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in: Renewable resources, Blocks, Job blocks, and 4 more

English ▾

Composter

TALK   🔒 VIEW SOURCE   ⋮

A **composter** is a block that converts some biological material into bone meal. It also serves as a farmer villager's job site block.

Composter	
Empty Full	

View all renders

Renewable	Yes
Stackable	Yes (64)
Tool	
Blast resistance	0.6
Hardness	0.6
Luminous	No
Transparent	Yes
Flammable	Yes (5)
Catches fire from lava	Yes

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Obtaining

Composters can be broken using any tool, though an axe is the fastest. The composter does not retain the compost inside; instead, it drops empty.

Block	Composter
Hardness	0.6
Tool	
Breaking time[A]	
Default	0.9
Wooden	0.45
Stone	0.25
Iron	0.15
Diamond	0.15
Netherite	0.1
Golden	0.1

1. Times are for unenchanted tools as wielded by players with no status effects, measured in seconds. For more information, see Breaking § Speed.

Crafting

Ingredients	Crafting recipe
Any wood Slab	

Natural generation

Composters generate in village farms.

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Usage

Composters can be used to recycle food and plant items (excluding bamboo[1], poisonous potatoes[2], dead bushes[3], meat, and fish) into bone meal. To do so, the player must use any of a selection of items on the composter. When an adjacent comparator is facing away from the composter, a comparator signal strength of up to 8 is emitted depending on the fullness of the block. Composters appear to have an empty interior. As such, entities can enter and exit a composter through the top, but not the sides or bottom. The composter has a "floor", whose height depends on the fullness. When the composter is completely empty, this floor is slightly above the block below, and when it is completely full, there is a slight dip on top. When the composter's fullness increases, any entities inside are pushed up accordingly. [*Bedrock Edition only*]

Composting

The composter can be filled with compost, which is done by adding compostable items to it. When successfully adding an item, a green particle ( ) appears. The table below lists supported items, which have different levels of compost-ability. The higher the percentage of an item, the more likely it is for it to add another layer of compost. Each layer of compost has a podzol-like appearance. When the composter reaches the 7th layer of compost, the compost changes appearance indicating that bone meal can be collected by using the composter a final time.

The following table shows the items that can be used in a composter, the percent chance for an item to add a level of compost, and the average number of items needed to fill a composter. Smaller pieces (individual pieces of wheat, melon slices, etc.) produce more compost than the blocks or other items that can be made from them. The exception is cookies, because each recipe produces 8 cookies, and together those give more than 3 times the compost.

Composting chance (per item)				
30%	50%	65%	85%	100%
Items				
• Beetroot Seeds • Dried Kelp • Glow Berries • Grass • Grass Block[*BE only*] • Hanging Roots • Mangrove Roots • Kelp • Leaves • Melon Seeds • Moss Carpet • Pink Petals • Pitcher Pod • Pumpkin Seeds • Saplings • Seagrass • Small Dripleaf • Sweet Berries • Torchflower Seeds • Wheat Seeds	• Cactus • Dried Kelp Block • Flowering Azalea Leaves • Glow Lichen • Melon Slice • Nether Sprouts • Sugar Cane • Tall Grass • Twisting Vines • Vines • Weeping Vines	• Apple • Azalea • Beetroot • Big Dripleaf • Carrot • Cocoa Beans • Ferns • Flowers • Fungus • Lily Pad • Melon • Moss Block • Mushrooms • Mushroom Stem • Nether Wart • Potato • Pumpkins • Roots • Sea Pickle • Shroomlight • Spore Blossom • Wheat	• Baked Potato • Bread • Cookie • Flowering Azalea • Hay Bale • Mushroom Blocks • Nether Wart Block • Pitcher Plant • Torchflower • Warped Wart Block	• Cake • Pumpkin Pie
Average items to complete compost				
23.33	14.00	10.77	8.24	7.00

Average compost yield (per stack)				
2.74	4.57	5.94	7.77	9.14

Changing profession

If a village has a composter that has not been claimed by a villager, any resident villager who has not already chosen a job site block has a chance to change their profession to farmer.

Redstone component

> *See also: Redstone circuit*

A composter can act as a power source for a redstone comparator. With a composter behind it (either directly, or separated by an unpowered solid block), a comparator outputs a signal strength between 0 and 8, proportional to how full the composter is: 0 for empty, 1 for $\frac{1}{7}$ full, 2 for $\frac{2}{7}$ full, and so on to 6. 7 is for completely full but the bone meal is not ready to collect, and 8 for completely full and the bone meal is ready to collect. However, if there is a block between the composter and comparator, the comparator does not immediately update.

