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SUPPLEMENTARY INFORMATION.

SI-1: Summary of Data Collected at Wolstonbury (scrub clearance).

Site and Quadrat ID's	Coordinates	Elevation (m)	Aspect (°)	Slope (°)	Soil Depth (cm)	Date of Scrub Clearance	Time Since Dec 2020 (months)	Numbers Species Counted
Site: S1 Quadrats: S11, S12	505438N 001056W	111	300	20	11	April 2020	8	12,15
Site: S2 Quadrats: S21, S22	505434N 001051W	142	280	25	11	Jan 2020	11	14,14
Site: S3 Quadrats: S31, S32	505442N 011059W	83	330	25	25	Sept 2019	15	19,15
Site: S4 Quadrats: S41, S42	505439N 000958W	117	240	5	8.5	Nov 2018	25	18,18
Site: S5 Quadrats: S51, S52	001100N 505442W	79	330	10	25+	Oct 2018	26	24,25
Site: S6 Quadrats: S61, S62	505430N 000946W	108	325	30	17	Dec 2017	36	19,20
Site: S7 Quadrats: S71, S72	505429N 001048W	84	325	37	16	Sept 2017	39	18,18
Site: S8 Quadrats: S81, S82	505439N 001019W	142	360	38	6.5	Mar 2017	45	19,19
Site: S9 Quadrats: S91, S92	505444N 001049W	79	335	35	18.5	Jan 2017	47	24,24
Site: S10 Quadrats: S101, S102	505429N 000949W	109	340	28	12.5	Oct 2016	50	23,22
Site: S11 Quadrats: S111, S112	505432N 001047W	150	250	18	14	Sept 2016	51	21,18
Site: S12 Quadrats: S121, S122, S123	505444N 001047W	79	335	35	10	Jan 2016	59	22,24,25
Site: S13 Quadrats: S131, S132, S133	505440N 001009W	129	360	23	7	Dec 2015	60	22,24,23
Site: S14 Quadrats: S141, S142, S143	505439N 001018W	129	325	38	8	Sept 2015	63	28,32,28
Site: S15 Quadrats: S151, S152, S153	505437N 001031W	202	335	10	8	Jan 2015	71	27,26,25
Site: S16 Quadrats: S161, S162, S163	505438N 001033W	189	340	30	9	Oct 2014	74	26,25,25

SI-2: Scrub Clearance Sites – Quadrat Surveys (see Glossary for Latin names).

Site S1/Quadrat S11 TOTAL = 12	Site S1/Quadrat S12 TOTAL = 15	Site S2/Quadrat S21 TOTAL = 14	Site S2/Quadrat S22 TOTAL = 14
Cowslip	Cowslip	Cocksfoot	Cowslip
Ground ivy	Ground ivy	Cowslip	Upright brome
Upright brome	Upright brome	Ground ivy	Yellow rattle
White clover	Spear thistle	Upright brome	Selfheal
Oregano	Salad burnet	Oregano	Dewberry
Mouse ear hawkweed	Germander speedwell	Common hogweed	Oregano
Selfheal	Cat's ear	Hedge bedstraw	Hedge bedstraw
Salad burnet	St John's wort	Yellow rattle	Common hogweed
Cat's ear	Selfheal	Ragwort	Ribwort plantain
Rough hawkbit	Twayblade	Selfheal	Ground ivy
Milkwort	Agrimony	Cat's ear	Lady's bedstraw
Bird's foot trefoil	Bird's foot trefoil	Lady's bedstraw	Dandelion
	Yellow rattle	Agrimony	Cocksfoot
	Wild basil	Dandelion	Agrimony
	Yarrow		

Site S3/Quadrat S31 TOTAL = 19	Site S3/Quadrat S32 TOTAL = 15	Site S4/Quadrat S41 TOTAL = 18	Site S4/Quadrat S42 TOTAL = 18
Nettle	Wood avens	Ground ivy	Ragwort
Dandelion	Germander speedwell	Dwarf thistle	Germander speedwell
Germander speedwell	St John's wort	Dandelion	Meadow buttercup
Oregano	Oregano	Germander speedwell	Tor grass
Ground ivy	Dewberry	Dewberry	Ribwort plantain
Goose grass	Cowslip	Rough cinquefoil	Dwarf thistle
Dock	Twayblade	Ragwort	Oregano
Hawksbeard	Cut leaf crane's bill	Ribwort plantain	Mouse ear chickweed
Bird's eye speedwell	Wild arum	White clover	Cut leaf crane's bill
Spear thistle	Goose grass	Cat's ear	Silver cinquefoil
Evergreen buglos	Ground ivy	Oregano	Common hogweed
Cat's ear	Bittersweet	Common hogweed	Agrimony
Ground elder	Cocksfoot	Tor grass	White clover
Hoary willowherb	Sheep's fescue	Cocksfoot	Cocksfoot
Bristly ox-tongue	Meadow oat grass	Mouse ear chickweed	Ground ivy
Cut leaf crane's bill		Silver cinquefoil	Ox-eye daisy
St John's wort		Cut leaf crane's bill	Wood avens
Meadow oat grass		Meadow buttercup	Dewberry
Cocksfoot			

Site S5/Quadrat S51 TOTAL = 24	Site S5/Quadrat S52 TOTAL = 25	Site S6/Quadrat S61 TOTAL = 19	Site S6/Quadrat S62 TOTAL = 20
Meadow buttercup	Hoary willowherb	Bugle	Bugle
Germander speedwell	Bluebell	Hedge bedstraw	Wild arum
Common burdock	Rough cinquefoil	Cowslip	Oregano
Common hogweed	Dock	Ribwort plantain	Creeping thistle
Creeping buttercup	Ground ivy	Dewberry	White clover
Dewberry	Germander speedwell	Selfheal	Morning glory
Houndtongue	Creeping thistle	Oregano	Germander speedwell
Ground ivy	Field madder	Yellow rattle	Creeping buttercup
Wood violet	Common hogweed	Wild mint	Hawthorn
Creeping thistle	Common burdock	Hawthorn	Ground ivy
Bristly ox-tongue	Dewberry	Germander speedwell	Twayblade
Dock	Agrimony	Twayblade	Dogwood
Rough cinquefoil	Creeping buttercup	Ground ivy	Yellow rattle
Wood avens	Chicory	Creeping buttercup	Hedge bedstraw
Yorkshire fog	Oregano	White clover	St John's wort
Hairy oat grass	White clover	Wood avens	Bird's foot trefoil
White clover	Cowslip	Bird's foot trefoil	Ribwort plantain
Cowslip	St John's wort	Elm	Stitchwort
Ragwort	Selfheal	Bryony	Cocksfoot
St John's wort	Ribwort plantain		Selfheal
Selfheal	Hairy oat grass		
Ribwort plantain	Sheep's fescue		
Sheep's fescue	Cocksfoot		
Cocksfoot	Spring sedge		
	Yorkshire fog		

