.00%	195.00%	200.00%	49152000	16384000	32768000	65536000	14400	4800	9600	19200	288000	96000	192000	384000	7200	2400	4800
10	Infinity Catalyst	200.00%	150.00%	175.00%	180.00%	393216000	131072000	262144000	524288000	9600	3200	6400	12800	192000	64000	128000	256000	4800	1600	3200
9	Awakened Draconium	190.00%	140.00%	165.00%	170.00%	19660800	6553600	13107200	26214400	6000	2000	4000	8000	120000	40000	80000	160000	3000	1000	2000
8	Black Plutonium	180.00%	130.00%	155.00%	160.00%	2457600	819200	1638400	3276800	5400	1800	3600	7200	108000	36000	72000	144000	2700	900	1800
8	Adamantium	180.00%	130.00%	155.00%	160.00%	2457600	819200	1638400	3276800	2250	750	1500	3000	45000	15000	30000	60000	1125	375	750
8	Trinium	180.00%	130.00%	155.00%	160.00%	15360000	5120000	10240000	20480000	19200	6400	12800	25600	384000	128000	256000	512000	9600	3200	6400
7	Ichorium	170.00%	120.00%	145.00%	150.00%	255000000	85000000	170000000	340000000	4800	1600	3200	6400	96000	32000	64000	128000	2400	800	1600
7	Draconium	170.00%	120.00%	145.00%	150.00%	9830400	3276800	6553600	13107200	3000	1000	2000	4000	60000	20000	40000	80000	1500	500	1000
7	Stellar Alloy	170.00%	120.00%	145.00%	150.00%	3072000	1024000	2048000	4096000	14400	4800	9600	19200	288000	96000	192000	384000	7200	2400	4800
6	Neutronium	160.00%	110.00%	135.00%	140.00%	196608000	65536000	131072000	262144000	3600	1200	2400	4800	72000	24000	48000	96000	1800	600	1200
6	Tritanium	160.00%	110.00%	135.00%	140.00%	3072000	1024000	2048000	4096000	3000	1000	2000	4000	60000	20000	40000	80000	1500	500	1000
5	Oriharukon	150.00%	100.00%	125.00%	130.00%	3072000	1024000	2048000	4096000	4800	1600	3200	6400	96000	32000	64000	128000	2400	800	1600
5	Enhanced Galgadorian	150.00%	100.00%	125.00%	130.00%	2160000	720000	1440000	2880000	4800	1600	3200	6400	96000	32000	64000	128000	2400	800	1600
5	Duranium	150.00%	100.00%	125.00%	130.00%	1536000	512000	1024000	2048000	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
5	Naquadah Alloy	150.00%	100.00%	125.00%	130.00%	1536000	512000	1024000	2048000	1200	400	800	1600	24000	8000	16000	32000	600	200	400
5	Manyullyn	150.00%	100.00%	125.00%	130.00%	614400	204800	409600	819200	3750	1250	2500	5000	75000	25000	50000	100000	1875	625	1250
5	Melodic Alloy	150.00%	100.00%	125.00%	130.00%	307200	102400	204800	409600	3600	1200	2400	4800	72000	24000	48000	96000	1800	600	1200
4	Shadow	140.00%	90.00%	115.00%	120.00%	2457600	819200	1638400	3276800	4800	1600	3200	6400	96000	32000	64000	128000	2400	800	1600
4	HSS-E	140.00%	90.00%	115.00%	120.00%	1536000	512000	1024000	2048000	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
4	Vibrant Alloy	140.00%	90.00%	115.00%	120.00%	1214400	404800	809600	1619200	2700	900	1800	3600	54000	18000	36000	72000	1350	450	900
4	HSS-S	140.00%	90.00%	115.00%	120.00%	900000	300000	600000	1200000	2100	700	1400	2800	42000	14000	28000	56000	1050	350	700
4	Tungstensteel	140.00%	90.00%	115.00%	120.00%	768000	256000	512000	1024000	1200	400	800	1600	24000	8000	16000	32000	600	200	400
4	Quantium	140.00%	90.00%	115.00%	120.00%	614400	204800	409600	819200	2700	900	1800	3600	54000	18000	36000	72000	1350	450	900
4	Ultimet	140.00%	90.00%	115.00%	120.00%	614400	204800	409600	819200	1350	450	900	1800	27000	9000	18000	36000	675	225	450
4	End Steel	140.00%	90.00%	115.00%	120.00%	600000	200000	400000	800000	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
4	Desh	140.00%	90.00%	115.00%	120.00%	384000	128000	256000	512000	3000	1000	2000	4000	60000	20000	40000	80000	1500	500	1000
4	Osmium	140.00%	90.00%	115.00%	120.00%	384000	128000	256000	512000	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
4	Tungstencarbide	140.00%	90.00%	115.00%	120.00%	384000	128000	256000	512000	2100	700	1400	2800	42000	14000	28000	56000	1050	350	700
4	Naquadah	140.00%	90.00%	115.00%	120.00%	384000	128000	256000	512000	900	300	600	1200	18000	6000	12000	24000	450	150	300
4	Enriched Naquadah	140.00%	90.00%	115.00%	120.00%	384000	128000	256000	512000	900	300	600	1200	18000	6000	12000	24000	450	150	300
4	Ardite	140.00%	90.00%	115.00%	120.00%	307200	102400	204800	409600	2700	900	1800	3600	54000	18000	36000	72000	1350	450	900
4	Endium	140.00%	90.00%	115.00%	120.00%	307200	102400	204800	409600	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
4	Ledox	140.00%	90.00%	115.00%	120.00%	307200	102400	204800	409600	2250	750	1500	3000	45000	15000	30000	60000	1125	375	750
4	Callisto Ice	140.00%	90.00%	115.00%	120.00%	307200	102400	204800	409600	1350	450	900	1800	27000	9000	18000	36000	675	225	450
4	Blue Steel	140.00%	90.00%	115.00%	120.00%	307200	102400	204800	409600	1125	375	750	1500	22500	7500	15000	30000	562.5	187.5	375
4	Red Steel	140.00%	90.00%	115.00%	120.00%	268800	89600	179200	358400	1050	350	700	1400	21000	7000	14000	28000	525	175	350
4	Crystalline Alloy	140.00%	90.00%	115.00%	120.00%	230400	76800	153600	307200	2700	900	1800	3600	54000	18000	36000	72000	1350	450	900
4	Enderium Base	140.00%	90.00%	115.00%	120.00%	230400	76800	153600	307200	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
4	Vivid Alloy	140.00%	90.00%	115.00%	120.00%	230400	76800	153600	307200	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
4	Shadowsteel	140.00%	90.00%	115.00%	120.00%	230400	76800	153600	307200	900	300	600	1200	18000	6000	12000	24000	450	150	300
4	Meteoric Steel	140.00%	90.00%	115.00%	120.00%	230400	76800	153600	307200	900	300	600	1200	18000	6000	12000	24000	450	150	300
4	Void	140.00%	90.00%	115.00%	120.00%	153600	51200	102400	204800	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
4	Mytryl	140.00%	90.00%	115.00%	120.00%	153600	51200	102400	204800	1200	400	800	1600	24000	8000	16000	32000	600	200	400
4	Naquadria	140.00%	90.00%	115.00%	120.00%	153600	51200	102400	204800	150	50	100	200	3000	1000	2000	4000	75	25	50
4	Stainless Steel	140.00%	90.00%	115.00%	120.00%	144000	48000	96000	192000	1050	350	700	1400	21000	7000	14000	28000	525	175	350
4	Reinforced	140.00%	90.00%	115.00%	120.00%	144000	48000	96000	192000	1050	350	700	1400	21000	7000	14000	28000	525	175	350
3	HSS-G	130.00%	80.00%	105.00%	110.00%	1200000	400000	800000	1600000	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
3	Galgodarian	130.00%	80.00%	105.00%	110.00%	1080000	360000	720000	1440000	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
3	Orichalcum	130.00%	80.00%	105.00%	110.00%	1036800	345600	691200	1382400	675	225	450	900	13500	4500	9000	18000	337.5	112.5	225
3	Haderoth	130.00%	80.00%	105.00%	110.00%	960000	320000	640000	1280000	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
3	Tungsten	130.00%	80.00%	105.00%	110.00%	768000	256000	512000	1024000	1050	350	700	1400	21000	7000	14000	28000	525	175	350
3	Iridium	130.00%	80.00%	105.00%	110.00%	768000	256000	512000	1024000	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Eximite	130.00%	80.00%	105.00%	110.00%	768000	256000	512000	1024000	750	250	500	1000	15000	5000	10000	20000	375	125	250
3	Inolashite	130.00%	80.00%	105.00%	110.00%	619200	206400	412800	825600	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Oureclase	130.00%	80.00%	105.00%	110.00%	576000	192000	384000	768000	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Vanadium Steel	130.00%	80.00%	105.00%	110.00%	576000	192000	384000	768000	450	150	300	600	9000	3000	6000	12000	225	75	150
3	Titanium	130.00%	80.00%	105.00%	110.00%	480000	160000	320000	640000	1050	350	700	1400	21000	7000	14000	28000	525	175	350
3	Osmiridium	130.00%	80.00%	105.00%	110.00%	480000	160000	320000	640000	1050	350	700	1400	21000	7000	14000	28000	525	175	350
3	Enderium	130.00%	80.00%	105.00%	110.00%	450000	150000	300000	600000	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Damascus Steel	130.00%	80.00%	105.00%	110.00%	384000	128000	256000	512000	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Energetic Alloy	130.00%	80.00%	105.00%	110.00%	307200	102400	204800	409600	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
3	Knightmetal	130.00%	80.00%	105.00%	110.00%	307200	102400	204800	409600	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Vyroxeres	130.00%	80.00%	105.00%	110.00%	230400	76800	153600	307200	1350	450	900	1800	27000	9000	18000	36000	675	225	450
3	Steeleaf	130.00%	80.00%	105.00%	110.00%	230400	76800	153600	307200	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Black Steel	130.00%	80.00%	105.00%	110.00%	230400	76800	153600	307200	975	325	650	1300	19500	6500	13000	26000	487.5	162.5	325
3	Fluxed Electrum	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
3	Duralumin	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
3	Dark Steel	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Cobalt	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Uranium 238	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Uranium 235	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Plutonium 241	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Plutonium 244	130.00%	80.00%	105.00%	110.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	HSLA Steel	130.00%	80.00%	105.00%	110.00%	150000	50000	100000	200000	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Dark Iron	130.00%	80.00%	105.00%	110.00%	115200	38400	76800	153600	1050	350	700	1400	21000	7000	14000	28000	525	175	350
3	Shadowiron	130.00%	80.00%	105.00%	110.00%	115200	38400	76800	153600	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Meteoric Iron	130.00%	80.00%	105.00%	110.00%	115200	38400	76800	153600	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Thaumium	130.00%	80.00%	105.00%	110.00%	76800	25600	51200	102400	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
3	Chrome	130.00%	80.00%	105.00%	110.00%	76800	25600	51200	102400	1650	550	1100	2200	33000	11000	22000	44000	825	275	550
3	Fiery Steel	130.00%	80.00%	105.00%	110.00%	76800	25600	51200	102400	1200	400	800	1600	24000	8000	16000	32000	600	200	400
3	Conductive Iron	130.00%	80.00%	105.00%	110.00%	76800	25600	51200	102400	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Pulsating Iron	130.00%	80.00%	105.00%	110.00%	76800	25600	51200	102400	900	300	600	1200	18000	6000	12000	24000	450	150	300
3	Force	130.00%	80.00%	105.00%	110.00%	38400	12800	25600	51200	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
3	Vinteum	130.00%	80.00%	105.00%	110.00%	38400	12800	25600	51200	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
3	Mithril	130.00%	80.00%	105.00%	110.00%	19200	6400	12800	25600	2100	700	1400	2800	42000	14000	28000	56000	1050	350	700
3	Infused Gold	130.00%	80.00%	105.00%	110.00%	19200	6400	12800	25600	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
2	Celenegil	120.00%	70.00%	95.00%	100.00%	1228800	409600	819200	1638400	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
2	Ceruclase	120.00%	70.00%	95.00%	100.00%	384000	128000	256000	512000	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Palladium	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	1200	400	800	1600	24000	8000	16000	32000	600	200	400
2	Manganese	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	1050	350	700	1400	21000	7000	14000	28000	525	175	350
2	Molybdenum	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	1050	350	700	1400	21000	7000	14000	28000	525	175	350
2	Neodymium	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	1050	350	700	1400	21000	7000	14000	28000	525	175	350
2	Magnetic Neodymium	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	1050	350	700	1400	21000	7000	14000	28000	525	175	350
2	Steel	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Thorium	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Electrical Steel	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Magnetic Steel	120.00%	70.00%	95.00%	100.00%	153600	51200	102400	204800	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Blood Infused Iron	120.00%	70.00%	95.00%	100.00%	115200	38400	76800	153600	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
2	Wrought Iron	120.00%	70.00%	95.00%	100.00%	115200	38400	76800	153600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Pig Iron	120.00%	70.00%	95.00%	100.00%	115200	38400	76800	153600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Deep Iron	120.00%	70.00%	95.00%	100.00%	115200	38400	76800	153600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Alduorite	120.00%	70.00%	95.00%	100.00%	115200	38400	76800	153600	450	150	300	600	9000	3000	6000	12000	225	75	150
2	Cobalt Brass	120.00%	70.00%	95.00%	100.00%	78600	26200	52400	104800	1200	400	800	1600	24000	8000	16000	32000	600	200	400
2	Black Bronze	120.00%	70.00%	95.00%	100.00%	76800	25600	51200	102400	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
2	Bismuth Bronze	120.00%	70.00%	95.00%	100.00%	76800	25600	51200	102400	1200	400	800	1600	24000	8000	16000	32000	600	200	400
2	Soularium	120.00%	70.00%	95.00%	100.00%	76800	25600	51200	102400	1200	400	800	1600	24000	8000	16000	32000	600	200	400
2	Invar	120.00%	70.00%	95.00%	100.00%	76800	25600	51200	102400	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Iron	120.00%	70.00%	95.00%	100.00%	76800	25600	51200	102400	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Magnetic Iron	120.00%	70.00%	95.00%	100.00%	76800	25600	51200	102400	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Magnalium	120.00%	70.00%	95.00%	100.00%	76800	25600	51200	102400	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Bronze	120.00%	70.00%	95.00%	100.00%	57600	19200	38400	76800	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Rose Gold	120.00%	70.00%	95.00%	100.00%	38400	12800	25600	51200	2100	700	1400	2800	42000	14000	28000	56000	1050	350	700
2	Sterling Silver	120.00%	70.00%	95.00%	100.00%	38400	12800	25600	51200	1950	650	1300	2600	39000	13000	26000	52000	975	325	650
2	Hepatizon	120.00%	70.00%	95.00%	100.00%	38400	12800	25600	51200	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
2	Aluminium	120.00%	70.00%	95.00%	100.00%	38400	12800	25600	51200	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
2	Angmallen	120.00%	70.00%	95.00%	100.00%	38400	12800	25600	51200	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
2	Redstone Alloy	120.00%	70.00%	95.00%	100.00%	38400	12800	25600	51200	450	150	300	600	9000	3000	6000	12000	225	75	150
2	Tin Alloy	120.00%	70.00%	95.00%	100.00%	28800	9600	19200	38400	975	325	650	1300	19500	6500	13000	26000	487.5	162.5	325
2	Beryllium	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	2100	700	1400	2800	42000	14000	28000	56000	1050	350	700
2	Gold	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
2	Platinum	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
2	Electrum	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	1800	600	1200	2400	36000	12000	24000	48000	900	300	600
2	Astral Silver	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
2	Silver	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	1500	500	1000	2000	30000	10000	20000	40000	750	250	500
2	Nichrome	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Vulcanite	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Infuscolium	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Atlarus	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Kanthal	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Nickel	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
2	Carbon	120.00%	70.00%	95.00%	100.00%	19200	6400	12800	25600	150	50	100	200	3000	1000	2000	4000	75	25	50
2	Chrysotile	120.00%	70.00%	95.00%	100.00%	0	0	0	0	150	50	100	200	3000	1000	2000	4000	75	25	50
2	Jade	120.00%	70.00%	95.00%	100.00%	0	0	0	0	150	50	100	200	3000	1000	2000	4000	75	25	50
1	Prometheum	110.00%	60.00%	85.00%	90.00%	153600	51200	102400	204800	1200	400	800	1600	24000	8000	16000	32000	600	200	400
1	Carmot	110.00%	60.00%	85.00%	90.00%	38400	12800	25600	51200	2400	800	1600	3200	48000	16000	32000	64000	1200	400	800
1	Rubracium	110.00%	60.00%	85.00%	90.00%	38400	12800	25600	51200	150	50	100	200	3000	1000	2000	4000	75	25	50
1	Brass	110.00%	60.00%	85.00%	90.00%	28800	9600	19200	38400	1050	350	700	1400	21000	7000	14000	28000	525	175	350
1	Lead	110.00%	60.00%	85.00%	90.00%	19200	6400	12800	25600	1200	400	800	1600	24000	8000	16000	32000	600	200	400
1	Cupronickel	110.00%	60.00%	85.00%	90.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
1	Bismuth	110.00%	60.00%	85.00%	90.00%	19200	6400	12800	25600	900	300	600	1200	18000	6000	12000	24000	450	150	300
1	Graphene	110.00%	60.00%	85.00%	90.00%	9600	3200	6400	12800	900	300	600	1200	18000	6000	12000	24000	450	150	300
1	Polycaprolactam	110.00%	60.00%	85.00%	90.00%	9600	3200	6400	12800	450	150	300	600	9000	3000	6000	12000	225	75	150
1	Polytetrafluoroethylene	110.00%	60.00%	85.00%	90.00%	9600	3200	6400	12800	450	150	300	600	9000	3000	6000	12000	225	75	150
1	Epoxid	110.00%	60.00%	85.00%	90.00%	9600	3200	6400	12800	450	150	300	600	9000	3000	6000	12000	225	75	150
1	Realgar	110.00%	60.00%	85.00%	90.00%	9600	3200	6400	12800	150	50	100	200	3000	1000	2000	4000	75	25	50
1	Blaze	110.00%	60.00%	85.00%	90.00%	4800	1600	3200	6400	300	100	200	400	6000	2000	4000	8000	150	50	100
1	Sunnarium	110.00%	60.00%	85.00%	90.00%	0	0	0	0	150	50	100	200	3000	1000	2000	4000	75	25	50

