

New challenges to field margin management

- Dr. Richard Hackett, Hackett Agricultural Consultants
- www.hac.ie

Field margins/Buffer zones

- **STRIPE Buffer:** A surface waterbody is a feature which is capable of holding water permanently or at any stage during the year
- **Nitrates Buffer:** watercourse identified on the OSI 1:10560 map

COUNCIL

COUNCIL DIRECTIVE

of 12 December 1991

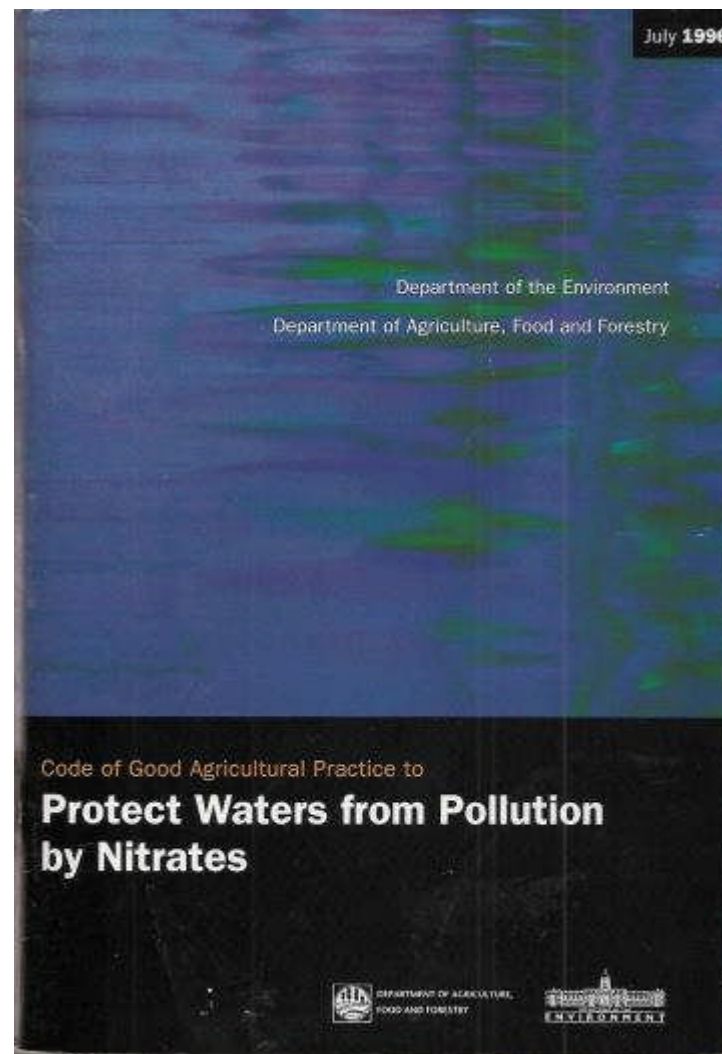
concerning the protection of waters against pollution caused by nitrates from agricultural sources

(91/676/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 130s

Whereas the fourth programme of action of the European Economic Communities on the environment (7) indicated that the Commission intended to make a proposal for a Directive on the control and reduction of water pollution resulting from the spreading or discharge of livestock effluents and the excessive use of fertilizers:



Code of good Agricultural Practice to Protect Waters from Pollution by Nitrates

- **8.3 No Chemical fertiliser should be applied within 1.5 m of a watercourse**

STATUTORY INSTRUMENTS

S.I. No. 788 of 2005

European Communities
(Good Agricultural Practice for Protection of Waters) Regulations 2005

PUBLISHED BY THE STATIONARY OFFICE
DUBLIN

To be purchased directly from the
GOVERNMENT PUBLICATIONS OFFICE
SUN ALLIANCE HOUSE, MOLESWORTH STREET, DUBLIN 2
Or by mail order from
GOVERNMENT PUBLICATIONS, POSTAL TRADE SECTION,
51 ST. STEPHEN'S GREEN, DUBLIN 2.
(Tel: 01 647 6634/35/36/37; Fax: 01 647 6643)
Or through any bookseller