Site S7/Quadrat S71 TOTAL = 18	Site S7/Quadrat S72 TOTAL = 18	Site S8/Quadrat S81 TOTAL = 19	Site S8/Quadrat S82 TOTAL = 19
Cowslip	Milkwort	Ribwort plantain	C'n spotted orchid
Dewberry	Salad burnet	Milkwort	Upright brome
Selfheal	Upright brome	Cat's ear	Blue sedge
Salad burnet	Cocksfoot	Upright brome	Dwarf thistle
Meadow oat grass	Oregano	Salad burnet	Cowslip
Upright brome	Ribwort plantain	Yellow rattle	Mouse ear hawkweed
Cocksfoot	Selfheal	Early purple orchid	Sheep sorrel
Lady's bedstraw	Dog violet	Dog violet	Salad burnet
Hedge bedstraw	Mouse ear hawkweed	Blue sedge	Creeping thistle
Ribwort plantain	Meadow oat grass	Purslane	Milkwort
Milkwort	Common hogweed	Hedge bedstraw	Meadow oat grass
Cat's ear	Cat's ear	C'n spotted orchid	Yellow rattle
Orange hawkbit	Cowslip	Mouse ear hawkweed	Cut leaf crane's bill
Twayblade	Hedge bedstraw	White clover	Cat's ear
Bird's foot trefoil	Lady's bedstraw	Bird's foot trefoil	Cocksfoot
Mouse ear hawkweed	Dewberry	Selfheal	Rough hawkbit
Dog violet	Bird's foot trefoil	Rough hawkbit	Dog violet
Oregano	Rough hawkbit	Twayblade	Oregano
		Cowslip	Hedge bedstraw

Site S9/Quadrat S91 TOTAL = 24	Site S9/Quadrat S92 TOTAL = 24	Site S10/Quadrat S101 TOTAL = 23	Site S10/Quadrat S102 TOTAL = 22
Bird's foot trefoil	Cowslip	Rough cinquefoil	Cowslip
Germander speedwell	St John's wort	Dewberry	Germander speedwell
Dewberry	Selfheal	Oregano	Twayblade
Hawthorn	Ribwort plantain	Milkwort	Wild mint
St John's wort	Upright brome	Early purple orchid	White clover
Dwarf thistle	Dewberry	Hedge bedstraw	Dogwood
Hedge bedstraw	Milkwort	Mouse ear hawkweed	Yellow rattle
Lady's bedstraw	Salad burnet	Wild strawberry	Cat's ear
Selfheal	Bird's foot trefoil	Wood violet	Dewberry
Ribwort plantain	Wood violet	Bee orchid	Oregano
Common daisy	Oregano	Germander speedwell	Morning glory
Salad burnet	Hedge bedstraw	Dogwood	C'n spotted orchid
Rough hawkbit	Lady's bedstraw	Twayblade	Rough cinquefoil
Cowslip	Yarrow	Ground ivy	Creeping buttercup
Meadow oat grass	Rough hawkbit	Bird's foot trefoil	Bird's foot trefoil
White clover	Moneywort	Creeping buttercup	Hedge bedstraw
Ragwort	White clover	Greater butterfly orchid	Mouse ear hawkweed
Scarlet pimpernel	Meadow oat grass	Cowslip	Ground ivy
Rough cinquefoil	Twayblade	Yellow rattle	Field scabious
Wood violet	Dock	Hawthorn	Wood violet
Oregano	Scarlet pimpernel	Devil's bit scabious	Cocksfoot
Upright brome	Rough cinquefoil	White clover	Hawthorn
Field scabious	Agrimony	Cocksfoot	
Agrimony	Dwarf thistle		

Site S11/Quadrat S111 TOTAL = 21	Site S11/Quadrat S112 TOTAL = 18
Cowslip	Smooth meadow grass
Ground ivy	Cowslip
Selfheal	Ground ivy
Upright brome	Common hogweed
Yorkshire fog	Upright brome
Agrimony	Lady's bedstraw
Cat's ear	Hedge bedstraw
St John's wort	Germander speedwell
Salad burnet	Cat's ear
Creeping thistle	Oregano
Meadow oat grass	Ribwort plantain
Rough hawkbit	Bird's foot trefoil
Germander speedwell	Wild basil
Bird's foot trefoil	Agrimony
Creeping buttercup	Rough cinquefoil
Rough cinquefoil	Rough hawkbit
Hedge bedstraw	Creeping buttercup
Lady's bedstraw	Dwarf thistle
Wild basil	
Oregano	
Ribwort plantain	

Site S12/Quadrat S121 TOTAL = 22	Site S12/Quadrat S122 TOTAL = 24	Site S12/Quadrat S123 TOTAL = 25
Creeping buttercup	Cowslip	St John's wort
St John's wort	Dewberry	Fleabane
Oregano	St John's wort	Creeping buttercup
Dewberry	Old man's beard	Oregano
Germander speedwell	Oregano	Dewberry
Dwarf thistle	Cocksfoot	Germander speedwell
Agrimony	Agrimony	Dwarf thistle
Ribwort plantain	Germander speedwell	Hedge bedstraw
Hedge bedstraw	Common daisy	Lady's bedstraw
Lady's bedstraw	Rough cinquefoil	Nettle
Mouse ear chickweed	Hedge bedstraw	Selfheal
Old man's beard	Ribwort plantain	Dock
Rough cinquefoil	Lady's bedstraw	Cowslip
Nettle	Nettle	White clover
Selfheal	Mallow	Old man's beard
Fleabane	Field madder	Mouse ear chickweed
Dock	Meadow vetchling	Agrimony
Lungwort	Forget me not	Yorkshire fog
Houndstongue	Dock	Common daisy
Cocksfoot	White clover	Sycamore
Cowslip	Sycamore	Bramble
White clover	Bramble	Houndstongue
	Creeping buttercup	Forget me not
	Houndstongue	Rough cinquefoil
		Ribwort plantain

