

# Buckwheat (Fagopyrum esculentum)

Buckwheat is a commonly used summer cover that is loved by pollinators and beneficial insects. It is sometimes planted as a companion crop or living mulch in order to provide habitat for beneficial insects. It will emerge rapidly and grows quickly, but is not drought tolerant. It will produce viable seed in as little as 30 days and will reseed. Due to this quick growth it is an ideal cover crop for growers that may have a short window between plantings and would like to have some type of ground coverage. Late plantings in August will not produce as much biomass as earlier plantings. Farmers use it most often in summer cover crop mixtures.

### **Recommended Varieties**

Variety	Reasons Why	Source
Mancan	Good growth and larger seeds, stems, and leaves.	Jimmy Carter Plant Materials Center data, Southeast AgriSeeds
Lifago	Larger leaves and later bloom.	Southeast Agriseeds

### **Planting Information**

Information	Comments	Source
Drilled Seed	1/2 - 1 1/2	Managing Cover Crops Profitably
Depth (inches)		
Drilled Seeding	40 - 60	Managing Cover Crops Profitably
Rate (lbs/acre)		
Broadcast	90 - 100	ARS Fact Sheet
Seeding Rate		
(lbs/acre)		

#### **Termination Information**

Information	Source
Most vegetable farmers use mowing and incorporation for termination. Flail mowers provide the finest residue and most even distribution, but rotary mowers can be used. Small scale farmers can use weed-eaters on smaller beds. Residue should be incorporated as soon after mowing as possible. Leave at least 2 weeks for residue to decompose before planting. Because plants are succulent compared to other cover crops, decomposition is fairly quick. Decomposition is greater in moist, warm conditions. If the soil is dry then irrigation may be necessary. Cool soils conditions will lengthen time needed before planting.	Managing Cover Crop Profitably
Terminate within 7-10 days of flowering to reduce seed setting and germination.	
Buckwheat is frost sensitive, but will not winterkill before setting viable seeds.	

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#### **Cultural Traits**

Traits	Comments	Source
Typical Dry	1,000 - 4,000	ARS Fact Sheet, Jimmy Carter
Matter Range		Plant Materials Center data,
(lbs/acre)		Managing Cover Crop Profitably
Typical Total	Not applicable	
N Range		
(lbs/acre)		
Life Cycle	Summer annual	
	legume	
Growth Habit	Upright	
Preferred Soil	5.5 - 6.5	Midwest Cover Crops Council
рН		Selector Tool
Relative Seed	\$\$\$\$	Based on survey of seed costs
Cost (\$/acre)		using maximum price and max
		seeding rate
Min.	50°	Midwest Cover Crops Council
Germination		Selector Tool
Temp (F)		
Cautions	Reseeds easily. Kill as soon as flowers begin.	USDA Buckwheat Plant Guide;
	Do not use if field has a nematode problem. Buckwheat can	Clemson
	harbor lesion nematodes.	

#### Sources:

ARS Fact Sheet:

https://iapreview.ars.usda.gov/SP2UserFiles/Place/60100500/FactSheets/FS04k.pdf

Jimmy Carter Plant Materials Center Annual Reports:

https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ga/plantsanimals/?cid=nrcs144p2 022076

Managing Cover Crops Profitably: https://www.sare.org/Learning-Center/Books

Midwest Cover Crops Council Selector Tool - Missouri Data:

http://mccc.msu.edu/covercroptool/covercroptool.php

Southeast AgriSeeds:

http://www.southeastagriseeds.com/cover-crops/

USDA Buckwheat Plant Guide:

https://plants.sc.egov.usda.gov/plantguide/pdf/pg faes2.pdf