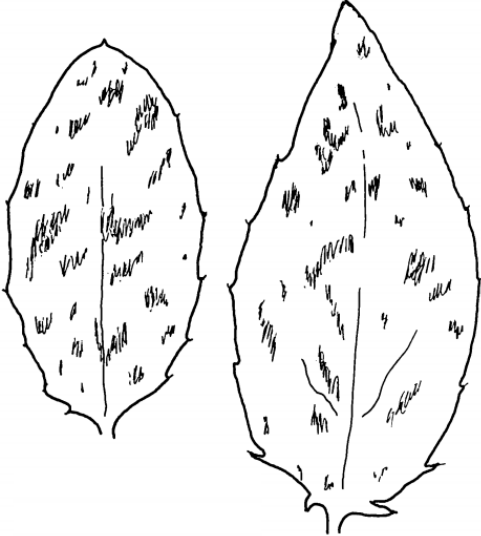
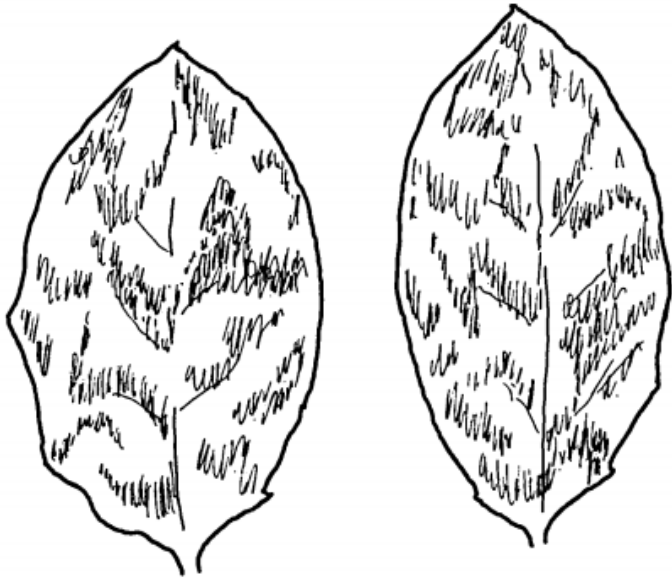
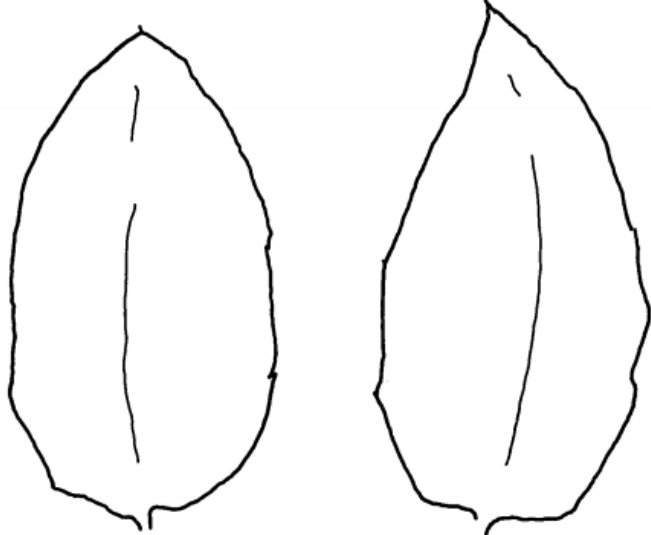


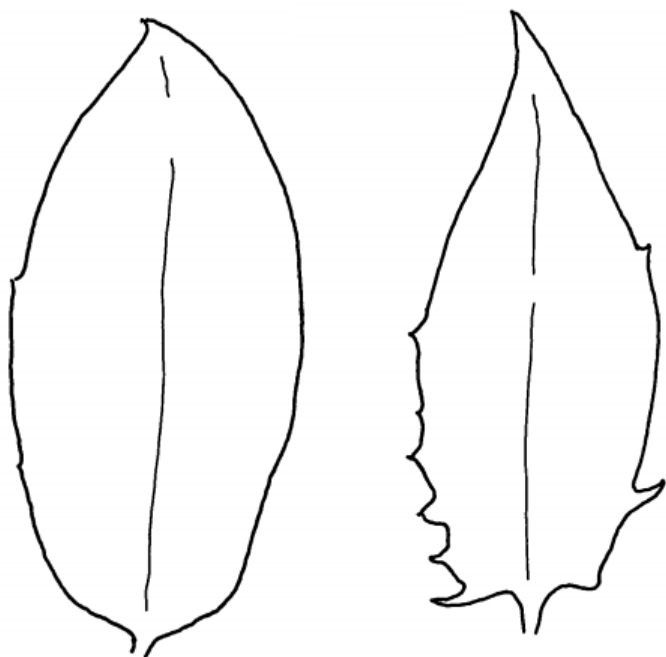
# INNER AND OUTER LEAF DESCRIPTIONS

The object of this is to correlate leaf shape with description and terminology.

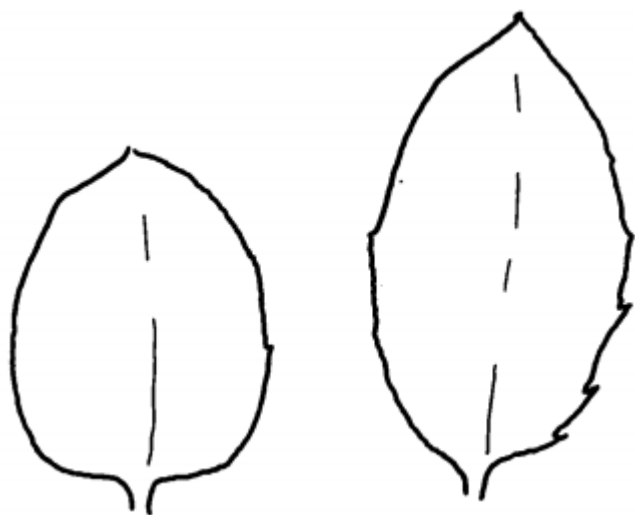
Pictures are basal leaves from Sell matched with the OCR leaf descriptions, with id information removed

Inner & Outer Basal Leaves	
	<p>lamina 4–14 × 2.5–6.0 cm, ovate, elliptical or lanceolate, rounded-mucronulate to acute at apex, subentire, denticulate or with a few longer teeth near the base and abruptly contracted or cuneate at base</p>
	<p>lamina 1.5–9.0 × 1–5 cm, subrotund, ovate, lanceolate or oblong, rounded-obtuse-mucronulate to acute, entire, sinuate, denticulate or sometimes with sharp or mammiform teeth towards the base, subcordate, rounded or abruptly contracted at base</p>
	<p>lamina 3–12 × 2.0–6.5 cm, the outer elliptical or oblong-elliptical, rounded-mucronulate at apex, entire or denticulate or with an occasional larger tooth and rounded at base, the inner sometimes similar to outer but often ovate, acute at apex, and repand-denticulate to subdentate, subtruncate at base, often with 2 spreading basal teeth</p>

