

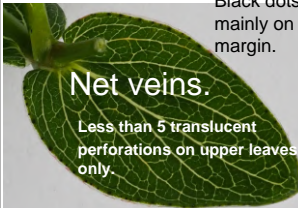
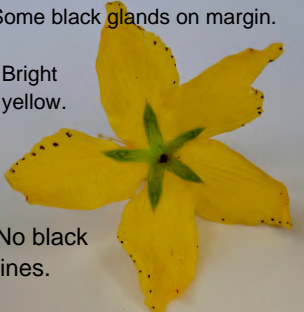
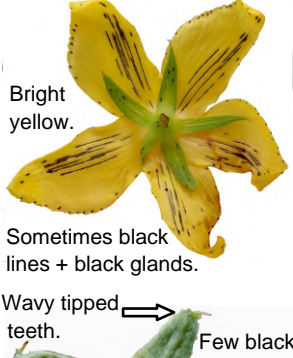
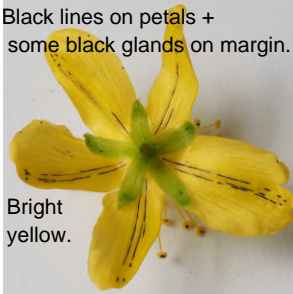
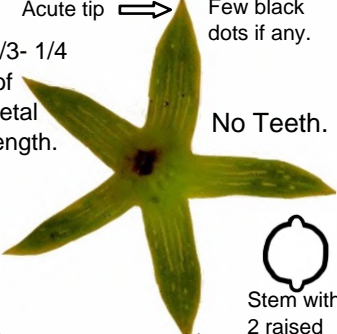
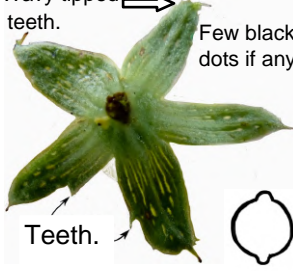



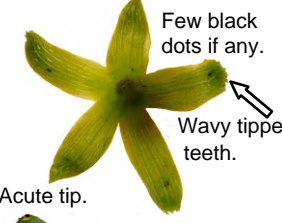


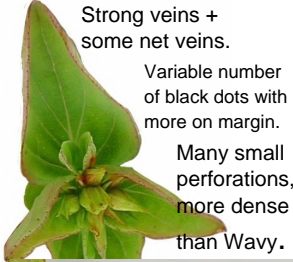
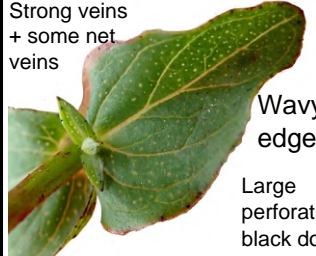
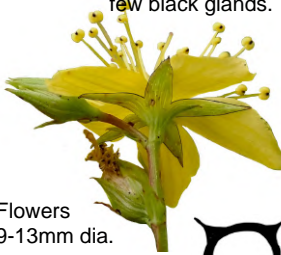


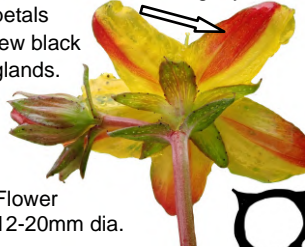





St John's -worts, without many black glands on sepals.

Perforate SJW <i>H. perforatum</i>	Hybrid <i>H. x desetangsii</i>	Imperforate SJW <i>H. maculatum</i>	
<p>Perforations + black dots Very very limited net veins.</p>  <p>Upper leaves have more perforations.</p>	<p>Some net veins.</p> 	<p>Black dots mainly on margin.</p> <p>Net veins.</p> <p>Less than 5 translucent perforations on upper leaves only.</p> 	
<p>Petals Some black glands on margin.</p> <p>Bright yellow.</p> <p>No black lines.</p> 	<p>Bright yellow.</p> <p>Sometimes black lines + black glands.</p> <p>Wavy tipped teeth.</p> 	<p>Black lines on petals + some black glands on margin.</p> <p>Bright yellow.</p> <p>Sepal 1/3 - 1/4 of petal length</p> 	
<p>Acute tip → Few black dots if any.</p> <p>1/3- 1/4 of petal length.</p> <p>No Teeth.</p>  <p>Stem with 2 raised lines.</p> <p>Narrow 0.7-1.5mm wide.</p> <p>Widespread.</p>	<p>Few black dots if any.</p> <p>Teeth.</p>     <p>Widespread.</p>	<p>Few black dots if any.</p> <p>Wavy tipped teeth.</p> <p>Acute tip.</p> <p>Variable from pointed entire to wavy-tipped with tiny teeth and blunt.</p>   <p>Square stems (Check Mid Stem).</p>  <p>Widespread.</p>	
<p>1) Not hairy. 2) Check for signs of hybrid features. 3) Leaves will have almost no net veins, no black lines on petals and have narrow acute tipped sepals. 4) Leaves not clasping stem, sessile.</p>	<p>Features lie anywhere between <i>perforatum</i> and <i>maculatum</i>. Common but under-recorded.</p>	<p>1) Not hairy. 2) Backlit leaf shows clear net veins (network of secondary veins). 3) Leaves not clasping stem, sessile.</p>	
↔ Hybridisation ↔		↔ Hybridisation ↔	

