



WHAT IS COMBICROP®?

COMBICROP is unique to Western Seeds and is a **precise** blend of Spring cereal and a Spring combinable pea.

- An excellent versatile crop
- Environmentally beneficial
- It is a profitable crop to grow

WHY GROW COMBICROP?

We need a simple and cost effective way to grow cereals and protein to feed our stock

- With a 50% increase in protein above straight cereals, Combicrop enables the farmer to grow a 13% to 18% protein concentrate, eliminating the requirement of bought-in protein
- Growing Combicrop for sale with its increased protein percentage translates directly into a higher price per tonne grain / pulses sold

ENVIRONMENTAL BENEFITS OF COMBICROP

- Minimum foliar disease risk with Combicrop cereal and legume pea combination, compared with straight cereals
- Applications of fungicides, insecticides or straw stiffeners are not required on crop
- Free residual nitrogen from peas is saved for the following crop

COMBICROP eliminates the requirement for all post-emergence herbicides, fungicides and insecticides

CHAMPION Combicrop

Spring Wheat
Spring Pea

➤ **Sow at** ➔

85 - 100 Kilo / Acre

See page 28

WINNER Combicrop

Spring Barley
Spring Pea

➤ **Sow at** ➔

85 - 100 Kilo / Acre

See page 29

VICTOR Combicrop

Spring Oats
Spring Pea

➤ **Sow at** ➔

75 Kilo / Acre

See page 30

SOVEREIGN Combicrop

Spring Barley
Spring Oats
Spring Pea

➤ **Sow at** ➔

85-100 Kilo / Acre

See page 31





GENERAL COMBICROP INFORMATION – QUESTIONS FARMERS ASK

Seedbed preparations?

- Combicrop seedbed preparations are the same for all cereals

Are there any special adjustments to the seed drill?

- **NO.** Simply calibrate the seed drill as you would with any cereal seed

How deep do I drill?

- Drill at 2-4 cm (same as cereals). Combicrop must be **drilled** not broadcast

What size bags?

- Combicrop is delivered in 500 kilo, 250 kilo and 25 kilo bags **mixed and ready to drill**

What weight of cereal to pea is in Combicrop?

- One of the key research areas was determining the optimum ratio of cereal to pea. Different varieties of peas and cereals are often diverse in size. Since the Thousand Grain Weight (TGW), of the cereal and pea is the key factor, the total weight of cereal to pea can vary with each batch of Combicrop

Will the peas ripen the same time as the cereal?

- The peas will ripen **before** the wheat or oat companion crop waiting in the cover of the crop, until the cereal is ready to combine, with the peas
- The peas will ripen **at the same time** as the barley companion crop

Will I have to make any special adjustments to my combine?

- No adjustments are needed on the combine to achieve a first-class Combicrop – other than the adjustments a combine operator would normally make for cereals

What yield can I expect?

- No lower than a Spring cereal but usually **considerably higher** with the big advantage of up to 50% increased protein in the crop

Can I combine Combicrop dry?

- **Yes**, when grain (cereal and pea), is rolled or ground, the increased protein percentage of the processed concentrate is approximately 50% higher than straight cereals

Can I crimp Combicrop?

- **Yes**, the higher protein percentage in the Combicrop crimp will mean that a specific additive, **different from** a straight cereal crimp additive, will be needed for preservation

Can I wholecrop Combicrop?

- **Yes**, Combicrop wholecrop can be utilised in two ways:
- Wholecrop fermented @ 25% to 45% dry matter
- Wholecrop fermented / preserved @ 50% to 70% dry matter

Is the Combicrop straw good for feeding?

- **Yes**, all Combicrop straws are good for feeding to stock with increased palatability evident, especially with the barley-pea Combicrop straw

Combicrop has been grown successfully over many years in the U.K. and Ireland.

Grow your own stock concentrate in 2018 – you will never look back

COMBICROP COMBINED DRY



- No special adjustments are needed to the combine, to harvest dry
- Set the combine for the **cereal**, in the Combicrop

Input cost savings;

- Post-emergence herbicides, fungicides and insecticides are **not needed**

Benefits:

- 50% – 60% increase in protein above straight cereals
- Harvest a ready-made concentrate of 14% – 18% protein
- No crop foliar disease on cereal / pea straw – high feed value
- **High total yield; high quality crop; high financial rewards**

COMBICROP CRIMP



- Set the combine for the **cereal**, in the Combicrop.
- No special adjustments are needed to combine Combicrop

Farm Input cost savings

- Post-emergence herbicides, fungicides and insecticides are **not needed**

Benefits

- Harvest a mixture of high starch / **protein** pea and a high starch cereal
- Crimp the mixture and clamp
- Produce a very palatable feed which will considerably reduce your need for bought-in concentrates.
- Bale cereal and pea straw and feed to stock

COMBICROP WHOLECROP

**Combicrop can be utilised in two ways**

- Wholecrop fermented @ 25% – 45% dry matter
- Wholecrop fermented / preserved @ 50% – 70% dry matter

Farm input cost savings

- Herbicides, insecticides, fungicides and straw stiffeners are **not needed**.
- At least, 50% **reduction in nitrogen** input on crop due to pea inclusion

Benefits

- Crop harvested early, leaving a considerable amount of residual nitrogen from the peas in the soil for the next crop
- Harvest a Wholecrop, with increased palatability (from peas), at considerably increased protein percentage.



