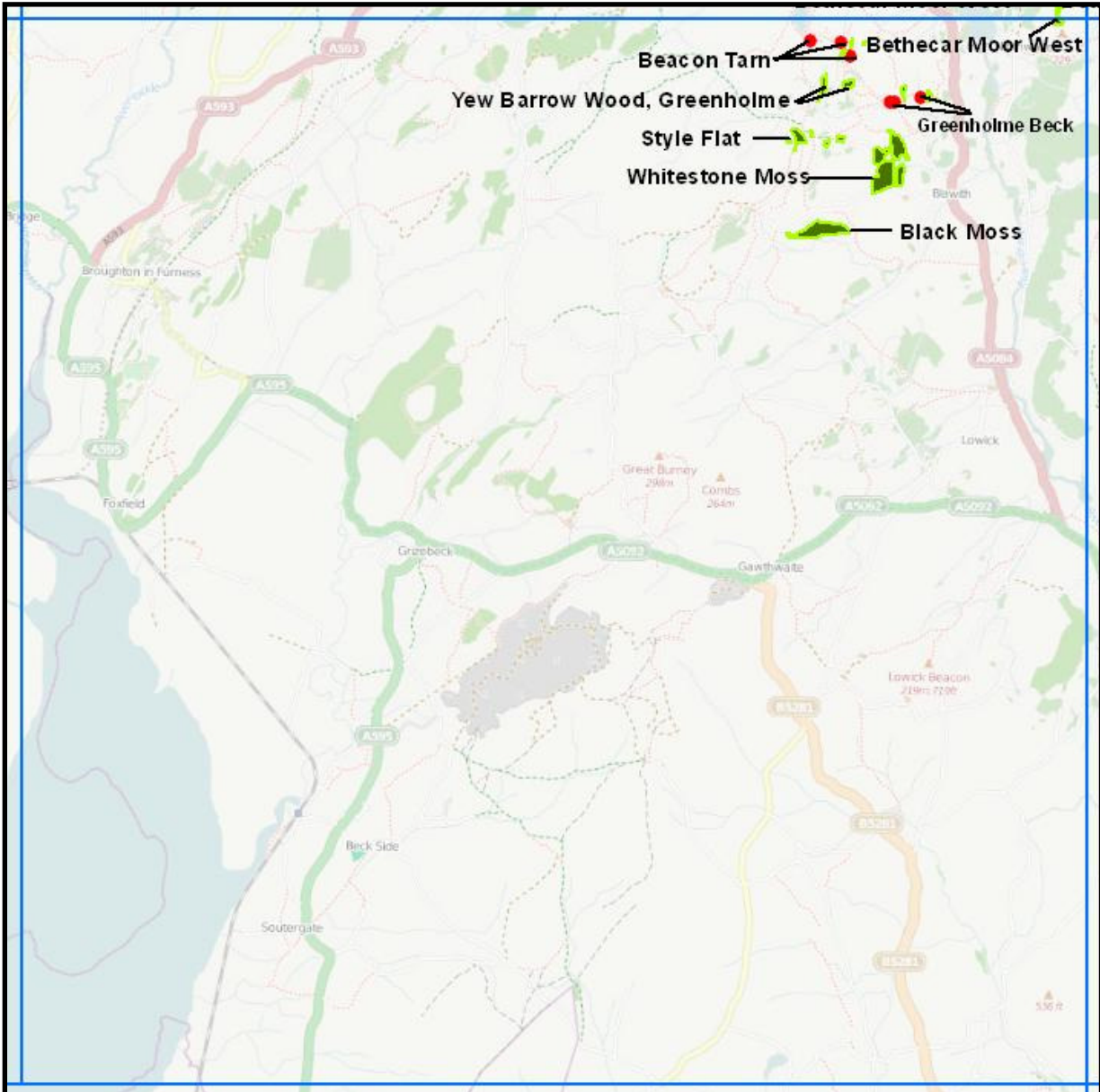


SD28



Sites List:

