

Duhallow Farming for Blue Dot Catchments Project Citizen Science Bonus Payment
Scorecard

Version 1.1 May 2020

Participant:	Date:
Herd Number:	Plot Number:
Surveyor:	Total Score: /500marks

1. Riparian Areas (100 Marks)

Indicate All Positive Indicators by ticking the boxes below

Bird's Foot Trefoil	<i>Marsh Pennywort</i>	Red Fescue
Hawthorn	<i>Marsh Thistle</i>	Selfheal & Bugle
Yarrow	<i>Meadow Thistle</i>	Sheep Sorrel
Forget-me-nots	<i>Meadow Sweet</i>	Small Bedstraws/Stitchwort's
Reeds spp.	<i>Mints</i>	Small Rushes/Rushes
Knapweeds	<i>Orchids</i>	Small Umbels
Lady's Smock	<i>Ox-eye Daisy</i>	Yellow Rattle
Large Umbels	<i>Ragged Robin</i>	Vetches
Lesser Spearwort	<i>Sedges</i>	Vetchling
Violets	<i>Yellow Composites</i>	Yellow Flag Iris
<i>Meadow Grasses spp</i>	<i>Yorkshire Fog</i>	Creeping Bent
Other:		

A. COMPOSITION OF POSITIVE INDICATOR SPECIES					20 MARKS
No. Plants	Low 0-4	Medium 5-8	Med-High 9-12	High 13-15	Very High 16+
	5 marks	8 marks	10 marks	15 marks	20 marks

B. COVER OF POSITIVE INDICATOR SPECIES					20 MARKS
Cover %	Rare 0-5%	Occasional 6-10%	Frequent 11-25%	Abundant 25-50%	Dominant >50%
	0 marks	5 marks	10 marks	15 marks	20 marks

C. COMPOSITION OF NEGATIVE INDICATOR SPECIES					20 MARKS
*Negative species including Nettles, Docks, Ragwort, Perennial Ryegrass, Creeping/Spear Thistle					
Cover %	Dominant >50%	Abundant 25-50%	Frequent 11-25%	Occasional 6-10%	Rare 0-5%
	-15 marks	-10 marks	-5 marks	10 marks	20 marks

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D. QUALITY OF RIPARIAN BUFFER			20 MARKS
Low	Moderate	High	
Riverbank overgrazed with bare soil exposed. Fencing is ineffective and there is no riparian area. Riverbank is falling into the waterway	Little or no bare soil exposed but invasive species <1m of buffer present. Riparian area is established primarily with grass spp. Fence line or hedgerow present. Riverbank is stable	At least 1 metre of good quality buffer present extending out from the river/stream. Riparian area is well established and protected. Riverbank is stable.	
-20 marks	10 marks	20 marks	

E. RIVERBANK EROSION			20 MARKS
Low	Moderate	High	
Riverbank unstable and eroding or at risk of eroding. Evidence of modification by machinery or removal of vegetation. Livestock drinking points throughout.	Riverbank is stable with minor erosion at regularly used areas. Minimal disturbance from drinking points.	Riverbank is stable. Livestock has no access to waterbody. Riverbank well vegetated	
-20 marks	0 marks	20 marks	

2. Siltation of the Waterway (100 marks)

Note: Resuspension should be evaluated by placing a white tile on the streambed in a run, disturbing the streambed 3m upstream of the tile by moving feet vigorously for five seconds and allocating a score from 1-5 depending on the visibility (guidance photos are available) and duration of the resulting plume in relation to the white tile downstream.

Level of Siltation										
High			Moderate				Low			
Substrata is not visible through the silt layer. Excessive sediment on tile. Dead FPM shells may be present.			Substrata is visible but silty. Some sediment present on the tile.				Substrata is clearly visible. Little or no sediment on the tile.			
Score	10	20	30	40	50	60	70	80	90	100

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3. Water Quality Monitoring (100 marks)

Nutrient	Reading	Limit	Score	
Ammonia NH ₄ & NH ₄		0.1mg/l N	20 marks	-20 marks
Nitrate NO ₃		<0.5mg/l NO ₃	20 marks	-20 marks
Phosphate PO ₄ & PO ₄ -P		0.015-0.030 mg/l P	20 marks	-20 marks
Dissolved Oxygen		50% >9mg/l O ₂	20 marks	-20 marks
Alkalinity		Mg/l CaCO ₃	20 marks	-20 marks
Total Marks				

4. Macroinvertebrates (100 marks)

Note: Sampling to be completed using a pond kick net

	Bad Leech, worms, and/or bloodworm dominant	Poor Shrimp, flatworm, and/or water louse present	Medium Some mayfly, and stonefly present with some caddis or sedge fly	Good Mayfly and stonefly are abundant						
Score	10	20	30	40	50	60	70	80	90	100

Indicate macroinvertebrates present by ticking the boxes below

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Mayfly



Stonefly



Caddisfly



Shrimp



Water louse



Leech



Worm



Bloodworm

5. Biodiversity Benefits (100 marks)

What biodiversity benefits are present?

Biotic

A number of bird, animal and/or plant species listed below present.

Abiotic

Fields adjacent to river flood regularly. Alluvial woodland, large woody debris and/or natural seepage areas are present.

Score 100 90 80 70 60 50 40 30 20 10

Indicate Species and/or habitats present by ticking or listing below



King Fisher



Snipe



Ranunculus



Woody Debris



Dipper



Heron



Common Reed



Alluvial Woodland

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Dragon Fly



Grey Wagtail



Flag Iris



Wetland



Otter Signs



Oxbow lake



Historic Riverbed



Hedgerow

Other:

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