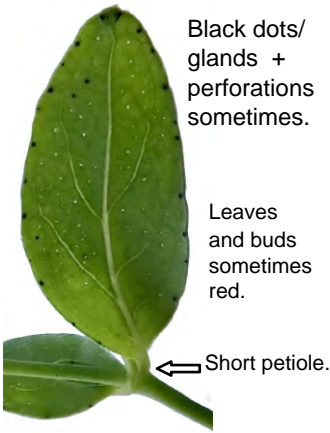
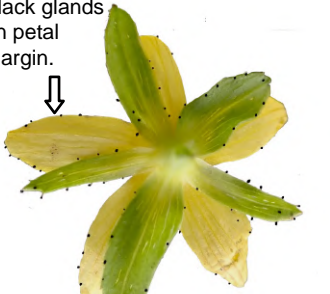

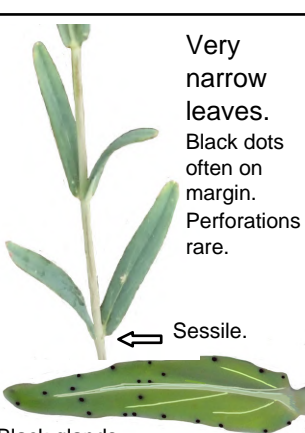
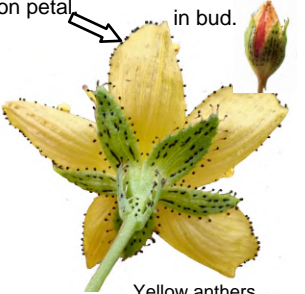
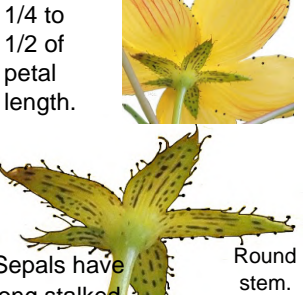
Non shrubby St. John's-wort

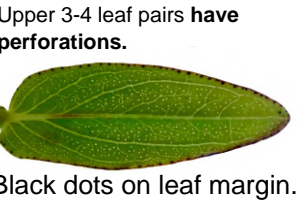


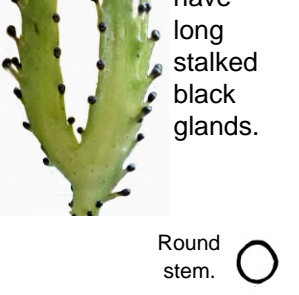
Square-Stalked SJW <i>H. tetrapterum</i>	Wavy SJW <i>H. undulatum</i>
<p>Strong veins + some net veins.</p> <p>Variable number of black dots with more on margin.</p> <p>Many small perforations, more dense than Wavy.</p> 	<p>Strong veins + some net veins</p> <p>Wavy edged.</p> <p>Large perforations black dots on margin.</p> 
<p>Petals pale yellow few black glands.</p> <p>Flowers 9-13mm dia.</p> <p>Narrow pointed sepals, very few black glands, max. 3.</p>   <p>Winged</p>  <p>Narrow, Widest near base.</p> <p>Entire, no teeth.</p>	<p>Red-flushed under bright yellow petals few black glands.</p> <p>Flower 12-20mm dia.</p> <p>Pointed oval sepals almost half length of petals + some (3+) black glands on margin which are usually not stalked.</p>   <p>Winged.</p>   <p>Oval/wide sepals.</p> <p>Atypical.</p>
<p>Widespread, marshy ground.</p> <p>1) Crowded flowers. 2) Stems often red. 3) Leaves sessile, almost clasping like Wavy SJW. 4) Not hairy.</p>	<p>Very rare. Cornwall, Devon, Pembrokeshire etc. Marshy ground.</p> <p>1) Un-crowded flowers. 2) Leaves not always obviously wavy-edged. Look carefully for this feature. 3) Red flushed petals in UK. 4) Not hairy.</p>
↔ Hybridisation ↔	

ID Key

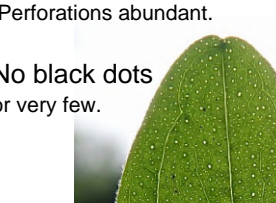
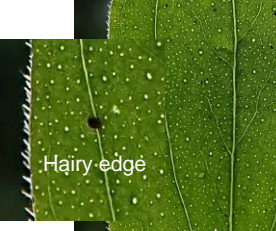
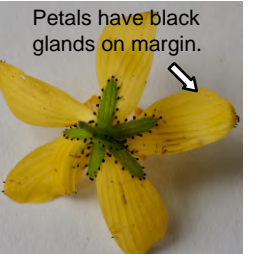

