

DE SANGOSSE
FERRIC
PHOSPHATE

SMARTER SLUG CONTROL

Control Without Compromise

- A high-performance ferric phosphate pellet, formulated for UK arable conditions
- Proprietary Colzactive® attractant and premium durum wheat, featuring a carefully selected chelating agent and ferric phosphate grade to optimise stoichiometric ratio release, ensuring rapid bait uptake with a fast lethal effect
- TDS advanced wet process manufacturing ensures durability, spreadability, and rainfastness
- Suitable for use **7 days pre-drilling onwards** giving strategic flexibility

Why Use It? – Slug Risk

Slugs can devastate crops before damage is visible:

- Each slug eats **50 germinating seeds per week**
- One slug lays up to 500 eggs
- AHDB reports damage in **22% of wheat and 56% of OSR crops** annually
- Losses can reach **£70/ha**, or £1,750 per 25 ha block

Pellet Quality Matters

- **Attractiveness** – draws slugs away from emerging plants
- **Palatability** – ensures lethal consumption
- **Integrity** – withstands spreading without breaking
- **Persistence** – works in wet, dry, or variable UK weather
- **Bait power potential** – fewer pellets needed to control slug population

Additive Synergy

- Ferric phosphate requires chelating agent for gut absorption
- De Sangosse pellet uses **1:1 stoichiometric ratio** – delivers a lethal dose in hours vs competitors taking days

THE GOLDSLOCKS PELLET

- Up to to **>4x more slugs stopped per m²**
- Fewer applications needed – lower overall costs
- Rapid kill – protects seedlings immediately
- Uniform spread **24m+** (further with Stocks Jet Duo)
- Market leading resilience
- Flexible timing from **7 days pre-drilling onwards**

Why Use Over Competitors

De Sangosse Advantage

At 5 kg/ha:

FEATURE	LEADING COMPETITOR WET PROCESS	DE SANGOSSE • FERRIC PHOSPHATE
Pellet size	2.4 mm	2.7 mm
Pellets/m ²	42	30
Pellets digested for a single slug kill	2-3	0.5
Theoretical slug control/m ²	13-20	60
Applications to achieve the same control/ha	2	1
Spreadability	Moderate	Uniform, 24m+
Persistence	Moderate	High

Proprietary Technology

- **TDS advanced wet process** – integrity, density, rainfast
- **Colzactive® attractant** – draws slugs faster
- **Optimised chelating agent ratio** – faster kill

BOTTOM LINE: FASTER KILL, UP TO >4X MORE SLUGS STOPPED/M², FEWER APPLICATIONS NEEDED TO ACHIEVE THE SAME KILL

THE GOLDILOCKS PELLET

Just Right for UK Fields



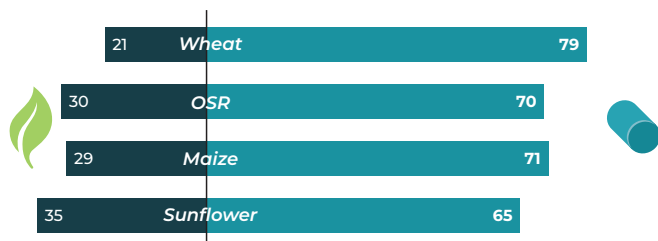
No. 1 Attractiveness

Slugs Can't Resist



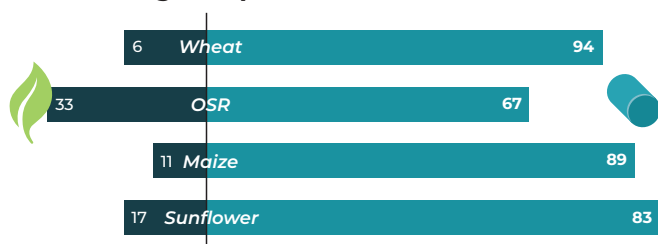
Colzactive® formulation makes De Sangosse pellets more desirable than any competitor. Colzactive® is a **pioneering attractant complex** based on **natural brassica oils and extracts**. Slugs travel further and feed sooner, reducing crop damage risk.

Over 70% of grey field slugs prefer the De Sangosse pellet



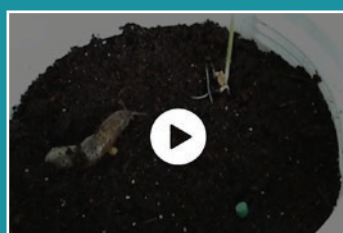
■ Slugs towards seedlings ■ Slugs towards De Sangosse Ferric Phosphate

Over 80% of black field slugs prefer the De Sangosse pellet



■ Slugs towards seedlings ■ Slugs towards De Sangosse Ferric Phosphate

Attractiveness vs seedlings: (100 test trays per crop)



