

A glovebox guide to identifying pasture plants of East Gippsland







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Every effort has been made to ensure that the information in this document is accurate at the time of publication. However, as appropriate, readers should obtain independent advice before making any decision based on this information.

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The Top Soils Project

This glove box guide is an information resource produced as part of Top Soils.

Top Soils is a multi partner East Gippsland region project focused on improving soil condition for farm profitability through farmer driven focus groups and research sites.



The aim of the project is to encourage and support change towards best practice in soil health.

Top Soils 1 was developed in 2013 as a 5 year project and was highly successful, enabling Top Soils 2 (1 July 2018 to June 30 2023) to continue the project's good work.

The need for the project was determined through the Australian Bureau of Statistics data that showed that sustainable land management practices were not widely adopted in the East Gippsland region. The first few years saw partner agencies gather soil and plant data across well over 100,000 hectares in East Gippsland to benchmark (then) current soil condition, soil fertility and farming practices. Top Soils 2 will see some of these sites retested to determine change over the 10 years of the project.

Following the collation of soil and plant data, was the establishment of 5 farmer driven focus groups, each group based in a separate geographical area across the region; Plains, Foothills, High Country, Far East and Deddick/Bendoc. There was also the development of a number of research and demonstration sites investigating the effects of nutrients and strategic grazing on weed loads in native pasture systems, the effects of nutrients and rotational grazing on weed loads in improved pasture systems and soil requirements including micro and macro nutrients.

The Top Soils program is supported by the East Gippsland Catchment Management Authority through funding from the Australian Government's National Landcare Program. Project partners include,

Southern Farming Systems, Agriculture Victoria, East Gippsland Landcare Network, Far East Victoria Landcare and Snowy River Interstate Landcare Committee.



Introduction

Across East Gippsland our food and fibre industries rely on good pastures, both native and introduced. Maintaining healthy pastures is important for stock, provides suitable groundcover, and helps manage issues such as salinity and erosion.

But do you know what plant you're looking at when out in the paddock?

Understanding your different pasture plants can help determine what plants provide good nourishment for stock, identifying what are invasive plants that may need to be controlled and to understand plant life cycles to ensure sustainable feed year-round.

About this book

The purpose of this book is to provide an easy reference guide to the most commonly seen grasses, clovers and other herbs that East Gippsland pastures grow.

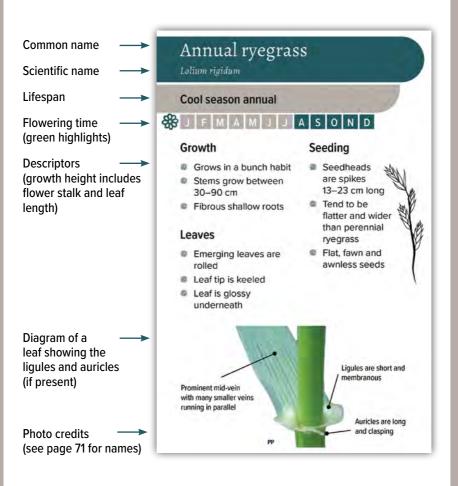
Each group of plants can be quickly identified by their colour code and identifying symbol.



Identifying pastures

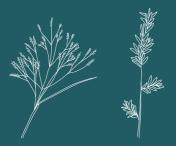
Each plant in this book includes easy to follow descriptions of plant physiology (growth, leaves, flower heads, flowers, seeding), their active flowering times as well as diagrams and photos to help you identify the plant you're looking at when in the paddock.

To help understand the technical terminology used in the descriptions, a glossary has been prepared (see page 72).





In the paddock, grasses can be hard to tell apart. It is easier to identify them when in their flower or seeding cycle. This book refers to the flower head structure to help with grass identification.



Open or closed panicles

A panicle is a multiple branching of spikelets off the main axis. Branching can be clustered or closed; it can also be loose or open.



Spike or Raceme

On a spike, the main axis does not branch and the spikelets are stalkless. A raceme's spikelets are also stalkless.



Primary axis of Racemes

Several branches carrying racemes emerge from the main axis or stem.



Branches carrying spikelets radiate like fingers from one point.

Spatheate

Leaf-like bracts often surround the seedhead.