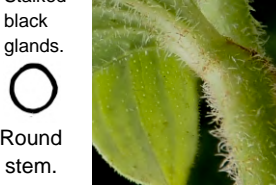
Irish SJW <i>H. canadense</i>
<p>Very narrow leaves with perforations and typically three veins.</p> <p>Sepals entire, equal or slightly longer than bright yellow petals.</p>   
<p>No black dots/glands anywhere.</p> <p>Very rare, Co. Mayo + Co. Cork, Ireland. Trampled wet turf and wet flushes.</p> <p>1) Small, upright to 20cm. Often red, especially the leaves. 2) Not hairy.</p> 

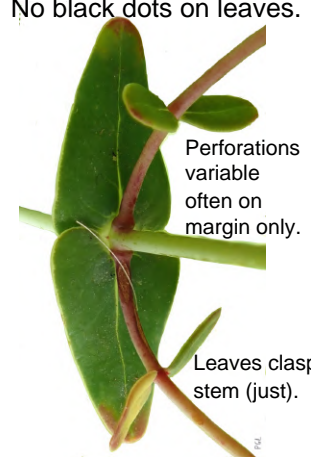
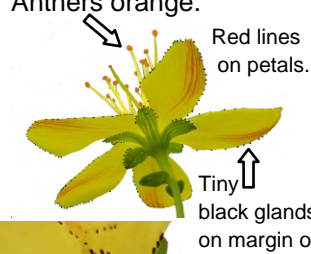
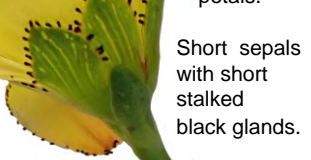

St John's-worts with sepals that have stalked black glands on the margin.



<p>Trailing SJW <i>H. humifusum</i></p>  <p>Black dots/glands + perforations sometimes.</p> <p>Leaves and buds sometimes red.</p> <p>Short petiole.</p>  <p>Black glands on petal margin.</p> <p>Sepals as long as petals.</p>  <p>2 faint lines.</p> <p>Widespread Trailing, not upright in habit Hairless.</p> <p>1) Sepals 3 wide and 2 narrow and have few black glands+ 3-5 un-stalked/stalked glands on each side. 2) No hairs.</p>	<p>Toadflax-leaved SJW <i>H. liniariifolium</i></p>  <p>Very narrow leaves. Black dots often on margin. Perforations rare.</p> <p>Sessile.</p>  <p>Black glands on petal. Red in bud.</p> <p>Yellow anthers.</p> <p>Sepals 1/4 to 1/2 of petal length.</p>  <p>Sepals have long stalked black glands.</p> <p>Round stem.</p> <p>Very rare. e.g. Teign Valley, Devon & Lley Peninsula, Wales.</p> <p>1) No hairs. 2) Central stem erect.</p>
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<p>Pale SJW <i>H. montanum</i></p>  <p>Upper 3-4 leaf pairs have perforations.</p> <p>Black dots on leaf margin.</p> <p>Net veined</p>  <p>Lower leaves without perforations.</p> <p>Tiny hairs on margin and underside of leaf.</p>  <p>Petals lack any black glands. Petals, pale yellow</p>  <p>Sepals have long stalked black glands.</p> <p>Round stem.</p> <p>Uncommon in England/Wales.</p> <p>1) Stems erect with sessile leaves, without secondary side shoots.</p>

St John's-worts with sepals that have stalked glands on the margin.

<p>Hairy SJW <i>H. hirsutum</i></p>  <p>Perforations abundant.</p> <p>No black dots or very few.</p>  <p>Hairy edge</p>  <p>Petals have black glands on margin.</p>  <p>Stalked black glands.</p>  <p>Round stem.</p> <p>Common in Eastern UK, very rare Ireland. Hairy on stems and underside of leaves.</p>

<p>Slender SJW <i>H. pulchrum</i></p>  <p>No black dots on leaves.</p> <p>Perforations variable often on margin only.</p> <p>Leaves clasp stem (just).</p>  <p>Anthers orange.</p> <p>Red lines on petals.</p>  <p>Tiny black glands on margin of petals.</p> <p>Short sepals with short stalked black glands.</p>  <p>Red in bud.</p> <p>Widespread, dry habitats</p> <p>Dainty, normally upright, but young plants can be prostrate like Trailing SJW.</p> <p>No hairs.</p>
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<p>Marsh SJW <i>H. elodes</i></p>  <p>A very different SJW.</p> <p>Leaves opposite, rounded and semi-clasping base, without black glands. Very hairy.</p> <p>Flowers rarely open fully.</p>  <p>Petals, no glands.</p> <p>Short sepals stalked reddish glands on margin.</p> <p>Mainly in S & W of UK and Ireland.</p> <p>1) Stems and leaves with dense white hairs unless fully submerged. 2) Often grows in water.</p>
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