Zeros in LGT are because < 1 fluid/t and rounding down
Currently causes LGT to not work

Red = Not Craftable

Also not craftable
Ironwood
Mysterious Crystal
Magnetic Samarium
Clay Compound
Crystalline Pink Slime
Energetic Silver
Polybenzimidazole
Fiber-Reinforced Epoxy Resin
Nickel-Zinc
Polyphenylene
Flerovium

	ID	Crop Name	Discovered By	Tier	Max Size	Growth Speed	Growth Speed	Mar Harvest Size	Harvest Size	Stat Chemical	Stat Food	Stat Defensive	Stat Color	Stat Weed	Attributes	Attributes	Attributes	Attributes	Attributes	Attributes	Attributes	Block	Drops	Special Drops	Special Drops	Special Drops	Special Drops
	0	Weed		0	5	300		0	1	0	0	1	0	5	Weed	Bad											
	1	Wheat	Notch	1	7	300		2	7	0	4	0	0	2	Yellow	Food	Wheat						Wheat				
	2	Pumpkin	Notch	1	4	200		3	4	0	1	0	3	1	Orange	Decoration	Stem						Pumpkin				
	3	Melon	Chao	2	4	250		3	4	0	4	0	2	0	Green	Food	Stem						Melon	Melon (Block)			
	4	Dandelion	Notch	2	4	400		3	4	1	1	0	5	1	Yellow	Flower							Dandelion Yellow				
	5	Rose	Notch	2	4	400		3	4	1	1	0	5	1	Red	Flower	Rose						Rose Red				
	6	Black Flower	Abbaka	2	4	400		3	4	1	1	0	5	1	Black	Flower	Rose						Ink Sack				
	7	Purple Flower	Abbaka	2	4	400		3	4	1	1	0	5	1	Purple	Flower	Tulip						Purple Dye				
	8	Blue Flower	Abbaka	2	4	400		3	4	1	1	0	5	1	Blue	Flower							Lapis Lazuli				
	9	Vervomilla	raGan	3	6	400		3	5	3	1	3	3	3	Purple	Flower	Tulip	Poison					Purple Dye	Grin Powder			
	10	Reed	Notch	2	3	200		1	3	0	0	1	0	2	Reed								Sugar Canes				
	11	Stick Reed	rae1337	4	4	100		4	1	2	0	1	0	1	Reed	Resin							Sugar Canes	Sticky Resin			
	12	Cocao	Notch	3	4	400		3	4	1	3	0	4	0	Brown	Food	Stem						Cocoa Beans				
	13	Ferru		6	4	800		2	4	2	0	0	1	0	Gray	Leaves	Metal					Iron	ny Pile of Iron Dust				
	14	Aurelia		6	5	750		2	5	2	0	0	2	0	Gold	Leaves	Metal					Gold	ny Pile of Gold Dust				
	15	Redwheat	rae1337	6	7	600		2	7	3	0	0	2	0	Red	Redstone	Wheat						Wheat	Redstone			
	16	Nether Wart	Notch	5	3	300		1	3	4	2	0	2	1	Red	Nether	Ingredient	Soulsand				Soulsand (Snow)	therwart (Soulsan	Terrawart (Snow)			
	17	Terra Wart		5	3	300		1	3	2	4	0	3	0	Blue	Aether	Consumable	Snow				Snow (Soulsand)	Terrawart (Snow)	Netherwart (Soulsand)			
	18	Coffee	Snoochy	7	5	?		3	5	1	4	1	2	0	Leaves	Ingredient	Beans						Coffee Beans				
	19	Hops		5	7	600		3	7	2	2	0	1	1	Green	Ingredient	Wheat						Hops				
	20	Carrots	Notch	2	3	600		1	3	0	4	0	0	2	Orange	Food	Carrots						Carrots				
	21	Potato	Notch	2	4	600		1	3	0	4	0	0	2	Yellow	Food	Potato						Potato	Potsonous Potato			
	22	Red Mushroom	Notch	2	3	200		1	3	0	4	0	0	4	Red	Food	Mushroom						Red Mushroom				
	23	Brown Mushroom	Notch	2	3	200		1	3	0	4	0	0	4	Brown	Food	Mushroom						Brown Mushroom				
	24	Eating Plant	Hasudako	6	6	?		1	4	1	1	3	1	4	Bad	Food						?	Cactus				
	25	Cyprum		6	4	800		2	4	2	0	0	1	0	Orange	Leaves	Metal					Copper	r Pile of Copper Dust				
	26	Stagnum		6	4	800		2	4	2	0	0	1	0	Shiny	Leaves	Metal					Tin	ny Pile of Tin Dust				
	27	Plumbacus		6	4	800		2	4	2	0	0	1	0	Dense	Leaves	Metal					Lead	ny Pile of Lead Dust				
	28	Shining		8	5	750		2	5	2	0	0	2	0	Silver	Leaves	Metal					Silver	y Pile of Silver Dust				
	124	Indigo	Elorasm	2	4	600		1	4	1	1	0	4	0	Flower	Blue	Ingredient						Indigo				
	125	Flax	Elorasm	2	4	600		1	4	1	1	2	0	1	Silk	Tendrilly	Addictive						String				
	126	Cilberries	Spacelead	9	4	2700		1	4	6	1	2	1	12	Fire	Dark	Reed	Rotten	Coal	Oil			Oil Berry				
	127	Bobsyeruncbarsnks	GenerikB	11	4	3300		1	4	4	0	8	2	9	Shiny	Tendrilly	Emerald	Beryllum	Crystal			Emerald	ibs-Yer-Uncle-Ber	Emerald			
	128	Diamed	Dmeed20	12	4	3600		1	4	5	0	10	2	10	Fire	Shiny	Reed	Coal	Diamond	Crystal		Diamond	ny Dust of Diamor	Diamond			
	129	Witherreed	CoverUaguar	8	4	2400		1	4	2	0	4	1	3	Fire	Undead	Reed	Coal	Rotten	Wither		Coal	Coal Dust	Coal	Coal		
	130	Blazereed	Mr. Brain	6	4	1800		1	4	0	4	1	0	0	Fire	Blaze	Reed	Sulfur					Blaze Powder	Blaze Rod			
	131	Eggplant	Link	6	3	900		2	3	0	4	1	0	0	Chicken	Egg	Food	Feather					Egg	Chicken	Feather	Feather	Feather
	132	Corium	igorius Technetic	6	4	1800		1	4	0	2	3	1	0	Cow	Silk	Tendrilly						Leather				
	133	Corpseplant	Mr. Kenny	5	4	1500		1	4	0	2	1	0	3	Toxic	Undead	Tendrilly	Food	Rotten				Rotten Flesh	Bonemeal	Bonemeal	Bone	
	134	Creeperweed	General Spaz	7	4	2100		1	4	3	0	5	1	3	Creeper	Tendrilly	Explosive	Fire	Sulfur	Saltpeter	Coal		Gunpowder				
	135	Enderbloom	RichardG	10	4	3000		1	4	5	0	2	1	6	Ender	Flower	Shiny						Enderpearl Dust	Ender Pearl	Ender Pearl	Eye of Ender	
	136	Meatrose	VintageBeef	7	4	1500		1	4	0	4	1	3	0	Food	Flower	Cow	Fish	Chicken	Pig			Pink Dye	Beef	Porkchop	Chicken	Fish
	137	Milkwart	Mr. Brain	6	3	900		1	3	0	3	0	1	0	Food	Milk	Cow						Milk Wart				
	138	Slimeplant	Neowulf	6	4	1800		3	4	3	0	0	0	2	Slime	Bouncy	Sticky	Bush					Slime Ball				
	139	Spidermp	Mr. Kenny	4	4	600		1	4	2	1	4	1	3	Toxic	Silk	Spider	Flower	Ingredient	Addictive			String	Spider Eye	Cobweb		
	140	Tearstalks	Neowulf	8	4	2400		1	4	1	2	0	0	0	Healing	Nether	Ingredient	Reed	Ghast				Ghast Tear				
	141	Tine	igorius Technetic	5	3	1500		2	3	2	0	3	0	0	Chicken	Egg	Food	Feather	Tin	Bush		Tin	Tine				
	142	Coppon	Mr. Brain	6	3	1800		2	3	2	0	1	1	1	Shiny	Metal	Cotton	Copper	Bush			Copper	Coppon				
	143	Brown Mushrooms	Mr. Brain	1	3	300		1	3	0	2	0	0	2	Food	Mushroom	Ingredient						Brown Mushroom				
	144	Red Mushrooms	Mr. Kenny	1	3	300		1	3	0	1	3	0	2	Toxic	Mushroom	Ingredient						Red Mushroom				
	145	Argentia	Elorasm	7	4	2100		3	4	2	0	3	1	0	Shiny	Metal	Silver	Reed				Silver	Argentia				
	146	Plumbilia	KingLemming	6	4	1800		3	4	2	0	3	1	1	Heavy	Metal	Lead	Reed				Lead	Plumbilia				
	147	Steeleafranks	Benimatic	10	4	3000		1	4	3	0	7	2	8	Metal	Tendrilly	Iron						Steeleaf Dust	Steeleaf			
	148	Livercots	Benimatic	8	4	2400		1	4	2	0	5	2	6	Wood	Tendrilly							Livercot Dust	Livercot			
	149	Trollplant	unknown	6	5	1000		1	4	0	0	5	2	8	Troll	Bad	Scrap						Fools Ruby	Plant Ball	Scrap	Plutonium 241	
	150	Lazulia	unknown	7	4	2100		2	4	4	2	5	7	4	Shiny	Bad	Crystal	Lapis				Lapis	ry Pile of Lapis Dust				
	151	Gloweat	unknown	10	7	3000		5	7	3	3	3	5	4	Light	Shiny	Crystal						Tiny Pile of Glowstone				
	153	Fertilia	unknown	3	4	900		1	4	2	3	5	4	8	Growth	Healing	Flower						Tiny Pile of Calcite D	Fertilizer	Tiny Pile of Apatite	Phosphate	
	154	Bausia	unknown	6	3	1800		2	3	5	0	2	3	3	Metal	Aluminium	Reed	Aluminium				Aluminium	Bausia Leaf				
	155	Titania	unknown	9	3	2700		2	3	5	0	3	3	1	Metal	Heavy	Reed	Titanium				Titanium	Titania Leaf				
	156	Reactoria	unknown	12	4	3600		2	4	4	0	1	2	1	Radioactive	Metal	Danger	Uranium				Uranium	Reactoria Leaf	Uranium Leaf			
	157	God of Thunder	unknown	9	4	2700		2	4	3	0	5	1	2	Radioactive	Metal	Coal	Thorium				Thorium	vat! Pile of Coal D	Coal	Thunder Leaf		
	158	Transformium	unknown	12	4	2500		1	4	6	2	1	6	1	Transform	Coal	Reed						UUA Berry	UUA Berry	UUA Berry	UUA Berry	UUA Berry	UUM Berry
	159	Starwart	unknown	12	4	4000		1	4	2	0	0	1	0	Wither	Nether	Undead	Netherstar					Netherstar	vat! Pile of Coal D	Coal	Skeleton Skull	ither Skeleton Skull	ther Skeleton Skull
	160	Zomplant	unknown	3	4	900		1	4	1	3	4	2	6	Zombie	Rotten	Undead						Rotten Flesh				
	161	Nickelback	unknown	5	3	1500		2	3	3	0	1	2	3	Metal	Fire	Alloy						Nickelback Leaf				
	162	Galvania	unknown	6	3	1800		2	3	0	2	2	3	3	Metal	Alloy	Bush						Galvania Leaf				
	163	Evil Ore	unknown	8	4	2400		3	4	4	0	2	1	3	Crystal	Fire	Nether						Tiny Pile of Nether Quart	Nether Quartz	le of Certus Quartz Dust			
	164	Olivia	unknown	2	4	600		3	4	1	0	1	4	0	Crystal	Shiny	Processing	Olivine				Olivine	y Pile of Olivine D	Olivine			
	165	Sapphirum	unknown	4	4	1200		3	4	1	0	1	5	0	Crystal	Shiny	Metal	Sapphire				Sapphire	Pile of Sapphire I	Sapphire			
	166	Pyrolusium	unknown	12	3	3600		2	3	1	0	1	1	0	Metal	Clean	Bush	Manganese				Manganese	Pyrolusium Leaf				
	167	Scheelinium	unknown	12	3	3600		2	3	3	0	1	1	0	Metal	Hard	Bush	Tungsten				Tungsten	Scheelinium Leaf				
	168	Platina	unknown	11	4	3300		1	4	3	0	0	3	0	Metal	Shiny	Reed	Platinum				Platinum	Platina Leaf				
	169	Quantaria	unknown	12	4	1000		1	4	4	0	0	1	0	Metal	Iridium	Reed					Iridium	antaria Leaf (IridiuQuantaria Leaf (Osmium)				
	170	Stargallium	unknown	12	4	1500		1	4	4	0	0	2	0	Metal	Heavy	Alien	Naquadah				Naquadah	Pile of Endstone I	Stargallium Leaf			
	171	Lemon	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Tree	Sour						Lemon				
	172	Chilly	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Red	Spicy						Chilly				
	173	Tomato	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Red							Tomato	Max Tomato			
	174	Grape	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Purple							Grapes				
	175	Onion	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Brown							Onion				
	176	Cucumber	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Green							Cucumber				
	177	Tea	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Green	Ingredient						Tea Leaf				
	178	Rape	unknown	4	4	1200		1	4	1	1	0	2	0	Food	Yellow	Oil						Rape				
	200	Berry	bartimaeusnek	2	3	700 [1]	200 [2]	2	3	0	4	0	4	0	Berry	Food	Red	Ingredient					Berry				
	201	Eyebulb	bartimaeusnek	2	3	225		1	3	0	0	0	4	0	Nether	Evil	Bad						Eyebulb				
	202	Flowering Vines	bartimaeusnek	3	4	225		1	4	0	0	0	4	0	Green	Tendrilly	Flower						Vines [3]	Flowering Vines [4]			
	203	Glowflower [5]	bartimaeusnek	3	3	225		1	3	0	0	0	4	0	Nether	Light	Shiny					Glowstone (Boost)	Glowflower	Glowflower (2x)			
	204	Glowing Earth Coral [6]	bartimaeusnek	5	3	225		1	3	0	0	0	4	0	Water	Light	Shiny					Glowstone (Boost)	Glowing Coral	Glowing Coral (2x)			
	205	Ivy	bartimaeusnek	2	3	225		1	3	0	0	0	4	0	Green	Tendrilly	Flower	Bad	Poison				Ivy				
	206	Turnip	bartimaeusnek	2	3	225		1	3	0	4	0	0	2	Food	Purple	Carrots						Turnip				
	207	Wild Carrots	bartimaeusnek	2	3	225		1	3	0	4	0	0	2	Food	White	Carrots						Wild Carrots				
	208	Ardite Berry [7]	bartimaeusnek	7	4	500 [6]	3000 [9]	2	4	3	0	4	1	0	OreBerry	Ardite	Metal	Orange				Ardite	Ardite Nugget				
	209	Cobalt Berry [10]	bartimaeusnek	7	4	500 [11]	3000 [12]	2	4	3	0	4	1	0	OreBerry	Cobalt	Metal	Blue				Cobalt	Cobalt Nugget				
	210	Aluminium Berry [13]	bartimaeusnek	5	4	500 [14]	3000 (1500) [15]	2	4	3	0	4	1	0	OreBerry	Aluminium	Metal	Aluminum				Aluminium [16]	Aluminium Berry	Aluminium Berry (3x) [17]			
	211	Copper Berry [18]	bartimaeusnek	5	4	500 [19]	3000 (1500) [20]	2	4	3	0	4	1	0	OreBerry	Copper	Metal	Shiny				Copper [21]	Copper Berry	Copper Berry (3x) [22]			
	212	Essence Berry	bartimaeusnek	5	4	500 [23]	3000 (1500) [24]	2	4	3	0	4	1	0	OreBerry	Essence	Undead					Head/Skull [25]	Essence Berry	Essence Berry (3x) [26]			
	213	Gold Berry [27]	bartimaeusnek	5	4	500 [28]	3000 (1500) [29]	2	4	3	0	4	1	0	OreBerry	Gold	Metal					Gold [30]	Gold Berry	Gold Berry (3x) [31]			
	214	Iron Berry [32]	bartimaeusnek	5	4	500 [33]	3000 (1500) [34]	2	4	3	0	4	1	0	OreBerry	Gray	Metal					Iron [35]	Iron Berry	Iron Berry (3x) [36]			
	215	Tin Berry [37]	bartimaeusnek	5	4	500 [38]	3000 (1500) [39]	2	4	3	0	4	1	0	OreBerry	Tin	Metal	Shiny				Tin [40]	Tin Berry	Tin Berry (3x) [41]			
	216	Basic Mana Bean Crop	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL				
	217	Cinderpearl	asunnek and milci	5	3	250 [42]	2250 (1750) [43]	1	3	2	0	0	2	0	Magic	Blaze	Nether					Blaze	Cinderpearl				
	218	Magic Metal Berry [44]	bartimaeusnek	7	4	500 (1200) [45]	1800 (3300) [46]	2	4	3	0	4	1	0	OreBerry	Magic	Metal	Thaumium	Void			Iron/Thaumium (Void) [47]	Thaumium Nugget	Void Nugget			
	219	Primordial Berry	asnek and FoxThe	16	4	125000 [48]		1	4	0	0	0	12	0	Berry	Primordial	Magic	Unique					Primordial Pearls				
	220	Shimmerleaf	asnek and Dreamk	5	3	2250 [49]	1750 [50]	1	3	3	0	0	2	0	Magic	Silver	Toxic					Quick Silver [51]	Shimmerleaf				
	221	Knightly Berry	bartimaeusnek	8	4	1000 (4500) [52]	3000 [53]	2	4	3	0	4	1	0	OreBerry	Knightly	Metal					Knightmetal (Boost) [54]	Armor Shard [55]				
	222	Moss	bartimaeusnek	4	3	225		1	3	0	0	0	4	0	Green	Climbable							Tree Moss [56]	Moss [57]	Moss Patch [58]		
	223	Barley [59]	bartimaeusnek	2	4	225		1	4	0	4	0	0	2	Green	Food	Wheat						Barley				
	224	Cotton [60]	bartimaeusnek	3	5	225		1	5	4	4	0	0	2	White	Cotton							Cotton				
	225	Saguaro Cactus	bartimaeusnek	4	3	225 [61]	450 [62]	1	2-3	0	0	0	4	0	Green	Food	Cactus						Saguaro [63]				
	226	Blackberry	bartimaeusnek	2	3	700 (200) [64]		2	3	0	4	0	4	0	Berry	Food	Black						Blackberry				
	227	Blueberry	bartimaeusnek	2	3	700 (200) [65]		2	3	0	4	0	4	0	Berry	Food	Blue						Blueberry				
	228	Mulberry	bartimaeusnek	2	3	700 (200) [66]		2	3	0	4	0	4	0	Berry	Food	Yellow						Mulberry				
	229	Raspberry	bartimaeusnek	2	3	700 (200) [67]		2	3	0	4	0	4	0	Berry	Food	Red						Raspberry				
	230	Blightberry	bartimaeusnek	4	3	700 (300) [68]		2	3	1	3	4	4	0	Berry	Toxic	Bad	Green	Nether	Addictive			Blightberry				
	231	Duskberry	bartimaeusnek	4	3	700 (300) [69]		2	3	1	3	4	4	0	Berry	Toxic	Bad	Gray	Nether	Addictive			Duskberry				
	232	Skyberry	bartimaeusnek	4	3	700 (300) [70]		2	3	1	3	4	4	0	Berry	Toxic	Bad	Blue	Nether	Addictive			Skyberry				
	233	Stingberry	bartimaeusnek	4	3	700 (300) [71]		2	3	1	3	4	4	0	Berry	Toxic	Bad	Green	Nether	Addictive			Stingberry				
	234	Purple Glowshroom	bartimaeusnek	3	2	600 (250) [72]		1	2	1	3	0	4	0	Food	Mushroom	Ingredient	Nether					Purple Glowshroom				
	235	Blue Glowshroom	bartimaeusnek	3	2	600 (250) [73]		1	2	1	3	0	4	0	Food	Mushroom	Ingredient	Nether					Blue Glowshroom				
	236	Green Glowshroom	bartimaeusnek	3	2	600 (250) [74]		1	2	1	3	0	4	0	Food	Mushroom	Ingredient	Nether					Green Glowshroom				
	237	Glowshroom	bartimaeusnek	3	2	600 (250) [75]		1	2	1	3	0	4	0	Food	Mushroom	Ingredient	Nether					Glowshroom				
	238	Thornvines [76]	bartimaeusnek	3	3	225		1	3	0	0	0	4	0	Nether	Climbable	Bad						Thornvines				
	239	Belladonna	bartimaeusnek	4	3	550		1	3	0	0	0	4	0	Purple	Flower	Toxic	Ingredient					Belladonna				
	240	Ember Moss	bartimaeusnek	7	3	550		1	3	0	0	0	4	0	Fire	Ingredient	Bad	Climbable					Ember Moss				
	241	Garlic	bartimaeusnek	6	3	225		1	3	0	0	0	4	0	Food	Ingredient	Healing						Garlic				
	242	Glint Weed	bartimaeusnek	4	3	550		1	3	0	0	0	4	0	Orange	Flower	Magic						Glint Weed				
	243	Mandragora	bartimaeusnek	4	3	550		1	3	0	0	0	4	0	Flower	Magic	Bad	Toxic	Ingredient				Mandrake				
	244	Snowball	bartimaeusnek	4	3	550		1	3	0	0	0	4	0	White	Flower	Ice	Toxic	Ingredient				Snowball				
	245	Spanish Moss	bartimaeusnek	7	3	550		1	3	0	0	0	4	0	Green	Climbable	Magic						Spanish Moss				
	246	Water Artichoke	bartimaeusnek	4	3	550		1	3	0	0	0	4	0	Flower	Water	Blue	Ingredient					Water Artichoke				
	247	Wolf's Bane	bartimaeusnek	4	3	550		1	3	0	0	0	4	0	Flower	Toxic	Purple	Ingredient					Wolf's Bane				
	248	Cactus [77]	bartimaeusnek	3	3	225		1	2-3	0	0	0	4	0	Green	Cactus							Tiny Cactus [78]	Cactus [79]			
	249	Goldfish Plant [80]	bartimaeusnek	4	3	225		1	3	0	0	0	4	0	Nether	Fish	Food	Bad	Water				Gold Fish				
	250	Grass [81]	bartimaeusnek	0	4	225		-1 [82]	1	0	0	0	3	4	Green	Bad							Double Tall Grass [8	Large Fern [84]	Dead Bush [85]		
	251	Huckleberry	bartimaeusnek	2	3	700 (200) [86]		2	3	0	0	0	4	0	Berry	Food	Purple	Leaves					Huckleberry				
	252	Magical Nightshade [87]	bartimaeusnek	13	4	7812.5		1	4	0	0	0	12	0	Berry	Primordial	Magic	Unique				Ichorium	Magic Essence				
	253	Papyrus	bartimaeusnek	5	3	225		1	3	0	0	0	4	0	White	Paper							Paper				
	254	Space Plant	bartimaeusnek	13	4	5000		1	4	8	0	0	4	0	Alien	Space	Radiation	Transform				Moon Block	Space Flower				
	255	Red Stonelilly	bartimaeusnek	1	3	300		1	3	0	0	0	4	0	Stone	Fire						Red Granite/Granite	ed Granite Dust [8	Granite [89]			
	256	Black Stonelilly	bartimaeusnek	1	3	300		1	3	0	0	0	4	0	Stone	Dark						Black Granite/Basalt	ck Granite Dust [	Basalt Dust [91]			
	257	White Stonelilly	bartimaeusnek	1	3	300		1	3	0	0	0	4	0	Stone	Shiny						Marble/Diorite	Marble Dust [92]	Diorite [93]			
	258	Gray Stonelilly	bartimaeusnek	1	3	300		1	3	0	0	0	4	0	Stone	Metal						Cobblestone/Stone/Andesite	Stone Dust [94]	Andesite [95]			
	259	Yellow Stonelilly	bartimaeusnek	1	3	300 (550) [96]		1	3	0	0	0	4	0	Stone	Alien						Endstone/Sand/Sandstone	nderstone Dust [9	Sand [98]			
	260	Nether Stonelilly	bartimaeusnek	1	3	300		1	3	0	0	0	4	0	Stone	Evil						Netherrack/Nether Brick	Netherrack Dust				
	261	Strawberry	bartimaeusnek	2	3	700 (200) [99]		2	3	0	4	0	4	0	Berry	Food	Red						Strawberry				
	262	Sugar Beet [100]	bartimaeusnek	4	3	225		1	3	0	0	4	0	0	Food	White	Ingredient						Sugar Beet				
	263	Vines	jeb_	2	3	225		1	3	0	0	0	4	0	Green	Tendrilly							Vines				
			bartimaeusnek																								
	264		bartimaeusnek																								
	265		bartimaeusnek																								