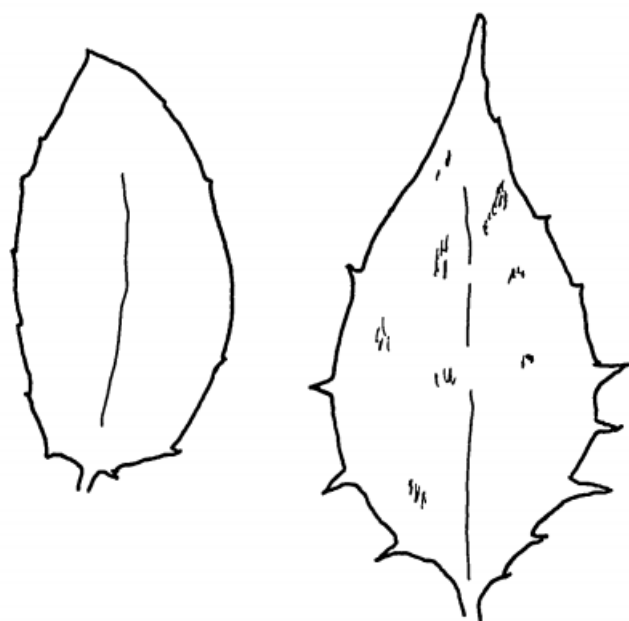
## Inner & Outer Basal Leaves



lamina 2.5–8.0 × 1.5–3.5 cm, elliptical, ovate, ovate-lanceolate, or elliptic-oblong, rounded-obtuse to acute or long acuminate, subentire to denticulate or with a few, sharp teeth near the base and rounded or subtruncate at base

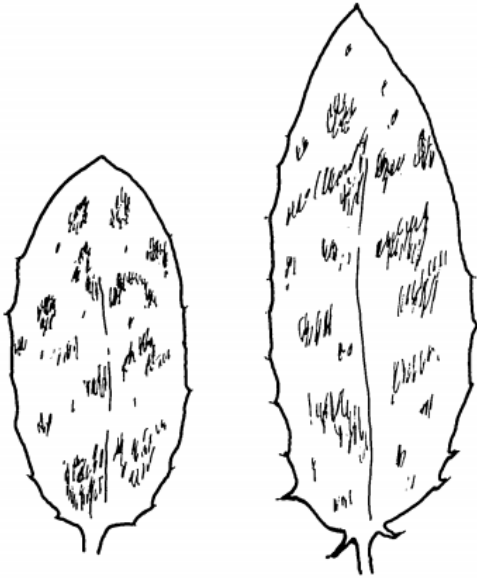


lamina 2–6 × 1.5–3.0 cm, ovate to elliptical or subrotund, rounded-mucronate to more or less acute at apex, denticulate or with few, small teeth towards the rounded or truncate base

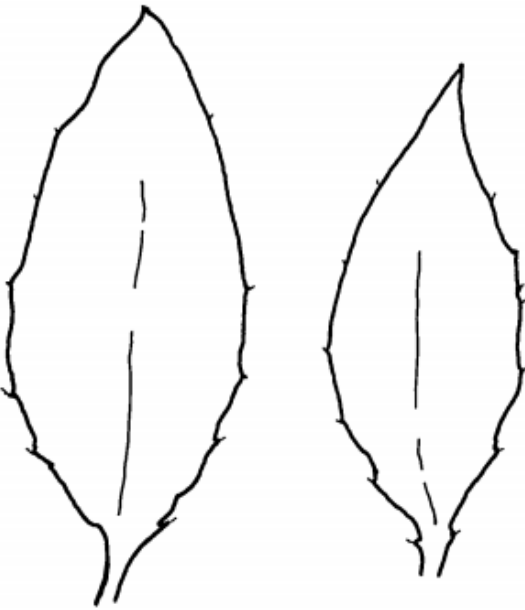


2–9 × 1–5 cm, ovate, elliptical or lanceolate, obtuse-mucronate to acute at apex, usually dentate or dentate-serrate, rarely denticulate, the teeth narrow and apiculate, cuneate or subtruncate at base, the teeth sometimes descending the... petioles

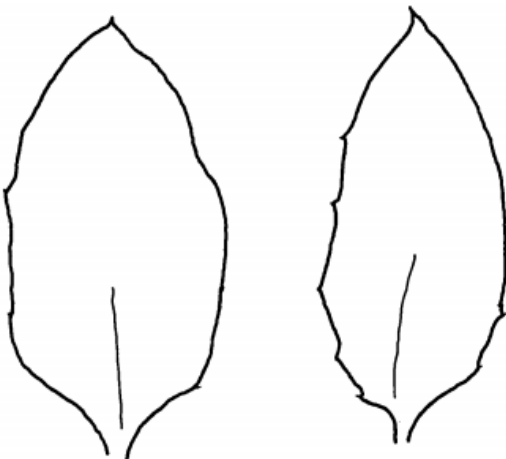
Inner & Outer Basal Leaves



lamina 2-10 × 1-4 cm, elliptical, lanceolate or ovate, mostly rounded-mucronate, but the inner sometimes acute, subentire, denticulate or with a few larger teeth towards the rounded or subtruncate base

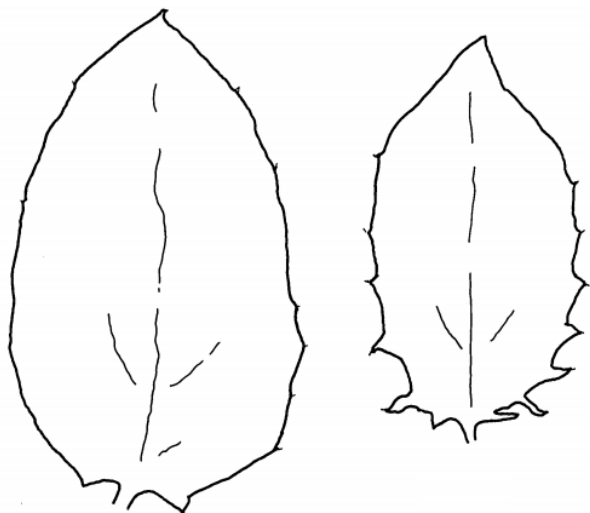


outer with lamina 3-9 × 1.5-4.0 cm, broadly elliptical or elliptical, usually obtuse-mucronate at apex, subentire or denticulate, and rounded or shortly cuneate at base, the inner with lamina 4-11 × 1.5-4.5 cm, elliptical, ovate or lanceolate, more or less acute at apex, subentire, denticulate or with a few, small teeth near the base and abruptly contracted or shortly cuneate at base

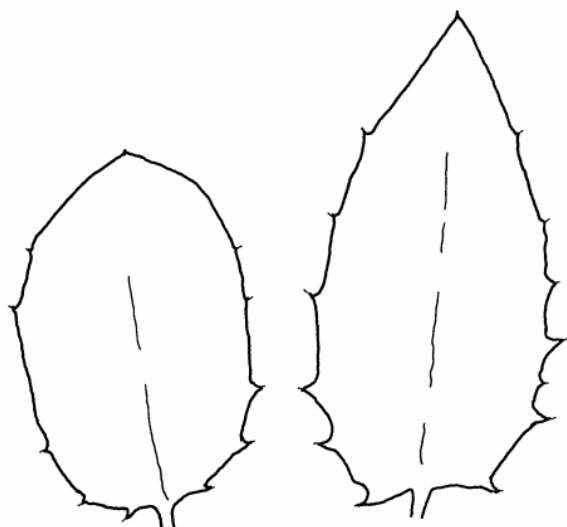


outer with lamina 2-5 × 1.5-3.0 cm, elliptical, ovate, or subrotund, rounded-obtuse at apex and entire, denticulate or with a few, small teeth at the rounded, subtruncate or abruptly contracted base; the inner with lamina 3-8 × 1.5- 4.0 cm, ovate or lanceolate, rarely oblong, acute or acuminate at apex, subentire, denticulate or with a few teeth at the subtruncate base

