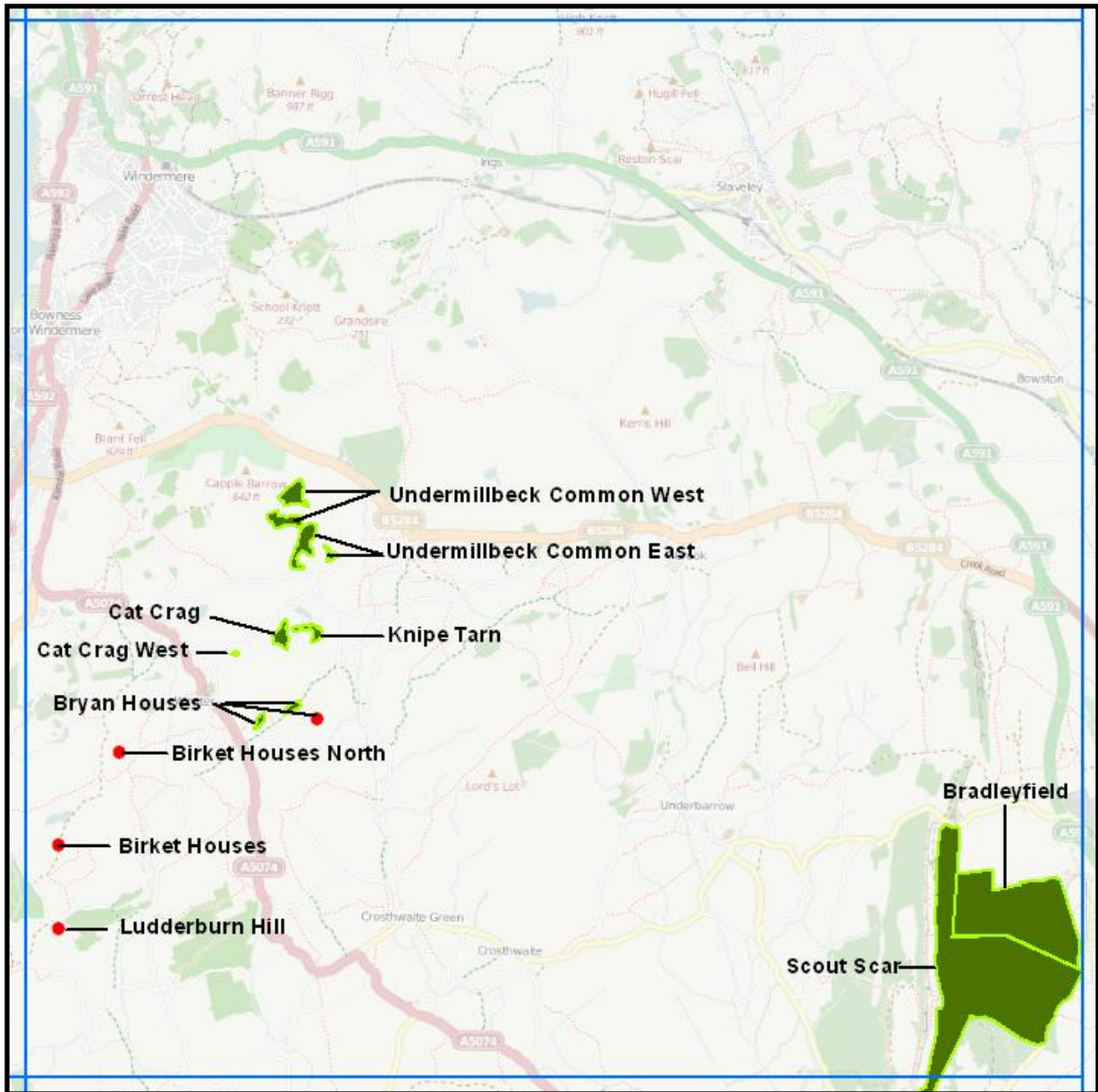


SD49



Sites List:

