

# iGuide

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*Broad leaf weeds  
in crops.*



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*(in order of common name)*

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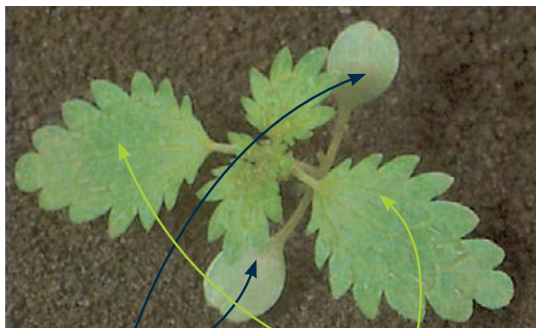
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# Weed Identification Guide

Controlling emerged weeds in crops can be challenging. Targeting weeds with herbicides while they are small is ideal as they are more easily controlled at lower rates. This guide is designed to assist with identifying seedling weeds through the shape of their cotyledon and first true leaf shapes.



Cotyledons

1st true leaves

The weeds are sorted by the general shape of the cotyledons (e.g round, spear etc). The description of the cotyledons can then be used to further assist with identification.

As shown below the key differentiators are the tip (apex) and base shapes as well as the stalk (or lack of) of the cotyledons. Descriptions of the first leaves are also provided to aid identification.

## APEX



rounded



pointed



flat



indented



notched

## BASE



rounded



indented



notched



flat



tapered

# Redroot

(*Amaranthus powellii*)



club  
narrow



## COTYLEDONS

Apex slightly pointed,  
base tapered, stalked.

## LEAVES

Oval to rhombic,  
notched at tip,  
reddish stem.

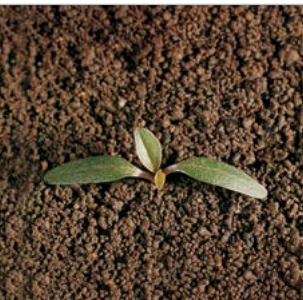


# Prostrate amaranth

(*Amaranthus deflexus*)



club  
narrow



## COTYLEDONS

Apex slightly pointed,  
base tapered, stalked.

## LEAVES

Round to oval,  
notched.



# Bathurst bur

(*Xanthium spinosum*)



club  
narrow



## COTYLEDONS

Apex rounded,  
base tapered,  
stalkless.

## LEAVES

Deeply lobed,  
lobes spear shaped.





# Broad-leaved dock

(*Rumex obtusifolius*)



club  
narrow



## COTYLEDONS

Apex rounded,  
base tapered,  
stalkless.

## LEAVES

Broad oval, round tip,  
base flat.



# Cornbind

(*Fallopia convolvulus*)



club  
narrow



## COTYLEDONS

Apex round with mild point, base tapered, stalkless.

## LEAVES

Heart-shaped, indented at the base.



# Twin cress

(*Lepidium didymum*)



club  
narrow



## COTYLEDONS

Apex rounded, tapered base, stalkless.

## LEAVES

First leaves club shaped with long stalks, later leaves single stemmed with multiple leaflets.



# Black nightshade

(*Solanum nigrum*)



## COTYLEDONS

Apex pointed, base tapered, stalked, hairy.

## LEAVES

Oval to egg-shaped, hairy.



# Sow thistle

(*Sonchus oleraceus*)



## COTYLEDONS

Apex rounded, base rounded, stalkless.

## LEAVES

Round to oval, finely toothed margin.



# Storksbill

(*Erodium cicutarium*)



## COTYLEDONS

Violin-shaped,  
apex rounded,  
base indented,  
long-stalked.

## LEAVES

Elongated, lobed.





# Wild radish

(*Raphanus raphanistrum*)



heart



## **COTYLEDONS**

Apex notched,  
base rounded, stalked.

## **LEAVES**

Long stemmed,  
notched with first  
leaves having leaflets.



# Wild turnip

(*Brassica rapa sylvestris*)



kidney



## COTYLEDONS

Apex notched,  
base flat, stalked.