Site S13/Quadrat S131 TOTAL = 22	Site S13/Quadrat S132 TOTAL = 24	Site S13/Quadrat S133 TOTAL = 23
Dewberry	Cocksfoot	Ground ivy
Germander speedwell	Upright brome	Germander speedwell
Ragwort	Germander speedwell	Common burdock
Oregano	Wood avens	Cowslip
Cocksfoot	Dandelion	Mock strawberry
Sheep sorrel	White clover	Oregano
Comfrey	Mouse ear chickweed	Field madder
Common hogweed	Oregano	Hedge bedstraw
Agrimony	Agrimony	Cocksfoot
Brown knapweed	Lady's bedstraw	Upright brome
White clover	Dewberry	Rough cinquefoil
Meadow buttercup	Black medick	Dock
Cut leaf crane's bill	Yellow rattle	White clover
Cat's ear	Fleabane	Lady's bedstraw
Sorrel	Cut leaf crane's bill	Creeping buttercup
Ground ivy	Herb Robert	Elder
Upright brome	Sycamore	Wood violet
Fleabane	Common hogweed	Ox-eye daisy
Mouse ear chickweed	Sheep sorrel	Cat's ear
Mock strawberry	Yellow avens	Agrimony
Rough cinquefoil	Cat's ear	Dewberry
Ribwort plantain	Mock strawberry	Ribwort plantain
	Rough cinquefoil	Wild arum
	Ribwort plantain	

Site S14/Quadrat S141 TOTAL = 28	Site S14/Quadrat S142 TOTAL = 32	Site S14/Quadrat S143 TOTAL = 28
Milkwort	Germander speedwell	Cocksfoot
Cowslip	Oregano	Germander speedwell
Yellow rattle	Cocksfoot	Silver cinquefoil
Upright brome	Silver cinquefoil	Agrimony
Ribwort plantain	Agrimony	Dandelion
St John's wort	Dandelion	St John's wort
Dog violet	St John's wort	Red clover
Dwarf thistle	Dog violet	Dewberry
Cat's ear	Lady's bedstraw	Cat's ear
Early purple orchid	Salad burnet	Yellow rattle
Salad burnet	Rough hawkbit	Ribwort plantain
Mallow	Yellow rattle	Purslane
Cut leaf crane's bill	Ground ivy	Rough hawkbit
White clover	Opium poppy	Selfheal
Mouse ear chickweed	Ribwort plantain	Bird's foot trefoil
Field bindweed	White clover	Lady's bedstraw
Bird's foot trefoil	Purslane speedwell	Hedge bedstraw
Blue sedge	Dewberry	Dog violet
Cocksfoot	Red clover	Twayblade
Field scabious	Cat's ear	Blue sedge
Mouse ear hawkweed	Early purple orchid	Common daisy
Common daisy	Blue sedge	Oregano
Germander speedwell	Rough cinquefoil	Cut leaf crane's bill
Oregano	Sycamore	Salad burnet
Rough hawkbit	Selfheal	Mouse ear hawkweed
Dewberry	Wild angelica	Dwarf thistle
Lady's bedstraw	Bird's foot trefoil	Upright brome
Hedge bedstraw	Buckthorn	Cowslip
	Hedge bedstraw	
	Twayblade	
	Bellflower	
	Silver cinquefoil	

Site S15/Quadrat S151 TOTAL = 27	Site S15/Quadrat S152 TOTAL = 26	Site S15/Quadrat 153 TOTAL = 25
Common henbit	Germander speedwell	Rough cinquefoil
Germander speedwell	Dewberry	Bird's foot trefoil
Dwarf thistle	Dwarf thistle	Hedge bedstraw
Dewberry	Sheep sorrel	Common hogweed
Sheep sorrel	Common hogweed	Sheep sorrel
Common hogweed	Bird's foot trefoil	Dwarf thistle
Lady's bedstraw	Hedge bedstraw	Germander speedwell
Hedge bedstraw	Lady's bedstraw	Dewberry
Cocksfoot	Yarrow	Yorkshire fog
Cat's ear	Cat's ear	Cat's ear
Selfheal	Selfheal	Oregano
Lesser burdock	Lesser burdock	Ground ivy
Oregano	Oregano	Field bindweed
White clover	White clover	Common tormentil
Upright brome	Upright brome	Yarrow
Ribwort plantain	Ribwort plantain	Selfheal
Yellow rattle	Yellow rattle	Ribwort plantain
Crested hair grass	Cocksfoot	Yellow rattle
Rough cinquefoil	Dog violet	Upright brome
Ground ivy	Crested hair grass	Crested hair grass
Spreading hedge parsley	Rough cinquefoil	Common henbit
Dog violet	Spreading hedge parsley	Lady's bedstraw
Field bindweed	Ground ivy	White clover
Common tormentil	Field bindweed	Dog violet
Rough hawkbit	Rough hawkbit	Cocksfoot
Yarrow	Common tormentil	
Bird's foot trefoil		

Site S16/Quadrat S161 TOTAL = 26	Site S16/Quadrat S162 TOTAL = 25	Site S16/Quadrat S163 TOTAL = 25
Cowslip	Heath spotted orchid	Common spotted orchid
Moneywort	Yellow rattle	Yellow rattle
Bulbous buttercup	Cowslip	Cocksfoot
Ribwort plantain	Milkwort	Cowslip
Milkwort	Ribwort plantain	Yarrow
Mouse ear hawkweed	Mouse ear hawkweed	Salad burnet
Yarrow	Yarrow	Lady's bedstraw
Creeping buttercup	Salad burnet	Field bindweed
Salad burnet	Meadow oat grass	Common tormentil
Meadow oat grass	Upright brome	Hedge bedstraw
Upright brome	Oregano	Milkwort
Oregano	White clover	White clover
Ox-tongue hawkweed	Bird's foot trefoil	Hawthorn
White clover	Common tormentil	Cat's ear
Bird's foot trefoil	Hedge bedstraw	Sheep sorrel
Lady's bedstraw	Hawthorn	Meadow oat grass
Hairy sedge	Cat's ear	Upright brome
Common tormentil	Lady's bedstraw	Creeping thistle
Rough hawkbit	Hairy sedge	Oregano
Hedge bedstraw	Creeping buttercup	Ox-tongue hawkweed
Vetch	Dwarf thistle	Mouse ear hawkweed
Hawthorn	Rough hawkbit	Hairy sedge
Cat's ear	Dog violet	Bird's foot trefoil
Dog violet	Meadow buttercup	Ribwort plantain
Sheep sorrel	Field bindweed	Dwarf thistle
Field bindweed		

SI-3: Summary of Data Collected at Friston (mowing).