SCAN TO WATCH



**SLUGS CAN'T RESIST
DE SANGOSSE FERRIC PHOSPHATE**



No.1 Palatability

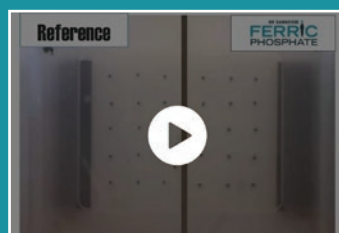
The Right Bite Matters

Premium durum wheat base gives De Sangosse pellets the texture, aroma and density slugs can't resist. But attraction and taste alone isn't enough — performance depends on what happens inside the slug. Our pellets use a **precisely balanced stoichiometric 1:1 ratio of chelating agent to ferric phosphate**, ensuring the active passes rapidly through the gut wall and delivers a lethal dose without overconsumption.

Without this balance, pellets simply don't work effectively or efficiently. That's why a competitor pellet may take **2-3 baits to kill one slug**, while De Sangosse needs just **0.5 of a pellet**. The result? **Lethal dose in hours, not days — stopping up to >4x more slugs per m²** and protecting crops when it matters most.

De Sangosse chelating agent : ferric phosphate stoichiometric ratio vs. four competitor pellets

PELLET	STOICHIOMETRIC RATIO				
	6 hrs	12 hrs	1 day	3 days	7 days
De Sangosse TDS	0.92	1.03	1.02	1.00	0.99
Wet Process A	0.03	0.01	0.01	0.03	0.07
Wet Process B	0.21	0.24	0.21	0.57	1.71
Dry Process A	0.01	0.02	0.03	0.07	0.32
Dry Process B	0.45	0.51	0.58	0.75	0.93
Lentil-Shaped	0.10	0.10	0.12	0.18	0.33



SCAN TO WATCH



**FASTER KILL WITH
LESS PELLET CONSUMED**



No.1 Persistence

Rainfast. Robust. Reliable.

De Sangosse pellets maintain structure and integrity under intensive rainfall and high humidity. They resist mould, UV breakdown and fragmentation – **remaining lethal long after others dissolve**. De Sangosse pellets hold their shape and potency under pressure to deliver the consistent long-term protection in variable UK conditions that growers need.

The Rain-Fast Benchmark

Trials repeatedly show De Sangosse ferric phosphate pellets hold together longer under wet conditions than ferric alternatives.



De Sangosse Ferric Phosphate



Competitor Wet Process



Competitor Lentil-Shaped



Submersion of pellets in equal quantities of water



Competitor Wet Process

Competitor Dry Process

Competitor Lentil-Shaped

Pellets 10 days later



Competitor Wet Process

Competitor Dry Process

Competitor Lentil-Shaped

- 10 days intact in simulated rainfall tests
- Maintained attractiveness long after other pellets had degraded
- Reduced need for repeat applications in wet autumns

ONLY DE SANGOSSE FERRIC PHOSPHATE RESISTS BREAKDOWN



No. 1 Spreadability

Uniform 24m+

High mass and consistent density ensure accurate even spread patterns across the field.

High-Speed Video: Proof in the Flight Path

Using high-speed video through a Stocks Ag Fan Pro Jet 65 applicator, De Sangosse assessed the ballistics of two pellets in real-world conditions. You can see the difference clearly in the side-by-side footage here – see video.

MINIMAL BREAKAGE WITH DE SANGOSSE FERRIC PHOSPHATE PELLETS



SCAN TO WATCH

- **De Sangosse Ferric Phosphate** – minimal breakage, retaining size and shape throughout flight
- **Dry process competitor** – considerable breakage, with visible fragmentation before reaching the ground.



What is CV?

The Coefficient of Variation (CV) is a standard way of measuring how evenly pellets are spread across the bout. It compares the variation in pellet distribution to the average, expressed as a percentage.

Lower CV = more even spread, fewer missed areas.

Higher CV = patchier spread, more risk of slug damage in untreated zones.

Independent Spreadability Testing

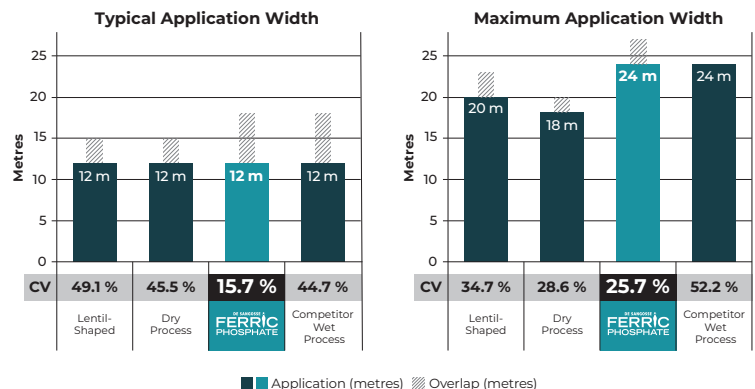
In an independent **spreadability test** performed by SCS, De Sangosse ferric phosphate pellets achieved **the best stability and uniform coverage** at 24m+, with minimal breakage against three competitor pellets tested.

