



Catchment Sensitive Farming

Working together for a healthy environment



Nidderdale
National
Landscape

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Nidderdale National Landscape

Catchment Sensitive Farming (CSF) is led by Natural England, in partnership with Defra, the Environment Agency and the Forestry Commission.



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About the CSF partnership



Catchment Sensitive Farming (CSF) is led by Natural England in partnership with Defra, and the Environment Agency.



Since 2006 it has worked with farmers, communities and organisations in catchments across England to improve the quality of air, water and natural flood management from agricultural land.



Nidderdale National Landscape (NNL) have worked in Partnership with CSF since 2009 to deliver CSF on the Nidd and within NNL boundary which includes the upper and mid- sections of the Nidd



3 other NE advisers work within the mid and lower Nidd Catchment



Catchment Sensitive Farming



The delivery aims are built around targeting Good Ecological Status, Drinking Water Safeguard Zones (Surface and Groundwater) and Natura 2000/SSSI.



The Humber team have 2 CSFOs funded by Yorkshire Water to deliver advice in Drinking Water Safeguard Zones.



Joint events and agricultural shows with OuseWem, YDRT, AHDB, YW and Upper Nidderdale Farmer Network Cluster Group.



CSF

- **What makes our farm advice different?**
 - We offer confidential advice so you can take positive actions
 - We seek 'win-wins' for the environment and your business
 - We give free, government-funded advice and training across England
- **Your local CSF Adviser can help...**
 - Increase efficiency and profitability of farms
 - Increase sustainability and resilience to climate change
 - Improve your local environment
 - Help farms meet current regulations
- **How we work**
 - One-to-one farm visits from the local CSF Adviser
 - Tailored on-farm advice from specialists
 - On-farm events, shows and demonstrations
 - Newsletters, on-line events
 - Advice on relevant grants

CSF offer



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Free Specialist Advice visits

- Soil management
- Review of Pathways for Sources of Faecal Contamination of Water Courses
- Nutrient, slurry and manure management
- Ammonia reduction
- Farm infrastructure and machinery set-up
- Pesticide handling
- Water resources and natural flood management
- Land management
- Agricultural transition, including grants

The following Specialist Advice Visits are available through your local CSF Adviser

Soil Management

Assessment and Monitoring Soil Health

Training on soil health indicators. Includes soil sampling with biological activity on up to 2 fields (P, K, Mg, Cu, Zn, B, pH, soil texture organic matter and CO2 burst). *B6*

Soil Husbandry

Training on soil structure with recommendations to reduce soil erosion. *B4*

Soil and Nutrient Management Plan

Advice on soil and nutrient management. *B4*

Nutrient, Slurry & Manure Management

Nutrient Management Plan
Advice on producing a nutrient management plan. Used in conjunction with CSFs Standard Soil Sampling (no interpretation). *B4*

Slurry/Manure/Silage Handling and Storage

Advice on handling and storage. *B8*

Review of Pathways for Sources of Faecal Contamination of Water Courses

Advice on potential risks to local water courses and bathing water, with recommendations for mitigation measures.

Slurry/Manure Sampling and Analysis

Up to 3 samples. Includes interpretation (pH, dry matter, total N, Nitrate-N, Ammonium-N, Uric Acid, total P, K, Mg, Ca, S, Cu, Zn).

Standard Soil Sampling (no interpretation)

Sampling on up to 5 fields. Includes P, K, Mg, pH, soil texture and organic matter.

Standard Soil Sampling with Crop Nutrient Recommendation

Sampling on up to 5 fields. Includes P, K, Mg, pH, soil texture and organic matter with crop nutrient recommendations.

Standard Soil Analysis (with SNS)

Sampling on 1 field. Includes P, K, Mg, pH, soil texture and organic matter. Includes SNS estimate and crop nutrient recommendations.

Soil Mineral Nitrogen (SMN) Sampling (with SNS)

Sampling on 1 field. Includes SNS estimate and crop nutrient recommendations.

Soil Sampling with Biological Activity

Assessment of soil biological activity with interpretation (P, K, Mg, Cu, Zn, B, pH, soil texture, organic matter and CO2 burst). *B4*

Ammonia Reduction

Livestock Nutrient Planning

Review of livestock nutrition to reduce losses of ammonia, N and P. Identifies potential adjustments to protein quality/quantity and phosphorous intake. *B4*

Conserving Nitrogen Through Reducing Ammonia Emissions

Advice on reducing N losses from yards, livestock housing, fertilisers, slurry and manure. *B4*

Farm Infrastructure & Machinery Set-up

Catchment Sensitive Farm Review
Whole-farm review focussing on air & water quality. *B4*

CSF Farm Review – Post Advice Follow-up

Review of previously recommended CSF measures.