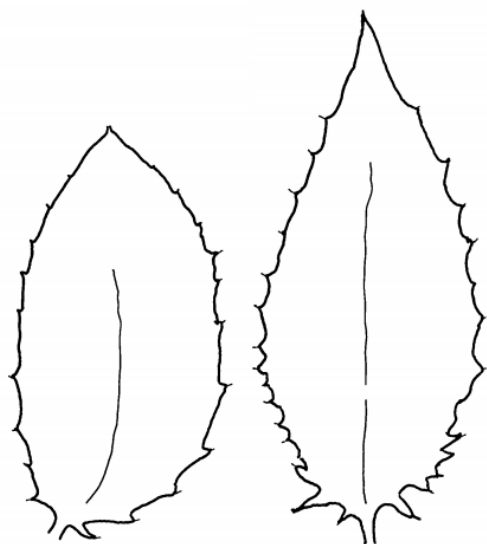
## Inner & Outer Basal Leaves



lamina 2–11 × 1.2–6.5 cm, the outer and sometimes all elliptical, ovate or subrotund, rounded-obtuse at apex, entire or with a few teeth in the basal half and rounded at base, the inner sometimes more acute, with more prominent, narrowly mammiform teeth and their bases subtruncate and sometimes with retrorse teeth



large and cabbagey, with lamina 2–10 × 1.5–6.0 cm, broadly ovate or broadly elliptical, sometimes nearly subrotund, mostly shortly acute, rarely rounded-mucronulate at apex, regularly dentate or serrate-dentate, the teeth sharp, apiculate, and sometimes curved, truncate, abruptly contracted or shortly cuneate at base

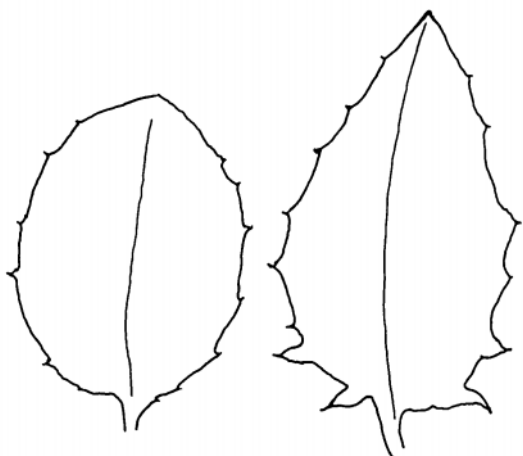


outer with lamina 3.5–8.5 × 2.5–4.5 cm, elliptical or broadly elliptical, rounded-mucronulate at apex, denticulate or sinuate-dentate, rounded or abruptly contracted and often asymmetrical at base, the inner with lamina 4–12 × 2–5 cm, ovate, elliptical or slightly oblong-ovate, more or less acute at apex, denticulate to shortly sinuate-dentate and sometimes with a few, larger teeth at base

Inner & Outer Basal Leaves



outer with lamina 2–7 × 2.0–3.5 cm, elliptical or oblong-elliptical, rounded-mucronate at apex, entire or denticulate in the upper half, denticulate to sinuate-dentate below, the lower teeth slightly hooked, the base abruptly contracted or subtruncate, usually a few inner with lamina ovate, lanceolate, or ovate-oblong, acute at apex, dentate and truncate at base



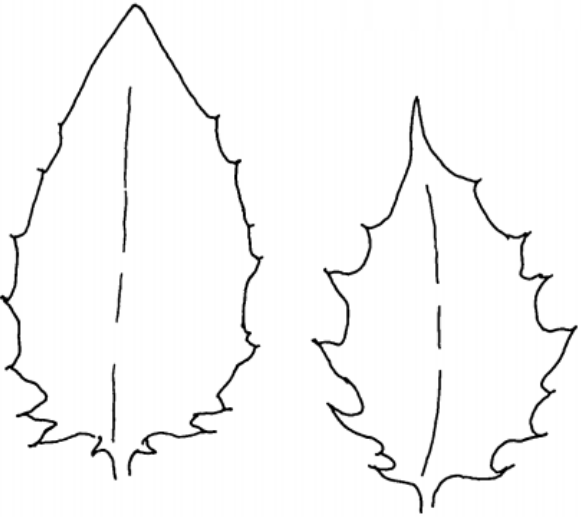


outer with lamina 1.5–5.0 × 1–3 cm, subrotund or broadly elliptical, rounded at apex, subentire or denticulate and rounded at base, the inner with lamina 4–8 × 1.5–4.0 cm, ovate, more or less acute at apex, denticulate to more or less dentate, with rather sharp, narrowly mammiform teeth, especially at the more or less truncate base



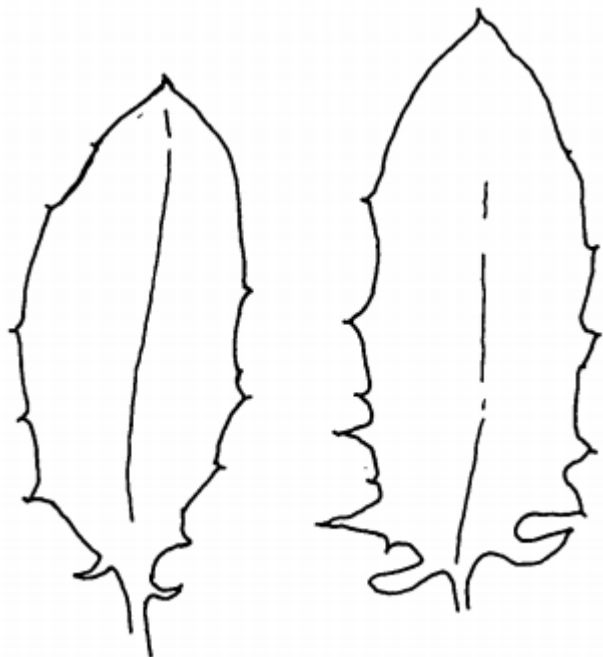
lamina 3–6 × 2–3 cm, the outer ovate or subrotund, rounded-mucronate at apex, subentire, denticulate or shortly dentate and rounded or subtruncate at base, the inner similar but often more or less acute at apex and more often toothed, the teeth sharply pointed and the basal pair sometimes reflexed and usually subtruncate at base



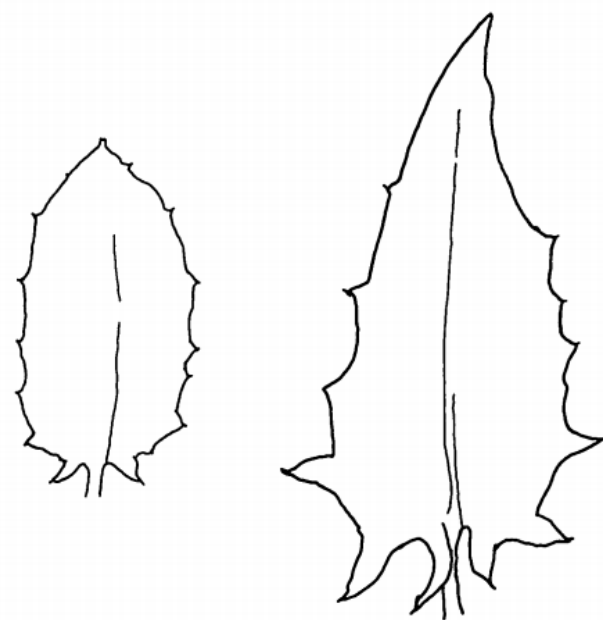
lamina 3–11 × 2–7 cm, the outer ovate, elliptical or subrotund, rounded to subacute and mucronate at apex, denticulate to dentate in the lower half, the teeth sharp, subtruncate at the base and sometimes with retrorse teeth, the inner ovate to broadly ovate or ovate-oblong, mostly acute-mucronate at apex, shallowly to deeply dentate, the teeth mammiform to aquiline-mammiform and often cusped, increasing in size downwards, unequal and the basal pair sometimes retrorse, narrow teeth sometimes disjunct on the