Jun-SD2788-01	Black Moss
Jun-SD2788-02	Style Flat
Jun-SD2789-01	Beacon Tarn
Jun-SD2789-02	Yew Barrow Wood, Greenholme
Jun-SD2888-01	Whitestone Moss
Jun-SD2889-01	Greenholme Beck
Jun-SD2990-01	Bethocar Moor West



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Black Moss	Equiv. L. Ward site(s): Houlker Hall West
Site Ref. Code: Jun-SD2788-01	Survey date: 23-08-2011
Recorder name (s): P and R Howlett, H Corton	Cent. grid ref: SD 2749 8803
Valley / area: Blawith and Subberthwaite	Altitude: 90 m – 120 m
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									Total
Area	5.13									5.13 ha
Confidence	4									4

3. Plant numbers and Juniper sub-species?

Ssp...J.c.comm.

Sub stand	A									Total
Count	601									601
Method	WT									WT
Confidence	H									H

4. Dominant Vegetation ...wet grassland.....

Other vegetation types present:

acid grassland	wet grassland / rushes
dry heath	wet heath / mire
Limestone grassland	Bracken
Scree	Outcrop / cliff
Limestone scree	Limestone outcrop / cliff

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

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

Grazing impact assessment carried out 01/05/2013 (H. Corton, R. and L. Kingston). Browsing of heather, juniper and cross-leaved heath, and the growth form of heather suggests that current impacts are high, that these impacts are long term and are if anything, increasing.

6. **Other threats:** None obvious

7. **Juniper age:**

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
Few	10%	50%	40%	present	present
Comments: Later visit (01/05/2013) suggested that some of those previously classed as young are actually mature.					

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 seemed to be nearly exclusively in areas free from Bracken, mostly in wet Mire.

Saw Adder, Green Woodpecker nearby. Very undisturbed area.

H had Stonechats and saw a singing Yellowhammer. There is a scrambling track on the hillside opposite the road. It was well away from the Juniper and seemed not to be having any effect.

Very beautiful undisturbed area, lots of flowers, Bog Myrtle, Butterflies & Birds.

The site was revisited on 01/05/2013 by H. Corton and R. and L. Kingston, to carry out Grazing Impact Assessment (see above). The results of this later survey, and the observation that some of the young trees were actually older, moves this stand from 'stable' to 'slow decline.'



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Style Flat	Equiv. L. Ward site (s): Houlker Hall West
Site Ref. Code: Jun-SD2788-02	Survey date: 23/08/2011
Recorder name (s): P and R Howlett, H Corton	Cent. grid ref: SD 2748 8888
Valley / area: Blawith and Subberthwaite	Altitude: 110m – 160m
Aspect: Various	Ownership:

2. Stand area:

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

Sub stand	A									Total
Area	1.82									1.82ha
Confidence	3									3

3. Plant numbers and Juniper sub-species?

Ssp...comm.....

Sub stand	A									Total
Count	364									364
Method	WT									WT
Confidence	H									H

4. Dominant Vegetation ...wet heath / mire.....

Other habitats / vegetation types present:

- | | |
|---------------------|---------------------------|
| acid grassland | wet grassland / rushes |
| dry heath | 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?

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
present	10%	50%	40%	present	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 seemed to be exclusively in areas free of bracken, mostly in wet mire. Saw common frog, common lizard, adder, green woodpecker, stonechat and yellowhammer.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Beacon Tarn	Equiv. L. Ward site (s): Greenholme West (part of)
Site Ref. Code: Jun-SD2789-01	Survey date: 09/08/2011
Recorder name (s): P. and R. Howlett. H. Corton	Cent. grid ref: SD 27720 89710
Valley / area: Subberthwaite	Altitude: 130 – 170 m.
Aspect: various	Ownership:

2. Stand area:

b) Have you changed the boundaries of the stand on the survey map?

Yes

f) GPS number and track name / label?