What grass are you looking for?

Great brome	8
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Great brome

Bromus diandrus

Annual



Growth

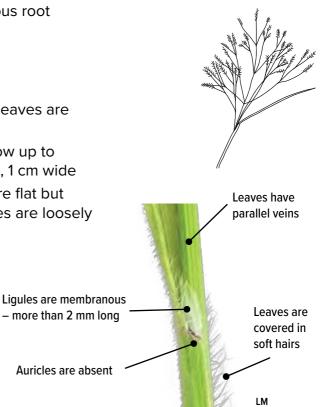
- Grows in bunches
- Grass can grow up to 80 cm tall
- Large fibrous root system

Leaves

- Emerging leaves are rolled
- Leaves grow up to 15 cm long, 1 cm wide
- Leaf tips are flat but often leaves are loosely folded

Flower head

- Seeds have long awns
- A loose drooping open panicle up to 15 cm long





Rhodes grass

Chloris gayana

Perennial



Growth

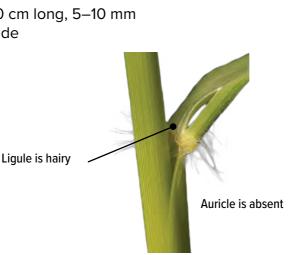
- Tufted grass 1–2 m tall
- Spreads by stolon growth (runners) above ground

Flower head

- Digitate structure with 10-20 spikes
- Spikes 4–15 cm long
- Seeds light and fluffy, 3.5 mm long

Leaves

- Emerging leaves are • folded and flat when mature
- Leaves are hairless and 40 cm long, 5–10 mm wide



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Cocksfoot

Dactylis glomerata

Perennial

🔆 J F M A M J J A S O N D

Growth

- Grows in bunches
- Seed heads can grow up to 130 cm tall, smaller in dryland conditions
- Deep root structure

Leaves

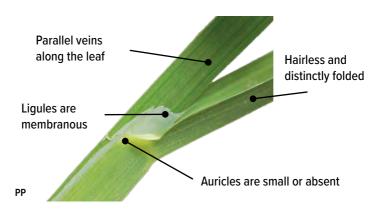
- Leaves are grey/blue greenish colours
- 50 cm long, 12 mm wide
- Leaf tip is flat and pointed

Flower head

Densely clustered closed panicle when it first emerges and becomes more open and branched with maturity



Seeds are very small, narrow, smooth and pale yellow







Tall fescue

Festuca arundinacea

Perennial



Growth

- Grows in bunches
- Depending on cultivar it can grow between
 10 cm and 2 metres
- Deep rooted

Leaves

- Emerging leaves are rolled
- Leaves are often shiny
 underneath
- 60 cm long, 12 mm wide
- Leaf tip is pointed

Flower head

- Seed spikelets have 4–8 florets with or without awns
- Open panicles are 10– 30 cm long





Leaves have many deep veins running in parallel

Auricles are absent

Ligules are short 0.5–2 mm long and membranous

EAST GIPPSLAND PASTURES

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Perennial ryegrass

Lolium perenne

Perennial



Growth

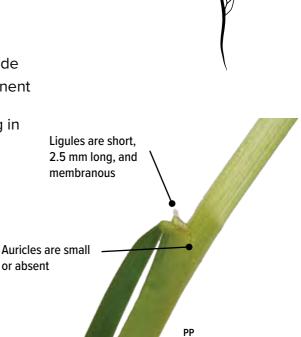
- Grows in a bunch habit
- Stems grow between 30–90 cm
- Fibrous shallow roots

Leaves

- Emerging leaves are folded
- 20 cm long, 5 mm wide
- Leaves have a prominent mid vein with many smaller veins running in parallel
- Leaf tip is keeled
- Leaf is glossy underneath

Flower head

- Seedhead spikes to 30 cm long
- Seeds are flat and awnless





Annual ryegrass

Lolium rigidum

Annual



Growth

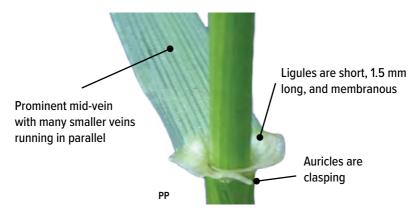
- Grows in a bunch habit
- Stems grow between 30–90 cm
- Fibrous shallow roots

