## **MARINE PEST:**

# JAPANESE KELP UNDARIA PINNATIFIDA

THE THREAT: Rapidly forms dense stands that overgrow and exclude native seaweed species.



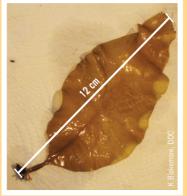




Immature Undaria pinnatifida plant



Mature Undaria pinnatifida plant



Undaria pinnatifida plantlet

## Report if found outside the known locations

- Note exact location
- Take a photo or sample where possible
- Seal samples in a plastic bag with a small amount of seawater and chill, or
- Sprinkle with salt and keep moist and cool
- DO NOT FREEZE
- Phone MAF on 0800 80 99 66

# Status in New Zealand: Established Key features

- Brown to yellow green coloured kelp, 1–3 m length
- Frilly sporophyll near base of mature plants
- Strap-like midrib in mature plants
- Smooth thin blades or leaves that stop well short of base

#### Where are they found?

- Grows best in cold temperate ocean waters
- Low intertidal to approximately 20 m depth
- Highest density occurs between 1 and 3 m depth
- Grows on any hard surface including rocky shores and reefs and artificial structures such as wharves, vessel hulls and aquaculture equipment
- Tolerates a wide range of wave exposures, from sheltered marinas to open coast

### **Known locations**



Latest information on pest locations is at: www.biosecurity.govt.nz/pests/salt-freshwater/saltwater/marine-pest-map

## Native species which look similar

## Common kelp - Ecklonia radiata

Key differentiating features:

- No midrib or frilly sporophyll
- Blades/leaves are rough not smooth
- Young ecklonia is difficult to distinguish from juvenile undaria until the midrib becomes visible
- Ecklonia radiata blade is, however, more leathery



Ecklonia radiata No midrib or frilly sporophyll



Undaria pinnatifida Clear midrib – line up centre frond Clear sporophyll on mature plants spiral structure at base of stem

#### **Impacts**

- Rapidly forms dense stands that overgrow and exclude native seaweed species
- Nuisance fouling can cause problems and increased costs for aquaculture

#### How you can help

Avoid spreading marine pests by:

- Regularly cleaning your boat's hull - ideally keep fouling growth to no more than a light slime laver
- Applying good thorough coatings of antifouling paint and keep it in good condition
- Ensuring your hull is clean and free of fouling before you go travel to a new region
- Inspecting areas on your boat that retain water in case they're harbouring marine life
- Cleaning and drying any marine equipment (e.g. ropes, lines, pots) before using in a new location
- Checking anchors, trailers and other equipment for tangled weed

#### Learn more

- Read all about best practice vessel cleaning at:
- www.biosecurity.govt.nz/biosec/camp-acts/marine/cleaning

Information on marine pest species is at:

www.biosecurity.govt.nz/pests/salt-freshwater/saltwater

Latest information on pest locations is at: www.biosecurity.govt.nz/pests/salt-freshwater/saltwater/marine-pest-map

