2014/15 Capital Grants: Natura 2000 Targeting Plan

This is the River Basin District Plan outlining the proposed targeting approach to Catchment Sensitive Farming (CSF) Capital Grants in 2014/15.



River Basin District	North West RBD / Solway (Solway - Tweed RBD)	Plan prepared	November 2013
	32. Eden		River Eden Special Area of Conservation (SAC) River Eden and tributaries
	34. Bassenthwaite		River Derwent and Bassenthwaite Lake SAC River Derwent and tributaries, Bassenthwaite Lake
Natura 2000 Catchments covered by this plan	42. Kent and Leven	Natura 2000 sites covered by this plan	River Kent SAC River Kent and tributaries Leighton Moss Special Area of Protection (SPA) Leighton Moss
	60. West Cumbria		Morcambe Bay Pavements SAC Hawes Water River Ehen SAC River Ehen – Ennerdale Water to Keekle confluence

NW Catchment 1

Catchment where grants	32. Eden - River Eden SAC (River Eden and tributaries)
will be offered	

Rationale for offering grant	Eden interest features include: white-clawed crayfish, Atlantic salmon, brook lamprey, river lamprey, sea lamprey, bullhead http://www.sssi.naturalengland.org.uk/citation/citation_photo/2000215.pdf Priority: Phosphate Impacts: algal and macrophyte growth and die back, changes to plant species composition, impacts crayfish / bullhead habitat, impacts lamprey habitat, poor salmonid densities Priority: Sediment Impacts: Siltation of spawning beds, siltation of macrophyte beds, concretion of river bed, impact crayfish / bullhead habitat, over siltation of lamprey ammocoete beds (R. Eden and tributaries Diffuse Water Pollution Plan, 2009)		
Description of theme	Pollutants targeted: Phosphate Remedy / Theme: Reduce sediment runoff using riparian fencing; Improved farm management e.g. improved clean / dirty water separation (R. Eden and tributaries Diffuse Water Pollution Plan, 2009)		
Area / holdings to be targeted	 Identification of target farms using local knowledge supported by the Environment Agency (EA) farm prioritisation tool at a sub-catchment level prioritisation of target farms using local knowledge ground-truthing of target farms to assess connectivity, and risk of enterprise via farm visits 		
	The below items should be available to the Catchment Sensitive Farming Officer (CSFO) to make a farm specific offer to address highest priority issues		
Catchment Sensitive	CSF001 Relocation of gates		
Farming Capital Grant	CSF002 Water gates		
Scheme items to be	CSF003 Watercourse fencing		
deployed	CSF004 Fencing for buffer strips, marshes, wet grassland, wet woodland and ponds		
	CSF005 Solar powered electric fence kits for seasonal fencing		
	CSF007 Hard bases for livestock drinkers and feeders		
	CSF008 Pasture pumps and associated pipework		

CSF00	9 Ram pumps and associated pipework
CSF01	LO Livestock troughs with associated pipework
CSF01	Cross drains on or in farm tracks or within farm yards for clean and dirty water separation
CSF01	Sediment ponds and trans
CSF01	Swales with check dams
CSF01	14 Yard works for clean and dirty water separation
CSF01	15 Installation of piped culverts in ditches
CSF01	L6 Resurfacing of gateways
CSF01	Relocation of sheep dip/pens
CSF02	21 Livestock and machinery tracks
CSF02	Roofing of manure storage and livestock gathering areas
CSF02	Roofs for slurry and silage stores including self-feed silage stores

Catchment where grants will be offered	34. Bassenthwaite - River Derwent and Bassenthwaite Lake SAC (River Derwent and tributaries, Bassenthwaite Lake)
Rationale for offering grant	Bassenthwaite Lake is a large and relatively undisturbed mesotrophic lake, supporting a wide variety of pondweeds, large populations of wintering birds and until recently the nationally rare vendace fish. http://www.sssi.naturalengland.org.uk/citation/citation_photo/1003782.pdf River Derwent and tributaries is a large oligotrophic river system supporting interest features such as Atlantic salmon, river lamprey, brook lamprey, sea lamprey http://www.sssi.naturalengland.org.uk/citation/citation_photo/2000214.pdf
	Priority: Phosphate, sediment Impacts: Failure of P target, algal blooms, increased rates of sedimentation, siltation of spawning grounds, failure of biology targets (R. Derwent and Bassenthwaite Diffuse Water Pollution Plan, 2009)