Leaves

- Emerging leaves are rolled
- 20 cm long, 8 mm wide
- Leaf tip is keeled
- Leaf is glossy underneath

Flower head

- Seedheads are spikes 13–23 cm long
- Tend to be flatter and wider than perennial ryegrass
- Flat, fawn and awnless seeds





Paspalum

Paspalum dilatatum

Perennial

🛞 J F M A M J J A S O N D

Growth

- Grows in bunches
- Tall grass that grows to 1.5 m in height
- Fibrous roots with short rhizomes around the plant

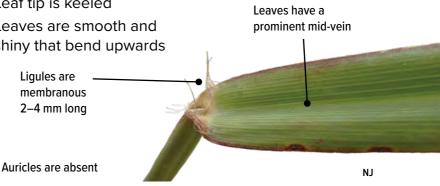
Leaves

- Emerging leaves are rolled, flat when mature
- Leaves are dull to dark green, 20 cm long and 15 mm wide
- Leaf tip is keeled
- Leaves are smooth and shiny that bend upwards

membranous 2-4 mm long

Flower head

- Erect or drooping primary axis of up to 11 racemes
- Seeds are contained within small, hard, shiny, brown seed pods





Kikuyu Cenchrus clandestinus

Perennial



Growth

- Grows underground rhizomes and above ground stolons (runners)
- Grows up to 30 cm long
- Deep connecting roots form a dense mat

Flower head

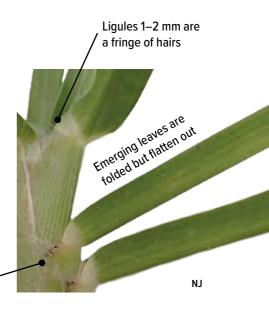
- Seeds form inside leaf sheath
- Seeds are dark brown and oval shaped

Leaves

- Obvious mid-vein with smaller parallel veins
- Leaf tip slightly keeled but can appear flat
- Bright green
- Commonly around 5 cm long, 6 mm wide with scattered hairs

Auricles are absent

Leaf sheath is densely hairy





Phalaris

Phalaris aquatica

Perennial



Growth

- Grows in bunches
- Can grow to 1–2 m at maturity
- Deep rooted

Leaves

- 30 cm long, 20 mm wide
- Leaf tip is keeled

2 cm leaves

 Leaves are hairless and primarily arise from the base of the plant

Flower head

- Dense spikelike closed panicle above the leaves
- Flat, smooth and shiny seeds that are a cream to pale brown in colour



Emerging leaves are rolled Parallel veins along the long and wide Ligules are prominent and membranous Leaf sheaths are often 2–12 mm long a reddish colour PP Auricles are absent



Wallaby grass

Rytidosperma spp.

Perennial



Growth

- Grows in bunches
- Grows from 20–100 cm tall
- Large fibrous root system

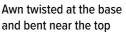
Leaves

- Emerging leaves are folded
- Leaves are grey-green to dark green and often hairy

Flower head

- Closed panicle that is fluffy at maturity
- Oval seeds have fluffy white hairs









Rough spear grass

Austrostipa scabra

Perennial



Growth

- Tufted grass with coarse stems
- Grows to 60 cm tall

Leaves

- Emerging leaves are folded or rolled and rough to touch
- 30 cm long

Ligules hairy,

0.5–1.5 mm long

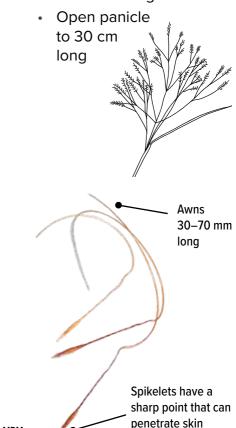
Auricles of upper leaves

usually less

than 1 mm long

Flower head

 Spikelets are 8–15 mm long



EAST GIPPSLAND PASTURES

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Common windmill grass

Chloris truncata

Perennial, short-lived

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Growth

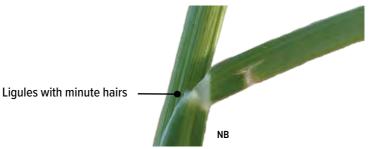
- Tufted grass that grows in bunches/tussocks
- Can be stoloniferous
 (creates runners)
- Grows to 40 cm tall
- Also called umbrella grass