PRN. A5/2117

Price €4.57

PART 4

PREVENTION OF WATER POLLUTION FROM FERTILISERS AND CERTAIN ACTIVITIES

Distances from a water body and other issues

17. (1) Chemical fertiliser shall not be applied to land within 1.5 metres of a surface watercourse.
- (2) Organic fertiliser or soiled water shall not be applied to land within –
 - (a) 200m of the abstraction point of any surface watercourse, borehole, spring or well used for the abstraction of water for human consumption in a water scheme supplying 100m³ or more of water per day or serving 500 or more persons,
 - (b) 100m of the abstraction point (other than an abstraction point specified at paragraph (a)) of any surface watercourse, borehole, spring or well used for the abstraction of water for human consumption in a water scheme supplying 10m³ or more of water per day or serving 50 or more persons,
 - (c) 25m of any borehole, spring or well used for the abstraction of water for human consumption other than a borehole, spring or well specified at paragraph (a) or (b),
 - (d) 20m of a lake shoreline,
 - (e) 15m of exposed cavernous or karstified limestone features (such as swallow-holes and collapse features), or
 - (f) subject to sub-articles (3) and (4), 5m of a surface watercourse (other than a lake or a surface watercourse specified at paragraph (a) or (b)).
- (3) The distance of 5m specified in sub-article (2)(f) may be reduced to 3m where one of the following conditions is met -



STATUTORY INSTRUMENTS.

S.I. No. 31 of 2014

EUROPEAN UNION (GOOD AGRICULTURAL PRACTICE FOR
PROTECTION OF WATERS) REGULATIONS 2014

proportion of the amount of available nitrogen and available phosphorus contained in the total manure produced by such livestock.

- (b) In paragraph (a), the "relevant proportion" means the proportion of a year as is represented by the storage period specified in Schedule 3 in relation to the holding.

PART 4

PREVENTION OF WATER POLLUTION FROM FERTILISERS AND CERTAIN ACTIVITIES

Distances from a water body and other issues

17. (1) Chemical fertiliser shall not be applied to land within 2m of any surface waters.

(2) Organic fertiliser or soiled water shall not be applied to land within—

- (a) 200m of the abstraction point of any surface waters, borehole, spring or well used for the abstraction of water for human consumption in a water scheme supplying 100m³ or more of water per day or serving 500 or more persons,
- (b) 100m of the abstraction point (other than an abstraction point specified in paragraph (a)) of any surface waters, borehole, spring or well used for the abstraction of water for human consumption in a water scheme supplying 10m³ or more of water per day or serving 50 or more persons,
- (c) 25m of any borehole, spring or well used for the abstraction of water for human consumption other than a borehole, spring or well specified in paragraph (a) or (b),
- (d) 20m of a lake shoreline,
- (e) 15m of exposed cavernous or karstified limestone features (such as swallow-holes and collapse features),
- (f) subject to sub-article (13), 5m of any surface waters (other than a lake or surface waters specified at paragraph (a) or (b)), or
- (g) the distance specified in sub-article 2(f) shall be increased to 10m for a period of two weeks preceding and two weeks following the periods specified in Schedule 4.

(3) Notwithstanding the requirements of sub-articles (2)(a), (2)(b) and (2)(c), the following distances shall apply—

- (a) 30m from the abstraction point in the case of any surface waters, borehole, spring or well used for the abstraction of water for human consumption in a water scheme supplying 10m³ or more of water per day or serving 50 or more persons,

(13) Notwithstanding sub-article (2)(f), organic fertiliser or soiled water shall not be applied to land within 10m of any surface waters where the land has an average incline greater than 10% towards the water.

(14) Where farmyard manure is held in a field prior to landspreading it shall be held in a compact heap and shall not be placed within-

(a) 250m of the abstraction point of any surface waters or borehole, spring or well used for the abstraction of water for human consumption in a water scheme supplying 10m³ or more of water per day or serving 50 or more persons,

(b) 50m of any other borehole, spring or well used for the abstraction of water for human consumption other than a borehole, spring or well specified at paragraph (a),

(c) 20m of a lake shoreline,

(d) 50m of exposed cavernous or karstified limestone features (such as swallow-holes and collapse features),

(e) 20m of any surface waters (other than a lake or surface waters specified at paragraph (a)).

(15) Farmyard manure shall not be held in a field at any time during the periods specified in Schedule 4 as applicable to that substance.

(16) Silage bales shall not be stored outside of farmyards within 20m of waters or a drinking water abstraction point in the absence of adequate facilities for the collection and storage of any effluent arising.