N / A

g) Area of sub stands and total area?

Sub stand										Total
Area										0.05ha
Confidence										5

3. Plant numbers and Juniper sub-species?

Ssp...J.c. comm.....

Sub stand	1	2	3	4	5					Total
Count	17	27	8	5	3					60
Method	WT	WT	WT	WT	WT					WT
Confidence	H	H	H	H	H					H

4. Dominant Vegetation ...wet heath / mire.....

Other vegetation types present:

acid grassland

wet grassland / rushes

dry heath

wet heath / mire

Limestone grassland

Bracken

Scree

Outcrop / cliff

Limestone scree

Limestone outcrop / cliff

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

Sheep

Cattle

Red Deer

Other

Indicators of high grazing / browsing pressure?

None. Re-visit Jan 2013 (MD): 100% of accessible juniper shoots browsed.

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
<1%	10%	50%	40%	10%	<1%
Comments: Very few seedlings					

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?):

Seemingly young trees in wet mire have stems of more than 2.5cm at base.

Sub-stands are numbered from East to West, with the eastern most substand (1) with 17 bushes and the western most (5) with 3 bushes.

Re-visit Jan 2013 (MD): Many bushes previously assessed as young seem to be mature, based on diameter at base (>25mm).



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Yew Barrow Wood, Greenholme.	Equiv. L. Ward site (s): Greenholme West (part of)
Site Ref. Code: Jun-SD2789-02	Survey date: 09/08/2011
Recorder name (s): P and R Howlett, H. Corton	Cent. grid ref: SD 27550 489380
Valley / area: Subberthwaite	Altitude: 110 – 140 m.
Aspect: Various	Ownership:

2. Stand area:

- c) 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										Total
Area										1.52ha
Confidence										5

3. Plant numbers and Juniper sub-species?

Ssp...J.c.comm.....

Sub stand	1	2								Total
Count	106	74								180
Method	WT	WT								WT
Confidence	H	H								H

4. Dominant Vegetation ...wet heath / mire.....

Other vegetation types present:

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

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

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

MD visited the stand on 22/01/2013 and found that 100% of this years shoots had been browsed (western sub-stand).

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
<1%	10%	50%	40%	10%	<1%
Comments: Very few seedlings					

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?):

Seemingly young trees in wet mire have stems of more than 2.5cm at base. MD visited on 22/01/2013 and estimated that there were 55 juniper in the western sub-stand and that 80% of these were old, 5% mature and 5% dead.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Torver Low Common	Equiv. L. Ward site (s): Torver Low Common, E and W
Site Ref. Code: Jun-SD2792-01	Survey date: 16/10/2011
Recorder name (s): D. Benham, B. King	Cent. grid ref: SD27270 92820
Valley / area: Coniston	Altitude: 120 – 140m
Aspect: various	Ownership:

2. Stand area:

d) Have you changed the boundaries of the stand on the survey map?

Yes

j) GPS number and track name / label?

k) Area of sub stands and total area?

Sub stand	1	2	3							Total
Area	0.08	0.7	0.2							0.98ha
Confidence	5	5	5							5

3. Plant numbers and Juniper sub-species?

Ssp...comm.....

Sub stand	1	2	3							Total
Count	38	450	89							577
Method	count	count	Count							Ex. Count
Confidence	h	h	h							H

4. Dominant Vegetationwet heath / mire.....

Other vegetation types present:

acid grassland

wet grassland / rushes

dry heath

wet heath / mire

Limestone grassland

Bracken

Scree

Outcrop / cliff

Limestone scree

Limestone outcrop / cliff

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

Sheep

Cattle

Red Deer

Other

Indicators of high grazing / browsing pressure?

Little grazing of this year's vegetation but junipers appear to be grazed at some point every year.

6. Other threats: None

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
present	present	present	present	present	present
Comments: BK and D. Benham: 35% young, 35% mature and 20% old. MD (22/01/2013): 5% young, 65% mature and 20% old.					