ID	Name	Temperature	Rainfall	Spawn Chance	Root Height	Height Variation	Types						Class	Humidity Bonus							
114	Tropics	1.2	1	0.1	0.2	0.3	WET	JUNGLE	LUSH	OCEAN	RIVER	BEACH	biomesoplenty.common.biome.overworld.sub.BiomeGenTropics	52	10	10	7	10	9	6	0
65	Fungi Forest	0.9	1	0.1	0.1	0.2	WET	LUSH	MUSHROOI	MAGICAL	FOREST	SWAMP	biomesoplenty.common.biome.overworld.BiomeGenFungiForest	47	10	7	8	6	6	10	0
44	Bayou	0.8	0.9	0.1	-0.1	0.1	WET	LUSH	OCEAN	RIVER	SWAMP		biomesoplenty.common.biome.overworld.BiomeGenBayou	46	10	7	10	9	10	0	0
79	Lush Swamp	0.7	1	0.1	0	0.1	WET	LUSH	OCEAN	RIVER	SWAMP		biomesoplenty.common.biome.overworld.BiomeGenLushSwamp	46	10	7	10	9	10	0	0
80	Mangrove	0.8	0.9	0.1	0	0.2	WET	LUSH	OCEAN	RIVER	FOREST		biomesoplenty.common.biome.overworld.sub.BiomeGenMangrove	42	10	7	10	9	6	0	0
103	Shield	0.5	0.8	0.1	0	0.2	WET	CONIFEROU	OCEAN	RIVER	FOREST		biomesoplenty.common.biome.overworld.BiomeGenShield	42	10	7	10	9	6	0	0
82	Marsh	0.5	0.9	0.1	0.1	0.05	SPARSE	WET	LUSH	OCEAN	RIVER	SWAMP	biomesoplenty.common.biome.overworld.BiomeGenMarsh	41	-5	10	7	10	9	10	0
97	Rainforest	1	1	0.1	0.2	0.9	DENSE	WET	JUNGLE	LUSH	FOREST	HILLS	biomesoplenty.common.biome.overworld.BiomeGenRainforest	37	0	10	10	7	6	4	0
99	Sacred Springs	0.5	0.5	0.1	0	0.6	DENSE	WET	LUSH	MAGICAL	FOREST	MOUNTAIN	biomesoplenty.common.biome.overworld.BiomeGenSacredSprings	34	0	10	7	6	6	5	0
111	Temperate Rainf	0.8	1.2	0.1	0	0.3	WET	CONIFEROUS	LUSH	FOREST	HILLS		biomesoplenty.common.biome.overworld.BiomeGenTemperateRainforest	34	10	7	7	6	4	0	0
120	Wetland	0.6	0.9	0.1	-0.1	0.2	DENSE	WET	LUSH	FOREST	SWAMP		biomesoplenty.common.biome.overworld.BiomeGenWetland	33	0	10	7	6	10	0	0
223	rwg_oceanOasis	0.9	0.9	0.1	0.1	0.2	HOT	WET	JUNGLE	OCEAN	BEACH		rwg.biomes.base.BaseBiomeOcean	31	-5	10	10	10	6	0	0
237	rwg_oceanWet	0.9	0.9	0.1	0.1	0.2	HOT	WET	JUNGLE	OCEAN	BEACH		rwg.biomes.base.BaseBiomeOcean	31	-5	10	10	10	6	0	0
87	Mystic Grove	0.7	1	0.1	0.1	0.2	WET	LUSH	MAGICAL	FOREST			biomesoplenty.common.biome.overworld.BiomeGenMysticGrove	29	10	7	6	6	0	0	0
73	Kelp Forest	0.5	0.9	0.1	-1.2	0.1	OCEAN	RIVER	FOREST				biomesoplenty.common.biome.overworld.ocean.BiomeGenKelpForest	25	10	9	6	0	0	0	0
89	Ominous Woods	0.5	0.9	0.1	0.1	0.2	SPOOKY	DEAD	MAGICAL	FOREST	SWAMP		biomesoplenty.common.biome.overworld.BiomeGenOminousWoods	24	7	-5	6	6	10	0	0
209	rwg_riverWet	0.9	0.9	0.1	0.1	0.2	HOT	WET	JUNGLE	RIVER			rwg.biomes.base.BaseBiomeRiver	24	-5	10	10	9	0	0	0
211	rwg_riverOasis	0.9	0.9	0.1	0.1	0.2	HOT	WET	JUNGLE	RIVER			rwg.biomes.base.BaseBiomeRiver	24	-5	10	10	9	0	0	0
214	rwg_oceanCold	0.5	0.4	0.1	0.1	0.2	COLD	CONIFEROUS	OCEAN	FOREST	BEACH		rwg.biomes.base.BaseBiomeOcean	24	-5	7	10	6	6	0	0
43	Bamboo Forest	1.2	0.9	0.1	0.1	0.3	DENSE	JUNGLE	LUSH	FOREST			biomesoplenty.common.biome.overworld.BiomeGenBambooForest	23	0	10	7	6	0	0	0
106	Sludgepit	0.8	0.9	0.1	0	0.1	WET	SPOOKY	DEAD	FOREST	SWAMP	WASTELAND	biomesoplenty.common.biome.overworld.BiomeGenSludgepit	23	10	7	-5	6	10	-5	0
113	Tropical Rainfore	1.2	1	0.1	0.2	0.3	HOT	DENSE	WET	JUNGLE	LUSH		biomesoplenty.common.biome.overworld.BiomeGenTropicalRainforest	22	-5	0	10	10	7	0	0
23	JungleEdge	0.95	0.8	0.1	0.1	0.2	HOT	WET	JUNGLE	FOREST			biomesoplenty.common.biome.overridden.BiomeGenBOPJungle	21	-5	10	10	6	0	0	0
45	Bog	0.5	0.9	0.1	0.1	0.2	WET	DEAD	FOREST	SWAMP			biomesoplenty.common.biome.overworld.BiomeGenBog	21	10	-5	6	10	0	0	0
62	Fen	0.4	0.4	0.1	0.1	0.1	WET	DEAD	FOREST	SWAMP			biomesoplenty.common.biome.overworld.BiomeGenFen	21	10	-5	6	10	0	0	0
6	Swampland	0.8	0.9	0.1	-0.2	0.1	WET	SWAMP					biomesoplenty.common.biome.overridden.BiomeGenBOPSwamp	20	10	10	0	0	0	0	0
47	Boreal Forest	0.5	0.6	0.1	0.2	0.4	DENSE	CONIFEROUS	LUSH	FOREST			biomesoplenty.common.biome.overworld.BiomeGenBorealForest	20	0	7	7	6	0	0	0
75	Land of Lakes Ma	0.5	0.9	0.1	-0.1	0.05	WET	SWAMP					biomesoplenty.common.biome.overworld.sub.BiomeGenLandOfLakesMarsh	20	10	10	0	0	0	0	0
109	Spruce Woods	0.7	0.8	0.1	0.1	0.2	DENSE	CONIFEROUS	LUSH	FOREST			biomesoplenty.common.biome.overworld.sub.BiomeGenSpruceWoods	20	0	7	7	6	0	0	0
134	Swampland M	0.8	0.9	0.1	-0.1	0.3	WET	SWAMP					net.minecraft.world.biome.BiomeGenMutated	20	10	10	0	0	0	0	0
185	Twilight Swamp	0.8	0.9	0.12	-0.125	0.125	WET	SWAMP					twilightforest.biomes.TFBiomeSwamp	20	10	10	0	0	0	0	0
22	JungleHills	0.95	0.9	0.1	0.45	0.3	HOT	DENSE	WET	JUNGLE	HILLS		biomesoplenty.common.biome.overridden.BiomeGenBOPJungle	19	-5	0	10	10	4	0	0
52	Cherry Blossom (	0.6	0.8	0.1	0.1	0.2	LUSH	MAGICAL	FOREST				biomesoplenty.common.biome.overworld.BiomeGenCherryBlossomGrove	19	7	6	6	0	0	0	0
54	Coral Reef	0.5	0.9	0.1	-0.6	0.1	OCEAN	RIVER					biomesoplenty.common.biome.overworld.ocean.BiomeGenCoralReef	19	10	9	0	0	0	0	0
85	Moor	0.5	1	0.1	1.5	0.025	SPARSE	WET	HILLS	SWAMP			biomesoplenty.common.biome.overworld.BiomeGenMoor	19	-5	10	4	10	0	0	0
126	Ocean Oil Field	0.5	0.5	0.1	-1	0.1	OCEAN	RIVER					buildcraft.energy.worldgen.BiomeGenOilOcean	19	10	9	0	0	0	0	0
172	Dark Forest Cent	0.7	0.8	0.12	0.125	0.05	DENSE	SPOOKY	MAGICAL	FOREST			twilightforest.biomes.TFBiomeDarkForestCenter	19	0	7	6	6	0	0	0
105	Silkglades	0.5	0.9	0.1	0.1	0.2	SPOOKY	DEAD	FOREST	SWAMP			biomesoplenty.common.biome.overworld.sub.BiomeGenSilkglades	18	7	-5	6	10	0	0	0
177	Twilight Highlanc	0.4	0.7	0.12	3.5	0.05	CONIFEROUS	FOREST	MOUNTAIN				twilightforest.biomes.TFBiomeHighlands	18	7	6	5	0	0	0	0
53	Coniferous Fores	0.5	0.5	0.1	0.1	0.3	DENSE	CONIFEROU	FOREST	HILLS			biomesoplenty.common.biome.overworld.BiomeGenConiferousForest	17	0	7	6	4	0	0	0
96	Quagmire	0.8	0.9	0.1	0	0.1	WET	SPOOKY	DEAD	SWAMP	WASTELAND		biomesoplenty.common.biome.overworld.sub.BiomeGenQuagmire	17	10	7	-5	10	-5	0	0
202	rwg_riverCold	0.5	0.4	0.1	0.1	0.2	COLD	CONIFEROUS	RIVER	FOREST			rwg.biomes.base.BaseBiomeRiver	17	-5	7	9	6	0	0	0
216	rwg_oceanTemp(	0.8	0.6	0.1	0.1	0.2	COLD	OCEAN	FOREST	BEACH			rwg.biomes.base.BaseBiomeOcean	17	-5	10	6	6	0	0	0
68	Grassland	0.6	0.7	0.1	0.1	0.2	SPARSE	LUSH	PLAINS	HILLS	SWAMP		biomesoplenty.common.biome.overworld.BiomeGenGrassland	16	-5	7	0	4	10	0	0
21	Jungle	0.95	0.9	0.1	0.1	0.2	HOT	DENSE	WET	JUNGLE			biomesoplenty.common.biome.overridden.BiomeGenBOPJungle	15	-5	0	10	10	0	0	0
232	rwg_tropical	0.8	0.8	0.1	0.1	0.2	HOT	WET	JUNGLE				rwg.biomes.base.BaseBiomeTropicalIsland	15	-5	10	10	0	0	0	0
234	rwg_jungle	0.9	0.9	0.1	0.1	0.2	HOT	WET	JUNGLE				rwg.biomes.base.BaseBiomeJungle	15	-5	10	10	0	0	0	0
15	MushroomIsland	0.9	1	0.1	0	0.025	MUSHROOM	BEACH					biomesoplenty.common.biome.overridden.BiomeGenBOPMushroomIsland	14	8	6	0	0	0	0	0
173	Deep Mushroom	0.8	1	0.12	0.125	0.05	MUSHROOM	FOREST					twilightforest.biomes.TFBiomeDeepMushrooms	14	8	6	0	0	0	0	0
181	Mushroom Fores	0.8	0.8	0.12	0.1	0.2	MUSHROOM	FOREST					twilightforest.biomes.TFBiomeMushrooms	14	8	6	0	0	0	0	0
29	Roofed Forest	0.7	0.8	0.1	0.1	0.2	DENSE	SPOOKY	FOREST				biomesoplenty.common.biome.overridden.BiomeGenBOPRoofedForest	13	0	7	6	0	0	0	0
66	Garden	0.7	0.8	0.1	0.1	0.1	LUSH	MAGICAL	PLAINS				biomesoplenty.common.biome.overworld.BiomeGenGarden	13	7	6	0	0	0	0	0
69	Grove	0.7	0.8	0.1	0.1	0.2	DENSE	LUSH	FOREST	PLAINS			biomesoplenty.common.biome.overworld.BiomeGenGrove	13	0	7	6	0	0	0	0
83	Meadow Forest	0.7	0.7	0.1	0.1	0.2	LUSH	FOREST	PLAINS				biomesoplenty.common.biome.overworld.sub.BiomeGenMeadowForest	13	7	6	0	0	0	0	0
84	Meadow	0.7	0.7	0.1	0.1	0.2	LUSH	FOREST	PLAINS				biomesoplenty.common.biome.overworld.BiomeGenMeadow	13	7	6	0	0	0	0	0
98	Redwood Forest	0.7	0.7	0.1	0.1	0.05	DENSE	CONIFEROUS	FOREST				biomesoplenty.common.biome.overworld.BiomeGenRedwoodForest	13	0	7	6	0	0	0	0
102	Seasonal Forest	0.5	0.8	0.1	0.2	0.4	DENSE	LUSH	FOREST				biomesoplenty.common.biome.overworld.BiomeGenSeasonalForest	13	0	7	6	0	0	0	0
171	Dark Forest	0.7	0.8	0.12	0.125	0.05	DENSE	SPOOKY	FOREST				twilightforest.biomes.TFBiomeDarkForest	13	0	7	6	0	0	0	0
180	Firefly Forest	0.5	1	0.12	0.125	0.05	LUSH	FOREST					twilightforest.biomes.TFBiomeFireflyForest	13	7	6	0	0	0	0	0
190	Eerie	0.5	0.5	0.1	0.1	0.2	SPOOKY	MAGICAL					thaumcraft.common.lib.world.biomes.BiomeGenEerie	13	7	6	0	0	0	0	0
19	TaigaHills	0.25	0.8	0.1	0.45	0.3	COLD	CONIFEROU	FOREST	HILLS			biomesoplenty.common.biome.overridden.BiomeGenBOPTaiga	12	-5	7	6	4	0	0	0
33	Mega Taiga Hills	0.3	0.8	0.1	0.45	0.3	COLD	CONIFEROU	FOREST	HILLS			net.minecraft.world.biome.BiomeGenTaiga	12	-5	7	6	4	0	0	0
189	Enchanted Forest	0.5	0.5	0.12	0.1	0.2	MAGICAL	FOREST					twilightforest.biomes.TFBiomeEnchantedForest	12	6	6	0	0	0	0	0
192	Magical Forest	0.7	0.6	0.1	0.2	0.2	MAGICAL	FOREST					thaumcraft.common.lib.world.biomes.BiomeGenMagicalForest	12	6	6	0	0	0	0	0
