



## WHAT IS COMBICROP®?

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

- Produced @ 100% organic seed for combining dry and crimped
- Produced @ 70% organic seed for Wholecrop
- An excellent versatile crop
- Environmentally beneficial
- 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
- Free residual nitrogen from peas is saved for the following crop

### 100% & 70% Organic PRIME Combicrop

Spring Wheat  
Spring Pea

➤ Sow at ➤

**85 - 100 Kilo / Acre**

See page 31

### 100% & 70% Organic HERALD Combicrop

Spring Barley  
Spring Pea

➤ Sow at ➤

**85 - 100 Kilo / Acre**

See page 32

### 100% & 70% Organic CROWN Combicrop

Spring Oats  
Spring Pea

➤ Sow at ➤

**75 Kilo / Acre**

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### 100% & 70% Organic MORGAN Combicrop

Spring Barley  
Spring Oats  
Spring Pea

➤ Sow at ➤

**85-100 Kilo / Acre**

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## 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 *100% ORGANIC SEED*



- No special adjustments are needed to combine harvest **COMBICROP** – just set up the combine *for the cereal* and look for the **cereals and peas** in the combine tank.
- Combination of cereals and peas **eliminates** foliar diseases
- **High feeding value** of cereal straw and pea haulm, enhanced by low foliar disease on crop
- 50% to 60% increase in **protein** above straight cereals
- Harvest a **ready-made concentrate** of 14% to 18% protein
- **High total yield; high quality crop; high financial rewards**

Undersow with *Organic* PREMIUM see page 14

## COMBICROP CRIMP *100% ORGANIC SEED*



- No special adjustments are needed to combine harvest **COMBICROP** – just set up the combine *for the cereal* and look for the **cereals and peas** in the combine harvester tank
- Harvest a combined mixture of **high starch / high protein pea** and a **high starch cereal**
- **Crimp** the mixture and clamp – concentrate meal **ready to feed**
- **Crimping eliminates the need to roll your own dry grain over Winter**
- Crop will be cut earlier for crimp which will **enhance the feeding value** of the cereal and pea straw, when fed to stock

Produces a very **palatable** feed, high in **protein** and **starch** which will considerably **reduce or even eliminate**, the need for bought-in concentrates.

**Undersow with *Organic* PREMIUM** see page 14

## COMBICROP WHOLECROP *70% ORGANIC SEED*



**COMBICROP harvested as Wholecrop;**

**Wholecrop fermented @ 25% to 45% dry matter:**

- Harvesting **COMBICROP** *early* as a wholecrop, (cereal and peas), greatly enhances the **protein** and **palatability** of the forage
- Can be fed as the **main forage ration** to stock or utilised with other forage e.g. grass silage
- Crop harvested *early*, leaves a considerable amount of residual **nitrogen** from the peas, in the soil for the next crop

**Wholecrop fermented / preserved @ 50% to 70% dry matter:**

- Harvesting **COMBICROP** *later* as a whole crop, (cereal and peas), will yield a **high protein, high starch, high fibre forage**
- Best fed with other forages e.g. grass silage
- Crop will leave a considerable amount of residual **nitrogen** from the peas, in the soil for the next crop

**Undersow with *Organic* PREMIUM see page 14**

## ORGANIC PRIME COMBICROP

**PRIME Combicrop** is a **precise** blend of Spring wheat and a combining pea.

Total crop yields are equal to and in the majority of crops, higher than straight wheat.

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 wheat
- **Combined crimped** to produce a high quality, starch and 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 for stock
- **Wholecrop or fermented / preserved** harvested @ **50% to 70% dry matter** feeding **with** other conserved forage, grass silage

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

**Undersowing with *Organic* PREMIUM** is highly recommended.

**Premium Information on page 14**





## ORGANIC HERALD COMBICROP

**HERALD Combicrop** is a **precise** blend of Spring barley and a combining pea. Total yields are equal to and in the majority of crops, **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 18% protein**. This corresponds with a **50% to 60% increase in protein** above straight barley.
- **Combined crimped** to produce a **high quality, starch and 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 for stock.
- **Wholecrop fermented – preserved** harvested @ 50% to 70% dry matter feeding **with** other forage: grass silage

**Grass and cereals are both (botanically) grasses;**

**Clover** is an essential ingredient in organic herbage leys due to its ability to increase crop production by producing **nitrogen** for the grass.

**Peas** are an essential ingredient in organic cereal production due to its ability to increase total crop production (cereal/pea), by **20% (approx.)**, by producing **nitrogen** for the cereal barley.

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

**Undersowing with *Organic* PREMIUM is highly recommended.**

**Premium Information on page 14**

## ORGANIC CROWN COMBICROP

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

Total crop yields are equal to and in the majority of crops, **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 without additions, as a forage to stock

**Organic CROWN** is best sown as your **last** combining crop in your tillage rotation, since it will yield better than other **Combicrops** in **lower fertility situations**.

*Most organic farmers now buy a **grass ley with CLOVER** included for its advantageous nitrogen producing capacity.*

*Farmers are now buying **CROWN Combicrop**, oat seed with **peas** included, which not only provide the protein needed for livestock but also give the crop a dramatic boost of nitrogen – **WIN WIN**.*

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

Undersowing with **Organic PREMIUM** is highly recommended.

**Premium information on Page 14**







## ORGANIC MORGAN COMBICROP

**MORGAN Combicrop** is a **precise** blend of Spring oats, barley and peas.

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 corresponds to a 50% to 60% increase in protein** above straight oats or barley.
- **Wholecrop fermented** harvested @ **25% to 45% dry matter** to be fed on its own or fed with grass silage.

Most organic farmers will buy a **grass ley with CLOVER** included for its advantageous, nitrogen – producing ability.

For the same reason, farmers are buying cereals with **peas** included, (which produce the nitrogen required for the crop), as a Combicrop, giving dramatic improvements in crop production.

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

**Undersowing with *Organic* PREMIUM** is highly recommended.

**Premium information on page 14**