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-SD2792-01A	SD2714 9266	35 degrees		Rock outcrop view to Hazel Hall
Jun-SD2792-01B	SD2724 9278	60 degrees		View NE along valley mire
Jun-SD2792-01C				

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

Occasional rowan, hawthorn and holly present. Many junipers browsed very low and lost within bog asphodel, *Molinia* and cross-leaved heath. Some *Drosera intermedia* beside streams.

MD visited on 22/01/2013 and found that only one of 15 apparently young trees had a stem diameter at base of less than 25mm, which suggests that most of the bushes originally classed as old are mature.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Torver Beck	Equiv. L. Ward site (s): Coniston Arrow
Site Ref. Code: Jun-SD2796-01	Survey date: 30/08/2011
Recorder name (s): P. Howlett, R. Howlett, H. Corton	Cent. grid ref: SD27330 96340
Valley / area: Coniston	Altitude: 290 – 350m
Aspect: 135 degrees.	Ownership:

2. Stand area:

e) Have you changed the boundaries of the stand on the survey map?

Yes

l) GPS number and track name / label?

m) Area of sub stands and total area?

Sub stand	A									Total
Area	0.76									0.76ha
Confidence	3									3

3. Plant numbers and Juniper sub-species?

Ssp...comm

Sub stand	A									Total
Count	44									44
Method	VP									VP
Confidence	H									H

4. Dominant Vegetation/ habitat

Other vegetation / habitats present:

acid grassland	<u>wet grassland / rushes</u>
dry heath	<u>wet heath / mire</u>
Limestone grassland	Bracken
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?

Most juniper growing in areas inaccessible to sheep

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
	present	present	present	present	
Comments: Trees inaccessible to difficult to assess proportions within each age class					

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?):



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Coniston Limestone	Equiv. L. Ward site (s): Con Limestone
Site Ref. Code: Jun-SD2796-02	Survey date: 30/08/2011
Recorder name (s): Peter and Ruth Howlett, Hilary Corton	Cent. grid ref: SD27900 96870
Valley / area: Coniston	Altitude: 340 – 470 m
Aspect: 135 degrees	Ownership:

2. Stand area:

- f) Have you changed the boundaries of the stand on the survey map?
Yes
- n) GPS number and track name / label?
- o) Area of sub stands and total area?

Sub stand										Total
Area										0.21ha
Confidence										3

3. Plant numbers and Juniper sub-species? Ssp...comm

Sub stand	1	2	3	4	5	6	7			Total
Count	90	5	2	3	1	4	11			116
Method	VP	VP	VP	VP	VP	VP	VP			VP
Confidence	H	H	H	H	H	H	H			H

4. Dominant Vegetation/ habitat

Other vegetation / habitats present:

- acid grassland wet grassland / rushes
- dry heath wet heath / mire
- Limestone grassland Bracken
- 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?

Juniper growing in areas inaccessible to sheep

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
	present	present	present	Present	
Comments: Trees inaccessible so difficult to assess proportions in each age class					

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?):



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Hookler Hall	Equiv. L. Ward site (s): Hookler Hall
Site Ref. Code: Jun-SD2888-01	Survey date: 15/07/2011
Recorder name (s): MD PH RH RS	Central grid ref: SD28190 88680
Valley / area: Blawith	Altitude: 80 – 90m
Aspect: Various	Ownership:

2. Stand area:

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

Sub stand										Total
Area										
Confidence										

3. Plant numbers and Juniper sub-species? Ssp.....

Sub stand	A	B	C	D	E					Total
Count	294	581	175	91	127					1268
Method	WT	WT/Vant	WT/Vant	Vantage	WT					
Confidence	H	L	M	M	H					

4. Dominant Vegetation ...Wet grassland.....

Other vegetation types present:

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

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

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

Little grazing at present – tall grass sward and good growth of dwarf shrub heath and Juniper.

