

# WELSH SOIL PROJECT

## results to-date



PROSIECT  
PRIDD CYMRU  
WELSH SOIL  
PROJECT 

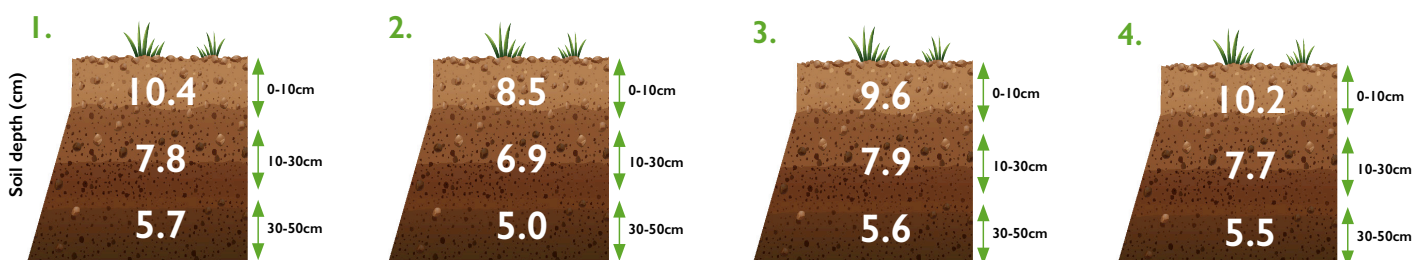
Here we present the findings to-date from the Welsh Soil Project. Five fields under different management practices from varying farming systems were selected for soil sampling to identify any differences in soil carbon stock (field types outlined in Table 1). The data for Field 5 will be analysed independently due to great variation in the nature of the fields sampled within this category.

Table 1: Field categories selected for soil sampling.

Field number	Field type/management
1	Permanent pasture field (>7 years)
2	Silage and/or hay field
3	A field that was recently reseeded (1-7 years)
4	Grazing only field
5	Other – e.g. arable, peatland, herbal ley, stock excluded

## SOIL ORGANIC MATTER

Table 2: Average Soil Organic Matter content (%) of each sampling depth within each field type.



## SOIL CARBON STOCK

The Organic Matter results were converted to Soil Organic Carbon (which is the main constituent of Soil Organic Matter). These figures were then used, along with bulk density data (the weight of dry soil within a known volume), to estimate the carbon stock of the sampled soils, expressed in tonnes per hectare.

Table 3: Average Soil Carbon Stock (t/ha) of each sampling depth within each field type.

Soil depth (cm)	Field number			
	1	2	3	4
0-10	32.4	30.8	32.8	33.3
10-30	57.2	50.2	60.0	58.9
30-50	47.2	40.7	47.8	46.1

For more information and to follow the project's progress, please visit [businesswales.gov.wales/farmingconnect/land/soil/farming-connect-demonstration-network-welsh-soil-project](https://businesswales.gov.wales/farmingconnect/land/soil/farming-connect-demonstration-network-welsh-soil-project) or use the QR code below.



# PROSIECT PRIDD CYMRU

canlyniadau hyd yma



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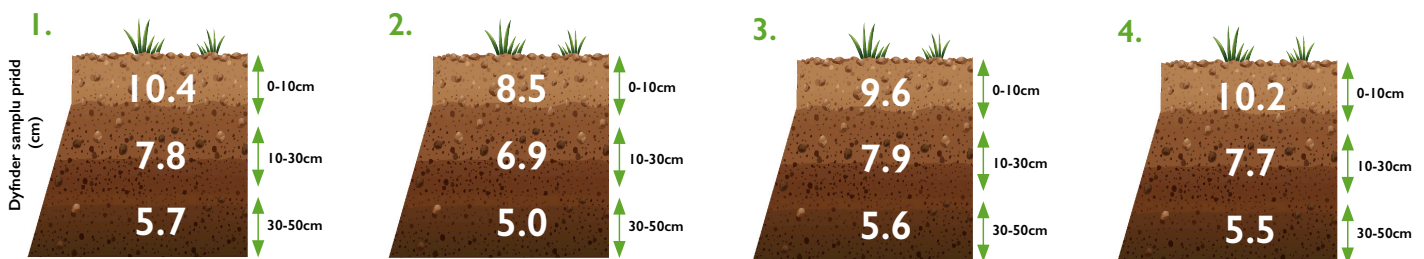
Dyma gyflwyno canlyniadau Prosiect Pridd Cymru hyd yma. Dewisiwyd pum cae o dan arferion rheoli gwahanol o systemau ffermio amrywiol ar gyfer cymryd samplau pridd i ganfod unrhyw wahaniaethau yn stoc garbon y pridd (mathau o gaeau wedi'u hamlinellu yn Nhabl 1). Bydd y data ar gyfer Cae 5 yn cael eu dadansoddi'n annibynnol o ganlyniad i amrywiad mawr yn natur y caeau a samplwyd o fewn y categori hwn.

Tabl 1: Categoriâu caeau a ddewiswyd ar gyfer cymryd samplau pridd.

Rhif y cae	Math o gae/rheolaeth
1	Cae porfa barhaol (>7 mlynedd)
2	Cae silwair a/neu wair
3	Cae sydd wedi ei ail-hadu yn ddiweddar (1 i 7 mlynedd)
4	Cae pori'n unig
5	Arall – e.e. tir â'r, mawnog, gwndwn llysieuol, stoc wedi eu cau allan

## DEUNYDD ORGANIG Y PRIDD

Tabl 2: Deunydd Organig Cyfartalog y Pridd (%) ar gyfer bob dyfnder samplu o fewn bob math o gae.



## STOC CARBON PRIDD

Troswyd canlyniadau Deunydd Organig i Ddeunydd Carbon y Pridd (sef prif gyfansoddyn Deunydd Organig y Pridd). Yna, defnyddiwyd y ffigurau hyn, ynghyd â'r data dwysedd swmp (pwysau pridd sych o fewn cyfaint diffiniedig), er mwyn amcangyfrif stoc garbon y priddoedd a samplwyd, wedi'i fynegi mewn tonnelli fesul hectar.

Tabl 3: Stoc Garbon Gyfartalog y pridd (t/ha) ar gyfer bob dyfnder samplu o fewn bob math o gae.

Dyfnder pridd (cm)	Rhif y cae			
	1	2	3	4
0-10	32.4	30.8	32.8	33.3
10-30	57.2	50.2	60.0	58.9
30-50	47.2	40.7	47.8	46.1

Am fwy o wybodaeth ac i ddilyn datblygiadau'r prosiect, ewch draw i [businesswales.gov.wales/farmingconnect/cy/tir/pridd/rhwydwaith-arddangos-cyswllt-ffermio-prosiect-pridd-cymru](https://businesswales.gov.wales/farmingconnect/cy/tir/pridd/rhwydwaith-arddangos-cyswllt-ffermio-prosiect-pridd-cymru) neu ddefnyddiwch y cod QR isod.



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