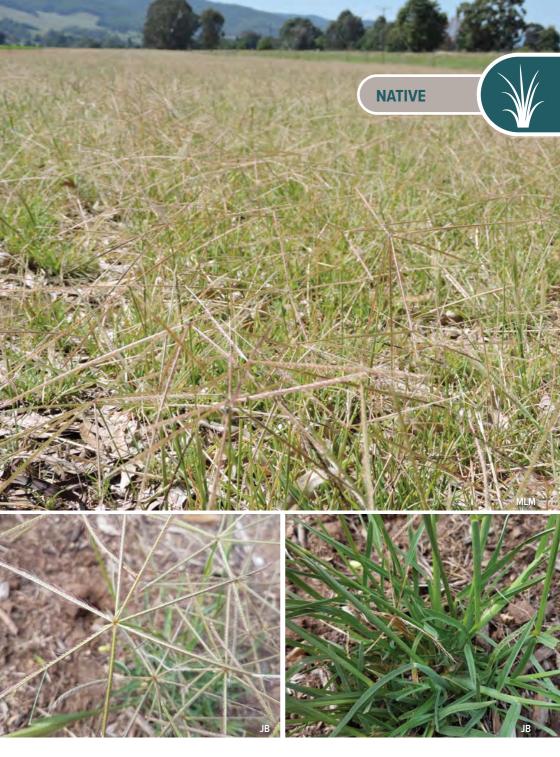
Leaves

- Emerging leaves are folded
- Coarse 15 cm long and 5 mm wide leaves
- Pale green-blue and hairless

Flower head

- Umbrella-like digitate
 seedhead
- 5–10 hairy spikes,
 5–17 cm long
- Seed spikelets are arranged alternatively in rows - the lower bisexual, the upper sterile
- Spikelets are blackish when mature





Couch grass

Cynodon dactylon

Perennial

🛞 J F M A M J J A S O N D

Growth

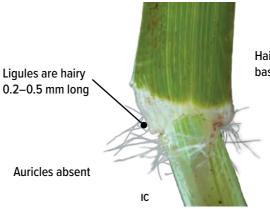
- Mat-forming with both rhizome growth underground and stoloniferous (runners) growth above ground
- Grows to 30 cm tall

Leaves

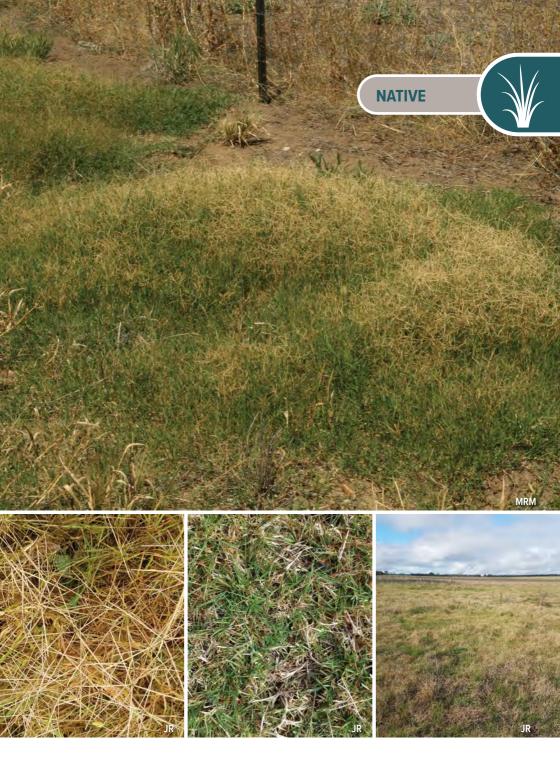
 Short 2–15 cm long leaves

Flower head

- Umbrella-like digitate
 seedhead
- 3–7 small branches, each 2–
 6 cm in length
- Seed spikelets are awnless and purple-black in colour



Hairs located at the base of leaves



Weeping grass

Microlaena stipoides

Perennial



Growth

- Tufted grass
- Can have short rhizome growth, forming mats
- Grows to 60 cm tall, often shorter