SITE AND QUADRAT ID	COORDINATES	NUMBER OF SPECIES	ELEVATION (m)	ASPECT (°)	SLOPE (°)	SOIL DEPTH (cm)
M1	504556N 001122E	16	40	310	15	17
M2	504555N 001121E	19	46	355	15	15
M3	504556N 001123E	13	41	045	10	19.5
M4	504557N 001124E	20	37	030	12	19
M5	504555N 001124E	13	38	295	5	14
M6	504557N 001124E	13	39	295	5	21
M7	504558N 001124E	17	36	310	12	19
M8	504558N 001125E	16	38	270	5	16
M9	504557N 001125E	15	39	255	10	16
M10	504559N 001128E	9	38	240	12	17
M11	504559N 001127E	9	37	310	10	15
M12	504558N 001127E	10	39	230	8	18
M13	504600N 001129E	12	39	250	5	16
M14	504600N 001129E	10	40	250	5	24
M15	504600N 001130E	8	42	250	10	18

SI-4: Mowing Sites – Quadrat Surveys (see Glossary for Latin names).

Site/Quadrat M1 TOTAL = 16	Site/Quadrat M2 TOTAL = 19	Site/Quadrat M3 TOTAL = 13	Site/Quadrat M4 TOTAL = 20
Germander speedwell	Germander speedwell	Cowslip	Ribwort plantain
Cowslip	Cowslip	Creeping buttercup	Cowslip
Ribwort plantain	Ground ivy	Rough cinquefoil	Germander speedwell
Hawkbit rough	Salad burnet	Red fescue	Red fescue
Cinquefoil-rough	Lady's bedstraw	Selfheal	Smooth meadow grass
Yarrow	Sheep sorrel	Springy turf moss	Meadow vetchling
Speedwell – bird's eye	Mouse ear chickweed	Germander speedwell	Rough cinquefoil
Lady's bedstraw	Springy turf moss	Devil's bit scabious	Hawkbit rough
Red fescue	Sorrel	Hawkbit rough	Cat's ear
Bulbous buttercup	Red fescue	Purslane	Salad burnet
Mouse ear chickweed	Rough cinquefoil	Cocksfoot	Creeping buttercup
Wood violet	Dove's foot cranesbill	Lady's bedstraw	Oregano
Meadow buttercup	Selfheal	Cat's ear	White clover
Sorrel	Creeping buttercup		Dewberry
Devil's bit scabious	Red clover		Selfheal
Creeping thistle	Creeping thistle		Black medick
	Field bindweed		Dandelion
	Yarrow		Bird's foot trefoil
	Spear thistle		Blue sedge
			Yarrow

Site/Quadrat M5 TOTAL = 13	Site/Quadrat M6 TOTAL = 13	Site/Quadrat M7 TOTAL = 17	Site/Quadrat M8 TOTAL = 16
Cowslip	Ribwort plantain	Mouse ear chickweed	Salad burnet
Germander speedwell	Cowslip	Meadow buttercup	Ribwort plantain
Hawkbit rough	Hawkbit rough	Ribwort plantain	Cat's ear
Sheep sorrel	Dandelion	Blue sedge	Hawkbit rough
Mouse ear chickweed	Germander speedwell	Salad burnet	Meadow buttercup
Meadow vetchling	Red fescue	Germander speedwell	Germander speedwell
Mouse ear hawkweed	Rough cinquefoil	Hawkbit rough	Rough cinquefoil
Bird's foot trefoil	Cat's ear	Rough cinquefoil	Sheep sorrel
Smooth meadow grass	Sheep sorrel	Cat's ear	Yellow rattle
Red fescue	Meadow vetchling	Yarrow	Cowslip
Cat's ear	Meadow buttercup	Yellow rattle	Cocksfoot
Ribwort plantain	Salad burnet	Lady's bedstraw	Smooth meadow grass
Salad burnet	Sorrel	Smooth meadow grass	Red fescue
		Red fescue	Blue sedge
		Meadow vetchling	Lady's bedstraw
		Sheep sorrel	Meadow vetchling
		Sorrel	

Site/Quadrat M9 TOTAL = 15	Site/Quadrat M10 TOTAL = 9	Site/Quadrat M11 TOTAL = 9	Site/Quadrat M12 TOTAL = 10
Meadow vetchling	Red fescue	Germander speedwell	Twayblade
Ribwort plantain	Meadow buttercup	Sheep sorrel	Red fescue
Germander speedwell	Sorrel	Red fescue	Smooth meadow grass
Salad burnet	Rough hawkbit	Mouse ear chickweed	Ribwort plantain
Lady's bedstraw	Germander speedwell	Rough cinquefoil	Cat's ear
Cocksfoot	Cat's ear	Bulbous buttercup	Germander speedwell
Red fescue	Rough cinquefoil	Smooth meadow grass	Sorrel
Rough hawkbit	Dandelion	Sorrel	Knapweed
Smooth meadow grass	Cocksfoot	Cocksfoot	Rough hawkbit
Rough cinquefoil			Sheep sorrel
Selfheal			
Sheep sorrel			
Yarrow			
Cowslip			
Sorrel			

Site/Quadrat M13 TOTAL = 12	Site/Quadrat M14 TOTAL = 10	Site/Quadrat M15 TOTAL = 8
Ribwort plantain	Red fescue	Germander speedwell
Sheep sorrel	Smooth meadow grass	Meadow buttercup
Red fescue	Sorrel	Sorrel
Meadow buttercup	Germander speedwell	Ribwort plantain
Dandelion	Creeping buttercup	Red fescue
Sorrel	Hairy sedge	Rough cinquefoil
Smooth meadow grass	Bird's foot trefoil	Mouse ear chickweed
Germander speedwell	Salad burnet	Hairy sedge
Selfheal	Cocksfoot	
Meadow oat grass	Dandelion	
Rough hawkbit		
Bird's foot trefoil		

SI-5: Summary of Data Collected at Fore Down (grazing).

SITE AND QUADRAT ID	COORDINATES	NUMBER OF SPECIES	ELEVATION (m)	ASPECT (°)	SLOPE (°)	SOIL DEPTH (cm)
G1	504747N 001039E	20	115	345	10	15
G2	504747N 001041E	22	118	315	12	11
G3	504747N 001043E	24	121	305	15	13
G4	504747N 001051E	20	128	315	15	14
G5	504747N 001053E	15	128	285	15	11
G6	504745N 001042E	23	129	310	12	25
G7	504740N 001047E	23	135	010	8	6
G8	504743N 001050E	25	135	205	8	7
G9	504742N 001052E	18	132	115	15	15
G10	504743N 001045E	19	136	160	5	15
G11	504743N 001045E	20	136	310	5	10
G12	504742N 001051E	22	133	140	30	10
G13	504741N 001048E	20	134	090	5	8
G14	504740N 001050E	20	131	090	25	11
G15	504738N 001049E	20	130	090	12	11

SI-6: Grazing Sites – Quadrat Surveys (see Glossary for Latin names).