227	rwg_coldForest	0.5	0.4	0.1	0.1	0.2	COLD	DENSE	CONIFEROU	FOREST	HILLS		rwg.biomes.base.BaseBiomeColdForest	12	-5	0	7	6	4	0	0
72	Jade Cliffs	0.8	0.9	0.1	0.5	1	DENSE	FOREST	MOUNTAIN				biomesoplenty.common.biome.overworld.BiomeGenJadeCliffs	11	0	6	5	0	0	0	0
0	Ocean	0.5	0.5	0.1	-1	0.1	OCEAN						biomesoplenty.common.biome.overridden.BiomeGenBOPOcean	10	10	0	0	0	0	0	0
18	ForestHills	0.7	0.8	0.1	0.45	0.3	FOREST	HILLS					biomesoplenty.common.biome.overridden.BiomeGenBOPForest	10	6	4	0	0	0	0	0
24	Deep Ocean	0.5	0.5	0.1	-1.8	0.1	OCEAN						net.minecraft.world.biome.BiomeGenOcean	10	10	0	0	0	0	0	0
28	Birch Forest Hills	0.6	0.6	0.1	0.45	0.3	FOREST	HILLS					biomesoplenty.common.biome.overridden.BiomeGenBOPBirchForest	10	6	4	0	0	0	0	0
74	Land of Lakes	0.5	0.9	0.1	0.1	0.2	WET	PLAINS					biomesoplenty.common.biome.overworld.BiomeGenLandOfLakes	10	10	0	0	0	0	0	0
132	Flower Forest	0.7	0.8	0.1	0.1	0.4	FOREST	HILLS					net.minecraft.world.biome.BiomeGenForest	10	6	4	0	0	0	0	0
179	Twilight Lake	0.66	1	0.12	-1.8	0.1	OCEAN						twilightforest.biomes.TFBiomeTwilightLake	10	10	0	0	0	0	0	0
205	rwg_riverTemper	0.8	0.6	0.1	0.1	0.2	COLD	RIVER	FOREST				rwg.biomes.base.BaseBiomeRiver	10	-5	9	6	0	0	0	0
3	Extreme Hills	0.2	0.3	0.1	1	0.5	MOUNTAIN	HILLS					biomesoplenty.common.biome.overridden.BiomeGenBOPExtremeHills	9	5	4	0	0	0	0	0
7	River	0.5	0.5	0.1	-0.5	0	RIVER						biomesoplenty.common.biome.overridden.BiomeGenBOPRiver	9	9	0	0	0	0	0	0
78	Lush River	0.7	0.8	0.1	-0.5	0	RIVER	PLAINS					biomesoplenty.common.biome.overworld.tech.BiomeGenLushRiver	9	9	0	0	0	0	0	0
149	Jungle M	0.95	0.9	0.1	0.2	0.4	HOT	WET	HILLS				net.minecraft.world.biome.BiomeGenMutated	9	-5	10	4	0	0	0	0
184	Twilight Stream	0.5	1	0.12	-0.5	0	RIVER						twilightforest.biomes.TFBiomeStream	9	9	0	0	0	0	0	0
5	Taiga	0.25	0.8	0.1	0.2	0.2	COLD	CONIFEROU	FOREST				biomesoplenty.common.biome.overridden.BiomeGenBOPTaiga	8	-5	7	6	0	0	0	0
14	MushroomIsland	0.9	1	0.1	0.2	0.3	MUSHROOM						biomesoplenty.common.biome.overridden.BiomeGenBOPMushroomIsland	8	8	0	0	0	0	0	0
32	Mega Taiga	0.3	0.8	0.1	0.2	0.2	COLD	CONIFEROU	FOREST				net.minecraft.world.biome.BiomeGenTaiga	8	-5	7	6	0	0	0	0
90	Orchard	0.7	0.7	0.1	0.1	0.1	SPARSE	LUSH	FOREST	PLAINS			biomesoplenty.common.biome.overworld.BiomeGenOrchard	8	-5	7	6	0	0	0	0
233	rwg_redwood	0.7	0.6	0.1	0.1	0.2	COLD	CONIFEROUS	FOREST				rwg.biomes.base.BaseBiomeRedwood	8	-5	7	6	0	0	0	0
31	Cold Taiga Hills	-0.5	0.4	0.1	0.45	0.3	COLD	CONIFEROUS	FOREST	HILLS	SNOWY		biomesoplenty.common.biome.overridden.BiomeGenBOPTaiga	7	-5	7	6	4	-5	0	0
58	Dead Swamp	0.7	0.9	0.1	0	0.1	SPARSE		SPOOKY	DEAD	SWAMP		biomesoplenty.common.biome.overworld.BiomeGenDeadSwamp	7	-5	0	7	-5	10	0	0
63	Flower Field	0.6	0.7	0.1	0.125	0.05	LUSH	PLAINS					biomesoplenty.common.biome.overworld.BiomeGenFlowerField	7	7	0	0	0	0	0	0
107	Snowy Coniferou	0	0.5	0.1	0.1	0.3	COLD	DENSE	CONIFEROU	FOREST	HILLS	SNOWY	biomesoplenty.common.biome.overworld.BiomeGenConiferousForestSnow	7	-5	0	7	6	4	-5	0
138	Undergarden	2	0	0.1	0.1	0.2	JUNGLE	SPOOKY	NETHER				biomesoplenty.common.biome.nether.BiomeGenUndergarden	7	10	7	-10	0	0	0	0
4	Forest	0.7	0.8	0.1	0.1	0.2	FOREST						biomesoplenty.common.biome.overridden.BiomeGenBOPForest	6	6	0	0	0	0	0	0
16	Beach	0.8	0.4	0.1	0	0.025	BEACH						net.minecraft.world.biome.BiomeGenBeach	6	6	0	0	0	0	0	0
25	Stone Beach	0.2	0.3	0.1	0.1	0.8	BEACH						net.minecraft.world.biome.BiomeGenStoneBeach	6	6	0	0	0	0	0	0
27	Birch Forest	0.6	0.6	0.1	0.1	0.2	FOREST						biomesoplenty.common.biome.overridden.BiomeGenBOPBirchForest	6	6	0	0	0	0	0	0
34	Extreme Hills+	0.2	0.3	0.1	1	0.5	SPARSE	FOREST	MOUNTAIN				net.minecraft.world.biome.BiomeGenHills	6	-5	6	5	0	0	0	0
160	Mega Spruce Taig	0.25	0.8	0.1	0.2	0.2	DENSE	FOREST					net.minecraft.world.biome.BiomeGenTaiga	6	0	6	0	0	0	0	0
161	Mega Spruce Taig	0.25	0.8	0.1	0.2	0.2	DENSE	FOREST					net.minecraft.world.biome.BiomeGenTaiga	6	0	6	0	0	0	0	0
187	Twilight Forest	0.5	0.5	0.12	0.1	0.2	FOREST						twilightforest.biomes.TFBiomeTwilightForest	6	6	0	0	0	0	0	0
188	Dense Twilight Fo	0.7	0.8	0.12	0.2	0.2	DENSE	FOREST					twilightforest.biomes.TFBiomeTwilightForestVariant	6	0	6	0	0	0	0	0
213	rwg_oceanIce	0	0.1	0.1	0.1	0.2	COLD	OCEAN	SNOWY	BEACH			rwg.biomes.base.BaseBiomeOcean	6	-5	10	-5	6	0	0	0
20	Extreme Hills Edg	0.2	0.3	0.1	0.8	0.3	MOUNTAIN						biomesoplenty.common.biome.overridden.BiomeGenBOPExtremeHills	5	5	0	0	0	0	0	0
61	Eucalyptus Fores	0.9	1	0.1	0	0.2	HOT	WET	PLAINS				biomesoplenty.common.biome.overworld.BiomeGenEucalyptusForest	5	-5	10	0	0	0	0	0
199	Toxic Everglades	0.5	0.7	0.1	-0.25	0.4	DENSE	DEAD	FOREST	HILLS			gtPlusPlus.everglades.biome.Biome_Everglades.BiomeGenEverglades	5	0	-5	6	4	0	0	0
235	rwg_oasis	0.9	0.9	0.1	0.1	0.2	HOT	WET	PLAINS				rwg.biomes.base.BaseBiomeRiver	5	-5	10	0	0	0	0	0
71	Highland	0.5	0.8	0.1	2.5	0.5	SPARSE	MOUNTAIN	HILLS				biomesoplenty.common.biome.overworld.BiomeGenHighland	4	-5	5	4	0	0	0	0
131	Extreme Hills M	0.2	0.3	0.1	1	0.5	HILLS						net.minecraft.world.biome.BiomeGenHills	4	4	0	0	0	0	0	0
133	Taiga M	0.25	0.8	0.1	0.3	0.4	HILLS						net.minecraft.world.biome.BiomeGenMutated	4	4	0	0	0	0	0	0
155	Birch Forest M	0.6	0.6	0.1	0.2	0.4	HILLS						null	4	4	0	0	0	0	0	0
156	Birch Forest Hills	0.6	0.6	0.1	0.55	0.5	HILLS						null	4	4	0	0	0	0	0	0
157	Roofed Forest M	0.7	0.8	0.1	0.2	0.4	HILLS						null	4	4	0	0	0	0	0	0
162	Extreme Hills+ M	0.2	0.3	0.1	1	0.5	HILLS						net.minecraft.world.biome.BiomeGenHills	4	4	0	0	0	0	0	0
30	Cold Taiga	-0.5	0.4	0.1	0.2	0.2	COLD	CONIFEROU	FOREST	SNOWY			biomesoplenty.common.biome.overridden.BiomeGenBOPTaiga	3	-5	7	6	-5	0	0	0
57	Dead Forest	0.4	0.3	0.1	0.1	0.3	SPARSE	SPOOKY	DEAD	FOREST			biomesoplenty.common.biome.overworld.BiomeGenDeadForest	3	-5	7	-5	6	0	0	0
191	Eldritch	0.5	0.5	0.1	0.1	0.2	SPOOKY	END	MAGICAL				thaumcraft.common.lib.world.biomes.BiomeGenEldritch	3	7	-10	6	0	0	0	0
196	Snowy Forest	0.125	0.9	0.12	0.2	0.2	COLD	CONIFEROUS	FOREST	SNOWY			twilightforest.biomes.TFBiomeSnow	3	-5	7	6	-5	0	0	0
76	Lavender Fields	0.6	0.7	0.1	0.125	0.05	SPARSE	LUSH	PLAINS				biomesoplenty.common.biome.overworld.BiomeGenLavenderFields	2	-5	7	0	0	0	0	0
40	Alps Forest	0	0.5	0.1	0.6	0.8	COLD	FOREST	MOUNTAII	SNOWY			biomesoplenty.common.biome.overworld.sub.BiomeGenAlpsForest	1	-5	6	5	-5	0	0	0
81	Maple Woods	0.2	0.8	0.1	0.1	0.3	COLD	FOREST					biomesoplenty.common.biome.overworld.BiomeGenMapleWoods	1	-5	6	0	0	0	0	0
86	Mountain	0.5	0.1	0.1	2.5	0.5	DRY	FOREST	MOUNTAIN				biomesoplenty.common.biome.overworld.BiomeGenMountain	1	-10	6	5	0	0	0	0
182	Oak Savanna	0.9	0	0.12	0.2	0.2	SPARSE	FOREST					twilightforest.biomes.TFBiomeOakSavanna	1	-5	6	0	0	0	0	0
193	Tainted Land	0.5	0.5	0.1	0.1	0.2	MAGICAL	WASTELAND					thaumcraft.common.lib.world.biomes.BiomeGenTaint	1	6	-5	0	0	0	0	0
1	Plains	0.8	0.4	0.1	0.125	0.05	PLAINS						biomesoplenty.common.biome.overridden.BiomeGenBOPPlains	0	0	0	0	0	0	0	0
10	FrozenOcean	0	0.5	0.1	-1	0.1	COLD	OCEAN	SNOWY				net.minecraft.world.biome.BiomeGenOcean	0	-5	10	-5	0	0	0	0
46	null	null	null	null										0	0	0	0	0	0	0	0
55	null	null	null	null										0	0	0	0	0	0	0	0
91	Origin Valley	0.7	0.8	0.1	0.1	0.3	PLAINS						biomesoplenty.common.biome.overworld.BiomeGenOriginValley	0	0	0	0	0	0	0	0
93	null	null	null	null										0	0	0	0	0	0	0	0
101	Seasonal Forest (	0.5	0.8	0.1	0.1	0.2	PLAINS						biomesoplenty.common.biome.overworld.sub.BiomeGenSeasonalForestClearing	0	0	0	0	0	0	0	0
116	null	null	null	null										0	0	0	0	0	0	0	0
123	Dense Forest	0.7	0.7	0.1	0.075	0.05	PLAINS						biomesoplenty.common.biome.overworld.BiomeGenDenseForest	0	0	0	0	0	0	0	0
124	null	null	null	null										0	0	0	0	0	0	0	0
125	null	null	null	null										0	0	0	0	0	0	0	0
129	Sunflower Plains	0.8	0.4	0.1	0.125	0.05	PLAINS						net.minecraft.world.biome.BiomeGenPlains	0	0	0	0	0	0	0	0
139	null	null	null	null										0	0	0	0	0	0	0	0
145	null	null	null	null										0	0	0	0	0	0	0	0
146	null	null	null	null										0	0	0	0	0	0	0	0
147	null	null	null	null										0	0	0	0	0	0	0	0
148	null	null	null	null										0	0	0	0	0	0	0	0
150	null	null	null	null										0	0	0	0	0	0	0	0
152	null	null	null	null										0	0	0	0	0	0	0	0
153	null	null	null	null										0	0	0	0	0	0	0	0
154	null	null	null	null										0	0	0	0	0	0	0	0
159	null	null	null	null										0	0	0	0	0	0	0	0
168	null	null	null	null										0	0	0	0	0	0	0	0
169	null	null	null	null										0	0	0	0	0	0	0	0
174	null	null	null	null										0	0	0	0	0	0	0	0
175	Fire Swamp	1	0.4	0.12	0.1	0.2	HOT	SWAMP	WASTELAND				twilightforest.biomes.TFBiomeFireSwamp	0	-5	10	-5	0	0	0	0
183	null	null	null	null										0	0	0	0	0	0	0	0
194	null	null	null	null										0	0	0	0	0	0	0	0