Leaves

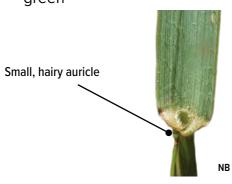
- Emerging leaves are flat with a notched tip
- Semi-spreading leaves that are 2–20 cm long and 1–12 mm wide
- Lime-green or bluegreen

Flower head

 Narrow raceme or panicle, 5–
 18 cm long that has a weeping appearance when expanded



- Including awns, spikelets are 13–40 mm long
- Spikelets are green to dark purplish-brown





Kangaroo grass

Themeda triandra

Perennial



Growth

- Tufted grass with deep root system
- Can have short rhizome growth, forming mats
- Grows 60–150 cm tall and up to 50 cm across

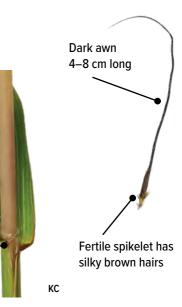
Leaves

- Emerging leaves are folded at the base becoming flat
- 15–50 cm long and 2–5 mm wide
- Blue-green when growing maturing to reddish-brown

Short, membranous ligules tufted at each end with long hairs

Flower head

- Spatheate panicle 10–25 cm long with drooping appearance
- Spikelets are reddishbrown



EAST GIPPSLAND PASTURES



Bent grass

Agrostis capillaris

Perennial



Growth

- Mat-forming, tufted grass with rhizome growth underground
- Occasionally has stoloniferous (runners) growth above ground
- Grows to 70 cm tall

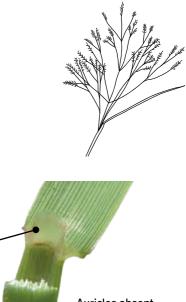
Leaves

- Grey-green, fine leaves
 1–5 mm in width and
 40 cm in length
- Leaves are folded when young, flat when mature

Ligules present, mainly 1–2mm long

Flower head

- Open panicle 2–20 cm long
- Purplish-brown spikelets are small, 2–3.5 mm long



Auricles absent

NB



Barley grass

Hordeum leporinum

Annual



Growth

- Tufted annual grass to 50 cm high
- Stems are often branched at the base
- Large fibrous root system

Leaves

- Emerging leaves are • rolled
- 4–15 cm long, 2–8 mm wide
- Parallel veins run along leaf and taper off at the flat tip
- Upper leaves have a few fine soft hairs

Flower head

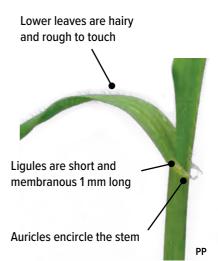
Dense cylindrical spikes 3–10 cm long

Seeds have

rough awns

(bristles) of

varying lengths





Winter grass

Poa annua

Annual – perennial and biennial biotypes

🛞 J F M A M J J A S O N D

Growth

- Grows in bunches
- Small plant which grows to 30 cm
- Tap root

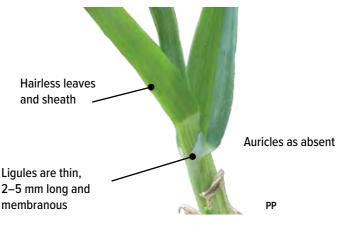
Leaves

- Emerging leaves are folded
- 12 cm long, 5 mm wide
- · Leaf tip is keeled

Flower head

- Pyramid-shaped open panicle 1–12 cm long
- Seeds are about 3 mm long with fine hairs covering the outer casing



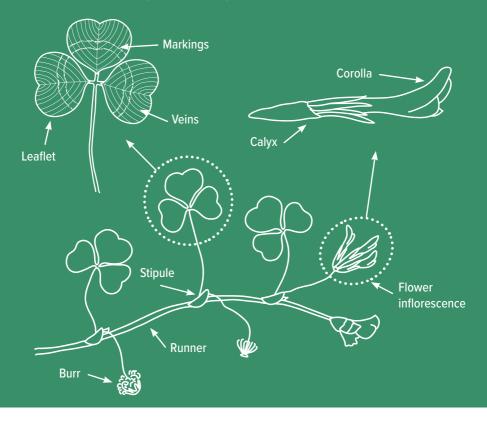


EAST GIPPSLAND PASTURES





All clovers belong to the family Fabaceae—or pea family. This means that they have the ability to fix (make available) nitrogen in the soil through nodules located on their roots. Clovers are known for their tri-lobed leaves and can be distinguished by their shape and patterning. Most clovers have a globe-like flower inflorescence (many small flowers grouped together).