Site/Quadrat G1 TOTAL = 20	Site/Quadrat G2 TOTAL = 22	Site/Quadrat G3 TOTAL = 24	Site/Quadrat G4 TOTAL = 20
White clover	Dwarf thistle	Germander speedwell	Vetch
Germander speedwell	Creeping buttercup	Ragwort	Germander speedwell
Ribwort plantain	Germander speedwell	Red fescue	Dewberry
Salad burnet	Ribwort plantain	Lady's bedstraw	Feather moss
Yarrow	Lady's bedstraw	Feather moss	Salad burnet
Cat's ear	Wild thyme	Wild thyme	Yarrow
Lady's bedstraw	Rough cinquefoil	Daisy – common	Rough cinquefoil
Dewberry	Cat's ear	Marsh thistle (?)	Red fescue
Ragwort	Dandelion	Sheep sorrel	Sheep sorrel
Field bindweed	Ragwort	Field bindweed	Ribwort plantain
Red clover	Red fescue	Wild strawberry	Wild sage
Wild thyme	Selfheal	Red clover	Hawthorn
Dog violet	Dog violet	White clover	Morning glory
Dropwort	Mouse ear hawkweed	Brown knapweed	Field bindweed
Hairy sedge	Milkwort	Ribwort plantain	Rough hawkbit
Rough hawkbit	Wild strawberry	Dewberry	Ragwort
Rosebay willowherb	Feather moss	Creeping buttercup	Meadowsweet
Dock	Rough hawkbit	Yarrow	Cat's ear
Mouse ear chickweed	White clover	Dandelion	Burnet saxifrage
St John's wort	Red clover	Dock	Creeping thistle
	Brown knapweed	Salad burnet	
	Devil's bit scabious	Rough hawkbit	
		Mouse ear chickweed	
		Hairy sedge	

Site/Quadrat G5 TOTAL = 15	Site/Quadrat G6 TOTAL = 23	Site/Quadrat G7 TOTAL = 23	Site/Quadrat G8 TOTAL = 25
Germander speedwell	Creeping thistle	Germander speedwell	Selfheal
Hawthorn	Germander speedwell	Dewberry	Salad burnet
Hogweed (common)	Dewberry	Mouse ear hawkweed	Germander speedwell
Dewberry	Creeping buttercup	Burnet saxifrage	Yarrow
Lesser burdock	Salad burnet	Ragwort	Bird's foot trefoil
St John's wort	Yarrow	Lady's bedstraw	Cat's ear
Male fern	Hairy sedge	Cat's ear	Dewberry
Red fescue	Red fescue	Sheep sorrel	Cocksfoot
Ragwort	Lady's bedstraw	Bird's foot trefoil	Red fescue
Nettle	Ribwort plantain	Forget me not	Ragwort
Bittersweet	Milkwort	Viper's buglos	Creeping buttercup
Dandelion	Hawthorn	Ground ivy	Sheep sorrel
Houndstongue	Upright brome	Rough hawkbit	Wild sage
Meadow buttercup	Sorrel	Red fescue	Lady's bedstraw
Herb robert	White clover	St John's wort	St John's wort
	Ragwort	Old man's beard	Mouse ear hawkweed
	Dandelion	Sorrel	Hairy sedge
	Mouse ear hawkweed	Spear thistle	Sorrel
	Devil's bit scabious	Stork's bill	Couch grass
	Mouse ear chickweed	Hawthorn	Hawthorn
	Cowslip	Sticky cinquefoil	Rosebay willowherb
	Forget me not	Dandelion	Field wood rush
	Bird's eye speedwell	Salad burnet	Oregano
		Brown knapweed	Spear thistle
			Dropwort

Site/Quadrat G9 TOTAL = 18	Site/Quadrat G10 TOTAL = 19	Site/Quadrat G11 TOTAL = 20	Site/Quadrat G12 TOTAL = 22
Germander speedwell	Milkwort	Germander speedwell	Dewberry
Ground ivy	Dewberry	Dewberry	Germander speedwell
Old man's beard	Cat's ear	Yarrow	Sweet vernal grass
Hawthorn	Selfheal	Selfheal	Hawthorn
Creeping thistle	Yarrow	Ground ivy	Bird's foot trefoil
Spiny sowthistle	Red fescue	Hawthorn	Cocksfoot
St John's wort	Salad burnet	Cat's ear	Wild sage
Bugle	Germander speedwell	Rosebay willowherb	Old man's beard
Upright brome	Ribwort plantain	Sheep sorrel	Ground ivy
Hoary willowherb	Hawthorn	Wild strawberry	Red fescue
Elder	Dandelion	Burnet saxifrage	Sheep sorrel
Rosebay willowherb	Sheep sorrel	Ragwort	Dandelion
Salad burnet	Sandwort	Cocksfoot	Common centaury
Rough hawkbit	Burnet saxifrage	Upright brome	Dog violet
Dewberry	Dog violet	Black medick	Male fern
Foxglove	Field scabious	Field bindweed	Burnet saxifrage
Forget me not	Wild basil	Dandelion	Lady's bedstraw
Bryony	Ground ivy	Red fescue	White clover
	Dwarf thistle	Milkwort	Ragwort
		St John's wort	Spear thistle
			Cat's ear
			Ribwort plantain

Site/Quadrat G13 TOTAL = 20	Site/Quadrat G14 TOTAL = 20	Site/Quadrat G15 TOTAL = 20
Germander speedwell	Germander speedwell	Mock strawberry
Dewberry	Dewberry	Dewberry
Yarrow	Sheep sorrel	Germander speedwell
Red fescue	Red fescue	Creeping buttercup
Salad burnet	Selfheal	Salad burnet
Mouse ear chickweed	Hairy sedge	Yarrow
Hawthorn	Cocksfoot	Field bindweed
St John's wort	Male fern	Ribwort plantain
Milkwort	Creeping thistle	Milkwort
Wild strawberry	Hawthorn	Dropwort
Sheep fescue	Spiny sowthistle	Wild basil
Selfheal	Salad burnet	Selfheal
Ribwort plantain	Burnet saxifrage	Red fescue
Hairy sedge	Houndstongue	Hairy sedge
Dandelion	Ragwort	Hawthorn
Ragwort	Dog violet	Creeping thistle
Cut leaf crane's bill	Sorrel	Ragwort
Cocksfoot	Wild sage	Bird's foot trefoil
Cat's ear	Old man's beard	Ground ivy
Dog violet	Cat's ear	Sheep sorrel

SI-7: ADDITIONAL SITE NOTES

i) Scrub Clearance Sites.