(17) No cultivation shall take place within 2m of a watercourse identified on the OSI 1:10560 map except in the case of grassland establishment or the sowing of grass crops.

(18) Supplementary feeding points shall not be located within 20m of waters and shall not be located on the bank of a watercourse.

Requirements as to manner of application of fertilisers, soiled water etc

18. (1) Livestock manure, other organic fertilisers, effluents, soiled water and chemical fertilisers shall be applied to land in as accurate and uniform a manner as is practically possible.

(2) Organic and chemical fertilisers or soiled water shall not be applied to land in any of the following circumstances—

(a) the land is waterlogged;

(b) the land is flooded or likely to flood;

(c) the land is snow-covered or frozen;

Nitrates Regulations si 31 of 2014 European Union (good agricultural practice for protection of waters) regulations 2014

17 (17) No cultivation shall take place within 2m of a watercourse identified on the OSI 1:10560 map except in the case of grassland establishment or the sowing of grass crops.

Buffer Zones are controlled under Nitrates Regulations

Cross compliance, also Nitrates Regulations in themselves

Q Search addresses, eircodes, layers, coordinates ... X

GEOHIVE MAP

Share

Data Catalogue

- ☐ Aerial 2005 i
- ☐ Aerial 2000 i
- ☐ Aerial 1995 i
- ☐ Digital Globe i
- ☒ Historic Map 25 inch (1888-1913) i
- ☐ Historic Map 6 inch B&W (1837-1... i
- ☐ Historic Map 6 inch Colour (1837... i
- ☐ 6 inch Cassini i

