Draft 04 Apr 2015. I still need to see specimens and get photos of some species before I can finish this. If you use this, please tell me how you get on: mgobc@yahoo.com.

Sitonas and Tanymecus. This group includes Sitona, Andrion, Charagmus, and Coelositona (the tribe of Sitonini) and Tanymecus palliatus. The combination of large eyes, rather straight sided and narrow elytra, and short antennae distinguishes Sitonas form other broad-nosed weevils. Tanymecus palliatus is similar in shape, but it has longer antennae, long bristly cheeks, and it is larger than most Sitonas.

All the Sitonas feed on legumes (Fabaceae). Some are found only on gorse *Ulex* and broom *Cytisus*; others have a preference for vetches *Lathyrus* and *Vicia*; for clovers *Trifolium*; or for bird's foot trefoils *Lotus*. Although the different foodplants are often found together, it is worth remembering that any Sitona that falls out of a gorse or broom bush is likely to be *Andrion regensteinense* or *Sitona striatellus* until proved otherwise. Another useful guide is that *Sitona lineatus* is abundant and ubiquitous. Unless you are beating gorse or broom, it is a good starting point to assume that what you have found is *lineatus* and then either confirm this or eliminate it and move on to consider other species. This is not an easy group without a good set of reference specimens, but fresh, fully scaled weevils are not as hard to name once you are familiar with them. Often you will have a worn specimen, and then things get more troublesome. The shape of the eyes and the elytra are useful characters when scales have worn away, as is the underlying pattern of pits and the spaces between them, especially on the head and pronotum.

I have split the Sitonas into four groups. The difference between the extremes of bristliness in Group 3 and Group 4 is slight but there are other characters that distinguish the species, and *lineatus* is included in both. Insets next to the Sitonas show a 0.5mm square patch of the elytra at or near the tip.

Sitonas

Group 1. The distinctive *Charagmus griseus* and *gressorius*; and the species with only **hair-scales** (no flat round scales). *Coelositona cambricus, cineracsens, puberulus, Sitona gemellatus*.

Group 2. Bristly species with erect hair-scales. Some of these are obviously bristly, even under a hand lens, but others have shorter bristles and need to be looked at more closely. *Andrion regensteinense, Sitona hispidulus, macularius, striatellus, ambiguus, lineellus* (plus *lineatus* for comparison).

Group 3. Species with almost flat hair-scales and **broad** flat round scales. *Sitona lineatus, cyclindricollis, ononidis, suturalis, humeralis, sulcifrons*.

Group 4. Species with almost flat hair-scales and **narrow** flat round scales. *Sitona lepidus, puncticollis.*



On a range of plants. Widespread but scarce in England, Wales, and southern Scotland. 7.5-10.0

Longer antennae than Sitonas. Has unique long **bristles** on the side of the pronotum, creating whiskers behind the cheeks.

Group 1. Large and distinctive species with blackish legs. Distinctive because they have hair-scales only, no flat oval or round scales; or they are griseus, which is strikingly white below, has a long tapering rostrum, raised alternate ridges down the elytra, and a pom-pom of scales on the scutellum.

Densely covered with round scales	Hair-scales only, no round or oval scales					
Chaaagmus griseus	Coelositona cambricus	Coelositona puberulus	Coelositona cinerascens	Sitona gemellatus		
Legumes. Mostly coastal or on	Usually Lotus pedunculatus.	Lotus. Very rare.	Lotus glaber. Rare.	Legumes in sandy places and		
	widespread.	4055	4 3 5 0	derclins. Very rare.		
4.5-8.5 A booutiful and distinctive species	4.0-5.5 Dranatum with sides yory rounded	4.0-5.5	4.3-5.9	4.0-5.0 Bronotum clightly swellon poor the		
The clear ridges on odd interstices	and swellen, pinched in at the base	than combridue hairs on		front sides much loss rounded than		
are shared only with the very	Hairs on proportium recurved, hardly	propotum more erect forward		in cambircus or puberulus. Pits on		
different waterhousei Charaamus	erect Faint ridges along rostrum	pointing Antennae brown with		elytra shallower and blunter than		
gressorius has recently been found	almost converge at the pit between	dark tip. Faint ridges along		cambricus or puberulus, surface		
on lupins in Britain. It has an even	the eves. Rostrum more swollen at	rostrum groove are parallel to		duller. Pronotum microscopically		
longer, narrower rostrum, and it can	the tip than in <i>puberulus</i> , so it has a	it. Eves more bulging and		reticulate and dull between pits		
be recognised by a clear white stripe	broader end. Antennae usually	rounded than <i>cambricus</i> .		(smooth and glossy in <i>cambricus</i> and		
down the centre of the pronotum.	blackish, but occasionally brown.			puberulus)		
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Group 2. Bristly species with leaning or erect hair scales. They are presented here in decreasing order of bristliness, and the first three are easily recognised as having long or very long bristles. They are distinct in other ways too: *regensteinense* has a spider-like shape and long legs; *hispidulus* has large but very flat eyes; and *waterhousei* has the most bulging eyes of any *Sitona. Sitona macularius* is obviously bristly, like *waterhousei*, but the difference between the last three (*striatellus, ambiguus,* and *lineellus*) and the remaining Sitonas is not so obvious because the hair-scales of *lineatus* and other species are recurved or slightly leaning towards the tip of the elytra, and they can look bristly. If you are unsure, note that *striatellus, ambiguus,* and *lineellus* have more rounded eyes than the species in group 3 (apart from *sulcifrons,* which is distinctive in its raised eyes), and their leaning to erect hair-scales are sparser (sometimes a single row on an interstice), whereas the recurved to leaning hair-scales in group 3 tend to be denser (in rows of two or more).