SITE	ADDITIONAL NOTES
S1	Open site, steepish slope, hedge/tree line close, no shade, exposed
S2	Open site, steepish slope, hedge/tree line close, no shade, exposed
S3	Steep slope, no shrubs, low level veg, no shade, close to treeline, exposed
S4	Bottom of slope, flatish site, no shade, occasional hawthorn
S5	Open, gentle slope, no shade, no shrubs, low level veg, woodland edge, exposed
S6	Gentle slope, field-like site surrounded by trees, no shade, 'Orchid Bank'
S7	Steep slope, very exposed, no shade, open ground
S8	Steep slope, very open to north, soil slippage, sheep tracks
S9	Steepish slope, close to treeline, occasional mature hawthorn (3m+ high)
S10	Field-like, surrounded by trees, gentle slope, no shade, 'Orchid Bank'
S11	Open, steepish slope, treeline close, no shade, exposed
S12	As 9, shallower soil, exposed chalk
S13	Large sycamore mid-site, moderate slope, close to treeline
S14	Steep slope, gaps in soil- soil slippage downslope, very exposed
S15	Hilltop, gentle slope, occasional gorse/hawthorn bush, exposed
S16	Hillside, open aspect, just down from hilltop

ii) Mowing Sites.

SITE	ADDITIONAL NOTES
M1	Close to hedge line, large sycamore along road at edge, downslope.
M2	Southern end of field, close to tall trees and shrubs, some shade.
M3	Trees to east, no real shade, upslope.
M4	Northern side of field, downslope. Trees to north, no shade.
M5	Centre field – very exposed.
M6	Shaded by trees to south at times during day. Upslope
M7	Downslope, no shade.
M8	Centre field, no shade.
M9	Upslope, some shade from south east during day.
M10	Upslope, mostly grass, no shade.
M11	Centre field, mostly grass, no shade.
M12	Upslope, open, no shade.
M13	Flat, corner field surrounded on two sides by trees but no shade.
M14	Almost flat, no shade, tree line close.
M15	Upslope, morning shade, open with trees to south east.

iii) Grazing Sites.

SITE	ADDITIONAL NOTES
G1	Bottom of slope, low level veg, tall grasses
G2	Bottom of slope, low level veg, tall grasses, uneven ground
G3	As G1 and G2
G4	Downslope, next to mixed copse
G5	By gate, close to mixed copse, lots of bare patches on ground
G6	Hillside, low level veg
G7	Hill top, even ground, low level veg
G8	Hill top, even ground, low level veg
G9	Ground very uneven
G10	Very uneven ground
G11	Bottom of small tumulus, uneven ground
G12	Mid height grasses, some bare patches/dead veg
G13	Low level veg, ground even
G14	Lots of dewberry, uneven ground
G15	Lots of dewberry, uneven ground

SI-8: Species/Site List- Wolstonbury

* denotes species can be considered predominantly calcareous.

Species Name/Site	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Cowslip	●	●	●		●	●	●	●	●	●	●	●	●	●		●
Ground Ivy *	●	●	●	●	●	●				●	●		●	●	●	
Upright Brome *	●	●					●	●	●		●		●	●	●	●
White Clover	●			●	●	●		●	●	●		●	●	●	●	●
Oregano *	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mouse-earHawkweed *	●						●	●		●				●		●
Selfheal	●	●			●	●	●	●	●		●	●		●	●	
Salad Burnet *	●						●	●	●		●			●		●
Cat's Ear	●	●	●	●			●	●		●	●		●	●	●	●
Rough Hawkbit *	●						●	●	●		●			●	●	●
Milkwort	●						●	●	●	●				●		●
Bird's Foot Trefoil	●					●	●	●	●	●	●			●	●	●
Spear Thistle	●		●													
Germander Speedwell	●		●	●	●	●			●	●	●	●	●	●	●	
St John's Wort	●		●		●	●			●		●	●		●		
Twayblade *	●		●			●	●	●	●	●				●		
Agrimony *	●	●		●	●				●		●	●	●	●		
Yellow Rattle	●	●				●		●		●			●	●	●	●
Wild Basil *	●								●		●					
Yarrow	●														●	●
Cocksfoot		●	●	●	●	●	●	●		●		●	●	●	●	●
Common Hogweed		●		●	●		●				●		●		●	
Hedge Bedstraw *		●				●	●	●	●	●	●	●	●	●	●	●
Lady's Bedstraw *		●					●		●		●	●	●	●	●	●
Ragwort		●		●	●				●				●			
Dandelion		●	●	●									●	●		
Dewberry		●	●	●	●	●	●		●	●		●	●	●	●	
Ribwort Plantain		●		●	●	●	●	●	●		●	●	●	●	●	●
Nettle			●									●				
Goose Grass			●													
Dock			●		●				●			●	●			
Hawksbeard			●													
Bird's eye speedwell			●													
Evergreen Buglos *			●													
Ground Elder			●													
Hoary willowherb *			●		●											
Bristly ox-tongue *			●		●											
Cut-leaf Crane's bill *			●	●				●					●	●		
Meadow Oat Grass *			●				●	●	●		●					●
Wood avens			●	●	●	●							●			
Wild arum			●			●							●			
Bittersweet			●													
Sheep's fescue *			●		●											
Dwarf thistle *				●				●	●		●	●		●	●	●

Rough cinquefoil				•	•				•	•	•	•	•	•	•	
Tor grass *				•												
Mouse ear chickweed				•							•	•	•			
Silver cinquefoil *				•									•			
Meadow buttercup *				•								•				•
Ox-eye daisy *				•								•				
Common burdock					•											
Creeping buttercup					•	•				•		•	•			•
Houndstongue *					•							•				•
Wood violet					•				•	•			•			
Creeping thistle					•	•			•							•
Yorkshire Fog					•					•	•				•	
Hairy oat grass					•											
Bluebell					•											
Field madder *					•							•	•			
Vetch																•
Chicory					•											
Spring sedge *					•											
Common tormentil															•	•
Bugle *						•										
Wild mint						•										
Hawthorn						•			•	•						•
Elm						•										
Hairy sedge																•
Bryony *						•										
Morning glory						•				•						
Dogwood						•				•						
Stitchwort						•										
Bell flower *															•	
Orange hawkbit *							•									
Dog violet							•	•						•	•	•
Early purple orchid *								•		•				•		
Blue sedge *								•								
Purslane speedwell								•						•		
Common spotted orchid *								•		•						•
Sheep sorrel								•					•		•	•
Common daisy									•							
Scarlet Pimpernel *									•							
Field scabious *									•	•				•		
Moneywort									•							•
Wild strawberry										•						
Bee orchid *										•						
Greater Butterfly orchid *										•						
Devil's bit scabious										•						
Wild mint										•						
Smooth meadow grass											•					
Old man's beard *												•				
Fleabane												•	•			

SI-9: Spearman Rank Test Calculation – Scrub Clearance/Numbers of Species.