Inner & Outer Basal Leaves	
	<p data-bbox="880 123 1404 161">petiole, and subtruncate at base</p> <p data-bbox="880 183 1524 683">lamina 2-7(-9) × 1-4 cm, the outer ovate or lanceolate, rounded-mucronulate to more or less acute at apex, denticulate throughout or dentate in the lower half, the teeth mammiform, subtruncate and sometimes with retrorse teeth at base, the inner all ovate, acute and often twisted at apex, denticulate throughout or dentate in the lower half, the teeth mammiform, the base subtruncate and often with retrorse teeth</p>
	<p data-bbox="880 728 1524 1187">the outer or all with lamina 3-11 × 2-6 cm, ovate or subrotund, rounded at apex, with 2, large, reflexed basal teeth and sometimes other shallower ones above, subtruncate or subcordate at base, the inner all with lamina ovate, acute-mucronate at apex, with mammiform or aquiline-mammiform, unequal teeth in the lower half, the 2 lower often reflexed, occasionally only denticulate, subtruncate at base</p>
	<p data-bbox="880 1209 1524 1792">lamina 2-11 × 2-6 cm, the outer ovate, broadly ovate, broadly elliptical, broadly oblong or subrotund, broadly rounded-mucronulate at apex, deeply and irregularly dentate in all except the uppermost quarter, the teeth narrowly to broadly mammiform and often curved, and usually with 2 reflexed teeth at the truncate base, the inner with lamina ovate or lanceolate, acute or acuminate at the often twisted apex, usually deeply and very irregularly dentate, the teeth narrower, longer and more irregular than those of the outer</p>

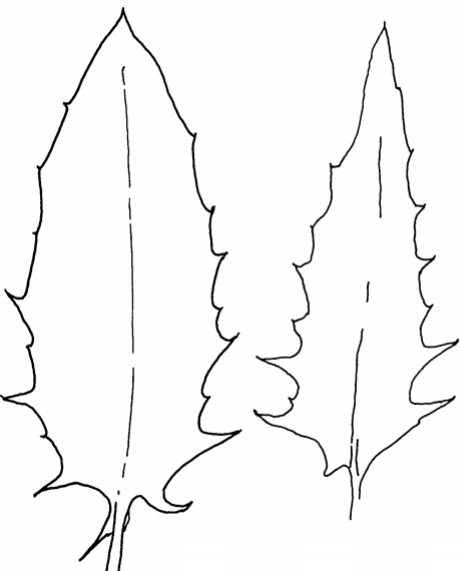
Inner & Outer Basal Leaves



lamina 2- 5(-9 cult.) × 1.5-3.0(-4.0 cult.) cm, the outer elliptical, oblong or ovate, rounded-mucronate at apex, subentire to dentate and rounded or truncate at base, the inner with lamina ovate or oblong-ovate or obovate, more or less acute at apex, dentate, becoming deeply so, and often retrorse and descending the petiole in cultivation, the teeth narrowly mammiform or aquiline-mammiform, subtruncate at base

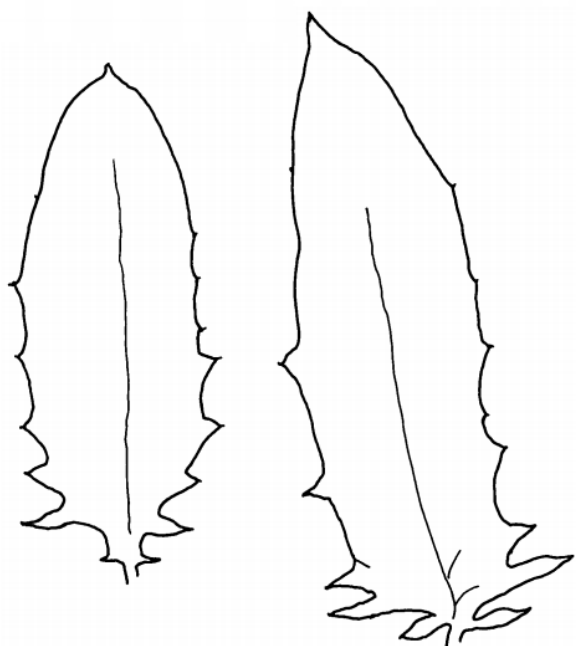


lamina 2-10 × 2-5 cm, the outer elliptical, ovate or subrotund, rounded-mucronulate at apex, denticulate to dentate mainly in the lower half and often with 2 reflexed teeth at the base and round, truncate or subcordate at base, the inner with lamina lanceolate, ovate or oblong-ovate, acute or acuminate or caudate at the often twisted apex, shallowly to deeply dentate, the teeth irregular, flattened mammiform, broadly mammiform or narrowly mammiform and sometimes cusped, the 2 basal usually large and reflexed and sometimes with a few teeth on the petiole, more or less truncate at base

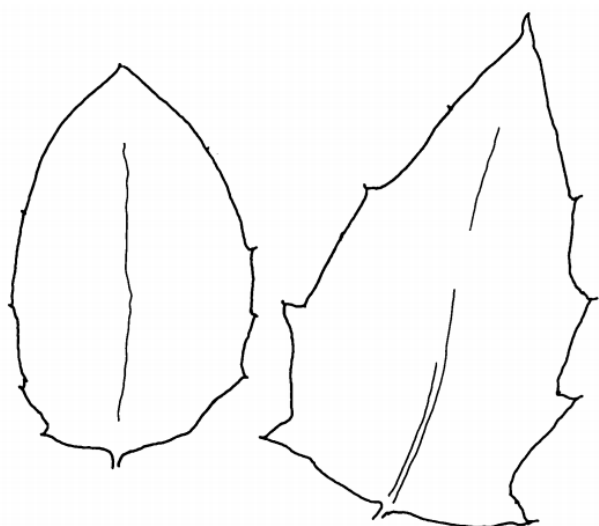


with lamina 3-12 × 2.0-5.0 cm, the outer lanceolate to ovate, rounded-mucronate to acute at apex, entire to denticulate or with a few basal teeth and more or less truncate at base, the inner with lamina lanceolate to oblong-lanceolate, acute to long-acuminate at apex, denticulate to deeply dentate

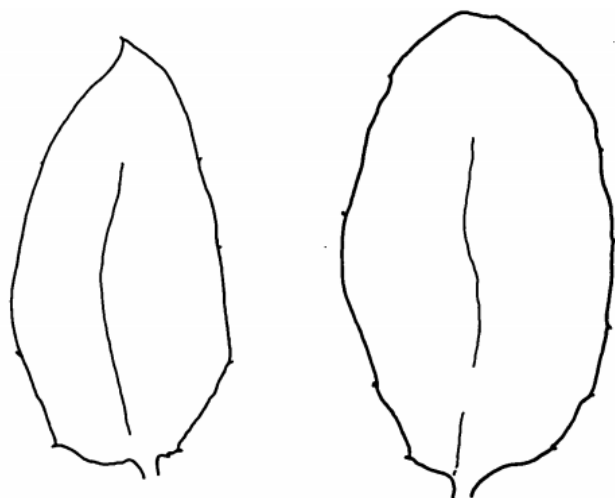
Inner & Outer Basal Leaves



lamina 2-9 × 1.5-4.0 cm, elliptical, sub-rotund, oblong-elliptical or ovate-elliptical, rounded-obtuse-mucronate, sinuate-dentate in the lower half, sometimes with a few mammiform teeth, and abruptly contracted or subtruncate at base to a fairly short petiole, the inner with lamina 4-10 × 1-3 cm, oblong, oblong-lanceolate, lanceolate, narrowly elliptical, more or less acute to acuminate at apex, dentate, with narrow to broad mammiform teeth in the lower half and abruptly contracted to subtruncate at base with rather long, long-hairy petioles, sometimes all the leaves are like the outer and sometimes all like the inner



outer with lamina 4-10 × 1.5-5.0 cm, lanceolate to broadly ovate or subrotund, rounded-obtuse-mucronate at apex, entire, denticulate or with a few widely spaced teeth which are narrowly mammiform and sometimes pointed downwards, and rounded, cuneate or subtruncate at base to fairly short petioles, the inner with lamina 4-11 × 2-4 cm, lanceolate, elliptical or narrowly to broadly ovate, acute to acuminate at apex, dentate to serrate-dentate, the teeth narrow, cuneate at base to short, long-hairy petioles