Very long bristle	Long bristles	
Andrion regensteinense	Sitona hispidulus	Sitona waterhousei
Ulex and Cytisus. Very common. 3.0-6.0 Pronotum and elytra are more rounded than in other species, creating a cleft where they meet, and making a spider-like profile: other species look more flat-backed (compare <i>lineatus</i> profile below). The long legs and bristles are also distinctive.	Legumes. Very common. 2.8-4.6 Easily recognised amongst the bristly species by the almost flat eyes . <i>Sitona humeralis</i> and <i>suturalis</i> have flat eyes too, but they do not have long bristles.	<i>Lotus</i> . Southern, mostly coastal. Uncommon inland. 3.5-4.8 Forehead and rostrum flat to concave with a pit between very rounded, wide eyes that almost look stalked. The head shape is unique.

Group 2 continued.

Long bristles		Very short, recurved bristles		
Sitona macularius	Sitona striatellus	Sitona ambiguus	Sitona lineellus	Sitona lineatus
Legumes. Uncommon.	Ulex and Cytisus. Common.	Vetches. Widespread but uncommon.	Clovers and other legumes. Mostly west coast, but scattered elsewhere.	Legumes. Very common.
3.0-4.9	2.8-4.7	2.6-3.8	2.6-3.7	3.4-5.3
Differs from the species to the right by its longer hair scales, more concave rostrum, and mottled elytra.	Slightly more erect hairs on elytra than <i>lineatus</i> , more bulging eyes, shorter elytra, larger pits on pronotum. Metallic scales. Compare with <i>lineellus</i> and <i>ambiguus</i> .	Shares the sequined appearance and metallic scales with <i>striatellus</i> , but on average smaller, with shorter hair-scales (especially on head and prontoum), and slightly more bulging and more oval eyes (longer than wide). Differs from <i>lineatus</i> by the same characters as <i>striatellus</i> , but the hair- scales of <i>ambiguus</i> are not so long, so the difference in bristliness is less apparent.	Dense scales carpeting the surface, and they are not metallic, so it does not have the sequined look often found in <i>striatellus</i> and <i>lineellus</i> . The scales are more rounded and blunter than in <i>striatellus</i> , especially on the pronotum and the hair-scales are shorter. End of scape more swollen , especially on the outer edge, than in <i>ambiguus</i> and <i>striatellus</i> . Spaces between pits on head wider and smoother than in <i>ambiguus</i> . Slightly more bulging eyes than <i>lineatus</i> , and more erect hair-scales, elytra slightly more curved at sides and usually shorter, and larger pits	Hair-scales much shorter than those of the long-bristled species. Differs from the short-bristled species by its less bulging eyes, smaller pits on the pronotum, and straighter-sided, longer elytra . The scales are usually brown or slightly metallic. The difference in bristliness is apparent when compared carefully: the hair-scales of <i>lineatus</i> are less erect, more curved, and denser.

Group 3. Species with almost flat hair-scales and round or wide oval flat scales (5-6 scales across the wider interstices: if there are 7-10 scales across an interstice see group 4). The hair-scales are often recurved or leaning at the tip of the elytra, so check the eyes if you are unsure whether you have a bristly species (group 2) or not. *Sitona humeralis* and *sulcifrons* have eyes slightly raised above the level of the head, and the head and rostrum are depressed between the eyes, giving the head a crocodile-like shape different from the flat or slightly domed head of the other four.



Group 3 continued.



Group 4. A pair of species with a **dense** covering of very **narrow scales** (7-10 across the wider interstices).



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