- ▶ Nature and Environment
- ▶ Population and Economy

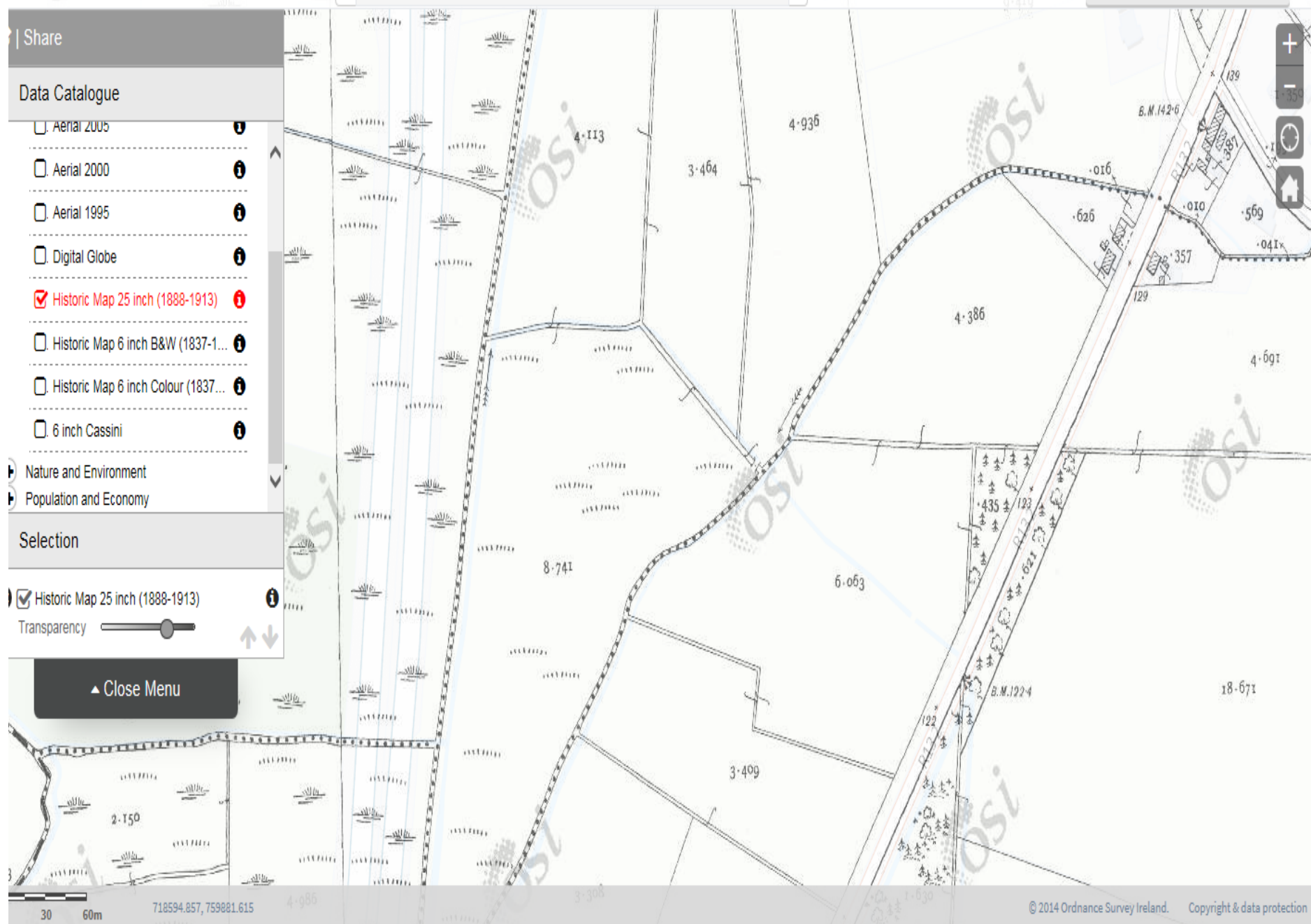
Selection

- ☒ Historic Map 25 inch (1888-1913) i

Transparency



▲ Close Menu



Data Catalogue

- | | |
|--|--|
| <input type="checkbox"/> Aerial 2005 | |
| <input type="checkbox"/> Aerial 2000 | |
| <input type="checkbox"/> Aerial 1995 | |
| <input type="checkbox"/> Digital Globe | |
| <input checked="" type="checkbox"/> Historic Map 25 inch (1888-1913) | |
| <input type="checkbox"/> Historic Map 6 inch B&W (1837-1... | |
| <input type="checkbox"/> Historic Map 6 inch Colour (1837... | |
| <input type="checkbox"/> 6 inch Cassini | |

- ▶ Nature and Environment
- ▶ Population and Economy

Selection

- ☒
- Historic Map 25 inch (1888-1913)

Transparency



▲ Close Menu



Name: Q1770510 Date: 11/02/2014
 Parcel ID: Q1770510-1 Map Scale: 1:2000

Parcel Summary

| Feature | Total Ha. |
|------------------------------|-----------|
| Bulfinch | 0.2806 |
| Dyans | 0.1059 |
| Hodges | 0.8825 |
| Total Linear Landscaping EFA | 1.278 |

Parcel Detail

| Feature | Length | EFA | Factor |
|---------|--------|--------|--------|
| B17 | 5.64 | 0.0061 | 9 |
| B18 | 301.76 | 0.2725 | 9 |
| B23 | 12.21 | 0.071 | 9 |
| D16 | 28.18 | 0.0229 | 9 |
| D14 | 37.60 | 0.0348 | 9 |
| D18 | 23.87 | 0.0147 | 9 |
| D17 | 30.63 | 0.0304 | 9 |
| D20 | 6.3 | 0.0038 | 9 |
| H41 | 109.43 | 0.0647 | 9 |
| H48 | 220.8 | 0.2058 | 10 |