CHAMPION COMBICROP

CHAMPION Combicrop is a **precise** blend of **Spring wheat** and a **combining pea**. Total crop yields are equal to and in the majority of **Combicrops**, higher than straight wheat.

It can be utilised in a number of ways:

- **Combined dry** to produce a feed concentrate, high in starch with **14% to 18% protein**. This equates to a **50% to 60% increase in protein** above straight wheat
- **Combined crimped** to produce a high quality, starch / protein concentrate for dairy cows, followers and fattening / finishing beef cattle
- **Wholecrop fermented** harvested @ 25% to 45% dry matter to feed on its own or with grass silage as a forage to stock
- **Wholecrop or fermented / preserved** harvested @ **50% to 70% dry matter** feeding with other forage e.g. grass silage or maize

Important to note

Growing a cereal and a pea together has proven to almost eliminate crop leaf diseases to a point where crop protection products are virtually redundant!

CHAMPION Combicrop is grown without the use of fungicides or insecticides.

A pre-emergence herbicide is found suitable for weed control but always confirm with your regular pesticide adviser.

On highly fertile fields, **no N.P.K.** will be needed; **the peas** will easily produce enough free **nitrogen** for the crop and leave a substantial residue for the following crop.

CHAMPION Combicrop can be considered as a soil conditioner, leaving the soil structure very much improved after harvest.

Grow your own protein and starch – reduce your crop input costs

That's CHAMPION Combicrop

WINNER COMBICROP

From the initial cereal / pea combination field trials, at our trial site in Wales many years ago, **WINNER Combicrop** became a **WINNER** and has exceeded all our expectations.

WINNER Combicrop is a **precise** blend of **Spring barley** and a **combining pea**. Total crop yields are equal to and with the majority of **Combicrops**, higher than straight barley.

It can be utilised in a number of ways:

- **Combined dry** to produce a feed concentrate meal, high in starch with **14% to 20% protein**. This equates to a **50% to 60% increase in protein** above straight barley
- **Combined crimped** to produce a high quality, starch / protein concentrate for dairy cows, followers and fattening / finishing beef cattle
- **Wholecrop fermented** harvested @ **25% to 45%** dry matter to feed on its own or with grass silage as a forage to stock
- **Wholecrop or fermented / preserved** harvested @ **50% to 70%** dry matter feeding with other forage: grass silage or maize

Important to note: WINNER Combicrop is grown without the use of fungicides or insecticides.

A pre-emergence herbicide is available for weed control but always confirm product with your regular pesticide adviser for suitability.

On highly fertile fields, **no N.P.K.** will be needed, **the peas** will easily produce enough free **nitrogen** for the crop and leave a substantial residue for following crop.

Farmers are buying **WINNER**, a blend of barley and **peas** (think **nitrogen**), and making important savings in crop **nitrogen** and **pesticide inputs!**

WINNER Combicrop can be considered as a soil conditioner, leaving the soil structure very much improved after harvest.





VICTOR COMBICROP

VICTOR Combicrop is a **precise** blend of **Spring oats** and a **combining pea**.

Total crop yields are equal to and in the majority of **Combicrops**, higher than straight oats.

It can be utilised in a number of ways:

- **Combined dry** to produce a feed concentrate meal, high in starch with **14% to 18% protein**. This equates to a **50% to 60% increase in protein** above straight oats
- **Wholecrop fermented** harvested @ **25% to 45%** dry matter to feed on its own or with grass silage, as a forage to stock

Important to note:

VICTOR Combicrop is grown without the use of **herbicides, fungicides or insecticides**.

A pre-emergence and post-emergence herbicide cannot be used with Combicrop VICTOR

To grow **VICTOR** on fertile fields **no N.P.K.** will be needed.

VICTOR can be considered as a low-input crop to grow but still achieves a first-class feed for young stock, cattle and sheep.

Most farmers now buy a grass ley with clover included; its nitrogen producing ability is well known.

Farmers are now buying **VICTOR** (oat seed with **peas included**), making big savings in **nitrogen** and **pesticide inputs**.

VICTOR Combicrop can be considered as a soil conditioner, leaving the soil structure very much improved after harvest.

SOVEREIGN COMBICROP

SOVEREIGN Combicrop is a **precise** blend of **Spring oats, Spring barley** and a **combining pea**.

Total crop yields are equal to and in the majority of **Combicrops**, higher than straight cereals.

It can be utilised in a number of ways;

- **Combined dry** to produce a feed concentrate, high in starch and protein, yielding **14% to 18%** protein over straight barley or oats. This represents a **50% to 60%** increase in protein above straight cereals
- **Wholecrop fermented** harvested @ **25% to 45%** dry matter to feed on its own or with other conserved forage, such as grass silage

Important to note

SOVEREIGN Combicrop is grown without the use of herbicides, fungicides or insecticides.

A pre-emergence and post-emergence herbicide cannot be used with Combicrop SOVEREIGN.

- **SOVEREIGN** produces a thick crop which will smother all weeds, (unless the field is very infested), especially with the correct **pre-crop** management
- On your average to fertile fields, **no N.P.K.** will be needed since the **peas** will easily produce enough free **nitrogen** for the growing crop, also leaving a residue for the following crop

Farmers are buying **SOVEREIGN**, a mixture of oats, barley and **peas (think nitrogen)**, and making dramatic savings in crop **nitrogen** and **pesticide inputs!**

SOVEREIGN Combicrop can be considered as a soil conditioner, leaving the soil structure very much improved after harvest.

High cereal protein yields – high quality forage yields – very low input costs – that's SOVEREIGN.