What type of clover are you looking for?

Medic	46
Strawberry clover	48
White clover	50
Persian clover	52
Sub-clover	54
Arrowleaf clover	56

Medic

Medicago spp.

Annual

🛞 J F M A M J J A S O N D

Growth

- Sprawling, low-growing herb
- Strong taproot
- Also known as Burr medic
- Lucerne falls within the genus *Medicago*

Leaves

- 3 leaflets located on the end of each leaf stalk, with the middle leaflet having a longer stalk
- Leaflets 4–25 mm long

Flowers

 Single, yellow, pea-like flowers 3–6 mm long

- Seed pods are coiled into a cylindrical burr
- Each pod is 2–12 mm long and 3–8 mm wide, hairless but do contain spines 2–4 mm long
- Pods contain 1–2 brown, kidney-shaped seeds



Strawberry clover

Trifolium fragiferum

Perennial



Growth

- Low growing, spreading by stolons (runners) and sometimes forming mats
- Stems to 40 cm long
- Strong taproot

Leaves

- 3 oval-shaped leaflets
 5–30 mm long and
 3–15 mm wide
- Leaflets have a minor toothed edge

Flowers

- Inflorescence of pinkish flowers 8–20 mm diameter
- After flowering the calyx (outer part of flowers) swells, giving a strawberry-like appearance

Seeding

 Seed pods are 2 mm long containing 1 or 2 seeds



White clover

Trifolium repens

Perennial



Growth

- Low growing, creeping, hairless stems
- Stems to 10–30 cm long
- Spreads by sending out underground rhizomes and above ground stolons (runners)

Leaves

- 3 largely circular-shaped leaflets 6–40 mm long and 10–30 mm wide
- Leaflets are hairless and have a minor toothed edge
- Leaflets have a pale crescent-shaped markings

Flowers

- Round globluar flower heads have a white to pinkish colour
- 15–35 mm diameter

- Seed pods are oblong, 4 mm long containing 1–7 seeds
- Seeds are yellow-brown and 1 mm wide



Persian clover

Trifolium resupinatum

Annual



Growth

- Low growing habit
- Hairless stems to 80 cm long
- Nitrogen-fixing nodules located on both the taproot and the lateral roots

Leaves

- 3 drop-shaped leaflets
 5–50 mm long and 3–20 mm wide
- Leaflets are hairless and sharply toothed

Flowers

- Pink to purple flower heads
- 5–15 mm diameter

- Seed pods are oblong,
 2 mm long and enclosed within a woolly burr
- Seeds are dark brown and 1.5 mm wide



Sub-clover

Trifolium subterraneum ssp.

Annual



Growth

- Low-lying with branched stems 10–35 cm long
- Stems are slightly hairy
- Taproot with nitrogenfixing nodules located on the lateral roots

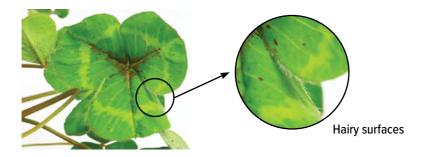
Leaves

- 3 heart-shaped leaflets
 8–25 mm long and wide
- Central vein is dominant
- Hairy on both surfaces
- Leaflets have pale patterned markings

Flowers

- White with pink to red stripes flowers 6–11 mm long
- Few flowers are fertile

- 3–8 seed pods are coiled into a burr that is usually buried in the soil
- Each 3 mm long pod contains a single seed
- Seeds are dark brown to black and 1–3 mm long





Arrowleaf clover

Trifolium vesiculosum

Annual



Growth

- Stems are erect or spreading, up to 60 cm tall
- Taproot with nitrogenfixing nodules located on the lateral roots