Data Set A	Rank A	Data Set B	Rank B	d	d ²
8	36.5	12	37	0.5	0.25
8	36.5	15	33.5	3	9
11	34.5	14	35.5	1	1
11	34.5	14	35.5	1	1
15	32.5	19	25.5	7	49
15	32.5	15	33.5	1	1
25	30.5	18	30	0.5	0.25
25	30.5	18	30	0.5	0.25
26	28.5	24	14	14.5	210.25
26	28.5	25	9	19.5	380.25
36	26.5	19	25.5	1	1
36	26.5	20	23	3.5	12.25
39	24.5	18	30	5.5	30.25
39	24.5	18	30	5.5	30.25
45	22.5	19	25.5	3	9
45	22.5	19	25.5	3	9
47	20.5	24	14	6.5	42.25
47	20.5	24	14	6.5	42.25
50	18.5	23	17.5	1	1
50	18.5	22	20	1.5	2.25
51	16.5	21	22	5.5	30.25
51	16.5	18	30	13.5	182.25
59	14	22	20	6	36
59	14	24	14	0	0
59	14	25	9	5	25
60	11	22	20	9	81
60	11	24	14	3	9
60	11	23	17.5	6.5	42.25
63	8	28	2.5	5.5	30.25
63	8	32	1	7	49
63	8	28	2.5	5.5	30.25
71	5	27	4	1	1
71	5	26	5.5	0.5	0.25
71	5	25	9	4	16
74	2	26	5.5	3.5	12.25
74	2	25	9	7	49
74	2	25	9	7	49

[Reference: Geographyfieldwork.com, 2021]

N=37

Sum of d² (Σd^2) = 1474.5
<i>R_s</i> value
0.8252

SI-10: Spearman Rank Test Calculation – Novel species/time since scrub clearance.

Data Set A	Rank A	Data Set B	Rank B	d	d ²
8	16	3	13	3	9
11	15	2	14	1	1
15	14	11	1	13	169
25	13	5	7.5	5.5	30.25
26	12	10	2.5	9.5	90.25
36	11	8	4.5	6.5	42.25
39	10	1	15.5	5.5	30.25
45	9	5	7.5	1.5	2.25
47	8	4	11	3	9
50	7	5	7.5	0.5	0.25
51	6	1	15.5	9.5	90.25
59	5	10	2.5	2.5	6.25
60	4	8	4.5	0.5	0.25
63	3	4	11	8	64
71	2	4	11	9	81
74	1	5	7.5	6.5	42.25
Sum of d² (Σd^2) = 667.5					
<i>R_s</i> value					
0.0184					

N = 37

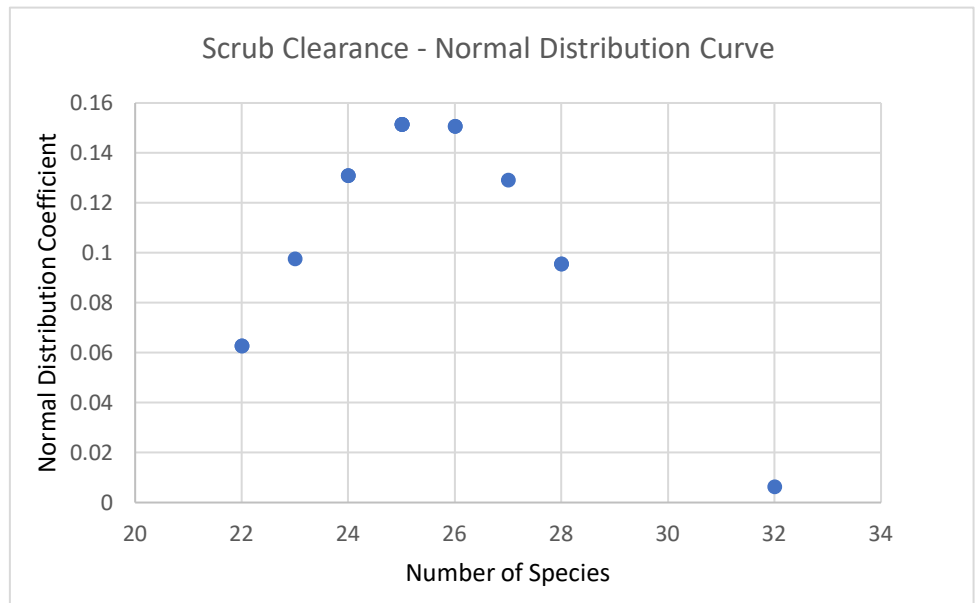
[Reference: Geographyfieldwork.com, 2021]

SI-11: ANOVA – Normal Distribution of Data [Excel]

The scrub clearance, mowing and grazing survey datasets were tested to ensure they were normally distributed and therefore appropriate for use with ANOVA. Excel data analysis calculated the normal distribution statistics (with reference to the Descriptive Statistics – SI 13) and an Excel scattergraph was created for each dataset. The graphs all produced a bell curve pattern and therefore, the datasets were all shown to be normally distributed.