Results at typical application width (12m):

- **De Sangosse ferric phosphate pellet:** CV 15.7%
- **Lentil-Shaped pellet:** CV 49.1%
- **Dry process pellet:** CV 45.5%
- **Competitor wet process pellet:** CV 44.7%

Results at wide application width (24m):

- **De Sangosse ferric phosphate pellet:** CV 25.7%
- **Lentil-Shaped pellet:** CV 34.7%
- **Dry process pellet:** CV 28.6%
- **Competitor wet process pellet:** CV 52.2%



Overlap metres are insurance against wind speed fluctuations: 2 to 4 metres is desirable.

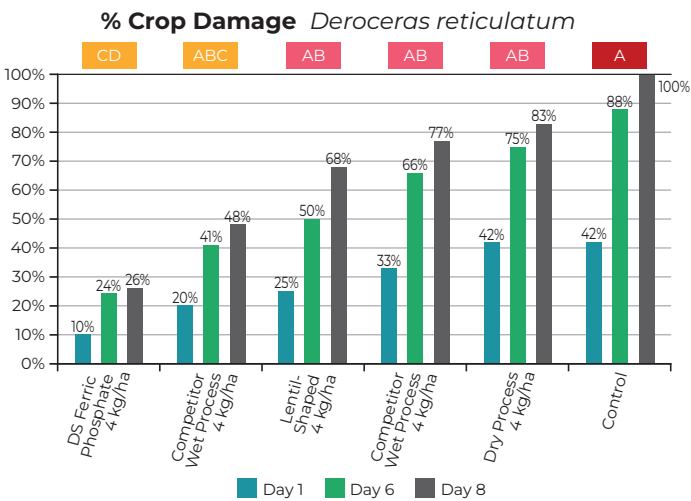
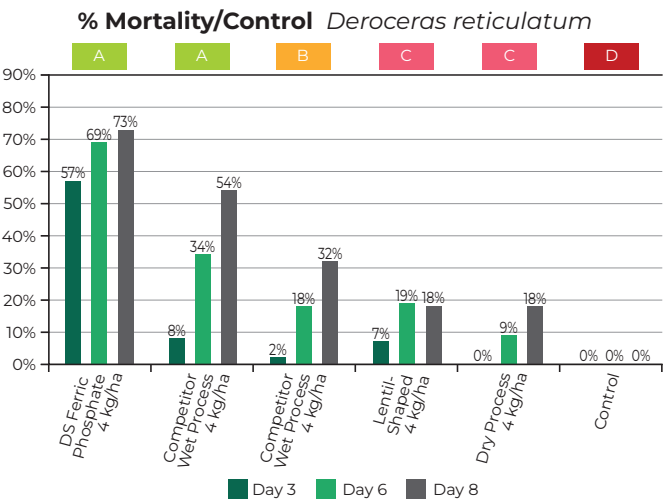
**THESE RESULTS CONFIRM THAT DE SANGOSSE PELLETS
MAINTAIN ACCURACY AND BAITING DENSITY EVEN AT WIDE
SPREADS, OUTPERFORMING THE COMPETITION**



No. 1 Kill Performance

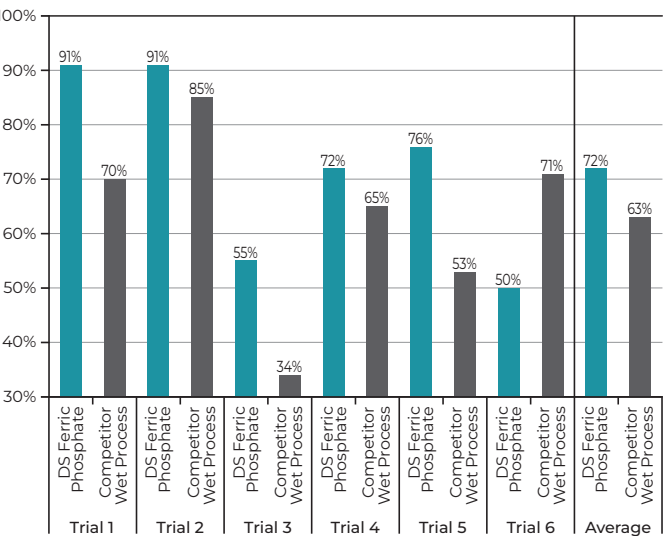
Proven in Trials

Trials investigating pellet performance continue to demonstrate that De Sangosse Ferric Phosphate offers the best slug control on the market – highest mortality rates, with less crop damage.