- | | |
|---------------|---------------------------|
| Jun-SD4091-01 | Ludderburn Hill |
| Jun-SD4092-01 | Birket Houses |
| Jun-SD4093-01 | Birket Houses North |
| Jun-SD4194-01 | Cat Crag West |
| Jun-SD4293-01 | Bryan Houses |
| Jun-SD4294-01 | Knipe Tarn |
| Jun-SD4294-02 | Cat Crag |
| Jun-SD4295-01 | Undermillbeck Common West |
| Jun-SD4295-02 | Undermillbeck Common East |
| Jun-SD4990-01 | Scout Scar |
| Jun-SD4991-01 | Bradleyfield |



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Bryan Houses	Equiv. L. Ward site (s): Green Yew Nr
Site Ref. code: Jun-SD4293-01	Survey date: 30/03/2013
Recorder name (s): H. Corton and P. Howlett	Cent. grid ref: SD 4251 9349
Valley / area: Windermere	Altitude: 110m – 160m.
Aspect: Various	Ownership:

2. Stand area:

- a) Have you changed the boundaries of the stand on the survey map?
Yes
- b) GPS number and track name / label?
N / A
- c) Area of sub stands and total area?

Sub stand	A	B	C							Total
Area										
Confidence	5	5	4							

3. Plant numbers and Juniper sub-species?

Ssp...J.c.comm

Sub stand	A	B	C							Total
Count	29	98	12							139
Method	WT	WT	WT							WT
Confidence	H	H	H							H

4. Dominant Vegetation ...wet grassland and rushes.....

Other habitats / vegetation types present:

- | | |
|-----------------------|---------------------------|
| <u>acid grassland</u> | wet grassland / rushes |
| <u>dry heath</u> | wet heath / mire |
| Limestone grassland | <u>Bracken</u> |
| Scree | Outcrop / cliff |
| Limestone scree | Limestone outcrop / cliff |
| Woodland | |

5. Grazing / browsing (circle appropriate grazing animal)?

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

Sub-stands A and B both browsed and rubbed by cattle or red deer, with lots of broken branches. Outlier C juniper browsed where accessible.

6. Other threats: None

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
X	X	<5%	>75%	present	20%
Comments:					

Are fruit bearing trees present? Yes / no

8. Fixed point photography: Insert Grid reference and compass bearing fixed point photos.

Photo label / Number	Grid Ref.	Comp. bearing	Magnification	Description of fixed point
Jun-SD4293-01A				
Jun-SD4293-01B				
Jun-SD4293-01C				

9. Comments (associated flora and fauna, survey / access difficulties?):

Sub-stand A is the western most patch of juniper, B the largest patch upslope of this to the East, and outlier C is over the wall to the south-east.

This is an old stand under pressure from livestock and red deer browsing and rubbing. Larch, beech, holly and gorse also present.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Undermillbeck West	Equiv. L. Ward site (s): None
Site Ref. code: Jun-SD4295-01	Survey date: 06/11/2012
Recorder name (s): H. Corton and P. Howlett	Cent. grid ref: SD4252 9545
Valley / area: Windermere	Altitude: 150m – 170m
Aspect: Various	Ownership:

2. Stand area:

- b) Have you changed the boundaries of the stand on the survey map?
N / A
- d) GPS number and track name / label?
N / A
- e) Area of sub stands and total area?