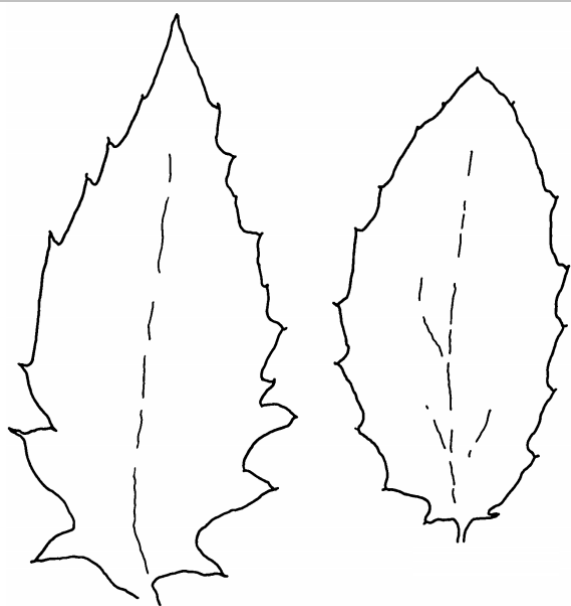
outer with lamina 2.5-5.0 × 2-3 cm, subrotund or ovate, rounded-mucronulate at apex, subentire to denticulate or slightly dentate and rounded or subtruncate at base, the inner with lamina 4-8 × 3-5 cm, mostly ovate, sometimes elliptical-ovate, mostly obtuse, sometimes more or less acute at apex and denticulate to shallowly dentate with a few, larger, often mammiform teeth near the base



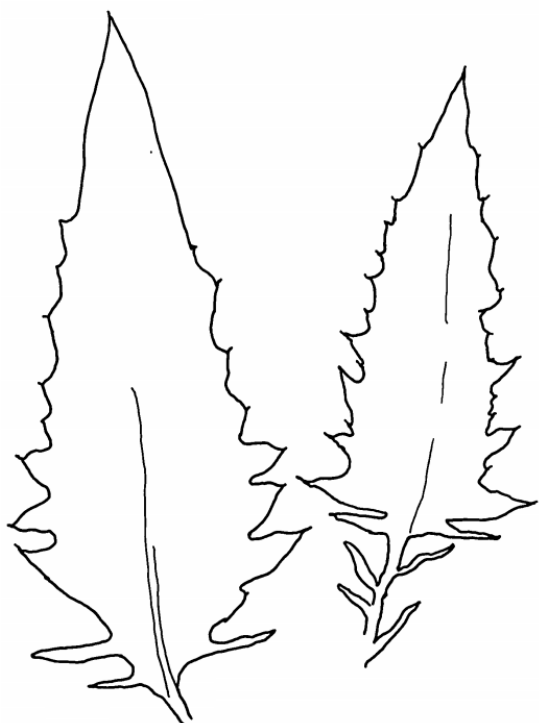
## Inner & Outer Basal Leaves



lamina 3–9 × 2–4 cm, mainly ovate or lanceolate, sometimes oblong or oblong-lanceolate, mainly acute, sometimes obtuse at apex, subentire or denticulate in the lower half or dentate in the lower half with sharp teeth, subtruncate or subcordate at base

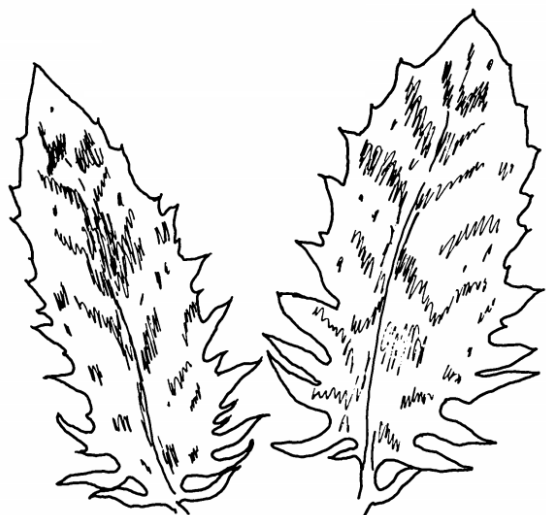


lamina 5–11(–13) × 2.4–5.0 cm, elliptical or oblong-elliptical, rounded-mucronulate to acute at apex, sinuate-denticulate or toothed towards the base, the teeth mammiform or narrowly mammiform, the basal pair often curved outwards at the truncate base



4–15 × 1.0–5.5 cm, the outer with lamina oblong or lanceolate-oblong, narrowed to an obtuse apex, subentire or with a few teeth near the base, the inner or sometimes all of them with lamina oblong-lanceolate, oblong, lanceolate or ovate, narrowed to a more or less acute apex, entire or denticulate in the upper third, dentate below with large mammiform, aquiline-mammiform or narrowly mammiform teeth, sometimes with small teeth between the large ones, sometimes with teeth on the petiole, rounded or subtruncate at base

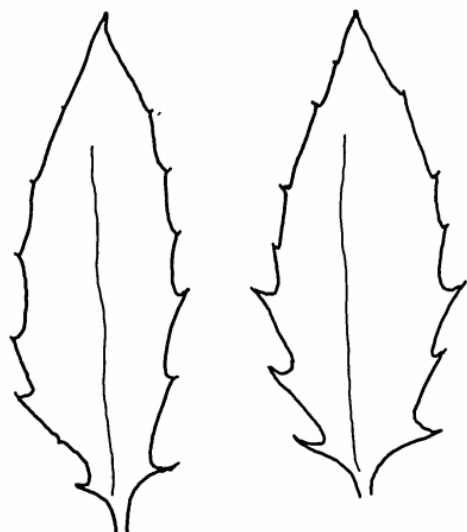
## Inner & Outer Basal Leaves



lamina 4-10 × 2-5 cm, oblong, ovate or ovate-oblong, mostly acute at apex, deeply and grossly dentate or serrate-dentate, the teeth long, cusped and narrowly mammiform or aquiline-mammiform, often with some teeth extending on to the petiole, subtruncate at base, some leaves sometimes less dentate and cuneate at base