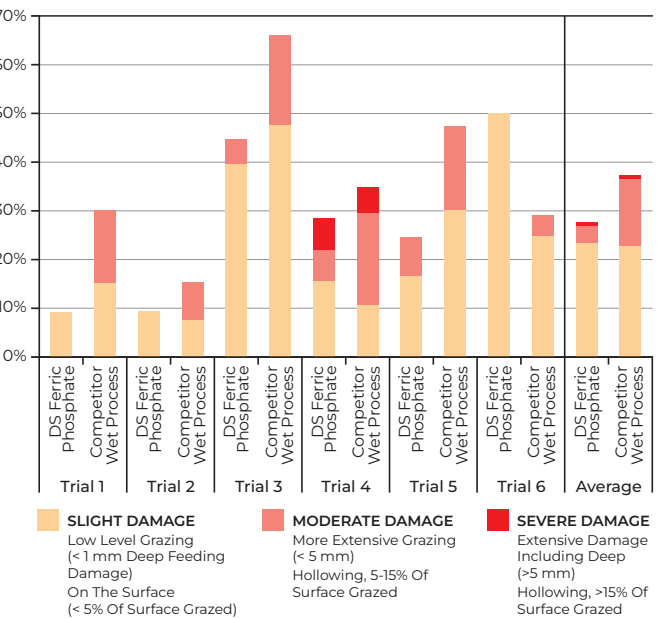
Source: De Sangosse R&D Centre, 2024. Semi-field trial, 1m² cage. 20 seedlings of sunflower. 20 slugs. 4 replicates.

Control of Slugs in Potatoes (*Undamaged Tubers per plot*)



Source: De Sangosse Registration Trials. 6 trials.

Control of Slugs in Potatoes (*Damaged Tubers per plot*)



PROVEN TO DELIVER THE BEST SLUG CONTROL ON THE MARKET

CONTROL WITHOUT COMPROMISE

Farmer Take Aways

- ✓ Fewer pellets, more effective control
- ✓ Reduced crop damage and better establishment
- ✓ Works in all UK weather conditions
- ✓ Optimised for cost efficiency and performance
- ✓ Unique flexible application timing 7 days pre-drilling onwards for maximum security

Product Specification

PROPERTY	VALUES
Manufacturing Process	Advanced Wet (durum)
% AI	3% or 2.42 % (expressed in anhydrous form)
Pellets per kg	60,000
Pellet Size	2.7 mm
Bag Size	15 kg
Baiting Points (at 7 kg/ha)	42
Colour	Blue
Max Individual Dose	7 kg/ha
Max Total Dose	28 kg/ha

Timing & Application Advice

- **Apply from 7 days before or just after drilling** (and rolling, if needed) – the critical timing
- **Use trapping** to guide threshold treatment:
≥1 slug per trap in OSR, beet, potatoes and veg;
≥4 slugs per trap in winter cereals – or
≥1 slug per trap in wheat stubble
- **Monitor and reapply** if activity remains high
- **Calibrate spreaders** – NSTS tested, match to pellet size and density
- **Stay compliant** – correct application is a legal requirement

Smart timing.
Right pellet.
Reliable control.

Crop Specific Information

FIELD CROPS	GROWTH STAGES
Sugar beet, Fodder beet, Beetroot, Swede, Turnip, Carrots, Celeriac, Radishes	BBCH00 ¹ to BBCH14
Potato	BBCH00 ¹ to harvest
Bulb onions, Garlic	
Cauliflower, Broccoli/Calabrese, Head cabbage, Brussels sprouts	
Lettuce, Baby leaf crops, Endive, Lamb's lettuce, Rocket, Spinach and similar leaves (including Purslane, Spinach beet) Angelica, Balm, Basil, Bay leaves, Caraway leaves, Celery leaves, Chervil, Chives, Coriander, Dill, Fennel leaves, Hyssop, Lovage, Marjoram, Mint, Oregano, Parsley, Rosemary, Sage, Salad burnet, Savory, Sweet cicely, Tarragon, Thyme	
Peas and beans (fresh) Peas and beans (dry)	
Celery, Fennel, Globe artichoke, Leeks, Spring/salad onions	
Oilseed crops (including Oilseed rape, Linseed, Poppy, Sesame seed, Sunflowers, Soya bean, Mustard, Safflower, Borage, Gold of pleasure, Hempseed)	
Winter squash and Pumpkin	
Cereals (Wheat, Barley, Oats, Rye, Triticale)	
Maize (Forage and Grain), Sweetcorn	
New pasture (ryegrass)	BBCH00 onward
Managed amenity turf	

ALWAYS FOLLOW THE PESTICIDE LABEL. All trademarks duly acknowledged. All information correct as of August 2025

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DE SANGOSSE 

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PROTECT YOUR CROPS & YIELD
ASK YOUR AGRONOMIST ABOUT DE SANGOSSE FERRIC PHOSPHATE TODAY