HOT	-5
COLD	-5
SPARSE	-5
WET	10
DRY	-10
SAVANA	-5
CONIFEROUS	7
JUNGLE	10
SPOOKY	7
DEAD	-5
LUSH	7
NETHER	-10
END	-10
MUSHROOM	8
MAGICAL	6
OCEAN	10
RIVER	9
WATER	10
MESA	-5
FOREST	6
PLAINS	0
MOUNTAIN	5
HILLS	4
SWAMP	10
SANDY	-5
SNOWY	-5
WASTELAND	-5
BEACH	6

ID	Name	Temperature	Rainfall	Spawn Chance	Root Height	Height Variation	Types						Class	Humidity Bonus							
195	null	null	null	null										0	0	0	0	0	0	0	0
197	null	null	null	null										0	0	0	0	0	0	0	0
198	null	null	null	null										0	0	0	0	0	0	0	0
201	null	null	null	null										0	0	0	0	0	0	0	0
203	null	null	null	null										0	0	0	0	0	0	0	0
204	null	null	null	null										0	0	0	0	0	0	0	0
206	null	null	null	null										0	0	0	0	0	0	0	0
208	null	null	null	null										0	0	0	0	0	0	0	0
210	null	null	null	null										0	0	0	0	0	0	0	0
212	null	null	null	null										0	0	0	0	0	0	0	0
215	null	null	null	null										0	0	0	0	0	0	0	0
217	null	null	null	null										0	0	0	0	0	0	0	0
219	null	null	null	null										0	0	0	0	0	0	0	0
220	null	null	null	null										0	0	0	0	0	0	0	0
221	null	null	null	null										0	0	0	0	0	0	0	0
222	null	null	null	null										0	0	0	0	0	0	0	0
231	rwg_plains	0.6	0.4	0.1	0.1	0.2	PLAINS						rwg.biomes.base.BaseBiomePlains	0	0	0	0	0	0	0	0
236	rwg_temperateF	0.8	0.6	0.1	0.1	0.2	PLAINS						rwg.biomes.base.BaseBiomeTemperateForest	0	0	0	0	0	0	0	0
11	FrozenRiver	0	0.5	0.1	-0.5	0	COLD	RIVER	SNOWY				net.minecraft.world.biome.BiomeGenRiver	-1	-5	9	-5	0	0	0	0
151	JungleEdge M	0.95	0.8	0.1	0.2	0.4	HOT	HILLS					net.minecraft.world.biome.BiomeGenMutated	-1	-5	4	0	0	0	0	0
200	rwg_riverIce	0	0.1	0.1	0.1	0.2	COLD	RIVER	SNOWY				rwg.biomes.base.BaseBiomeRiver	-1	-5	9	-5	0	0	0	0
88	Oasis	2	0.3	0.1	-0.2	0	HOT	DRY	JUNGLE	LUSH	SANDY		biomesoplenty.common.biome.overworld.sub.BiomeGenOasis	-3	-5	-10	10	7	-5	0	0
117	Visceral Heap	2	0	0.1	0.1	0.2	SPOOKY	NETHER					biomesoplenty.common.biome.nether.BiomeGenVisceralHeap	-3	7	-10	0	0	0	0	0
137	Phantasmagoric I	2	0	0.1	0.1	0.2	SPOOKY	NETHER					biomesoplenty.common.biome.nether.BiomeGenPhantasmagoricInferno	-3	7	-10	0	0	0	0	0
26	Cold Beach	0.05	0.3	0.1	0	0.025	COLD	SNOWY	BEACH				net.minecraft.world.biome.BiomeGenBeach	-4	-5	-5	6	0	0	0	0
59	Deciduous Forest	0.6	0.8	0.1	0.1	0.2	DENSE	DRY	FOREST				biomesoplenty.common.biome.overworld.BiomeGenDeciduousForest	-4	0	-10	6	0	0	0	0
121	Woodland	0.6	0.4	0.1	0.1	0.2	DENSE	DRY	FOREST				biomesoplenty.common.biome.overworld.BiomeGenWoodland	-4	0	-10	6	0	0	0	0
218	rwg_oceanHot	0.8	0.2	0.1	0.1	0.2	HOT	DRY	OCEAN	SANDY	BEACH		rwg.biomes.base.BaseBiomeOcean	-4	-5	-10	10	-5	6	0	0
13	Ice Mountains	0	0.5	0.1	0.45	0.3	COLD	MOUNTAIN	SNOWY				net.minecraft.world.biome.BiomeGenSnow	-5	-5	5	-5	0	0	0	0
41	Alps	0	0.5	0.1	8	0.025	COLD	MOUNTAIN	SNOWY				biomesoplenty.common.biome.overworld.BiomeGenAlps	-5	-5	5	-5	0	0	0	0
51	Chaparral	0.8	0.6	0.1	0.2	0.3	SPARSE	PLAINS					biomesoplenty.common.biome.overworld.BiomeGenChaparral	-5	-5	0	0	0	0	0	0
127	Desert Oil Field	2	0	0.1	0.1	0.2	SANDY						buildcraft.energy.worldgen.BiomeGenOilDesert	-5	-5	0	0	0	0	0	0
135	Storage Cell	-100	0.5	0.1	0.1	0.2	COLD	PLAINS					appeng.spatial.BiomeGenStorage	-5	-5	0	0	0	0	0	0
170	Twilight Clearing	0.8	0.4	0.12	0.125	0.05	SPARSE	PLAINS					twilightforest.biomes.TFBiomeClearing	-5	-5	0	0	0	0	0	0
140	Ice Plains Spikes	0	0.5	0.1	0.425	0.45	COLD	HILLS	SNOWY				net.minecraft.world.biome.BiomeGenSnow	-6	-5	4	-5	0	0	0	0
158	Cold Taiga M	-0.5	0.4	0.1	0.3	0.4	COLD	HILLS	SNOWY				net.minecraft.world.biome.BiomeGenMutated	-6	-5	4	-5	0	0	0	0
56	Crag	1	0	0.1	2	3	DRY	SPOOKY	DEAD	MOUNTAIN	WASTELAND		biomesoplenty.common.biome.overworld.BiomeGenCrag	-8	-10	7	-5	5	-5	0	0
119	Wasteland	1	0.05	0.1	0.1	0.1	SPARSE	SPOOKY	DEAD	WASTELAND			biomesoplenty.common.biome.overworld.BiomeGenWasteland	-8	-5	7	-5	-5	5	0	0
128	Boneyard	2	0	0.1	0.1	0.2	SPOOKY	NETHER	WASTELAND				biomesoplenty.common.biome.nether.BiomeGenBoneyard	-8	7	-10	-5	0	0	0	0
136	Corrupted Sands	2	0	0.1	0.1	0.2	SPOOKY	NETHER	SANDY				biomesoplenty.common.biome.nether.BiomeGenCorruptedSands	-8	7	-10	-5	0	0	0	0
64	Frost Forest	0	0.5	0.1	0.1	0.2	COLD	SPARSE	FOREST	SNOWY			biomesoplenty.common.biome.overworld.BiomeGenFrostForest	-9	-5	-5	6	-5	0	0	0
112	Thicket	0.6	0.2	0.1	0.1	0.1	DENSE	DRY	DEAD	FOREST	PLAINS		biomesoplenty.common.biome.overworld.BiomeGenThicket	-9	0	-10	-5	6	0	0	0
35	Savanna	1.2	0	0.1	0.125	0.05	HOT	SPARSE	SAVANNA,	PLAINS			biomesoplenty.common.biome.overridden.BiomeGenBOPSavanna	-10	-5	-5	0	0	0	0	0
36	Savanna Plateau	1	0	0.1	1.5	0.025	HOT	SPARSE	SAVANNA	PLAINS			biomesoplenty.common.biome.overridden.BiomeGenBOPSavanna	-10	-5	-5	0	0	0	0	0
37	Mesa	2	0	0.1	0.1	0.2	MESA	SANDY					biomesoplenty.common.biome.overridden.BiomeGenBOPMesa	-10	-5	-5	0	0	0	0	0
39	Mesa Plateau	2	0	0.1	1.5	0.025	MESA	SANDY					biomesoplenty.common.biome.overridden.BiomeGenBOPMesa	-10	-5	-5	0	0	0	0	0
70	Heathland	0.8	0.2	0.1	0.1	0.2	DRY	SAVANNA	PLAINS				biomesoplenty.common.biome.overworld.BiomeGenHeathland	-10	-10	0	0	0	0	0	0
122	Xeric Shrubland	1	0.2	0.1	0.05	0.1	HOT	PLAINS	SANDY				biomesoplenty.common.biome.overworld.BiomeGenXericShrubland	-10	-5	0	-5	0	0	0	0
144	space	0.5	0	0.01	0.1	0.2	DRY	PLAINS					micdoodle8.mods.galacticraft.core.world.gen.BiomeGenBaseOrbit	-10	-10	0	0	0	0	0	0
226	rwg_coldPlains	0.2	0.2	0.1	0.1	0.2	COLD	WASTELAND					rwg.biomes.base.BaseBiomeColdPlains	-10	-5	-5	0	0	0	0	0
228	rwg_hotPlains	0.9	0.1	0.1	0.1	0.2	HOT	SPARSE	SAVANNA	PLAINS			rwg.biomes.base.BaseBiomeHotPlains	-10	-5	-5	0	0	0	0	0
229	rwg_hotForest	0.8	0.2	0.1	0.1	0.2	HOT	SPARSE	SAVANNA	PLAINS			rwg.biomes.base.BaseBiomeHotForest	-10	-5	-5	0	0	0	0	0
67	Glacier	0	0.2	0.1	1.5	0.025	COLD	DEAD	HILLS	SNOWY			biomesoplenty.common.biome.overworld.sub.BiomeGenGlacier	-11	-5	-5	4	-5	0	0	0
207	rwg_riverHot	0.8	0.2	0.1	0.1	0.2	HOT	DRY	RIVER	SANDY			rwg.biomes.base.BaseBiomeRiver	-11	-5	-10	9	-5	0	0	0
77	Lush Desert	1.1	0.5	0.1	0.2	0.5	HOT	DRY	SAVANNA	LUSH	SANDY		biomesoplenty.common.biome.overworld.BiomeGenLushDesert	-13	-5	-10	0	7	-5	0	0
143	asteroids	0.5	0	0.01	0.1	0.2	COLD	DRY	SPOOKY	DEAD			micdoodle8.mods.galacticraft.planets.asteroids.world.gen.BiomeGenBaseAsteroids	-13	-5	-10	7	-5	0	0	0
166	Mesa Plateau F M	2	0	0.1	0.45	0.3	HOT	DRY	FOREST	SANDY			net.minecraft.world.biome.BiomeGenMesa	-14	-5	-10	6	-5	0	0	0
12	Ice Plains	0	0.5	0.1	0.125	0.05	COLD	SNOWY	WASTELAND				biomesoplenty.common.biome.overridden.BiomeGenBOPIcePlains	-15	-5	-5	-5	0	0	0	0
38	Mesa Plateau F	2	0	0.1	1.5	0.025	SPARSE	MESA	SANDY				biomesoplenty.common.biome.overridden.BiomeGenBOPMesa	-15	-5	-5	-5	0	0	0	0
48	Brushland	1.2	0.1	0.1	0.1	0.2	HOT	DRY	SAVANNA	PLAINS			biomesoplenty.common.biome.overworld.BiomeGenBrushland	-15	-5	-10	0	0	0	0	0
94	Polar Chasm	2	0	0.1	0.1	0.2	HOT	DRY	SAVANNA	PLAINS			biomesoplenty.common.biome.nether.BiomeGenPolarChasm	-15	-5	-10	0	0	0	0	0
95	Prairie	0.8	0.3	0.1	0.1	0.1	SPARSE	DRY	PLAINS				biomesoplenty.common.biome.overworld.BiomeGenPrairie	-15	-5	-10	0	0	0	0	0
104	Shrubland	0.6	0.05	0.1	0.1	0.1	SPARSE	DRY	PLAINS				biomesoplenty.common.biome.overworld.BiomeGenShrubland	-15	-5	-10	0	0	0	0	0
108	Spectral Garden	2	0	0.1	0.1	0.2	HOT	DRY	SAVANNA	PLAINS			biomesoplenty.common.biome.end.BiomeGenSpectralGarden	-15	-5	-10	0	0	0	0	0
118	Volcano	2	0.05	0.1	2.5	0.5	HOT	DRY	MOUNTAIN	WASTELAND			biomesoplenty.common.biome.overworld.sub.BiomeGenVolcano	-15	-5	-10	5	-5	0	0	0
176	Twilight Glacier	0	0.1	0.12	0.1	0.2	COLD	SNOWY	WASTELAND				twilightforest.biomes.TFBiomeGlacier	-15	-5	-5	-5	0	0	0	0
224	rwg_snowDesert	0	0.1	0.1	0.1	0.2	COLD	SNOWY	WASTELAND				rwg.biomes.base.BaseBiomeSnowDesert	-15	-5	-5	-5	0	0	0	0
17	DesertHills	2	0	0.1	0.45	0.3	HOT	DRY	HILLS	SANDY			biomesoplenty.common.biome.overridden.BiomeGenBOPDesert	-16	-5	-10	4	-5	0	0	0
49	Canyon	1	0.3	0.1	5	0.025	HOT	SPARSE	DRY	MOUNTAIN	HILLS	SANDY	biomesoplenty.common.biome.overworld.BiomeGenCanyon	-16	-5	-5	-10	5	4	-5	0
50	Canyon Ravine	1	0.3	0.1	-0.1	0.4	HOT	DRY	HILLS	SANDY			biomesoplenty.common.biome.overworld.sub.BiomeGenCanyonRavine	-16	-5	-10	4	-5	0	0	0
163	Savanna M	1.1	0	0.1	0.3625	1.225	HOT	SPARSE	DRY	SAVANNA	HILLS		net.minecraft.world.biome.BiomeGenSavanna$Mutated	-16	-5	-5	-10	0	4	0	0
164	Savanna Plateau	1	0	0.1	1.05	1.2125	HOT	SPARSE	DRY	SAVANNA	HILLS		net.minecraft.world.biome.BiomeGenSavanna$Mutated	-16	-5	-5	-10	0	4	0	0
186	Thornlands	0.3	0.2	0.12	6	0.1	DRY	DEAD	HILLS	WASTELAND			twilightforest.biomes.TFBiomeThornlands	-16	-10	-5	4	-5	0	0	0
2	Desert	2	0	0.1	0.125	0.05	HOT	DRY	SANDY				biomesoplenty.common.biome.overridden.BiomeGenBOPDesert	-20	-5	-10	-5	0	0	0	0
42	Arctic	0.05	0.5	0.1	0	0	COLD	DEAD	SNOWY	WASTELAND			biomesoplenty.common.biome.overworld.BiomeGenArctic	-20	-5	-5	-5	-5	0	0	0
60	Dry River	1	0	0.1	-0.2	0	HOT		DRY	PLAINS	SANDY		biomesoplenty.common.biome.overworld.tech.BiomeGenDryRiver	-20	-5	0	-10	0	-5	0	0
92	Outback	1.3	0.05	0.1	0.1	0.1	HOT	DRY	SAVANNA	PLAINS	SANDY		biomesoplenty.common.biome.overworld.BiomeGenOutback	-20	-5	-10	0	0	-5	0	0
100	Scrubland	1.2	0	0.1	0.125	0.05	HOT	SPARSE	DRY	SAVANNA	PLAINS		biomesoplenty.common.biome.overworld.sub.BiomeGenScrubland	-20	-5	-5	-10	0	0	0	0
130	Desert M	2	0	0.1	0.225	0.25	HOT	DRY	PLAINS	SANDY			net.minecraft.world.biome.BiomeGenMutated	-20	-5	-10	0	-5	0	0	0
141	moon	0.5	0	0.1	1.5	0.4	COLD	DRY	DEAD				micdoodle8.mods.galacticraft.core.world.gen.BiomeGenFlatMoon	-20	-5	-10	-5	0	0	0	0
165	Mesa (Bryce)	2	0	0.1	0.1	0.2	HOT	DRY	PLAINS	SANDY			net.minecraft.world.biome.BiomeGenMesa	-20	-5	-10	0	-5	0	0	0
167	Mesa Plateau M	2	0	0.1	0.45	0.3	HOT	DRY	PLAINS	SANDY			net.minecraft.world.biome.BiomeGenMesa	-20	-5	-10	0	-5	0	0	0
230	rwg_hotDesert	1	0	0.1	0.1	0.2	HOT	DRY	SANDY				rwg.biomes.base.BaseBiomeHotDesert	-20	-5	-10	-5	0	0	0	0
8	Hell	2	0	0.1	0.1	0.2	HOT	DRY	NETHER				biomesoplenty.common.biome.overridden.BiomeGenBOPHell	-25	-5	-10	-10	0	0	0	0
9	Sky	0.5	0.5	0.1	0.1	0.2	COLD	DRY	END				chylex.hee.world.biome.BiomeGenHardcoreEnd	-25	-5	-10	-10	0	0	0	0
110	Steppe	0.7	0.05	0.1	0.1	0.4	HOT	SPARSE	DRY	SAVANNA	DEAD	PLAINS	SANDY	biomesoplenty.common.biome.overworld.BiomeGenSteppe	-25	-5	-5	-10	0	-5	0	-5
142	marsFlat	0.5	0	0.01	2.5	0.4	COLD	DRY	DEAD	SANDY			micdoodle8.mods.galacticraft.planets.mars.world.gen.BiomeGenFlatMars	-25	-5	-10	-5	-5	0	0	0
178	Highlands Center	0.3	0.2	0.12	10.5	0.025	DRY	DEAD	MESA	WASTELAND			twilightforest.biomes.TFBiomeFinalPlateau	-25	-10	-5	-5	-5	0	0	0
115	Tundra	0.2	0.5	0.1	0	0.1	COLD	SPARSE	DRY	DEAD	WASTELAND		biomesoplenty.common.biome.overworld.BiomeGenTundra	-30	-5	-5	-10	-5	-5	0	0
238	null	null	null	null																	
239	null	null	null	null																	
240	null	null	null	null																	
241	null	null	null	null																	
242	null	null	null	null																	
243	null	null	null	null																	
244	null	null	null	null																	
245	null	null	null	null																	
246	null	null	null	null																	
247	null	null	null	null																	
248	null	null	null	null																	
249	null	null	null	null																	
250	null	null	null	null																	
251	null	null	null	null																	
252	null	null	null	null																	
253	null	null	null	null																	
254	null	null	null	null																	
255	null	null	null	null																	