Hoppers

Composters can interact with hoppers. A hopper directly below a composter pulls bone meal from it. A hopper or dropper facing downward directly above a composter pushes items into it. See Hopper § Redstone component for more details.

Hoppers cannot interact with the sides of a composter.

Fuel

A composter can be used as fuel in a furnace to smelt 1.5 items.

Note Blocks

Composters can be placed under note blocks to produce "bass" sounds.

Sounds

Generic

Java Edition:

Sound	Subtitles	Source	Description	Resource location	Translation key	Volume	Pitch	[Collapse] Attenuation distance
	Block broken	Blocks	Once the block has broken	`block .wood .break`	`subtitles .block .generic .break`	1.0	0.8	16
	Block placed	Blocks	When the block is placed	`block .wood .place`	`subtitles .block .generic .place`	1.0	0.8	16
	Block breaking	Blocks	While the block is in the process of being broken	`block .wood .hit`	`subtitles .block .generic .hit`	0.25	0.5	16
	None[sound 1]	*Entity-Dependent*	Falling on the block with fall damage	`block .wood .fall`	*None*[sound 1]	0.5	0.75	16

Sound	Source	Description	Resource location	Subtitles	Volume	Pitch	Attenuation distance
	Footsteps	*Entity–Dependent*	Walking on the block	`block.wood.step`	`subtitles.block.generic.footsteps`	0.15	1.0	16

1. MC-177082

Bedrock Edition:

Sound	Source	Description	Resource location	Volume	[Collapse] Pitch
	Blocks	Once the block has broken	`dig.wood`	1.0	0.8-1.0
	Blocks	When the block is placed	`dig.wood`	1.0	0.8
	Blocks	While the block is in the process of being broken	`hit.wood`	0.23	0.5
	Players	Falling on the block with fall damage	`fall.wood`	0.4	1.0
	Players	Walking on the block	`step.wood`	0.3	1.0
	Players	Jumping from the block	`jump.wood`	0.12	1.0
	Players	Falling on the block without fall damage	`land.wood`	0.18	1.0

Unique

Java Edition:

Sound	Subtitles	Source	Description	Resource location	Translation key	Volume	Pitch	[Collapse] Attenuation distance
	Composter empties	Blocks	When a composter is emptied	`block.composter.empty`	`subtitles.block.composter.empty`	1.0	1.0	16
	Composter filled	Blocks	When adding to a composter	`block.composter.fill`	`subtitles.block.composter.fill`	0.3	0.8	16
	Composter filled	Blocks	When successfully adding to a composter	`block.composter.fill_success`	`subtitles.block.composter.fill`	1.0	1.0	16
	Composter composts	Blocks	When composting completes	`block.composter.ready`	`subtitles.block.composter.ready`	1.0	1.0	16
	Farmer works	Friendly Creatures	Randomly while a farmer is working	`entity.villager.work_farmer`	`subtitles.entity.villager.work_farmer`	1.0	0.8-1.2	16

Bedrock Edition:

Sound	Source	Description	Resource location	Volume	[Collapse] Pitch
	Blocks	When a composter is emptied	`block.composter.empty`	1.0	1.0
			`block`		

	Blocks	When adding to a composter	`.composter` `.fill`	1.3	0.8
	Blocks	When adding to a composter [sound 1]	`item.bone_meal` `.use`	1.0	0.9–1.1
	Blocks	When successfully adding to a composter	`block` `.composter` `.fill_success`	1.3	1.0
	Blocks	When composting completes	`block` `.composter` `.ready`	1.0	1.0
	Blocks	Randomly while a farmer is working	`block` `.composter` `.fill`	1.3	0.8

1. MCPE-143005

Data values

ID

Java Edition:

Name	Identifier	Form	Translation key
Composter	`composter`	Block & Item	`block.minecraft.composter`

Bedrock Edition:

Name	Identifier	Numeric ID	Form	Item ID[i 1]	Translation key
Composter	`composter`	468	Block & Giveable Item[i 2]	Identical[i 3]	`tile.composter.name`

1. ID of block's direct item form, which is used in savegame files and addons.
2. Available with `/give` command.
3. The block's direct item form has the same id as the block.