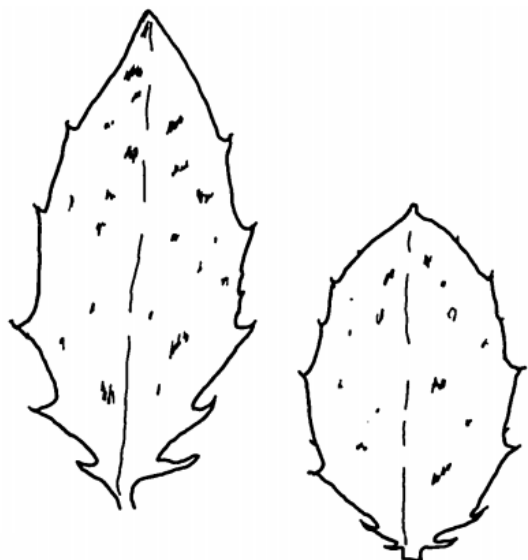


lamina 5-9 × 2-4 cm, ovate to oblong-ovate or oblong-lanceolate, obtuse-mucronate to acute at apex, denticulate in the upper part becoming dentate or rarely serrate-dentate in the lower part, the teeth narrowly to broadly mammiform or sometimes aquiline-mammiform, subtruncate at base



similar except for size, the lamina 2.5-17.0 × 1-6 cm, elliptical, ovate or oblong, mostly acute at apex but sometimes obtuse, shallowly to deeply dentate, the teeth sometimes large and mammiform or long-mammiform, cuneate at base

Inner & Outer Basal Leaves



the outer with lamina 1.5–5.0 × 1.5–3.0 cm, subrotund to elliptical, rounded-mucronate at apex, denticulate to sharply dentate and rounded at base, the inner with lamina 4–6 × 2–3 cm, ovate, lanceolate or elliptical, more or less acute at apex, with sharp teeth and a cuneate or abruptly contracted base

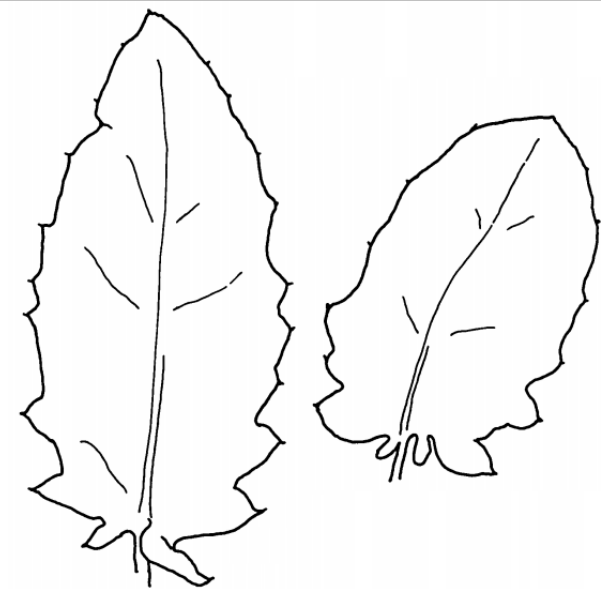


lamina 4–10 × 2.5–4.0 cm, the outer ovate or elliptical, rounded-obtuse at apex, denticulate or with a few, shallow teeth and cuneate at base, the inner elliptical, obovate-oblong or oblong, obtuse to acute at apex, denticulate and usually with a few teeth towards the base, and cuneate at base



outer with lamina 3–7 × 2–5 cm, ovate or elliptical, rounded-mucronate at apex, grossly dentate, the teeth large and rounded-mammiform to narrowly mammiform, the lower pair often deflexed and the base subtruncate, the inner with lamina 7–10 × 2.5–4.0 cm, lanceolate-oblong, elliptic-oblong or oblong, obtuse-mucronate to acute, markedly dentate, the teeth pointed mammiform and getting larger towards the base, interspersed with occasional smaller teeth or denticulations, the basal pair often retrorse, and the base subtruncate

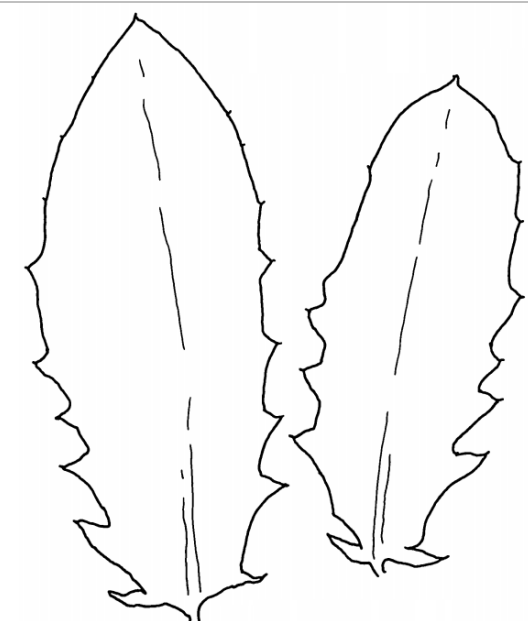
## Inner & Outer Basal Leaves



the outer with lamina 2.5–6.0 × 2–4 cm, ovate or elliptic-ovate, rounded-mucronulate at apex, with large, round mammiform teeth, the basal pair sometimes narrower and retrorse, and the base subtruncate, the inner with lamina 5–10 × 2.5– 5.0 cm, ovate, elliptical or ovate-oblong, obtuse to acute at apex, dentate, with large, rounded mammiform teeth, gradually getting larger towards the base, the basal pair often narrower and retrorse, and truncate at base

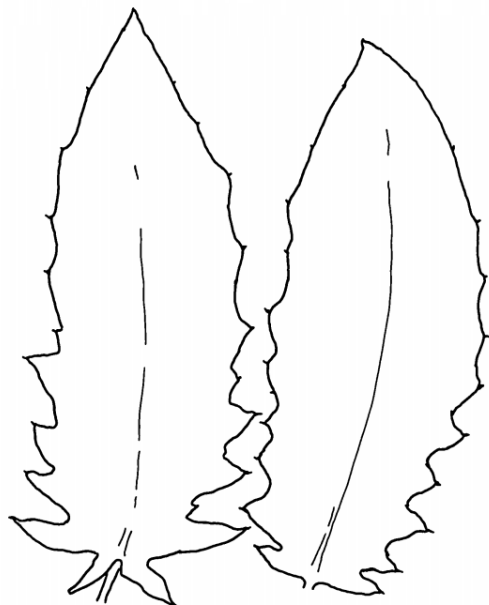


not clearly divided into outer and inner, the lamina 2–9 × 1.5–4.0 cm, lanceolate, ovate or ovate-oblong, pointed but mostly obtuse at apex, markedly dentate, the teeth unequal and mostly broadly mammiform, truncate at base, often with 2 retrorse teeth, the petioles up to 8 cm, with dense, long, pale simple eglandular hairs; cauline 0–1, with lamina lanceolate or ovate, pointed or caudate at apex, markedly dentate with large mammiform teeth, subtruncate at base



outer with lamina 6–8 × 3–4 cm, ovate or elliptical, rounded at apex, entire or denticulate in upper half, dentate below with large mammiform teeth and subtruncate, often asymmetrically at base, the inner with lamina 8–11 × 3.0– 4.5 cm, broadly oblong, rounded or obtuse-mucronulate at apex, dentate in the lower two-thirds with large mammiform, sometimes acute-mammiform teeth, and truncate at base

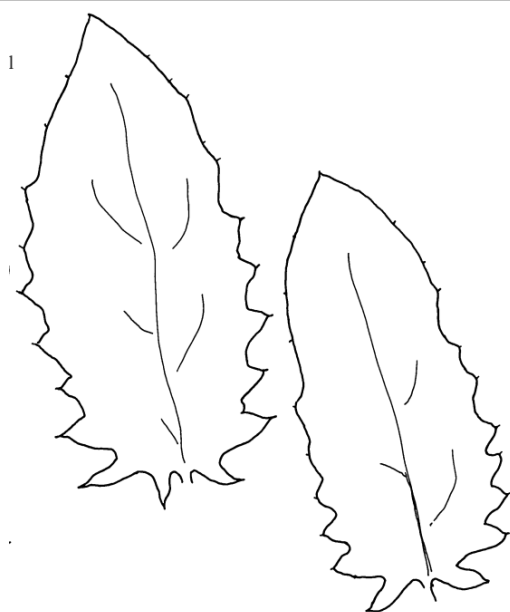
## Inner & Outer Basal Leaves



all similar, few, the lamina 6–12 × 2–4 cm, broadly oblong, rounded-mucronulate to subacute at apex, deeply dentate except sometimes in the upper third, the teeth large and mammiform, sometimes narrowly and sharply mammiform, subtruncate at base, often asymmetrically, and the basal teeth sometimes retrorse