Input	Amount	Eu Total	EU/t	Tier	Seconds	Solid Item	Fluids Returned By Slot											
Underground/Spouts/Pyro Wood Pulp/Bees							Sulfuric Heavy Fuel	Sulfuric Light Fuel	Sulfuric Naphtha	Sulfuric Gas								
Oil	50	1920	96	MV	1		15	50	20	60								
Underground							Sulfuric Heavy Fuel	Sulfuric Light Fuel	Sulfuric Naphtha	Sulfuric Gas								
Raw Oil	100	1920	96	MV	1		15	50	20	60								
Underground							Sulfuric Heavy Fuel	Sulfuric Light Fuel	Sulfuric Naphtha	Sulfuric Gas								
Light Oil	150	1920	96	MV	1		10	20	30	240								
Underground/Pyro Logs/Oilsands/Bees							Sulfuric Heavy Fuel	Sulfuric Light Fuel	Sulfuric Naphtha	Sulfuric Gas								
Heavy Oil	100	5760	288	HV	1		250	45	15	60								
Uncracked version							Butane	Propane	Ethane	Methane	Helium							
Refinery Gas	1000	28800	120	MV	12		60	70	100	750	20							
Pyro/Coke Oven Logs with Nitrogen							Wood Tar	Wood Vinegar	Wood Gas	Dimethylbenzene								
Charcoal Byproducts	1000	10240	256	HV	2	Small Charcoal	250	400	250	100								
							Creosote Oil	Phenol	Benzene	Toluene	Dimethylbenzene							
Wood Tar	1000	10240	256	HV	2		300	75	350	75	200							
							Acetic Acid	Water	Ethanol	Methanol	Acetone	Methyl Acetate						
Wood Vinegar	1000	10240	256	HV	2		100	500	10	300	50	10						
							CO2	Ethylene	Methane	Carbon Monoxide	Hydrogen							
Wood Gas	1000	10240	256	HV	2		490	20	130	340	20							
							Acetic Acid	Water	Ethanol	Methanol	Ammonia	CO2	Methane					
Fermented Biomass	1000	13500	180	HV	3.75	Fertilizer (IC2)	25	375	150	150	100	400	600					
							Ethanol	Water										
Biomass (Forestry)	1000	12800	400	HV	1.6	Small Charcoalx2	600	300										
							Biogas	Water										
Biomass (IC2)	3000	120000	480	HV	12.5	Fertilizer (IC2)	8000	125										
							Coal Tar Oil	Naphtha	Ethylbenzene	Anthracene	Kerosene							
Coal Tar	1000	54000	60	MV	45		500	100	150	50	200							
							Distilled Water											
Water	288	1024	64	MV	0.8		260											
							Acetic Acid											
Vinegar	40	1280	64	MV	1		5											
							Lubricant											
Fish Oil	1200	48000	120	MV	20		500											
							Lubricant	Water										
Seed Oil	1400	48000	120	MV	20		500	35										
							Lubricant											
Creosote Oil	1000	48000	120	MV	20		500											
							Helium											
Air	20000	12000	60	MV	10	Mysterious Hydrog	25											
							Acetone	CO2										
Calcium Acetate Solution	1000	38400	480	HV	4	Small Quicklime	1000	1000										
							Ethenone	Methane										
Acetone	1000	51200	640	EV	4		1000	1000										
							Oxygen											
Sulfur Dioxide	432	3000	30	LV	5	Sulfur Dust	288											
							Sulfur Dioxide	Water										
Sulfurous Acid	1000	12000	60	MV	10		500	500										
							Hydrochloric Acid	Water										
Diluted Hydrochloric Acid	2000	38400	64	MV	30		1000	1000										
							Sulfuric Acid	Water										
Diluted Sulfuric Acid	3000	72000	120	MV	30		2000	1000										
Industrial Strength Acids							Sulfurous Acid	IS Hydrogen Chloride	IS Hydrofluoric Acid									
Sulfuric Apatite Mix	5200	230400	256	HV	45		3800	1000	400									
From the pollution scrubber multiblock (don't bother)							Sulfuric Acid	Nitrogen Dioxide	Methane	Mercury								
Pollution	1600	1152000	1920	EV	30	Ashes	50	50	50	1								
Use the Liquid Air Fluid Hatch and the Giant Output Hatch							Nitrogen	Oxygen	Argon	CO2	Neon	Helium	Methane	Krypton	Hydrogen	Xenon		
Liquid Air	100000000	14400000	1920	EV	375		78084000	20946000	934000	40700	1818	524	180	114	55	9		
Platinum Group Processing							Water	Ruthenium Tetraoxide										
Hot Ruthenium Tetraoxide S	9000	720000	480	HV	75	Saltx6	1800	7200										
Platinum Group Processing							Osmium Solution	Water										
Acidic Osmium Solution	1000	1152000	7680	IV	7.5		100	900										
							Ethanol	Water										
Vodka	1000	14400	180	HV	4		400	600										
							Ethanol	Water										
Generic High Proof	1000	14400	180	HV	4		750	250										
							Ethanol	Water										
Beer	1000	14400	180	HV	4	Fertilizer (IC2)	45	955										
							Ethanol	Water										
Korn	1000	14400	180	HV	4		320	680										
							Ethanol	Water										
Sugar Whine	1000	14400	180	HV	4		700	300										
							Ethanol	Water										
Doppelkorn	1000	14400	180	HV	4		380	620										
							Ethanol	Water										
Fake Jaegermeister	1000	14400	180	HV	4		350	650										
							Ethanol	Water										
Cider	1000	14400	180	HV	4	Fertilizer (IC2)	100	900										
							Ethanol	Water										
Dark Beer	1000	14400	180	HV	4	Fertilizer (IC2)	75	925										
							Ethanol	Water										
Wine	1000	14400	180	HV	4	Fertilizer (IC2)	120	880										
							Ethanol	Water										
Real Jaegermeister!	1000	14400	180	HV	4		350	650										
							Ethanol	Water										
Rum	1000	14400	180	HV	4	Sugarx1	580	420										
							Ethanol	Water										
Alcopops	1000	14400	180	HV	4	Sugarx8	160	840										
							Ethanol	Water										
Pirate Brew	1000	14400	180	HV	4		800	200										
Meme-tier							Heavy Oil	Oil	Creosote Oil	Water	FermentedBacteria	Fermented Biomass	Super Heavy Radox	Heavy Radox	Deluted Xenoxene	Light Radox	Super Light Radox	
Raw Radox	1000	294912000	491520	UV	30	Ashes	200	100	250	280	10	10	10	10	10	10	10	
Meme-tier							Xenoxene	Light Radox										
Deluted Xenoxene	1000	294912000	491520	UV	30	Ashes	250	750										
Meme-tier							Radox Gas	Light Radox										
Cracked Radox	1000	294912000	491520	UV	30	Ashes	100	900										

These are not in the order the game lists them, they're in order of (mostly) probable usefulness/when you would use them. See the other sheet for cracked fluids, it's almost all from oil.

Distillery recipes give you all the fluids, unlike the single blocks. In addition, they're generally faster and do more at a time too, so the Distilled Water is much faster in the DT for example.

Cracked Type	Cracked X	Solid Item	Heavy Fuel	Light Fuel	Naphtha	Toluene	Benzene	Butene	Butadiene	Propane	Propene	Ethane	Ethylene	Methane	Butane	Octane	Hydrogen	Helium
LSC	Light Fuel	Tiny Carbonx1	150		400	40	200	75	60	20	150	10	50	50				
MSC	Light Fuel	Tiny Carbonx2	100		250	50	300	90	75	35	200	30	150	150				
SSC	Light Fuel	Tiny Carbonx3	50		100	30	150	65	50	50	250	50	250	250				
LHC	Light Fuel				800					200		125		125	150	100		
MHC	Light Fuel				500					1100		400		400	200	50		
SHC	Light Fuel				200					125		1500		1500	125	20		
LSC	Heavy Fuel	Tiny Carbonx1		300	50	25	125	25	15	3	30	5	50	50				
MSC	Heavy Fuel	Tiny Carbonx2		200	200	40	200	40	25	5	50	7	75	75				
SSC	Heavy Fuel	Tiny Carbonx3		100	125	80	400	80	50	10	100	15	150	150				
LHC	Heavy Fuel			600	100					100		75		75	100			
MHC	Heavy Fuel			400	400					150		100		100	150			
SHC	Heavy Fuel			200	250					300		175		175	300			
LSC	Naphtha	Tiny Carbonx1	75	150		40	150	80	150	15	200	35	200	200				
MSC	Naphtha	Tiny Carbonx2	50	100		30	125	65	100	30	400	50	350	350				
SSC	Naphtha	Tiny Carbonx3	25	50		20	100	50	50	15	300	65	500	500				
LHC	Naphtha									300		250		250	800			
MHC	Naphtha									1100		400		400	200			
SHC	Naphtha									125		1500		1500	125			
None	Refinery Gas									70		100		750	60			20
LSC	Refinery Gas	Tiny Carbonx1									45	8	85	1026				20
MSC	Refinery Gas	Tiny Carbonx1									8	45	92	1018				20
SSC	Refinery Gas	Tiny Carbonx1									8	8	25	1143				20
LHC	Refinery Gas													1400			1340	20
MHC	Refinery Gas													1400			3340	20
SHC	Refinery Gas													1400			4340	20
LSC	Butene	Small Carbonx1									750		500	250				
MSC	Butene	Small Carbonx1									200		1300	400				
SSC	Butene	Small Carbonx6									125		313	1500				
LHC	Butene							334			334	334	334	334				
MHC	Butene										389	556	334	1056				
SHC	Butene												1000	2000				
LSC	Butadiene	Small Carbonx3									750		188	188				
MSC	Butadiene	Small Carbonx3									125		1125	188				
SSC	Butadiene	Carbon Dustx1									125		188	1125				
LHC	Butadiene							667					667					
MHC	Butadiene							223			223	400	445	223				
SHC	Butadiene									260		926	389	2667				
LSC	Propane	Tiny Carbonx2											750	1250				
MSC	Propane	Small Carbonx1											500	1500				
SSC	Propane	Tiny Carbonx4											250	1750				
LHC	Propane											1000		1000				
MHC	Propane													3000				
SHC	Propane													3000			2000	
LSC	Propene	Small Carbonx2											1000	500				
MSC	Propene	Small Carbonx3											750	750				
SSC	Propene	Small Carbonx6												1500				
LHC	Propene									500			500	500				
MHC	Propene											1000		1000				
SHC	Propene													3000				
LSC	Ethane	Small Carbonx1											250	1250				
MSC	Ethane	Tiny Carbonx6											125	1375				
SSC	Ethane	Small Carbonx2												1500				
LHC	Ethane													2000				
MHC	Ethane													2000			2000	
SHC	Ethane													2000			4000	
LSC	Ethylene	Carbon Dustx1												1000				
MSC	Ethylene	Carbon Dustx1												1000				
SSC	Ethylene	Carbon Dustx1												1000				
LHC	Ethylene											1000						
MHC	Ethylene													2000				
SHC	Ethylene													2000			2000	
LSC	Butane	Tiny Carbonx2								750		125	125	1063				
MSC	Butane	Tiny Carbonx2								125		750	750	438				
SSC	Butane	Tiny Carbonx11								125		125	125	2000				
LHC	Butane									667		667		667				
MHC	Butane											1000		2000				
SHC	Butane													1000				

Butene, Propane, Ethane, Butane, Refinery Gas and Octane all have no uses other than being used as fuel, making fuel, or being cracked some more.
Butadiene can additionally be made into Styrene-Butadiene rubber.
Light and Heavy Fuel can additionally be made into Diesel/Cetane and used to make Raw Bio Fiber, Throwable Bomb (don't bother), and OC Grog+Nanomachines.
Naphtha can additionally used to make Polycaprolactam which is for string (don't bother).