Sub stand	A									Total
Area	7.26									7.26ha
Confidence	5									5

3. Plant numbers and Juniper sub-species?

Ssp...*J.c.comm*

Sub stand	A									Total
Count	123									123
Method	WT									WT
Confidence	M									M

4. Dominant Vegetation ...wet grass / rushes.....

Other habitats / vegetation types present:

acid grassland	wet grassland / rushes
dry heath	wet heath / mire
Limestone grassland	<u>Bracken</u>
Scree	<u>Outcrop / cliff</u>
Limestone scree	Limestone outcrop / cliff
Woodland	

5. Grazing / browsing (circle appropriate grazing animal)?

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

Some bushes trampled and damaged by cattle / red deer

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
X	X	10%	90%	X	present
Comments:					

Are fruit bearing trees present? Yes / no

8. Fixed point photography: Insert Grid reference and compass bearing fixed point photos.

Photo label / Number	Grid Ref.	Comp. bearing	Magnification	Description of fixed point

9. Comments (associated flora and fauna, survey / access difficulties?):

Juniper widespread across the common, with concentrations around water courses.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Undermillbeck East	Equiv. L. Ward site (s): None
Site Ref. code: Jun-SD4295-02	Survey date: 03/03/2013
Recorder name (s): H. Corton and P. Howlett	Cent. grid ref: SD4268 9499
Valley / area: Windermere	Altitude: 150 – 180m
Aspect: Various	Ownership:

2. Stand area:

- c) Have you changed the boundaries of the stand on the survey map?
N / A
- f) GPS number and track name / label?
N / A
- g) Area of sub stands and total area?

Sub stand	A									Total
Area	5.66									5.66
Confidence	5									5

3. Plant numbers and Juniper sub-species?

Ssp...*J.c.comm*

Sub stand	A									Total
Count	175									175
Method	WT									WT
Confidence	M									M

4. Dominant Vegetation ...wet grass / rushes.....

Other habitats / vegetation types present:

- | | |
|---------------------|---------------------------|
| acid grassland | wet grassland / rushes |
| dry heath | wet heath / mire |
| Limestone grassland | <u>Bracken</u> |
| Scree | <u>Outcrop / cliff</u> |
| Limestone scree | Limestone outcrop / cliff |
| Woodland | |

5. Grazing / browsing (circle appropriate grazing animal)?

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

Trampling / collapse of bushes due to rubbing cattle?

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
X	X	50%	50%	present	Present
Comments: Dead juniper and gorse in waterlogged areas. Junipers growing in wet areas mostly small but mature (suppressed growth). Few female bushes.					

Are fruit bearing trees present? Yes / no

8. Fixed point photography: Insert Grid reference and compass bearing fixed point photos.

Photo label / Number	Grid Ref.	Comp. bearing	Magnification	Description of fixed point

9. Comments (associated flora and fauna, survey / access difficulties?):

Many of the juniper were in wet areas, while drier areas are covered in dense gorse. All of the scrub is criss-crossed by paths and individual bushes are trampled and damaged.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Scout Scar	Equiv. L. Ward site (s): Helsington Barrows and Bradleyfield
Site Ref. code: Jun-SD4990-01	Survey date: 08/08/2013 and 01/02/2013
Recorder name (s): Mike Douglas	Cent. grid ref: SD4908 9092
Valley / area: Kendal	Altitude: 120m – 220m
Aspect: Various	Ownership:

2. Stand area:

- d) Have you changed the boundaries of the stand on the survey map?
Yes
- h) GPS number and track name / label?
N / A
- i) Area of sub stands and total area?

Sub stand	A									Total
Area	129.9									129.9
Confidence	4									4

3. Plant numbers and Juniper sub-species?

Ssp...*J.c. comm*

Sub stand	A									Total
Count	1888									1888
Method	VP									VP
Confidence	M									M

4. Dominant Vegetation ...Limestone grassland.....

Other habitats / vegetation types present:

- | | |
|------------------------|----------------------------------|
| acid grassland | wet grassland / rushes |
| <u>dry heath</u> | wet heath / mire |
| Limestone grassland | <u>Bracken</u> |
| Scree | Outcrop / cliff |
| <u>Limestone scree</u> | <u>Limestone outcrop / cliff</u> |
| <u>Woodland</u> | |

5. Grazing / browsing (circle appropriate grazing animal)?

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

Generally light to moderate grazing but patchy across the site. In the SE corner, many junipers had apparently been damaged by red deer (1st Feb 2013 survey), with at least five junipers killed recently due to excessive browsing and bark stripping. Many

taller, conical juniper had also been damaged, with branches of more than 2cm diameter snapped off alongside browsing and bark stripping.

