

Analysis of seed samples for Grace Twiston-Davies at Exeter University

The analysis of the seed was carried out by counting seed number of small samples, the mixtures will also include small amounts of a wider range of species not found in these analyses. The pictures are included for visual purposes as examples of the species that were found in the samples, but they are not representative of the sample as a whole.

Sample 1 – Seed from Heligan

A mixture of mainly annuals with some perennial species, the sample is fairly clean with an estimated visual chaff content of 5% by weight.

Species (by seed number)	%
<i>Glebionis segetum</i> - Corn Marigold	85
<i>Centaurea cyanus</i> - Cornflower	6
<i>Cota austriaca</i> - Corn Chamomile	1
<i>Crepis vesicaria</i> - Beaked Hawk's-beard	TRACE
<i>Hypochaeris radicata</i> - Catsear	2
<i>Poa annua</i> - Annual Meadow Grass	TRACE
<i>Plantago lanceolata</i> - Ribwort Plantain	2
<i>Persicaria maculosa</i> - Redshank	4
<i>Lapsana communis</i> - Nipplewort	TRACE
Total	100



Clockwise from 12 o'clock:
Plantago lanceolata - Ribwort Plantain
Glebionis segetum - Corn Marigold
Crepis vesicaria - Beaked Hawk's-beard
Glebionis segetum - Corn Marigold
Cota austriaca - Corn Chamomile
Hypochaeris radicata - Catsear
Centaurea cyanus - Cornflower
Persicaria maculosa - Redshank

Sample 2 – Chyvarloe Farm

This sample has a high chaff content, approx. 50% by weight and a high grass seed content.

Species (by seed number)	%
<i>Agrostis capillaris</i> – Common Bent	78
<i>Anthyllis vulneraria</i> - Kidney Vetch	2
<i>Bromus commutatus</i> - Meadow Brome	5
<i>Dactylis glomerata</i> – Cocksfoot	4
<i>Daucus carota</i> - Wild Carrot	1
<i>Festuca rubra</i> - Red Fescue	2
<i>Holcus lanatus</i> - Yorkshire Fog	2
<i>Geranium dissectum</i> - Cut-leaved Crane's-bill	TRACE
<i>Heracleum sphondylium</i> – Hogweed	2
<i>Lathyrus nissolia</i> - Grass Vetchling	TRACE
<i>Lotus corniculatus</i> – Bird’s-foot Trefoil	1
<i>Plantago lanceolata</i> - Ribwort Plantain	2
<i>Ranunculus acris</i> - Meadow Buttercup	1
<i>Trifolium pratense</i> – Wild Red Clover	TRACE
Total	100



Clockwise from 11 o'clock:
Plantago lanceolata - Ribwort Plantain
Agrostis capillaris – Common Bent
Festuca rubra - Red Fescue
Anthyllis vulneraria - Kidney Vetch
Ranunculus acris - Meadow Buttercup
Heracleum sphondylium – Hogweed
Lathyrus nissolia - Grass Vetchling

Sample 3 – Predannack Airfield

This sample has a high chaff content, approx. 50% by weight and a high grass seed content.

Species (by seed number)	%
<i>Agrostis capillaris</i> – Common Bent	75
<i>Anthoxanthum odoratum</i> - Sweet Vernal-grass	2
<i>Bromus commutatus</i> - Meadow Brome	4
<i>Cerastium fontanum</i> - Sticky Mouse Ear	TRACE
<i>Cynosurus cristatus</i> - Crested Dog's Tail	6
<i>Festuca Rubra</i> - Red Fescue	4
<i>Linum catharticum</i> - Fairy Flax	1
<i>Lolium perenne</i> - Perennial rye grass	TRACE
<i>Rhinanthus minor</i> - Yellow Rattle	2
<i>Plantago lanceolata</i> - Ribwort Plantain	2
<i>Trifolium pratense</i> – Wild Red Clover	4
Total	100



Clockwise from 11 o'clock:
Plantago lanceolata - Ribwort Plantain
Agrostis capillaris – Common Bent
Bromus commutatus - Meadow Brome
Trifolium pratense – Wild Red Clover
Cynosurus cristatus - Crested Dog's Tail

Sample 4 – Bodmin 1

This sample has a low chaff content approx. 10% by weight, and a high flower seed content.

Species (by seed number)	%
<i>Agrostis capillaris</i> – Common Bent	14
<i>Anthoxanthum odoratum</i> - Sweet Vernal-grass	8
<i>Centaurea nigra</i> - Common Knapweed	4
<i>Cerastium fontanum</i> - Sticky Mouse Ear	TRACE
<i>Crepis vesicaria</i> - Beaked Hawk's-beard	3
<i>Festuca rubra</i> - Red Fescue	5
<i>Euphrasia officinalis</i> - Eyebright	2
<i>Pilosella officinarum</i> - Mouse-Ear-Hawkweed	TRACE
<i>Plantago lanceolata</i> - Ribwort Plantain	20
<i>Prunella vulgaris</i> - Selfheal	1
<i>Ranunculus acris</i> - Meadow Buttercup	1
<i>Rhinanthus minor</i> - Yellow Rattle	34
<i>Trifolium pratense</i> – Wild Red Clover	8
Total	100



Clockwise from 12 o'clock:

- Rhinanthus minor* - Yellow Rattle
- Crepis vesicaria* - Beaked Hawk's-beard
- Ranunculus acris* - Meadow Buttercup
- Anthoxanthum odoratum* - Sweet Vernal-grass
- Euphrasia officinalis* - Eyebright
- Pilosella officinarum* - Mouse-Ear-Hawkweed
- Centaurea nigra* - Common Knapweed
- Prunella vulgaris* - Selfheal
- Centaurea nigra* - Common Knapweed
- Festuca rubra* - Red Fescue (centre)

Sample 5 – Bodmin 2

This sample has a low chaff content approx. 15% by weight, and a high flower seed content.

Species (by seed number)	%
<i>Agrostis capillaris</i> – Common Bent	15
<i>Anthoxanthum odoratum</i> - Sweet Vernal-grass	10
<i>Centaurea nigra</i> - Common Knapweed	6
<i>Cerastium oontanum</i> - Sticky Mouse Ear	TRACE
<i>Crepis vesicaria</i> - Beaked Hawk's-beard	TRACE
<i>Euphrasia officinalis</i> - Eyebright	4
<i>Festuca Rubra</i> - Red Fescue	15
<i>Hypochaeris radicata</i> - Catsear	4
<i>Linum catharticum</i> – Fairyflax	2
<i>Plantago lanceolata</i> - Ribwort Plantain	8
<i>Ranunculus acris</i> - Meadow Buttercup	2
<i>Rhinanthus minor</i> - Yellow Rattle	30
<i>Trifolium pratense</i> – Wild Red Clover	4
Total	100



Clockwise from 1 o'clock:
Plantago lanceolata - Ribwort Plantain
Rhinanthus minor - Yellow Rattle
Euphrasia officinalis - Eyebright
Crepis vesicaria - Beaked Hawk's-beard
Festuca rubra - Red Fescue
Anthoxanthum odoratum - Sweet Vernal-grass
Hypochaeris radicata - Catsear
Ranunculus acris - Meadow Buttercup
Trifolium pratense – Wild Red Clover
Centaurea nigra - Common Knapweed
Linum catharticum – Fairyflax (centre)