Description of theme	Pollutants targeted: Phosphate, sediment (Bass Lake catchment), phosphate (Derwent) Remedy / Theme: reduce nutrient and sediment input from agricultural land and farm holdings (R. Derwent and Bassenthwaite Diffuse Water Pollution Plan, 2009)	
Area / holdings to be targeted	Geographical areas of: River Marron: intensive agriculture, with limited access to other schemes / remedies such as Environmental Stewardship (ES) and outside of National Park. Although Phosphate (P) scores are lower for the R. Derwent and tributaries, this area is more intensively farmed than the average for the catchment, and there have been relatively high monitored and modelled P levels observed for this area. Bass Lake: surrounding farms with connectivity to lake Other high risk areas emerging from the Diffuse Water Pollution Plan (DWPP) Identification of target farms using local knowledge supported by the EA farm prioritisation tool at a subcatchment level prioritisation of target farms using local knowledge ground-truthing of target farms to assess connectivity, and risk of enterprise via farm visits	
Catchment Sensitive Farming Capital Grant Scheme items to be deployed	The below items should be available to the CSFO to make a farm specific offer to address highest priority issues CSF001 Relocation of gates CSF002 Water gates CSF003 Watercourse fencing CSF004 Fencing for buffer strips, marshes, wet grassland, wet woodland and ponds CSF005 Solar powered electric fence kits for seasonal fencing CSF007 Hard bases for livestock drinkers and feeders CSF008 Pasture pumps and associated pipework CSF009 Ram pumps and associated pipework CSF010 Livestock troughs with associated pipework CSF011 Cross drains on or in farm tracks or within farm yards for clean and dirty water separation CSF012 Sediment ponds and trans	

CSF	F013 S	Swales with check dams
CSF	F014 Y	ard works for clean and dirty water separation
CSF	F015 I	nstallation of piped culverts in ditches
CSF	F016 F	Resurfacing of gateways
CSF	F018 F	Relocation of sheep dip/pens
CSF	F021 L	ivestock and machinery tracks
CSF	F023 F	Roofing of manure storage and livestock gathering areas
CSF	F026 F	Roofs for slurry and silage stores including self-feed silage stores

Catchment where grants will be offered	42. Kent and Leven: A) River Kent SAC (River Kent and tributaries) B) Leighton Moss SPA (Leighton Moss) C) Morecambe Bay Pavements SAC (Hawes Water)
	Leighton Moss Leighton Moss (SPA / RAMSAR and RSPB reserve) is the largest reed bed in NW England and of ornithological importance,
	supporting nationally important breeding populations of bittern and bearded tit.
	http://www.sssi.naturalengland.org.uk/citation/citation_photo/1001669.pdf
	Hawes Water
	One of only two water bodies of natural origin remaining in Lancashire, and the only Marl lake providing calcareous
	conditions supporting a range of species.
	http://www.sssi.naturalengland.org.uk/citation/citation_photo/1001594.pdf
Rationale for offering	Duiauituu Dhaanhata aadimaant
grant	Priority: Phosphate, sediment Impacts: Eutrophication
	(Leighton Moss and Hawes Water Diffuse Water Pollution Plan, 2009)
	River Kent and tributaries
	The River Kent and its tributaries support nationally important populations of white-clawed crayfish. One of the headwaters also supports one of the largest populations of fresh water pearl mussel in England
	http://www.sssi.naturalengland.org.uk/citation/citation_photo/2000335.pdf
	Tittp:// www.sssi.natararengrand.org.uk/citation/citation/prioto/2000555.pdr

	Priority: Phosphate		
	Impacts: Changes in diatom and invertebrate communitie	s. Change in productivity – competition from other species	
	Priority: Sediment		
	Impacts: concretion of river bed, smothering, mobility of potential habitat for <i>Rannunculus spp</i> . Sediment issues exacerbated in summer when low flows, decline in freshwater pearl mussel, respiratory action of crayfish in extreme circumstances, change in productivity – competition from other species		
	(River Kent and tributaries Diffuse Water Pollution Plan, 2009/2013)		
	A) River Kent and tributaries	B) Leighton Moss and Hawes Water	
	Pollutants Targeted: sediment, phosphate	Pollutants targeted: Phosphate, nitrate, sediment	
Description of theme	Remedy / Theme: Reduce sediment runoff; reduce nutrient inputs through incentive and advice (River Kent and tributaries Diffuse Water Pollution Plan, 2009/2014)	Remedy / Theme: Reduce nutrient inputs from farming operations (Leighton Moss and Hawes Water Diffuse Water Pollution Plan, 2014)	
Area / holdings to be targeted	This includes, Grayrigg Beck, River Mint, River Sconsidered where works will alleviate surface refined by gaps in Higher Level Stewardship / E	2000) indicating headwaters to be the primary location for erosion. Spring and the River Kent in Kentmere. The River Gowan is also run off Entry Level Stewardship / Environmentally Sensitive Area expiries — e recommendations have not been carried forward edge ectivity, and risk of enterprise via farm visits Ing to N2K (very small catchment)	