1. Scrub Clearance

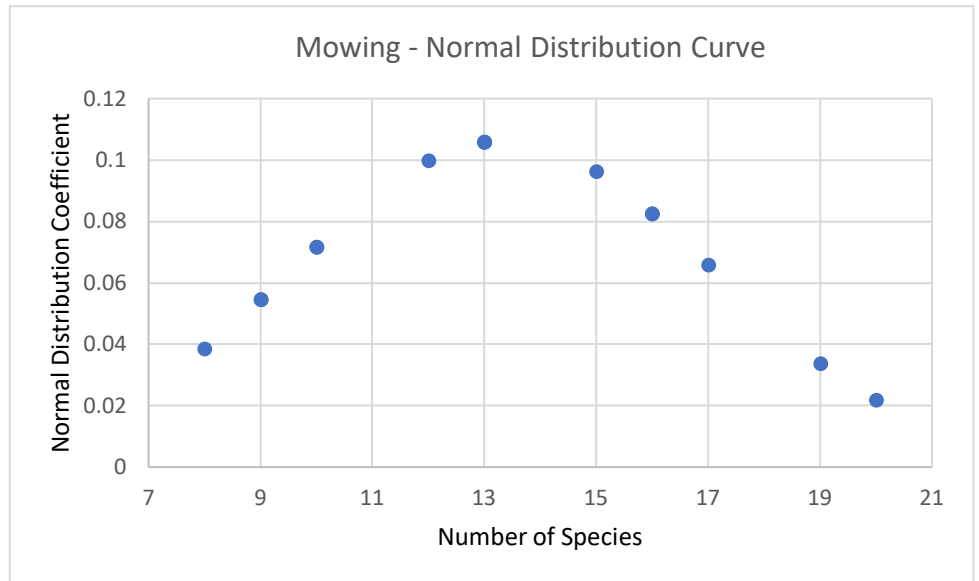
22	0.062782
24	0.131117
25	0.151516
22	0.062782
24	0.131117
23	0.09775
28	0.095589
32	0.006416
28	0.095589
27	0.12937
26	0.15084
25	0.151516
26	0.15084
25	0.151516
25	0.151516



Mean	25.47
SD	2.59

2. Mowing.

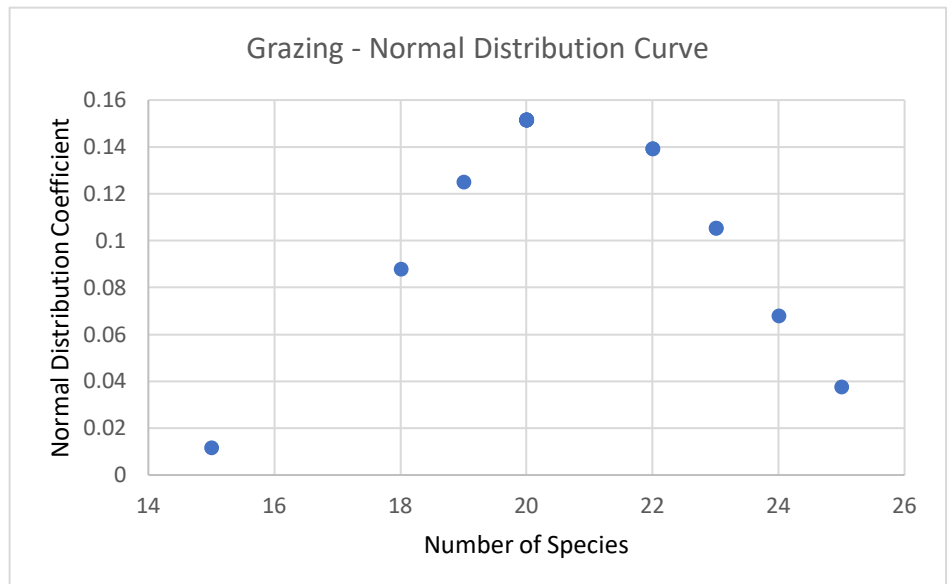
16	0.082565
19	0.033919
13	0.105973
20	0.021873
13	0.105973
13	0.105973
17	0.065902
16	0.082565
15	0.096342
9	0.054622
9	0.054622
10	0.071721
12	0.0999
10	0.071721
8	0.038744



MEAN 13.33
SD 3.75

3. Grazing.

20	0.151805
22	0.13943
24	0.068214
20	0.151805
15	0.011935
23	0.105514
23	0.105514
25	0.037675
18	0.088037
19	0.125075
20	0.151805
22	0.13943
20	0.151805
20	0.151805
20	0.151805



MEAN 20.73
SD 2.52

SI-12: ANOVA Test Data [Excel]

	A	B	C	D	E	F	G	H
1	Anova: Single Factor							
2								
3	SUMMARY							
4	<i>Groups</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>			
5	SC	15	382	25.46667	6.695238			
6	Grazing	15	311	20.73333	6.352381			
7	Mowing	15	200	13.33333	14.09524			
8								
9								
10	ANOVA							
11	<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>	
12	Between Groups	1121.911	2	560.9556	62.00035	2.92E-13	3.219942	
13	Within Groups	380	42	9.047619				
14								
15	Total	1501.911	44					
16								

SI-13: ANOVA Descriptive Statistics [Excel]

<i>Column1</i>	<i>SC</i>	<i>Column2</i>	<i>G</i>	<i>Column3</i>	<i>M</i>
Mean	25.46667	Mean	20.73333	Mean	13.33333
Standard Error	0.668094	Standard Error	0.650763	Standard Error	0.969372
Median	25	Median	20	Median	13
Mode	25	Mode	20	Mode	13
Standard Deviation	2.587516	Standard Deviation	2.520393	Standard Deviation	3.754363
Sample Variance	6.695238	Sample Variance	6.352381	Sample Variance	14.09524
Kurtosis	1.735167	Kurtosis	0.724944	Kurtosis	-0.97023
Skewness	1.000241	Skewness	-0.39416	Skewness	0.278955
Range	10	Range	10	Range	12
Minimum	22	Minimum	15	Minimum	8
Maximum	32	Maximum	25	Maximum	20
Sum	382	Sum	311	Sum	200
Count	15	Count	15	Count	15

SI-14: Tukey Test Data

$$T = (q) \times \sqrt{\frac{\text{Within MS}}{n}}$$

[Reference: OU 2021]

From the ANOVA test data (SI 12), the Error (df) within the 3 groups being compared is 42 and Within Groups MS is 9.047619.

From the 'Values of q for the Tukey Test Table' (York.ac.uk, 2021) using 3 treatments and df=42, the value of q=3.44.

Therefore,

$$T = 3.44 \times \sqrt{\frac{9.047619}{15}}$$

$$T = 3.44 \times 0.6031746$$

$$T = 2.075 \text{ (Test statistic)}$$

From Appendix 14,

Group	Mean Species Number
Scrub Clearance	25.47
Grazing	20.73
Mowing	13.33

Scrub clearance – Grazing = 25.47 – 20.73 = 4.74 > 2.075

Scrub clearance – Mowing = 25.47 - 13.3 = 12.17 > 2.075

Grazing – Mowing = 20.73 – 13.33 = 7.43 > 2.075

The differences between scrub clearance and grazing (4.74), scrub clearance and mowing (12.17) and grazing and mowing (7.43) are all greater than the test statistic (2.075) and are therefore statistically significant. In conclusion, the number of species promoted is significantly greater by scrub clearance than by both grazing and mowing and the number of species promoted is significantly greater with grazing than mowing.