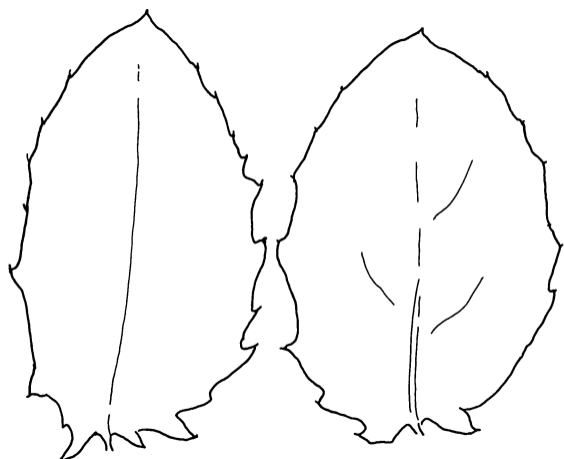


outer with lamina 5–8 × 3–4 cm, ovate or oblong-ovate, rounded-mucronate at apex, entire in the upper part, with narrow to broad mammiform teeth below and the basal pair sometimes retrorse, the inner with lamina 5–11 × 3.5–4.5 cm, ovate or oblong-ovate, sometimes almost oblong, acute at apex, with large, rounded or narrowly mammiform teeth and mostly truncate at base

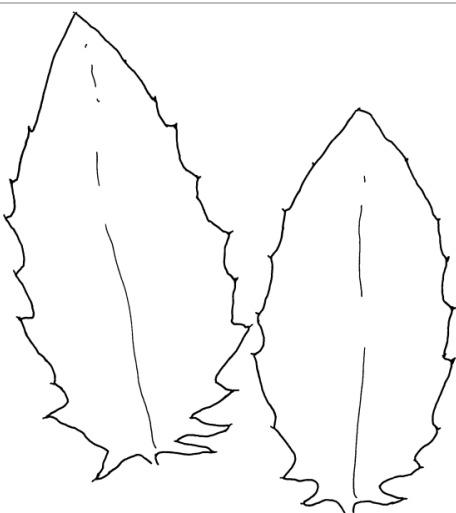


outer with lamina 2.5–10 × 2.0–6.0 cm, subrotund to ovate or elliptical, rounded mucronulate at apex, with large mammiform teeth at least in the lower half and truncate at base, the inner large, with lamina 9–16 × 4–7 cm, oblong or narrowly elliptical, obtuse to more or less acute at apex, with large, irregular, rounded, mammiform teeth in all but the upper third, the largest near the base and the lowest pair sometimes retrorse, subtruncate at base

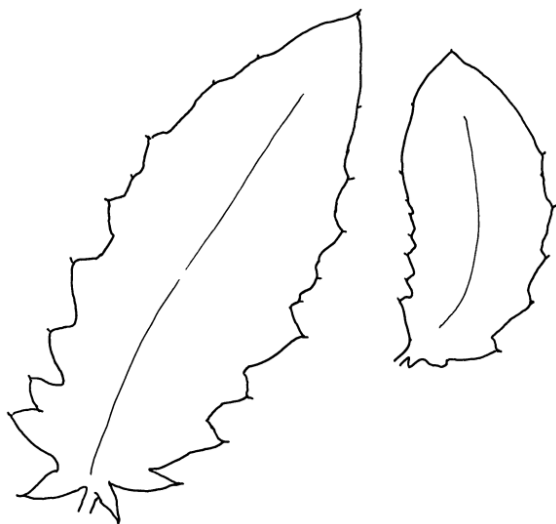
## Inner & Outer Basal Leaves



outer with lamina 3– 6 × 2–5 cm, broadly ovate or broadly elliptical, obtuse-mucronate at apex, dentate, especially in the lower half, the teeth more or less mammiform, and truncate at base, the inner with lamina broadly elliptical or oblong-ovate, obtuse to acute at apex, dentate in the lower half with mammiform teeth and cordate to truncate at base or the inner sometimes similar to outer but often the lamina narrower and more acute at apex, sometimes all leaves like the outer

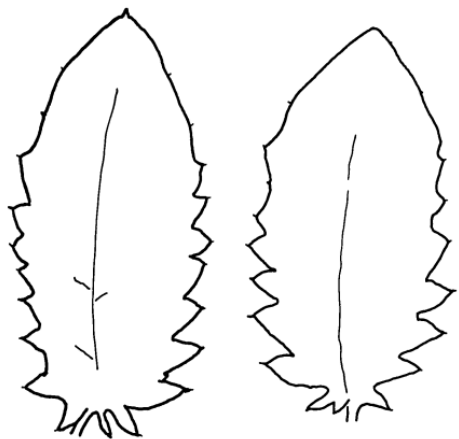


inner and outer not particularly distinct, 5–15 × 2–6 cm, ovate, sometimes broadly so, oblong-ovate or elliptical, rounded-obtuse to subacute at apex, denticulate to dentate especially in the lower half, the teeth shallowly to narrowly mammiform, sometimes with 2 retrorse ones at base, more or less subtruncate

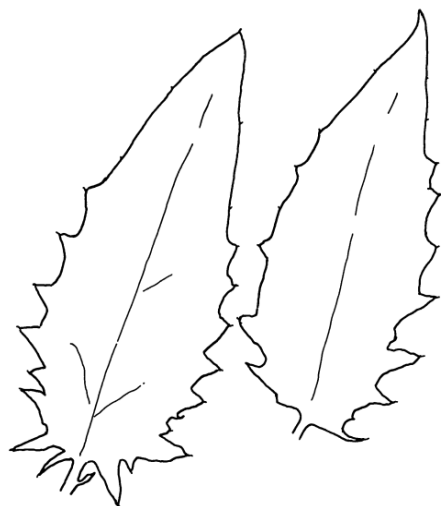


the outer with lamina 2–12 × 1.5–6.0 cm, elliptical to broadly ovate or oblong, rounded to obtuse at apex, often entire towards the apex and denticulate to dentate below, the teeth sharp and apiculate and rounded, truncate or subcordate at base, the inner with lamina ovate or oblong, usually more or less acute at apex, more deeply dentate, the teeth usually narrowly mammiform or aquiline-mammiform and the basal pair sometimes long and retrorse

Inner & Outer Basal Leaves



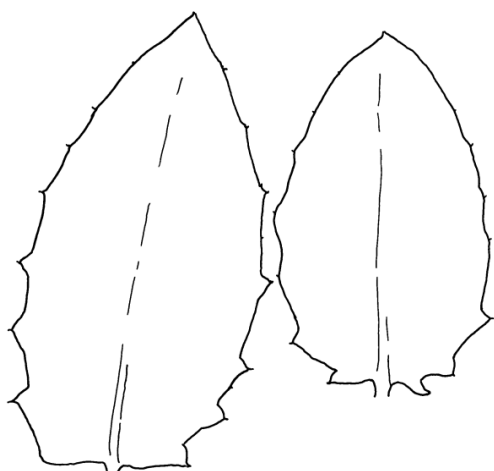
outer with lamina 5–7 × 2–4 cm, ovate or elliptical, rounded-mucronulate at apex, dentate, with numerous, shallow, mammiform teeth in the lower two-thirds and a truncate base, the inner with lamina oblong, oblong-elliptical or elliptical, acute at apex, dentate in the lower two-thirds, the teeth narrowly mammiform and the lower pair often retrorse



all fairly similar except in size, the lamina 3– 12 × 2–5 cm, lanceolate, lanceolate-oblong, ovate or ovate-oblong, most more or less acute at apex, some narrowed to an obtuse apex, irregularly dentate, the teeth of various sizes, mammiform or narrowly mammiform and spreading, the basal pair sometimes retrorse, the teeth interspersed with a few denticulations, mostly subtruncate at base