Leaves

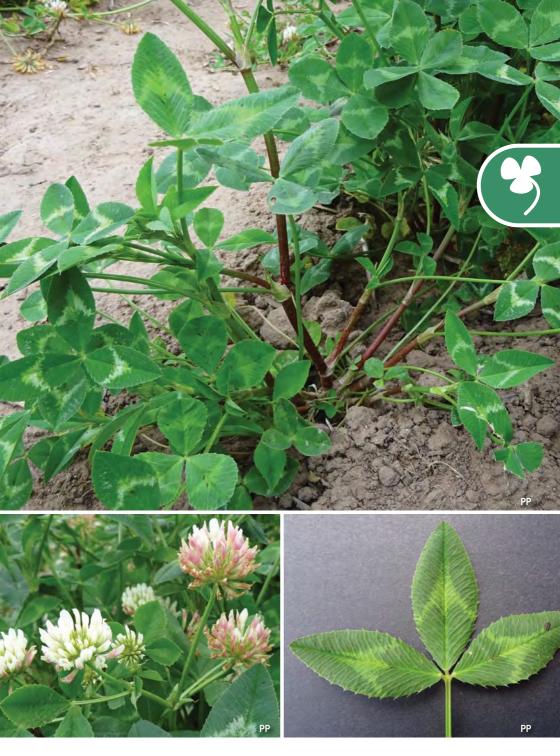
- 3 diamond-shaped leaflets 15–40 mm long by 5–15 mm wide
- · Finely toothed edges
- Leaflets have pale green to white patterned markings

Flowers

White to pink flowers
 3–6 mm long and
 2–3.5 mm wide

Seeding

 Seed pods are 4 mm long containing 2 or 3 seeds



Other pasture plants

Other herbaceous pasture plants includes any species that does not fit the grass or clover categories. The key species chosen for this category include legumes and sedges. Some of these species can be invasive if not managed correctly.

What other plant are you looking for?

Serradella	60
Common vetch	62
Bird's-foot trefoil	64
Nutgrass	66
Onion grass	68

Serradella

Ornithopus spp.

Annual Legume



Growth

- Low spreading growth to 40 cm
- Many-branched and finely hairy
- Deep root system

Leaves

- Oblong leaves situated in pairs (pinnate) of up to 20 along the stem
- Leaves are covered in short, white, fine hairs

Flowers

- Yellow, pea-like flowers about 5 mm long
- Flowers found singular or in groups up to 5

- Seed pods 20–35 mm long and 1.5 mm wide
- Pods usually curved into a hooked beak



Common vetch

Vicia sativa

Annual legume

🛞 J F M A M J J A S O N D

Growth

- Scrambling and climbing growth habit
- Highly branched tap root that can go down to 1–1.5 m deep

Leaves

- Leaves are 2–10 cm long and consist of multiple pinnate leaflets (4–16) arranged
- Leaves end with long tendrils that help climbing

Flowers

- Pink to red-purple pealike flowers
- Mostly paired and located at the base of the leaf

Flower head

- Seed pods 3.5–8 cm long
- Each seed pod contains 8–12 black to brownish flattened, circular seeds



Bird's-foot trefoil

Lotus corniculatus

Perennial legume



Growth

- Weakly erect stems trail across the ground up to 90 cm long
- Deep tap root
- Invasive on infertile soils

Leaves

 Pinnate leaves with 5 leaflets; 2 leaflets are small while 3 are more dominant

Flowers

- Yellow with five petals
- Sometimes red veins in petals
- Groups of 2–8

- Seed pod is 1.5–3 cm long and 2–3 mm wide
- Seeds are small, 1 mm long, greyish-brown to black in colour



Nutgrass

Cyperus rotundus

Perennial sedge



Growth

- Grows by spreading underground through rhizomes
- Grows between 20– 50 cm tall
- Roots are long wiry rhizomes with elliptical tubers or nuts
- Not a true grass

Leaves

- Bright green, long slender grass like leaves
- Prominent vein on the underside
- Shiny, smooth, slightly serrated narrow leaves

Flowers

- Flower head is subdigitate
- Reddish-brown or purplish-brown
- 'Fingers' radiate in an umbrella shape

- Seeds are black, browngrey or olive-green,
- Small, triangular pyramidal nut about 1–1.5 mm long