BUT – signs of part heavy grazing pressure within growth of Heather

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
Present	20%	50%	30%	Present	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
				NONE

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

Numerous associated Birch, Rowan, Willow and occasional Yew, Ash, Holly, Hawthorn and Gorse.

Ground flora outside Bracken = Wet grassland/misc. species: Sorrel, Grass of Parnasus, Bog Asphodel, Sundew, Cranberry and Sphagnums.

Birds: Linnet, Willow Warbler, Whitethroat, Bullfinch, Redpoll, Siskin, Tree Pipit, Yellowhammer, Wren, Chaffinch and Buzzard.

Restoration Potential: Numerous seedlings and young trees illustrate natural regeneration. If there has been a recent reduction in grazing, further regeneration could be encouraged with scarification.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Greenholme Beck	Equiv. L. Ward site (s): Greenholme East
Site Ref. Code: Jun-SD2889-01	Survey date: 09/08/2011
Recorder name (s): P and R Howlett	Cent. grid ref: SD28500 89280
Valley / area: Subberthwaite	Altitude: 70 – 100m.
Aspect: 180 degrees	Ownership:

2. Stand area:

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

Sub stand										Total
Area										
Confidence										

3. Plant numbers and Juniper sub-species?

Ssp...comm.....

Sub stand	1	2	3	4	5	6				Total
Count	6	1	32	62	2	8				111
Method	WT	WT	WT	WT	WT	WT				WT
Confidence										H

4. Dominant Vegetation ...Bracken.....

Other vegetation types present:

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

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

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

None

6. Other threats:

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
<1%	10%	50%	40%	10%	<1%
Comments: Very few seedlings					

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?):

Seemingly young trees in wet mire have stems of more than 2.5cm at base.



Uplands for Juniper Project – Survey Form

1. Site details

Site Name: Blawith Common	Equiv. L. Ward site (s): Stable Harvey and Long Scars
Site Ref. code: Jun-SD2890-01	Survey date: 28/11/12 and 18/12/12 and 19/04/11 (MD).
Recorder name (s): P and C Matthiessen	Cent. grid ref: SD2862 9091
Valley / area: Coniston	Altitude: 50m – 200m
Aspect: Various	Ownership:

2. Stand area:

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

Sub stand	A	B	C	D	E	F	G	H	I	J	Total
Area											16.65ha
Confidence	5	3	5	3	3	5	3	3	3	3	3

3. Plant numbers and Juniper sub-species?

Ssp...J.c.comm

Sub stand	A	B	C	D	E	F	G	H	I	J	Total
Count	7	7	325	20	35	55	70	37	35	190	781
Method	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP	VP
Confidence	H	H	M	L	L	H	M	M	M	M	M

4. Dominant Vegetation ...Bracken.....

Other habitats / vegetation types present:

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

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

Sheep Cattle Red Deer Other

Indicators of high grazing / browsing pressure?

No seedling juniper found and very few young bushes recorded. Swaledale sheep browsing juniper during survey. MD – 22/01/2013 – 100% of shoots browsed on some bushes at sub-stand J.

6. Other threats: Shading by bracken and tall trees

7. Juniper age:

Estimate Percentage					
seedling	young	mature	old	Ill	Dead
X	present	40%	55%	5%	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?):

Mostly scattered juniper growing on wet ground away from dense bracken and other tree species.

Boundary and count confidence ratings are low so some juniper may have been missed during surveys, and drawn boundaries may not encompass all juniper within each patch.

Point A is the southernmost point and the sequence follows an anti-clockwise route from this point, C being the largest sub-stand and J the highest altitude sub-stand.

MD re-surveyed sub-stand J on 22/01/2013, counting 190 juniper (M confidence), and more than 70% of these were old. No young juniper or seedlings were seen.

Browsing was patchy but on some bushes 100% of last years shoots were browsed off. Scattered yew, holly, rowan and large ash were present, and further down slope there were more birch, oak and ash with occasional willow species along stream sides.