Nonstandard Recipes (see also uncracked Refinery Gas above)

Being Cracked	Cracker+Crackee=Cracked	Amt	Solid	Water	Ruthenium Tetraoxide
Ruthenium Tetraoxide Solution	1000 Steam+1000 RTS=2000L Hot RTS	9000	Saltx6	1800	7200
			Radox Gas		Light Radox
Super Light Radox	1L Silver Plasma+100 SLR=100 Cracked Radox	1000	Ashes	100	900

Cracked Type	Cracked X	Solid Item	Heavy Fuel	Light Fuel	Naphtha	Toluene	Benzene	Butene	Butadiene	Propane	Propene	Ethane	Ethylene	Methane	Butane	Octane	Hydrogen	Helium
Cracking Unit Recipe Info								DT Recipe Info										
Cracking Type		Amt of H/Steam	EU/t	Tier	Total EU	Seconds		Cracked X		EU/t	Tier	Total EU	Seconds					
Lightly Steam-Cracked X		1000	240	HV	9600	2		SHC Butadiene		120	MV	13440	5.6					
Moderately Steam-Cracked X		1000	360	HV	21600	3		Almost Everything		120	MV	14400	6					
Severely Steam-Cracked X		1000	480	HV	38400	4		SSC Propene		120	MV	21600	9					
Lightly Hydro-Cracked X		2000	120	MV	4800	2		MSC Propene		120	MV	21600	9					
Moderately Hydro-Cracked X		4000	180	HV	10800	3		MSC Butene		120	MV	23040	9.6					
Severely Hydro-Cracked X		6000	240	HV	19200	4		See the other sheet for the 3 non-standard ones, plus all the other recipes										
Hot RTS		1000	480	HV	72000	7.5												
Cracked Radox		1L Silver Plasma	491520	UV	245760000	25												
Inspired by smeany's version: https://docs.google.com/spreadsheets/d/1ifqKryaKXYWTku6p_45zYcdSJXYzabJ1QfzPBmC7a_I/edit#gid=0																		

Plasma name	Fusion Tier	Input 1	Amount	Input 2	Amount	Start (EU)	Usage (EU/t)	Time (ticks)	Amount (L)	Energy Density (EU/1000L)	Output (EU/t)	Output on T3 (EU/t)	
Helium	1	Tritium	125	Deuterium	125	40,000,000	4096	16	125	81,920,000	640,000	2,560,000	Use filter view to sort
Boron	1	Lithium	144	Helium Plasma	144	50,000,000	10240	240	144	112,640,000	67,584	270,336	Thanks to Ложный цвет/FalseColor
Helium	1	Helium-3	125	Deuterium	125	60,000,000	1920	16	125	81,920,000	640,000	2,560,000	
Calcium	1	Oxygen	128	Magnesium	128	120,000,000	7680	128	16	188,416,000	23,552	94,208	
Titanium	2	Fluorine	144	Aluminium	144	100,000,000	49152	160	144	196,608,000	176,947	353,894	
Oxygen	2	Lithium	144	Boron Plasma	144	100,000,000	49152	240	144	131,072,000	78,643	157,286	
Zinc	2	Tritium	250	Copper	72	180,000,000	49152	16	72	226,304,000	1,018,368	2,036,736	
Nitrogen	2	Deuterium	375	Beryllium	16	180,000,000	16384	16	125	129,024,000	1,008,000	2,016,000	
Niobium	2	Silicon	144	Cobalt	144	200,000,000	49152	16	144	269,516,000	2,425,644	4,851,288	
Sulfur	2	Lithium	16	Aluminium	16	240,000,000	10240	32	144	170,393,000	766,769	1,533,537	
Tin	2	Helium-3	375	Silver	144	280,000,000	49152	16	144	304,496,000	2,740,464	5,480,928	
Silver	3	Arsenic	144	Gold	144	350,000,000	49152	16	144	282,685,000	2,544,165	2,544,165	
Bismuth	3	Zinc Plasma	72	Tantalum	144	350,000,000	98304	16	144	425,984,000	3,833,856	3,833,856	
Iron	3	Magnesium	16	Silicon	16	360,000,000	7680	32	144	206,438,000	928,971	928,971	
Radon	3	Fluorine	500	Iridium	144	450,000,000	98304	32	144	450,560,000	2,027,520	2,027,520	
Nickel	3	Fluorine	144	Potassium	16	480,000,000	30720	16	144	213,811,000	1,924,299	1,924,299	
Americium	3	Hydrogen	2000	Plutonium 241	144	500,000,000	98304	64	144	501,760,000	1,128,960	1,128,960	

Old

	Tier	Input	Amount	Input	Amount	Start	eu/t	Ticks	Total eu	Output	Plasma Value	eu per Process	eu/t	Machines		Machines		Machines		Machines		Machines		Machines	
Helium Plasma	I	Tritium	125	Deuterium	125	40,000,000	4096	16	65536	125	81,920	10,240,000	640,000	117.1875	LV Electrolyser	156.25	LV Centrifuge	31.25	MV Centrifuge						
Helium Plasma	I	Helium-3	125	Deuterium	125	60,000,000	2048	16	32768	125	81,920	10,240,000	640,000	23.4375	LV Electrolyser	31.25	LV Centrifuge	Oil Drilling in the Moon							
Nitrogen Plasma	II	Deuterium	375	Beryllium	16	180,000,000	16384	16	262144	125	129,024	16,128,000	1,008,000												
Oxygen Plasma	I	Helium-3	125	Carbon	125	80,000,000	4096	32	131072	125	131,072	16,384,000	512,000												
Sulfur Plasma	II	Lithium	16	Aluminium	16	240,000,000	10240	32	327680	144	170,393	24,536,592	766,769												
Argon Plasma	II	Carbon	144	Magnesium	144	180,000,000	24576	32	786432	125	188,416	23,552,000	736,000												
Iron Plasma	III	Magnesium	16	Silicon	16	360,000,000	8192	32	262144	144	206,438	29,727,072	928,971												
Nickel Plasma	III	Fluorine	144	Potassium	16	480,000,000	32700	16	523200	144	213,811	30,788,784	1,924,299												
Zinc Plasma	II	Tritium	250	Copper	72	180,000,000	49152	16	786432	72	226,304	16,293,888	1,018,368	187.5	LV Electrolyser	250	LV Centrifuge	62.5	MV Centrifuge	112.5	MV Centrifuge				
Niobium Plasma	II	Silicon	144	Cobalt	144	200,000,000	49152	16	786432	144	269,516	38,810,304	2,425,644												
?Silver Plasma	III	Arsenic	144	Gold	144	350,000,000	49152	16	786432	144	282,685	40,706,640	2,544,165												
Tin Plasma	II	Helium-3	375	Silver	144	280,000,000	49152	16	786432	144	304,496	43,847,424	2,740,464												
Mercury Plasma	II	Carbon	144	Tungsten	144	300,000,000	49152	16	786432	144	409,600	58,982,400	3,686,400												
Bismuth Plasma	III	Zinc Plasma	72	Tantalum	144	350,000,000	98304	16	1572864	144	425,984	61,341,696	3,833,856	MarkII Zinc Fusion Reactor		1800	MV Centrifuge								
Radon Plasma	III	Fluorine	500	Iridium	144	450,000,000	98304	32	3145728	144	450,560	64,880,640	2,027,520												
Americium Plasm	III	Hydrogen	2000	Plutonium 241	144	500,000,000	98304	64	6291456	144	501,760	72,253,440	1,128,960												

	Resource	Amount	Material	Amount	Total eu	eu/t	Ticks	Amount requir	Amount produced per Tick
Electroylser	Hydrogen	2000	Water	3000	45000	30	1500	2	1.333333333
Centrifuge	Deuterium	4	Hydrogen	16	320	20	16	1	0.25
Centrifuge	Tritium	4	Deuterium	16	1280	80	16	1	0.25
Compressor	Compressed Ai	1000	Empty Cell	1	800	2	400	0.0025	2.5
Vacuum Freezer	Liquid Air Cell	1000	Compresse	1000	3000	120	25	40	40
Centrifuge	Nobel Gases C	1000	Liquid Air C	53000	7420	5	1484	35.71428571	0.6738544474
Centrifuge	Helium	9000	Nobel Gase	34000	3400	5	680	50	13.23529412
Centrifuge	Helium-3	1	Helium	16	2560	80	32	0.5	0.03125
Centrifuge	Copper	3.2	Lava	100	6400	80	80	1.25	0.04
Centrifuge	Tantalum	0.4	Lava	100	6400	80	80	1.25	0.005
							#DIV/0!	#DIV/0!	#DIV/0!
							#DIV/0!	#DIV/0!	#DIV/0!

Wand Core	Tier Materials Required	Wand Capacity	Scepter Capacity	Staff Capacity	"Staffter" Capacity	Notes
Impregnated Stick	Aluminium/Naga	25	37	-	-	
Greatwood	Stainless Steel/Lich	50	75	125	187	
Amber	Stainless Steel/Lich	-	15	-	37	Recharges all aspects to full somewhat quickly
Blazing/Bone/Icy/Obsidia	Titanium/Hydra	75	112	175	262	Recharges up to 10% of its element
Transmutative	Titanium/Hydra	-	112	-	262	Can convert vis types (above 90%, per aspect, immediate, lossy)
Thaumium	Titanium/Hydra	80	120	-	-	Recharges unevenly up to 10%
Blood	Tungstensteel/Ur Ghast	100	150	50	75	Uses LP or health to recharge to full, uneven if using health
Blood Infused Wooden	Tungstensteel/Ur Ghast	100	150	-	-	Same as Blood, speedx2, more LP usage
Dreamwood	Tungstensteel/Ur Ghast	100	150	250	375	
Livingwood	Tungstensteel/Ur Ghast	100	150	-	-	
Witchwood	Tungstensteel/Ur Ghast	100	150	50	75	
Silverwood	Tungstensteel/Ur Ghast	100	150	250	375	
Tainted	Tungstensteel/Ur Ghast	150	225	-	-	Recharges all aspects to 10% somewhat slowly while in Tainted L
Profane	Stainless Steel/Lich	150	225	-	-	Trade with villagers to get default one, then recraft it after it dissolves (
Infernal	Tungstensteel/Ur Ghast	150	225	-	-	Protection from Withering/Fire/Lava, regenerates ignis up to 20%, rege
Void	Tungstensteel/Ur Ghast	160	240	-	-	Recharges quickly, but unevenly up to 10%
Warpwood	Tungstensteel/Ur Ghast	250	375	-	750	Recharges vis based on warp amount to full
Staff Core of the Primal	Iridium/Ur Ghast Tower	-	-	250	375	Recharges unevenly up to 10%, adds one level of potency to foci
Ichorcloth	Osmium/Snow Queen	1000	1500	-	-	
		No foci, 10% discount		No crafting	No foci, no crafting, use as a battery	
Eldritch	No use	Staffs/"Staffters" below Tungstensteel usually require Tier+1 materials				
Necromancer's Staff	No use	Staffs/"Staffters" at Tungstensteel and above usually require Chrome Screws/Carminite(Ur Ghast Tower)				

Vis cost to create increases based on both wand core amount and cap discount. If you can't make a wand, try using a lesser cap, wearing discount gear, or making a scepter of the previous tier.
TF bosses have purchasable spawn eggs, and you can use the trophies to create the drops too, so don't lose them!

Special Wands	Discount %	Wand Capacity	Notes
Iron Capped Profane Wand	-10	50	Trade with Heretic Villager. Unlimited Vis until contract runs out. Causes sticky warp during use
Void Aspected ?????????? Wand	20	100	Loot from Magic Grandmaster bags
Crystalline Wand	10	250	Cannot be recharged, nonstandard craft
Crystal Studded Cosmic Neutronium Wand	90	9999999	Endgame Dire Crafting Table recipe, becomes full once you pick it up
Orichalcum Studded Cosmic Neutronium Wand	90	9001	Creative only

Discount Gear Name	Discount %	Warp	How to get
Ring (loot)	1		Loot in chests, single aspect, stacks
Ring (crafted)	3		TE Arcane Crafting, single aspect, stacks
Crimson Cult Hood	1	1	Drops off Crimson Cultists
Shadow Fortress Helm	5	5	TM Requires Void Fortress and Infused Gold (T4 planets)
Ichorcloth Cowl	5	3	TT LuV Arcane Crafting
Void Fortress Helm	5	3	TM Requires Void and Shadowmetal
Void Thaumaturge's Hood	5	2	Requires Void
Warped Goggles of Revealing	5	1	Tm Requires Shadowmetal
Helmet of Revealing	5		TT Craft
Thauminite Helmet	5		TB Use Thauminite made in a Cauldron
Electric Goggles of Revealing	5		EMT Requires LV circuits
Primordial Helm	6	10	WG Requires Primordial Pearls and Shadowmetal equipment
Cowl of the Abysal Depths	6	3	TT LuV Infusion
Nanosuit Goggles of Revealing	6		EMT Requires HV circuits and NanoSuit Helmet
Sanguine Helmet	6		BM Ritual of Binding (Goggles of Revealing)
Solar Goggles of Revealing	7		EMT Uses Quantum Goggles
Quantum Goggles of Revealing	8		EMT Requires Assembly Line
Voidmetal Goggles of Revealing	10	5	TM Requires Void, Shadowmetal and Nether Star Lens
Infinity Helmet	20		Endgame Dire Crating Table recipe
Crimson Cult Robe	1	1	Drops off Crimson Cultists
Thauminite Chestplate	2		TB Use Thauminite made in a Cauldron
Thaumaturge's Robe	2		Requires Thaumium and Enchanted Fabric
Thaumostatic Harness	2 (5 Aer)		Requires MV and Infusion
Sanguine Robes	3		BM Ritual of Binding (Thaumium Chestplate)
Thaumium Reinforced Wings	4		EMT Requires Stainless
Bloodstained Thaumaturge's Robe	4		TB Use spikes to get the fabric
Shadow Fortress Cuirass	5	5	TM Requires Void Fortress and Infused Gold (T4 planets)
Ichorcloth Robe	5	3	TT LuV Arcane Crafting
Void Fortress Cuirass	5	3	TM Requires Void and Shadowmetal
Void Thaumaturge's Robe	5	2	Requires Void
Nanosuit Wings	5		EMT Requires NanoSuit Bodyarmor and Titanium
Bewitched Robe	5		WG requires sealed wood for spinning wheel (WG)
Primordial Cuirass	6	10	WG Requires Primordial Pearls and Shadowmetal equipment
Quantum Wings	6		EMT Requires Assembly Line
Robes of the Stratosphere	6	3	TT LuV Infusion
Infinity Breastplate	20		Endgame Dire Crating Table recipe
Crimson Cult Leggings	1	1	Drops off Crimson Cultists
Thaumaturge's Leggings	2		Requires Thaumium and Enchanted Fabric
Thauminite Leggings	3		TB Use Thauminite made in a Cauldron
Sanguine Leggings	3		BM Ritual of Binding (Thaumium Leggings)
Bloodstained Thaumaturge's Leggings	3		TB Use spikes to get the fabric
Bewitched Leggings	4		WG requires sealed wood for spinning wheel (WG)
Shadow Fortress Thigh Guards	5	5	TM Requires Void Fortress and Infused Gold (T4 planets)
Void Fortress Thigh Guards	5	3	TM Requires Void and Shadowmetal
Ichorcloth Leggings	5	3	TT LuV Arcane Crafting
Void Thaumaturge's Leggings	5	2	Requires Void
Primordial Greaves	6	10	WG Requires Primordial Pearls and Shadowmetal equipment
Leggings of the Burning Mantle	6	3	TT LuV Infusion
Infinity Pants	20		Endgame Dire Crating Table recipe
Thaumaturge's Boots	1		Requires Thaumium and Enchanted Fabric
Crimson Cult Boots	1	1	Drops off Crimson Cultists
Thauminite Boots	1		TB Use Thauminite made in a Cauldron
Bloodstained Thaumaturge's Boots	2		TB Use spikes to get the fabric
Electric Boots of the Traveller	2		EMT Requires MV motors
Sanguine Boots	2		BM Ritual of Binding (Thaumium Boots)
Nanosuit Boots of the Traveller	4		EMT Requires HV motors and Energy Crystal
Boots of the Voidwalker	5	5	TM Requires Void and Shadowmetal (doesn't list discount on gear)
Ichorcloth Boots	5	3	TT LuV Arcane Crafting
Quantum Boots of the Traveller	5		EMT Requires Assembly Line
Primordial Boots	6	10	WG Requires Primordial Pearls and Shadowmetal equipment
Boots of the Horizontal Shield	6	3	TT LuV Infusion
Infinity Boots	20		Endgame Dire Crating Table recipe

The first gear you get will likely be the 3 vanilla clothes, followed by the goggles. The Bewitched robe and leggings are both easy to get and close to the max discount. Once you get Void, replace the leggings.
For the goggles you can go through the warp to get the Voidmetal one, or go up the electric path. The electric path is similar for the boots. You can't enchant them though. Nano and Quantum boots also don't work properly with Elevators.