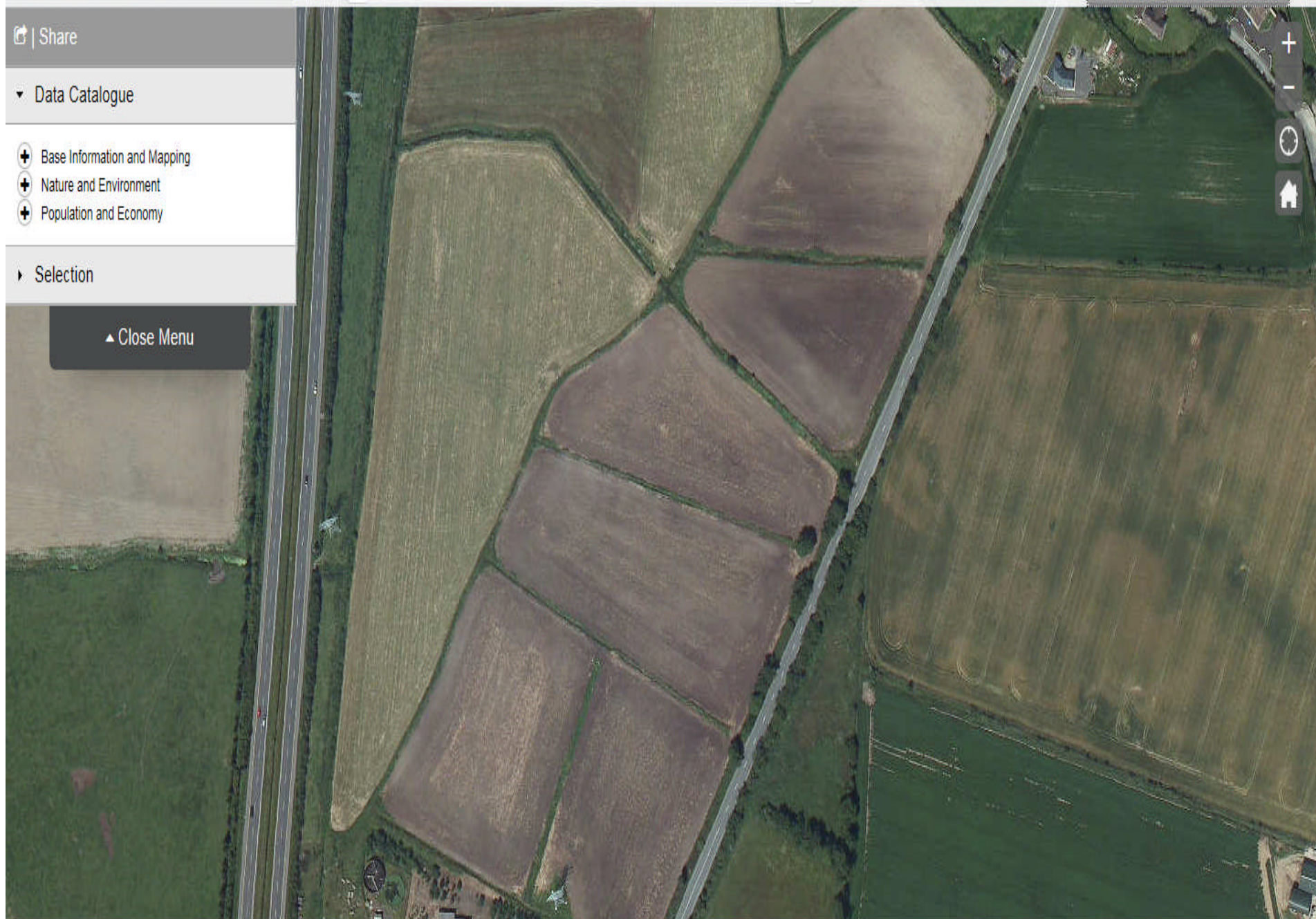
- **Geohive**

- **www.osi.ie**

- **<http://map.geohive.ie/mapviewer.html>**









[Share](#)[Data Catalogue](#)



- [+ Base Information and Mapping](#)
- [+ Nature and Environment](#)
- [+ Population and Economy](#)

[Selection](#)[Close Menu](#)

[Share](#)

▼ Data Catalogue

- ☐ Aerial 2005 
- ☐ Aerial 2000 
- ☐ Aerial 1995 
- ☐ Digital Globe 
- ☐ Historic Map 25 inch (1888-1913) 
- ☐ Historic Map 6 inch B&W (1837-1... 
- ☐ Historic Map 6 inch Colour (1837... 
- ☐ 6 inch Cassini 

 Nature and Environment Population and Economy

▼ Selection

No Layers in the map

▲ Close Menu







































Management of Buffer

- **Chemical control**
 - **STRIPE**
 - **Glyphosate**
- **Annual cutting with hedgecutter**
- **Grass and harvest grass**
- **Grass field altogether**
- **GLAS Arable grass margin (5m required)**
- **Plant hedges**
- **Grass and top**



STRIPE Buffer

- **Waterbody not Watercourse**
- **1 metre to 10 metres from a waterbody**
 - **Product**
 - **Application rate**
 - **Nozzles used, Always keep out 1 metre from waterbody**
- **75% or 90% drift reduction nozzles**
- **Buffers available for many products on PCS website**