Block states

Composter with different compost levels
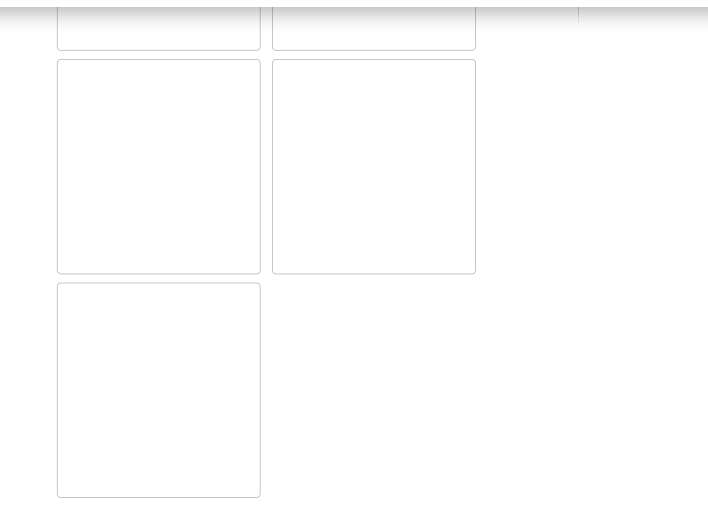
Java Edition:

Name	Default value	Allowed values	Description
level	0	0 1 2 3 4 5 6 7 8	When at level 8, bone meal is able to be collected from the composter.

Bedrock Edition:

Name	Metadata Bits	Default value	Allowed values	Values for Metadata Bits	Description
composter_fill_level	0x1 0x2 0x4 0x8	0	0 1 2 3 4 5 6 7 8	0 1 2 3 4 5 6 7 8	When at level 8, bone meal is able to be collected from the composter.

History

Java Edition		
1.14	**19w03a**	Added composters.
		Composter blocks are found in the Miscellaneous tab in the Creative inventory.[4]
		The crafting recipe of composters is 4 fences and 3 planks.
		Recipe [show]
	19w03b	All mushroom blocks can now be used in composters.
	19w04a	Composters now spawn in village farms.
	19w05a	The chances of composters have been changed from 10/20/50/80/100% to

		30/50/65/85/100%.
	19w11a	Composters now serve as farmer villagers' job site block.
1.15	**19w45a**	The crafting recipe of composters has been changed to match *Bedrock Edition*. **Recipe** [show]
1.16	**20w06a**	Moved composter blocks to the Decoration Blocks tab from the Miscellaneous tab in the Creative inventory.[4]
	20w15a	Weeping vines, twisting vines, roots, nether sprouts, fungi, nether wart, nether wart blocks, and warped wart blocks can now be composted.
	pre3	Shroomlights can now be composted.[5]
1.17	**21w05a**	Azalea, dripleaves, hanging roots, glow berries, moss blocks, moss carpets and spore blossoms can now be composted.
	21w11a	Glow lichen can now be composted.
1.19	**22w11a**	Mangrove propagule can now be composted.
	22w12a	Mangrove leaves can now be composted.[6]
	22w15a	Mangrove roots can now be composted.[7]
1.20 (Experimental)	**23w07a**	Torchflowers, torchflower seeds, and pink petals can now be composted.
Bedrock Edition		
1.10.0	**beta 1.10.0.3**	Added composters.
		Composters are currently available only through Experimental Gameplay.
		The crafting recipe of composters is 7 wooden slabs. **Recipe** [show]
1.11.0	**beta 1.11.0.1**	Added functionality like in Java Edition.
		Added level 8 "content ready" state.
		Changed models of level 0-7.
	beta 1.11.0.3	Composters now support hopper placement.
1.16.0	**beta 1.16.0.57**	Weeping vines, twisting vines, roots, nether sprouts, fungi, nether wart, nether wart blocks, and warped wart blocks can now be composted.
1.16.100	**beta 1.16.100.55**	Shroomlight can now be composted.
1.16.220	**beta 1.16.220.52**	Azalea, dripleaves, glow berries, moss blocks, moss carpet and spore blossoms can now be composted.
1.17.0	**beta 1.16.230.50**	Hanging roots and glow lichen can now be composted.
	beta 1.16.230.54	Small dripleaf can now be composted.
PlayStation 4 Edition		
1.91		Added composters.