Wand Cap	Highest Tier Material	Discount %	Notes
Terrasteel	Astral Silver (HV)	-80	
Iron	Iron	**-10**	
Copper	Steel	-6	
Gold	Aluminium	**0**	
Charged Silver	Stainless Steel	4	
Enchanted Cloth	Aluminium	5	
Mechanist's	Titanium	5	Drains nodes faster
Sojourner's	Titanium	5	Passively drains nearby nodes
Manasteel	Astral Silver (HV)	10	
Vinteum	Titanium	10	
Charged Thaumium	Titanium	**10**	
Alchemical	Aluminium, T1 Altar	12	Aqua discount, LP discount on Blood/Blood Infused Wooden wands, attacks from a blood wand cause weakness to enemies
Shadow-Imbued Cloth	Titanium	15	
Thauminite	Titanium	15	
Blood Infused Iron	Aluminium, T4 Altar	16	Higher LP discount; only on Blood Infused Wooden
Elementium	Tungstensteel	20	
Crimson-Stained Cloth	Aluminium	20	
Charged Void	Tungstensteel	**20**	
Shadowmetal	Tungstensteel	30	
Ichorium	Osmiridium	30	

GT Tier	Furnace	Microwave	Unboxing Scrap Boxes	Recycler	Compressor	Extractor	Thermal Centrifuge	Ore Washer	Macerator	Forming Press	Printer
LV EU/t	4	4	1	1	2	2	48	16	2	8	2
MV EU/t	16	16	4	4	8	8	192	64	8	32	8
HV EU/t	64	64	16	16	32	32	768	256	32	128	32
EV EU/t	256	256	64	64	128	128	3072	1024	128	512	128
IV EU/t	1024	1024	256	256	512	512	12288	4096	512	2048	512
LuV EU/t	4096	4096	1024	1024	2048	2048	49152	16384	2048	8192	2048
ZPM EU/t	16384	16384	4096	4096	8192	8192	196608	65536	8192	32768	8192
UV EU/t	65536	65536	16384	16384	32768	32768	786432	262144	32768	131072	32768

LV Ticks	128	32	16	45	400	400	400	400	400	128	256
MV Ticks	64	16	8	23	200	200	200	200	200	64	128
HV Ticks	32	8	4	12	100	100	100	100	100	32	64
EV Ticks	16	4	2	6	50	50	50	50	50	16	32
IV Ticks	8	2	1	3	25	25	25	25	25	8	16
LuV Ticks	4	1	1	2	13	13	13	13	13	4	8
ZPM Ticks	2	1	1	1	7	7	7	7	7	2	4
UV Ticks	1	1	1	1	4	4	4	4	4	1	2

Multi Smelter														
Eu/t Table		Hatch Tier	LV	MV	HV	EV	IV	LuV	ZPM	UV	UHV	UEV	UIV	UMV
		EU Amp Size	32	128	512	2048	8192	32768	131072	524288	2097152	8388608	33554432	134217728
	Level	Efficiency Discount	1	2	3	4	5	6	7	8	9	10	11	12
Cupronickel	1	1	4	16	64	256	1,024	4,096	16,384	65,536	262,144	1,048,576	4,194,304	16,777,216
Kanthal	2	1	8	32	128	512	2,048	8,192	32,768	131,072	524,288	2,097,152	8,388,608	33,554,432
Nichrome	4	1	16	64	256	1,024	4,096	16,384	65,536	262,144	1,048,576	4,194,304	16,777,216	67,108,864
Tungstensteel	8	1	32	128	512	2,048	8,192	32,768	131,072	524,288	2,097,152	8,388,608	33,554,432	134,217,728
HSS-G	16	2	32	128	512	2,048	8,192	32,768	131,072	524,288	2,097,152	8,388,608	33,554,432	134,217,728
Naquadah	16	4	16	64	256	1,024	4,096	16,384	65,536	262,144	1,048,576	4,194,304	16,777,216	67,108,864
Naquadah Alloy	16	8	8	32	128	512	2,048	8,192	32,768	131,072	524,288	2,097,152	8,388,608	33,554,432
Electrum Flux														
Awakened Draconium														
Time (Ticks)			512	256	128	64	32	16	8	4	2	1	1	1

Name	Durability	Territory	Mutation Rate	Lifespan	Production	Genetic-Decay			Notes	Proposal
Untreated	80	1	1	1	2	0.9			Basic frame	
Impregnated	240	1	1	1	2	0.4			Requires carpenter and some infrastructure	
Arborist (GT++)	240	3	0	3	0	1			Should give this as some rewards? Requires chemical bath + carpenter + redstone. Recommend lowering territory to 1.1x (max 1.33x) and lifespan to 2.2x (max 10x). Still makes it good for pollinating.	
Slowing (GT++)	175	1	0.5	2	0.5	1			What is the purpose of this frame? Recommend giving it a use by .2 mutation rate, 1.5x lifespan (max 3.3x) and territory 1.8x (max 6) That makes this frame perfect for effects bees.	
Decaying (GT++)	240	1	1	1	1	10			Low reqs, wrought iron + carpenter + liquid redstone. What's the purpose of this frame? Could be good target for early game kill frame	Make it simple crafting table recipe with untreated frame + poisonous potatoes. Durability is 120, lifespan is .7 (max of 3 stack == .343), GD is 10 (so really bad for ignobles? Kinda weaksauce IMO) This makes it available in steam.
Accelerated (GT++)	175	1	1.2	0.9	1.8	1			Requires electrum, which can be tough on silver stocks because of demand.. Otherwise pretty easy to make. alternative target for early kill frame?	Instead of using redstone, switch to GT Strong Poisonous Brew liquid (extracted from potatoes with pulverizer and brewing machine (LV but needs brewing stand, which is thaumcraft. Alternatives? Fruit juice maybe? Or maybe mercury?) Stats would be lifespan is .45 (max of 3 == .09). Genetic Decay of 3, means ignobles risk dying a little sooner. Really wish we could increase change of pristine->ignoble, but that requires overall poroduction > 16x.
(*) Chocolate (TC)										
(*) Restriant (TC)										
(*) Healing (TC)										
(*) Proven (TC)										
Magic (TC)										
Resilient (TC)										
Gentle (TC)										
Metabiolic (TC)										
Necrotic (TC)										
Temporal (TC)										
Working (GT++)	2000	1	0	3	4	1			Requires nether star and blue steel, but lasts a really long time	
Mutagenic (GT++)	3	1	5	0.0001	10	1			Uranium/plutonium. Alternative for players not doing TC	
Oblivion (TC)										
Soul (TC)										
Stabilizing (GT++)	60	1	0.1	1	0.1	0.5			Really high tier. What's the purpose of this frame?	
Bee Tiering										
	< LV	LV	MV	HV	EV	IV	LuV	ZPM	Notes	
									Oblivion requires Dragon egg	
Frames	Untreated	Impregnated	(*) Chocolate (TC)	Mutagenic (GT++)			Stabilizing (GT++)			
		Arborist (GT++)	(*) Restriant (TC)							
		Slowing (GT++)		Oblivion (TC)					https://ftb.gamepedia.com/Frames	
		Decaying (GT++)	(*) Healing (TC)	Soul (TC)						
		Accelerated (GT++)	(*) Proven (TC)							
			Magic (TC)						Necrotic frames stack, 3 kill a cultivated in one tick	
			Resilient (TC)							
			Gentle (TC)							
			Metabiolic (TC)						Magic frames are actually slightly worse than impregnated	
			Necrotic (TC)							
			Temporal (TC)							
									Soul Frame needs 16 vis, technically HV but achievable with robes	
									All TC frames are at least MV because tier 1 wand is MV	
			Working (GT++)						Frames marked with (*) could be LV if not gated by TC	
Housing	Bee House	Apiary, Magic Apiary	Alveary				Industrial Apiary		The magic apiary doesn't really work right	
Upgrades										
Genetics										
Gendustry										
Also see the link on the Misc page										

Name	Mod	Features	Current Tier	Proposed Tier Change	Actual Proposed Change	Notes
Ender Pearl	Vanilla	- Throw, teleport to its landing spot - You take fall damage - Consumable	Defeat an Enderman			
Ender Pearl (Enhanced)	Hardcore Ender Expansion	- Can be enchanted to enhance it - Mostly just faster/further	Defeat the Ender Dragon			
Spatial Dash Gem	Hardcore Ender Expansion	- Shoots out a slow beam, you'll teleport to where it hits - Range of 75 blocks - Regenerates uses in the presence of an energy cluster	HV? Beat an Ender Eye			Can be easily upgraded to 1) be instant 2) range of ~250 blocks 3) greater capacity (uses) Energy clusters are usually found in the End, but you can also move them (may explode)
Transference Gem	Hardcore Ender Expansion	- Teleports back to a linked location at the cost of durability - Regenerates uses in the presence of an energy cluster - Intradim only	IV			Can also be upgraded, but they're less useful
Nether/End Portal/Exit Portal	Vanilla	- Go to Nether/End/Spawn				No one actually cares about these right? Also TF dim, Bedrock dim, Torment dim, Spirit World dim, Deep Dark dim, Toxic Everglades dim, probably other portals to dims.
Elevator	OpenBlocks	- Only vertical transport - 20 block range - Configurable	MV			Can be set to use xp, number of blocks it goes through, range, special rules (abort/increment/ignore) based on specific blocks (see config for details)
Transport Beacon	Hardcore Ender Expansion	- Worldgen in The End - Uses "energy" from energy clusters - 990 block range? - Select a destination from a map	Defeat the Ender Dragon			They don't seem to be near the main island? You can't move them
Travel Anchor	EnderIO	- 128 block range - 5 second cooldown - Anchor to Anchor - Configurable	HV			Cooldown and range can be configured. Can be renamed or made private. Has pathing problems linking to other Anchors when there is no clear path in between (having empty space or glass helps). IE: Deep underground to the surface (but within 128 blocks) doesn't work, but make a shaft and it does)
Staff of Travelling	EnderIO	- Can teleport to anchors from up to 128 blocks away - When held Anchors can be seen through walls - Can teleport in the direction you look - Can be used repeatedly, also goes through blocks - Uses RF	HV			Position the cursor over an Anchor until it turns orange and right click to teleport
The Ender	EnderIO	- Can be enchanted to be like SoT - Hold shift to see Anchors	HV			
Telepad	EnderIO	- Interdimensional transport - Requires RF - Can only be set to one place at a time - Configurable	UHV+ Stargate components	Lower?	Remove stargate components	Uses Coordinate Selector to set coordinates. Can set to blocks in the distance you can see if you really want to. Interdimensional travel is 100,000RF, intra is: power = [this value] * ln (0.005*distance + 1) powerCoefficient=100000, with the pC being configurable. You can teleport to it like a travel anchor with the Staff/Ender Sword.
Short Range Telepad	Galacticraft	- 250 block range - Intradimensional? - 350 EU/s even when not in use	IV			Seems worse than Anchors?
<AE2 Spatial Cell Teleportation>	Applied Energistics 2	- Requires AE2 - Can get stuck in the spatial cell dim - Complex, but this is GTNH after all	LuV			Use Spatial Pylons to put yourself into the cell dimension, move the cell somewhere else, reverse to get yourself back out. Death may or may not release you from the dim.
Blink Focus	Forbidden Magic	- Range is 128 blocks, but you have to be able to see it - Can be used repeatedly if your computer can handle it - Minimal vis cost - Instant teleport	HV/EV			You need radon, otherwise it's HV
Transvector Dislocator	Thaumic Tinkerer	- Works similarly to teleposers, swapping blocks/entities - Range of 16 blocks	MV			Teleports stuff in front, instead of above. Uses a redstone signal, and no cost to activate. Try chaining a couple dozen with redstone stuff if you want to FLEX.
Celestial Gateway	Thaumic Tinkerer	- 10 locations per CG, set by Celestial Pearl - no travel cost - Intradimensional only	LuV			Right click a CG with a pearl to set it. At the end of thaumcraft stuff really.
Wand Focus: Celestial Recall	Thaumic Tinkerer	- Teleport to a CG that a CP is linked to that is in your hotbar	LuV			
Planar Gateway	Thaumic Horizons	- 4 Gateways per Pocket Plane - Only to/from PP - Can make more PPs	MV? LV maybe?	Higher?		Pocket Planes are another dim. Probably creates new plane area in the same dim when you create a new one, like advanced rocketry space station dim. Complicated. Bottom right researches in TH.
Waystone/Bound Waystone	Witchery	- Interdimensional? - One time use only? - Can copy Bound Waystones	HV	Higher?		HV for Distillery to get gypsum for the chalk. If you push back the Distillery, it would make half the mod unusable until then since it's used a lot.
Ruby Slippers	Witchery	- Must be Infused - Teleport to spawn point (30min cooldown) - Or use a bound waystone (60sec cooldown, consumed) - Uses a /command or chat to teleport	HV	Higher?		Infusing is a Witchery Thing. Costs 40% infusion power to teleport to spawn point in the same dimension, 60% if another dim. Costs 20%/40% for Bound Waystone teleport. HV cost is the distillery.
Infusion of Otherwhere	Witchery	- Links to a set home spot you can change - Interdimensional	HV			HV for chalk again. See https://sites.google.com/site/witcherymod/infusion-of-otherwhere You could maybe push the infusions themself back by changing the recipes required for them, see the first 4 items on https://sites.google.com/site/witcherymod/infusion
Teleposer	Blood Magic	- Interdimensional - Set destination with Teleposition Focus - Can only send to another Teleposer - One-way, can set 2nd Teleposer to somewhere else - Costs LP (blood in soul network) to teleport - Swaps with blocks/entities at destination	EV	Higher	Increase LP amount if possible. 100,000 or more for interdim?	BM is behind a bunch of Warp. Right click with a focus on a teleposer to set coordinates. Foci can range from 1x1x1 to 7x7x7, teleporting entites and blocks. LP cost is LP=0,5*distance* (count teleported blocks and entities). So 1,000 blocks is 500LP for just yourself. Interdim is somehow 0. This is ludicrously low (and broken for interdim), considering you'll likely have a Well of Suffering by this point (Tier 4 Altar), and effectively unlimited LP. For those who don't know, you probably get around 100LP a second. See https://bloodmagic-altar-simulator.herokuapp.com/. Can move nodes too.
Teleporter	IC2	- Costs EU based on distance - Intradimensional only - Can explode?	ZPM	Lower?		Apparently "Teleporters can explode if you leave and reload a world without quitting Minecraft".
Relocator	Gavitation Suite	- Can save points to teleport to, up to 10 - Interdimensional - No point to make since the ECD is better in every way	UHV+ Stargate components	Lower	Remove stargate components	See https://forum.industrial-craft.net/thread/6915-ic2-exp-1-7-10-gravitation-suite-v2-0-3/?post I wasn't able to change mode to test. Costs 1M intradim, 1.5M for interdim.
Charm of Dislocation	Draconic Evolution	- Teleports to a single set location - Uses durability - Interdimensional	UV+			
Dislocator Pedestal	Draconic Evolution	- Put charm in pedestal, right-click goes to it's destination - Charm no longer takes durability damage	ZPM?			Shift right-click to get it back out.
Enhanced Charm of Dislocation	Draconic Evolution	- God tier of portable teleport. can set many destinations and teleport anywhere across any dim	UHV+ Stargate components		Remove stargate components	The Best
Teleporter	GregTech	- Can teleport based on coords and dim number. Only TP that you don't need to reach the point first	UHV+ Stargate components + uncraftable Power Unit		Remove stargate components	IC2 Stargate Power Unit has no recipe
Stargates	Stargates	- Epeen only	UHV+			
<various>	Enhanced Portals	- Creative Only	-			For Admins?
Portals		- Interdim, works on mobs too, no cost	T7 rocket? needs 1 core, but fairly cheap to make once unlocked			What even is this? Is it called "portal"?

BTW, this page is from before the TP change, it's not up-to-date anymore

[1] Stage 1-2

[2] Stage 3

[3] If Stage 3

[4] If Stage 4

[5] If Stage 3, emits at a light level of 7

[6] Emits at a light level of 7

[7] Requires light level below or equal to 10

[8] Stage 1-2

[9] Stage 3-4

[10] Requires light level below or equal to 10

[11] Stage 1-2

[12] Stage 3-4

[13] Requires light level below or equal to 10

[14] Stage 1-2

[15] Stage 3-4
1500 if has Aluminium Block beneath

[16] Boosts output by 3x

[17] Requires Aluminium Block beneath

[18] Requires light level below or equal to 10

[19] Stage 1-2

[20] Stage 3-4
1500 if has Copper Block beneath

[21] Boosts output by 3x

[22] Requires Copper Block beneath

[23] Stage 1-2

[24] Stage 3-4
1500 if has Skull/Head beneath

[25] Boosts output by 3x

[26] Requires Head/Skull beneath

[27] Requires light level below or equal to 10

[28] Stage 1-2

[29] Stage 3-4
1500 if has Gold Block beneath

[30] Boosts output by 3x

[31] Requires Gold Block beneath

[32] Requires light level below or equal to 10

[33] Stage 1-2

[34] Stage 3-4
1500 if has Iron Block beneath

[35] Boosts output by 3x

[36] Requires Iron Block beneath

[37] Requires light level below or equal to 10

[38] Stage 1-2

[39] Stage 3-4
1500 if has Tin Block beneath

[40] Boosts output by 3x

[41] Requires Tin Block beneath

[42] Stage 1 250
Stage 2 2250
Stage 3 1750

[43] Stage 1-2 2250
Stage 3 1750

[44] Hurts player on collision with Magic Damage

[45] Stage 1-2 500
Stage 3 1200

[46] Stage 4 1800 with Thaumium Block
Stage 4 3300 with Void Block

[47] Iron or Thaumium for Thaumium
Void for Void Nuggets

[48] Stage 1-4
Based on config

[49] Stage 1-2

[50] Stage 3

[51] If it can't find one it will use nothing instead

[52] Stage 1-2 1000
Stage 3 4500

[53] Stage 3 if has Knightmetal Block beneath

[54] Boosts output by 4x (?)

[55] 4x (?) with Knightmetal Block

[56] 65%

[57] 30%

[58] 5%

[59] Requires light level above or equal to 9

[60] Requires light level above or equal to 9

[61] Stage 1-2

[62] Stage 3

[63] Stage 2 gives Saguaro
Else give Seed Food with Meta 3?

[64] Stage 1 700
Stage 2 200

[65] Stage 1 700
Stage 2 200

[66] Stage 1 700
Stage 2 200

[67] Stage 1 700
Stage 2 200

[68] Stage 1 700
Stage 2 300

[69] Stage 1 700
Stage 2 300

[70] Stage 1 700
Stage 2 300

[71] Stage 1 700
Stage 2 300

[72] Stage 1 600
Stage 2 250

[73] Stage 1 600
Stage 2 250

[74] Stage 1 600
Stage 2 250

[75] Stage 1 600
Stage 2 250

[76] Hurts player on collision with Cactus Damage

[77] Hurts player on collision with Cactus Damage

[78] Stage 2

[79] Stage 3

[80] Mimics Ghasts

[81] If Stage 4 hurts player on collision with Cactus Damage

[82] Lowers the Size of crop by one

[83] Stage 1-2

[84] Stage 3

[85] Stage 4

[86] Stage 1 700
Stage 2 200

[87] If Stage 4 emits at a light level of 4

[88] If block beneath is Red Granite

[89] If block beneath is Granite

[90] If block beneath is Black Granite

[91] If block beneath is Basalt

[92] If block beneath is Marble

[93] If block beneath is Diorite

[94] If block beneath is Cobblestone/Stone

[95] If block beneath is Andesite

[96] Stage 1-2 300
If Endstone is beneath
Stage 2 550

[97] If block beneath is Endstone

[98] If block beneath is Sand/Sandstone

[99] Stage 1 700
Stage 2 200

[100] Requires light level above or equal to 9