	The below items should be available to the CSFO to make a farm specific offer to address highest priority issues
Catchment Sensitive Farming Capital Grant Scheme items to be deployed	The below items should be available to the CSFO to make a farm specific offer to address highest priority issues CSF001 Relocation of gates CSF002 Water gates CSF003 Watercourse fencing CSF004 Fencing for buffer strips, marshes, wet grassland, wet woodland and ponds CSF005 Solar powered electric fence kits for seasonal fencing CSF007 Hard bases for livestock drinkers and feeders CSF008 Pasture pumps and associated pipework CSF009 Ram pumps and associated pipework CSF010 Livestock troughs with associated pipework CSF011 Cross drains on or in farm tracks or within farm yards for clean and dirty water separation CSF012 Sediment ponds and trans CSF013 Swales with check dams CSF014 Yard works for clean and dirty water separation CSF015 Installation of piped culverts in ditches CSF016 Resurfacing of gateways CSF017 Livestock and machinery tracks CSF018 Relocation of sheep dip/pens CSF019 Livestock and machinery tracks CSF021 Livestock and machinery tracks CSF023 Roofing of manure storage and livestock gathering areas CSF026 Roofs for slurry and silage stores including self-feed silage stores
	C31 020 Roots for starry and shage stores including sen-feed shage stores

Catchment where grants will be offered	60. West Cumbria catchments - River Ehen SAC (River Ehen – Ennerdale Water to Keekle confluence)
Rationale for offering grant	The River Ehen is an oligotrophic river, supporting the largest known population of freshwater mussel in England and the only one showing recent recruitment. Maintenance and successful recruitment is dependent on the wellbeing of the whole river system. http://www.sssi.naturalengland.org.uk/citation/citation_photo/2000147.pdf Priority: Phosphate, sediment Impacts: Eutrophication affects feeding and respiration of adult mussels, and smothering of juvenile habitat. Sediments

	carrying phosphate settling on river bed provide nutrient source. Channel bed siltation disrupts recruitment, and results in high mortality rates amongst juvenile mussels and salmonids. (River Ehen Diffuse Water Pollution Plan, 2013)
Description of theme	Pollutants targeted: sediment, phosphate Remedy / Theme: reduce dirty water runoff from identified farms through advice and incentive; reduce sediment input from identified farms through advice and incentive;
Area / holdings to be targeted	 Targeted to sub catchments likely to have greatest impact on pearl mussel populations identification of target farms using local knowledge supported by the EA farm prioritisation tool at a subcatchment level prioritisation of target farms using local knowledge to identify where CSF can maximise benefits and address gaps of work through Pearls in Peril project ground-truthing of target farms to assess connectivity, and risk of enterprise via farm visits
Catchment Sensitive Farming Capital Grant Scheme items to be deployed	The below items should be available to the CSFO to make a farm specific offer to address highest priority issues CSF001 Relocation of gates CSF002 Water gates CSF003 Watercourse fencing CSF004 Fencing for buffer strips, marshes, wet grassland, wet woodland and ponds CSF005 Solar powered electric fence kits for seasonal fencing CSF007 Hard bases for livestock drinkers and feeders CSF008 Pasture pumps and associated pipework CSF009 Ram pumps and associated pipework CSF010 Livestock troughs with associated pipework CSF011 Cross drains on or in farm tracks or within farm yards for clean and dirty water separation CSF012 Sediment ponds and trans CSF013 Swales with check dams CSF014 Yard works for clean and dirty water separation

CS	SF015	Installation of piped culverts in ditches
CS	SF016	Resurfacing of gateways
CS	SF018	Relocation of sheep dip/pens
CS	SF021	Livestock and machinery tracks
CS	SF023	Roofing of manure storage and livestock gathering areas
CS	SF026	Roofs for slurry and silage stores including self-feed silage stores