Onion grass

Romulea rosea

Perennial herb



Growth

- Grows in bunches
- Typically grows between 5–40 cm long
- Fibrous roots extend from bottom of corm (similar to a bulb)
- Not a true grass

Leaves

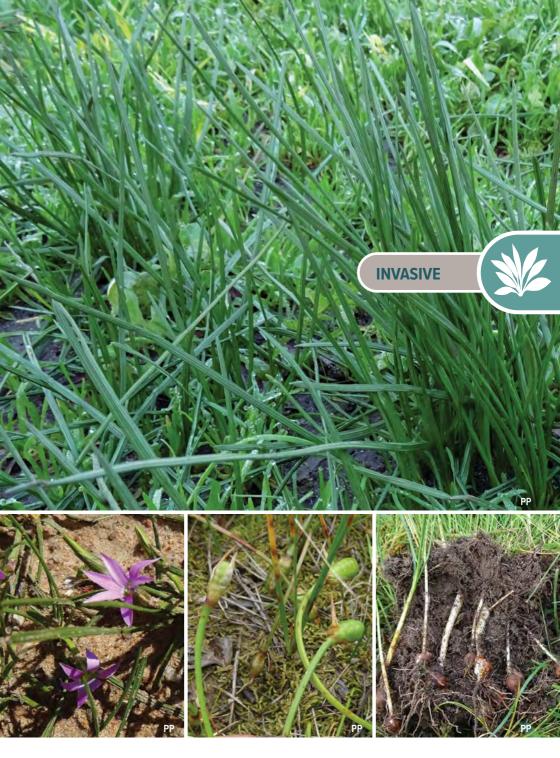
- Grass-like leaves are tightly rolled and appear cylindrical with parallel veins
- 85–65 cm long and 15–2.5 mm wide
- Leaves have two lengthwise grooves on each side
- Dark green and shiny

Flowers

- Pink flowers of 6 petals with a yellow centre
- Flowers are lower than the length of the leaves

Seeding

 Seeds are slightly flattened spheres of a reddish-brown colour



Glossary

Annual: plant life-cycle is completed within one season.

Awn: needle- or bristle-like structures that extend from seeds to aid seed dispersal by animals.

Corm: swollen part of the stem that stores nutrients and grows underground.

Digitate: branches carrying spikelets radiate like fingers from one point.

Floret: a small flower that is part of a larger flower.

Glume: a bract (leaf-like structure) located below a spikelet in the flower clusters of grasses or sedges.

Keeled: leaves or bracts are folded and ridged along the midrib.

Panicle: multiple branching of spikelets off the main axis. Branching can be clustered or closed; it can also be loose or open.

Perennial: plant life-cycle is completed over more than one season.

Pinnate: leaflets are arranged on either side of the stem.

Raceme: spikelets are attached by short stalks directly to a main axis.

Rhizome: an underground root that grows laterally and sends up new shoots from nodes.

Spatheate: leaf-like bracts often surround the seedhead.

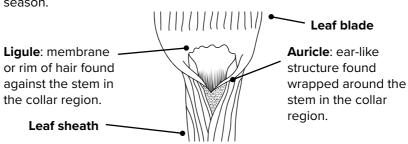
Spike: main axis does not branch and the spikelets are stalkless.

Spikelet: a small or secondary spike in grasses. Describes the typical arrangement of grass flowers.

Stolon: an aboveground stem that grows laterally and sends down new roots from nodes. Also called runners.

Sub-digitate: almost digitate but branches radiate from various points along a short stem.

Taproot: large, central root from which other roots sprout laterally.



References

Royal Botanic Gardens Victoria vicflora.rbg.vic.gov.au

Victorian Resources Online vro.agriculture.vic.gov.au

HerbiGuide www.herbiguide.com.au

FeedXL: Nutrition makes a difference - Identifying pastures feedxl.com/24-identifyingpastures-part-1/

Pastures Australia keys.lucidcentral.org/keys/v3/ pastures/Html/

Pasture Paramedic

Developed by Cam Nicholson (Nicon Rural Services), Lisa Miller and Jess Brogden (Southern Farming Systems) on behalf of Meat and Livestock Australia (MLA). Photos have been supplied by MLA from *Pasture Paramedic* for use in this publication.



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