## LEAVES

Long stemmed, oval  
shaped with round  
tips, shallow notches.





# Spurrey

(*Spergula arvensis*)



## COTYLEDONS

Very slender, needle-shaped, standing diagonally upward.

## LEAVES

Rod-like, pointed.



# Wireweed

(*Polygonum aviculare*)



## COTYLEDONS

Long, apex rounded, base not tapered, stalkless.

## LEAVES

Thin spear-shaped, rigid.



# Apple of Peru

(*Nicandra physalodes*)



oblong



## COTYLEDONS

Apex rounded,  
base tapered, stalked.

## LEAVES

Egg-shaped with  
prominent veins.



# Fathen

(*Chenopodium album*)



## COTYLEDONS

Long and slender, apex rounded, stalked.

## LEAVES

Oval to egg-shaped, sugar-like crystals on new leaves.



# Groundsel

(*Senecio vulgaris*)



## COTYLEDONS

Apex rounded,  
base tapered,  
stalkless.

## LEAVES

Egg-shaped,  
fleshy, toothed.



# Willow weed

(*Persicaria maculosa*)



## COTYLEDONS

Apex rounded, base rounded, stalked.

## LEAVES

Long spear-shaped, often dark spots on upper surface.





# Water pepper

(*Persicaria hydropiper*)



## COTYLEDONS

Apex rounded, base rounded, stalked.

## LEAVES

Long oval to spear-shaped slightly crinkled with pale veins.



# Chickweed

(*Stellaria media*)



## **COTYLEDONS**

Light green, apex pointed, base rounded, stalked.

## **LEAVES**

Opposite in pairs, ovate with pointed tip.





# Cleavers

(*Galium aparine*)



## COTYLEDONS

Apex notched, base rounded, short-stalked.

## LEAVES

Lanceolate, broad in front, tapered at the base, whorled.



# Mouse ear chickweed

(*Cerastium glomeratum*)



## COTYLEDONS

Apex pointed, base tapered, stalkless.

## LEAVES

Oval with pointed tips, hairy.



# Rayless chamomile

(*Matricaria discoidea*)



## **COTYLEDONS**

Apex rounded to a point, stalkless.

## **LEAVES**

Slender, featherlike with spear-shaped leaflets.



# Scentless chamomile

(*Tripleurospermum inodorum*)



## **COTYLEDONS**

Apex rounded, base rounded, short-stalked.

## **LEAVES**

First leaves broader leaflets, later leaves more slender with multiple leaflets.



# Shepherd's purse

(*Capsella bursa-pastoris*)



## COTYLEDONS

Apex rounded, base rounded, short-stalked.

## LEAVES

Early leaves spoon/oblong-shaped, stalked.



# Stinking mayweed

(*Anthemis cotula*)



oval

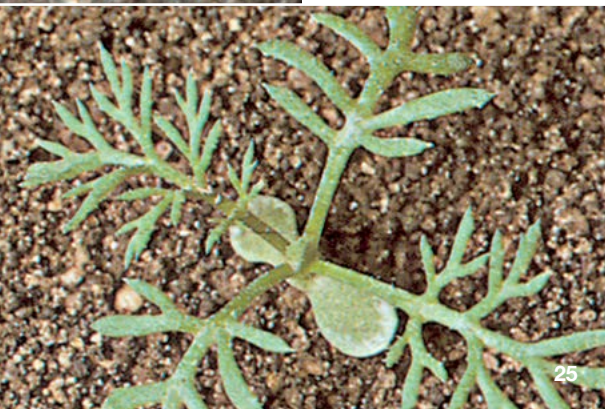


## COTYLEDONS

Apex rounded to flat, stalkless.

## LEAVES

Two or more leaflets on long stalk, leaflets pointed.





# Californian thistle

(*Cirsium arvense*)



round



## **COTYLEDONS**

Wide, apex rounded, stalkless.

## **LEAVES**

Oval, notched with prickles.



# Broad-leaved fleabane

(*Conyza sumatrensis*)



round



## **COTYLEDONS**

Apex rounded, base rounded, stalkless.