Issues

Issues relating to "Composter" are maintained on the bug tracker. Report issues there (https://bugs.mojang.com/issues/?jql=project%20in%20%28M C%2C%20MCPE%29%20and%20%28resolution%20is%20empty%20or%20res olution%20in%20%281%2C%202%2C%206%29%29%20and%20%28summar y%20~%20%22Composter%22%29%20order%20by%20resolution%20desc).
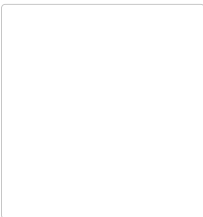
Trivia

- The compost texture is based on the podzol texture.
- If planting crops specifically for composting, potatoes produce somewhat more than beets, carrots, or wheat. However, melons offer nearly the same yield per field space, and do not require replanting after harvest.

Gallery

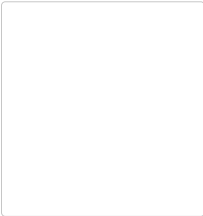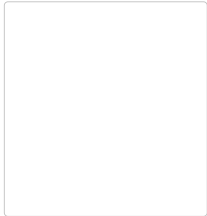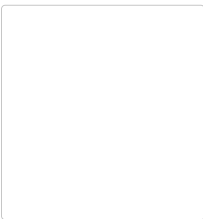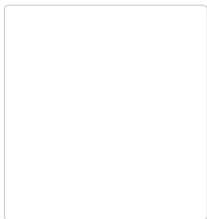### Screenshots
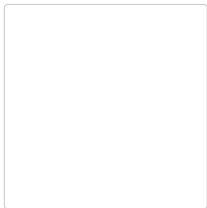
A composter generated in a village

A full and partially filled composter in a farm
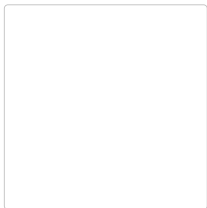
An official screenshot of a composter used on Minecraft.net.[8]

Renders

Java Edition

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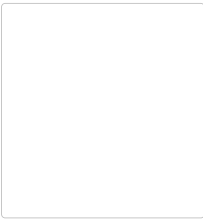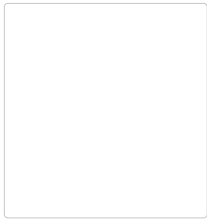
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Bedrock Edition

References

1. MC-142452 — resolved as "Works As Intended".
2. MC-142373 — resolved as "Works As Intended".
3. MC-219904
4. https://bugs.mojang.com/browse/MC-150020
5. MC-177863
6. MC-249303
7. MC-249315
8. https://www.minecraft.net/en-us/article/block-month--composter

External Links

- Block of the Week: Composter (https://www.minecraft.net/en-us/articl
  e/block-week-composter) · Minecraft.net · March 27, 2007

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Blocks	[Collapse]
Natural	[Expand]
Biota	[Expand]
Building	[Expand]
Utility	[Collapse]

Interactable	Anvil (Chipped Damaged) Barrel Beacon Brewing Stand Cartography Table Chest (Ender) Chiseled Bookshelf Crafting Table Enchanting Table Fletching Table Furnace (Blast Smoker) Grindstone Lectern Loom Shulker Box Sign (Hanging) Smithing Table Stonecutter
Utilizable	Banners Beehive Beds Bell Cake (with Candle) Campfire (Soul) Cauldron (Lava Powder Snow Water) **Composter** Conduit End Gateway End Portal End Portal Frame Farmland Flower Pot Frosted Ice Heads Item Frame (Glow) Jukebox Ladder Lodestone Monster Spawner Nether Portal Respawn Anchor Scaffolding Sponge (Wet) TNT
Redstone/**Mechanical**	Button Daylight Detector Dispenser (Dropper) Doors (Trapdoors) Fence Gates Honey Block Hopper Lever Lightning Rod Note Block Observer Piston (Sticky Head Moving) Pressure Plates Rail (Activator Detector Powered) Redstone Wire (Comparator Repeater Lamp Torch) Slime Block Target Trapped Chest Tripwire Hook (Tripwire)
Education Edition **only**	Border Chalkboard Allow Compound Creator Colored Torches Deny
BE & *edu* **only**	Element Constructor Heat Block Lab Table Material Reducer Underwater TNT Underwater Torch

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Commands only	[Expand]
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Unused	[Expand]
Joke features	[Expand]
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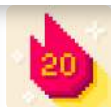Community Central   Help

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