Specific Sector-Based Advice

Advice, following a previous CSF report, where further sector-specific advice has been recommended. *B6*

Farm Infrastructure Audit

Review of farm infrastructure with recommendations to reduce the risk of air & water pollution. *B4*

Farm Infrastructure Audit Follow-up

Review of previous CSF recommendations. *B4*

Farm Machinery Management

Recommendations for machinery set-up and operation focussing on soil structure and reducing the risk of air & water pollution. *B4*

Machinery Testing and Calibration

Testing and calibration of fertiliser or manure spreaders to improve accuracy of application.

Pesticides Advice

Keeping Pesticides Out of Water

Practical guidance on storage, handling, application, and disposal of pesticides. *N4 B4*

Pesticide Filling (Bio-bed/Biofilter design)

Advice on the design, use, and management of bio-beds & bio-filters. *N4 B4*

Water Resources & Natural Flood Management

Water Resource Audit
Practical training and information on sustainable on-farm water sourcing, storage, and use. *B6*

Natural Flood Management

Advice and guidance on the placement, design, construction and management of measures to reduce flood risk. *B4*

Water Holding Structure Design and Management

Guidance on the placement, design, construction, and management of wetlands, sustainable drainage or water holding features. *B4*

Water Pathway Management

Advice on reducing the source and slowing the pathway of contaminants to water. *B4*

Land Management

Woodland for Water and Air

Advice on woodland, shelterbelt and tree planting to reduce flooding, protect water and intercept ammonia. *B6*

Maximising Countryside Stewardship

Advice on CS options which reduce air and water pollution and support sustainable farming practices. *B4*

BASIS Points Available

BASIS Points Available
NRoSo Points Available

Support for Grant Applications



- The capital grant scheme takes up more than half of the CSFOs delivery time.
- Need CSF support for high costing capital items such as roofing manure, silage and slurry stores, concrete yards, drainage, etc.

CSF Plans for the River Nidd next 5 years

- New CSF catchment plans for phase 6
- WFD High priority for sediment and phosphate
 - Will now address bathing water status at Knaresborough
- Targeting based on new evidence and monitoring
- Working in Partnerships EA, YW , YDRT
- Ammonia
- NFM
- Moving to advice led approach



Nidderdale National Landscape 5-year Management Plan



River health is in key parts of the new 5-year NNL Management Plan

Challenges

- The ecological classification for the 19 defined waterbodies in the National Landscape : 1 good, 16 moderate, 1 poor and 1 bad.
- Heavy metal pollution as a consequence of historic lead mining activity.
- Invasive plant and animal species, for example Himalayan Balsam
- Conserving wetland habitats.

Nature Recovery Objectives

- Work with farmers, landowners and water companies to improve natural river processes and water quality across the National Landscape, including actions in place to achieve good ecological status or potential on 70% of watercourses.
- Work with farmers and landowners to create or restore 150 wetland habitats, ensure 50% of existing wetland habitat is in good management and work to enhance the ecological status of the National Landscape's watercourses.
- Catchment-level natural flood management and promotion of soil health

Key knowledge gaps/constraints that limit actions to improve the health of the Nidd?



**TRUSTED
ADVISERS**



**RECRUITMENT
FREEZES-
UNDER
RESOURCED IN
SOME AREAS**



**OFTEN GRANT
FOCUSED AND
REACTIVE
ENGAGEMENT**



**HARD TO
REACH FARMS**



**RAPID
CHANGES IN
GRANT
PROCESSES**

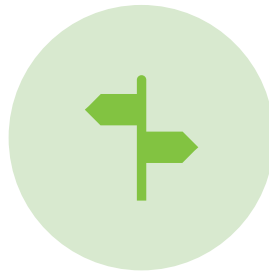


**DATA CAN
ALWAYS BE
BETTER**

What do you think that people in this room can do to work with other stakeholders to improve the Nidd?



ENCOURAGE
VOLUNTARY
ENGAGEMENT OF
LANDOWNERS



SIGNPOST TO
APPROPRIATE
ORGANISATIONS



CONTINUE TO
WORK WITHIN
PARTNERSHIP



UNDERSTAND
STAKEHOLDERS

**Thank you for
listening
Any questions?**



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