## **LEAVES**

Oval, tapered to the base, hairy.





# Field pansy

(*Viola arvensis*)



round



## COTYLEDONS

Apex rounded, base rounded, short-stalked.

## LEAVES

Round to oval, sparsely notched.



# Henbit

(*Lamium amplexicaule*)



round



## COTYLEDONS

Apex flat, base notched, stalked.

## LEAVES

Heart-shaped, toothed, lower leaf pairs wide apart.



# Nettle

(*Urtica urens*)



round



## COTYLEDONS

Apex notched, base rounded, stalked.

## LEAVES

Oval, strongly toothed with stinging prickles.



# Staggerweed

(*Stachys arvensis*)



round

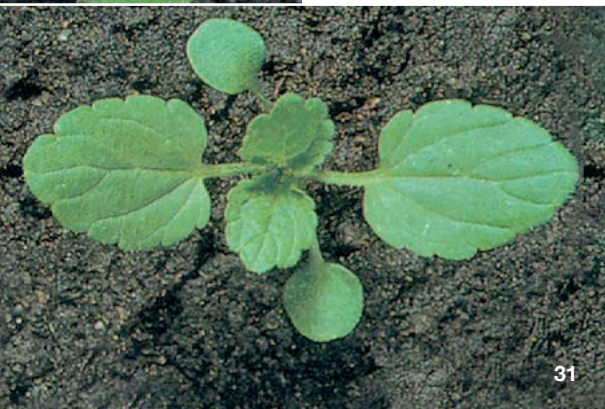


## COTYLEDONS

Apex indented,  
base flat, stalked.

## LEAVES

Heart-shaped,  
toothed, hairy.



# Bitter cress

(*Cardamine hirsuta*)



## COTYLEDONS

Apex indented, base flat, stalked.

## LEAVES

Broad oval becoming deeply notched with extra leaflets on stalk.



# Buttercup - creeping

(*Ranunculus repens*)



round



## COTYLEDONS

Apex blunt, base flat, stalked.

## LEAVES

Round becoming deeply divided into three toothed leaflets.





# Large-flowered mallow

(*Malva sylvestris*)



spade



## **COTYLEDONS**

Apex flat, base indented, stalked.

## **LEAVES**

Round with irregular notches, indented at the base.



# Speedwell - scrambling

(*Veronica persica*)



spade



## COTYLEDONS

Apex rounded, base flat, stalked.

## LEAVES

Triangular-shaped, notched at the edges.





# Fumitory

(*Fumaria spp*)

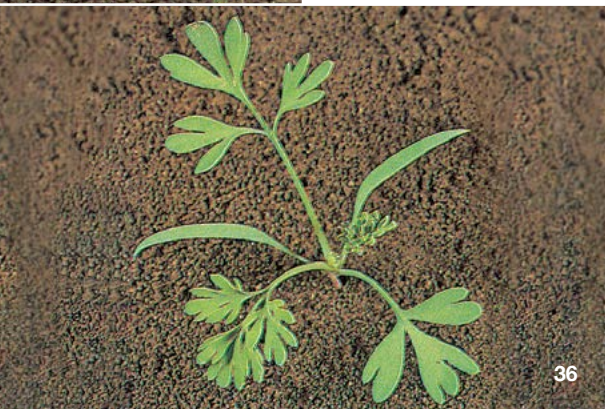


## COTYLEDONS

Slender, long. Apex pointed. Base tapered. Stalkless.

## LEAVES

Long stalked with three leaflets. Featherlike.



# Thorn apple

(*Datura stramonium*)



## **COTYLEDONS**

Long, slender. Apex pointed. Base tapered, short-stalked.

## **LEAVES**

Broad arrow shaped, later with blunt teeth.



# Wild carrot

(*Daucus carota*)



## COTYLEDONS

Narrow, apex pointed, base tapered, stalked.

## LEAVES

Deeply dissected and fern-like.



# Yarrow

(*Achillea millefolium*)



## **NO COTYLEDONS**

Usually grows from root fragments.

## **LEAVES**

Long and feather-like.



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