6. Other threats: Some juniper on Scout Scar has been confirmed with *Phytophthora austrocedrae* after testing by FERA, but no ill juniper were seen during these surveys.

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
present	present	20%	70%	present	present
Comments: Scout Scar (A): poor mix of age classes suggesting grazing has been heavier than neighbouring Bradleyfield for some time.					

Are fruit bearing trees present? Yes / no

8. Fixed point photography: Insert Grid reference and compass bearing fixed point photos.

Photo label / Number	Grid Ref.	Comp. bearing	Magnification	Description of fixed point
Jun-SD4990-01A	SD 4924 9101	SE		Red deer browsed juniper in the foreground, typical juniper density of Scout Scar illustrated in background.

9. Comments (associated flora and fauna, survey / access difficulties?):

This stand is struggling to regenerate under recent and current grazing pressure. The short cropped nature of the limestone grassland suggests that livestock grazing effects are higher here than those seen at neighbouring Bradleyfield, and the browsing damage and death of a number of juniper (5 dead juniper found during 01/02/2013 survey) suggests that red deer are frequently using the site.

Numerous associated trees included ash, rowan, yew, holly, gorse, hawthorn and dog rose. Isolated sycamore are present but these do not appear to be regenerating strongly.

Six autumn gentians were found at SD 49237 91051.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Bradleyfield	Equiv. L. Ward site (s): Bradleyfield
Site Ref. code: Jun-SD4991-01	Survey date: 1/02/2013
Recorder name (s): M. Douglas	Cent. grid ref: SD 4940 9157
Valley / area: Kendal	Altitude: 150m – 230m
Aspect: Various but predominantly E	Ownership:

2. Stand area:

- e) Have you changed the boundaries of the stand on the survey map?
Yes
- j) GPS number and track name / label?
N / A
- k) Area of sub stands and total area?

Sub stand	A									Total
Area	68.35									68.35ha
Confidence	5									5

3. Plant numbers and Juniper sub-species?

Ssp...*J.c.comm*

Sub stand	A									Total
Count	3270									3270
Method	VP									VP
Confidence	M									M

4. Dominant Vegetation ...Limestone grassland.....

Other habitats / vegetation types present:

- | | |
|------------------------|----------------------------------|
| acid grassland | wet grassland / rushes |
| <u>dry heath</u> | wet heath / mire |
| Limestone grassland | <u>Bracken</u> |
| Scree | Outcrop / cliff |
| <u>Limestone scree</u> | <u>Limestone outcrop / cliff</u> |
| <u>Woodland</u> | |

5. Grazing / browsing (circle appropriate grazing animal)?

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

Light grazing. Difficult to find browsed juniper other than in the SE (fenced) corner where juniper close to the regularly used access track were lightly browsed.

6. Other threats: A case of *Phytophthora austrocedrae* in juniper has been confirmed at Scout Scar.

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
present	10%	30%	60%	X	X
Comments: Healthy stand with good mixture of age classes – 15 seedlings seen during survey.					

Are fruit bearing trees present? Yes / no

8. Fixed point photography: Insert Grid reference and compass bearing fixed point photos.

Photo label / Number	Grid Ref.	Comp. bearing	Magnification	Description of fixed point

9. Comments (associated flora and fauna, survey / access difficulties?):

Conditions for juniper seem to be ideal at Bradleyfield, unlike those over the wall on Scout Scar (Jun-SD4990-01). This looks to be due to lower impacts from livestock and less frequent visits by red deer to this site.

Associated trees included ash, rowan, yew, holly gorse, hawthorn and dog rose.

Isolated sycamore are present but these do not appear to be regenerating strongly.

Saw two green woodpecker and one jack snipe during survey.