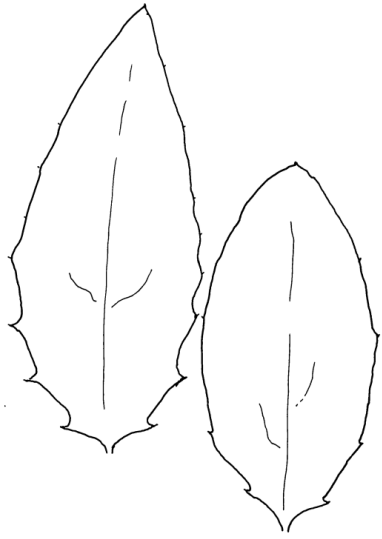
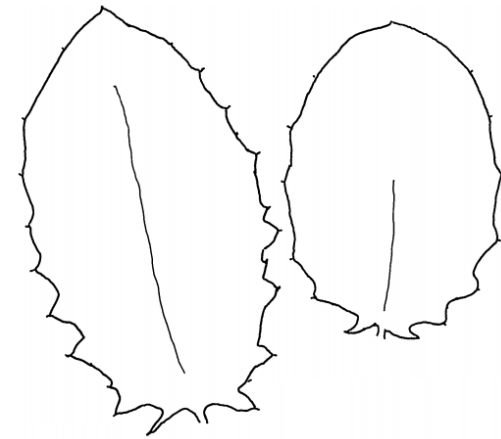
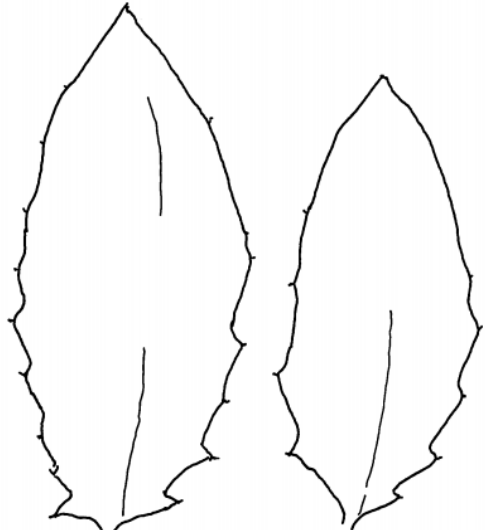


outer with lamina 4–10 × 2.5–6.0 cm, subrotund, broadly ovate, broadly elliptical, broadly rounded and mucronulate to obtuse at apex, undulate-dentate, the teeth more or less mammiform and truncate at base with the basal pair of teeth often retrorse, the inner when present, with lamina 6–10 × 2.5–5.0 cm, elliptical or oblong-elliptical, subobtuse to more or less acute at apex, toothed like the outer



outer with lamina 2– 9 × 2–6 cm, subrotund, ovate, elliptical or oblong-elliptical, rounded-mucronulate at apex, subentire to shallowly and broadly sinuate-dentate and sometimes with larger teeth at the base which is rounded, truncate or subcordate, the inner with lamina 6–14 × 3–7 cm, mostly elliptic-oblong to ovate-oblong, more or less acute or acuminate at apex, dentate, often with large, mammiform teeth, sometimes with the teeth sharper, the lower pair often

**Inner & Outer Basal Leaves**

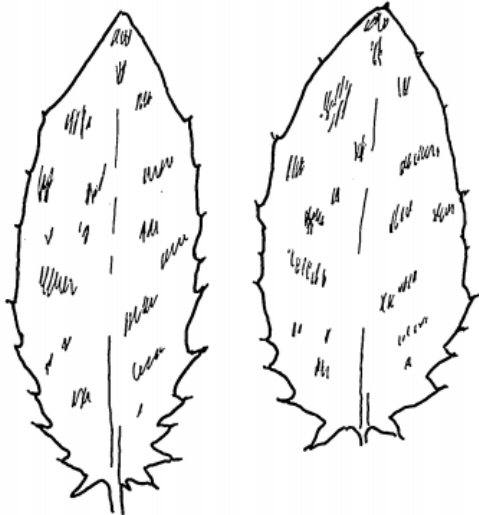
	<p>retorse, truncate or subcordate at base  outer with lamina 7–10 × 4–5 cm, elliptical or ovate, narrowed, but obtuse at apex, subentire or sinuate-denticulate or sinuate-dentate and cuneate to rounded or subcordate at base, the inner with lamina 4–14 × 3–8 cm, broadly ovate, ovate-elliptical or oblong-elliptical, acute, shortly acuminate or cuspidate at apex, sinuate-dentate, the teeth mammiform or sharply mammiform, the lowest pair sometimes cusped or retrorse, cuneate, truncate or subcordate at base</p>
	<p>outer with lamina 3–10 × 2–6 cm, at least one of them large and subrotund or very broadly elliptical, sometimes ovate-elliptical, rounded-mucronulate at apex, sinuate-dentate in the lower half, sometimes denticulate in the upper half and rounded, truncate or subcordate at base, the inner with lamina 6–9 × 2.5–6.0 cm, usually ovate or elliptical, sometimes elliptic-ovate, rounded-obtuse to more or less acute at apex, sinuate-dentate, with the teeth mammiform or sharply mammiform, and truncate or subcordate at base</p>
	<p>outer with lamina 2–9 × 1.5–4.5 cm, subrotund, ovate, elliptical or oblong-elliptical, obtuse-mucronulate to subacute at apex, subentire or shallowly dentate towards the base and rounded or subcordate at base, the inner with lamina 4.0–10.5 × 1.5–4.0 cm, often oblong-elliptical, sometimes ovate, elliptical or lanceolate, more or less acute at apex, subentire, dentate or sinuate-dentate, the teeth usually shallow and sharply pointed and cuneate to subcordate at base</p>



## Inner & Outer Basal Leaves



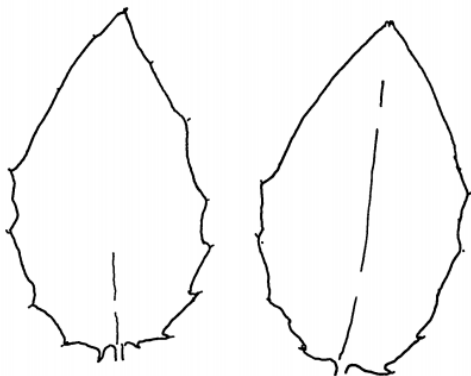
spotted and blotched... hardly divided into outer and inner, the lamina 4–10 × 2.5–4.0 cm, oblong-elliptical, oblong-lanceolate, oblong or ovate, narrowed to a rounded-mucronate point, entire in the upper third, dentate in the lower two-thirds, the teeth getting longer towards the base and mammiform or narrowly mammiform with a long mucro at tip, subtruncate at base



spotted and blotched... not clearly differentiated into outer and inner, the lamina 5.5–7.0 cm, lanceolate, ovate or elliptic-oblong, narrowed and mucronulate to acute at apex, entire in the upper half to denticulate or shallowly serrate below, the teeth narrow and sharp, subtruncate at base

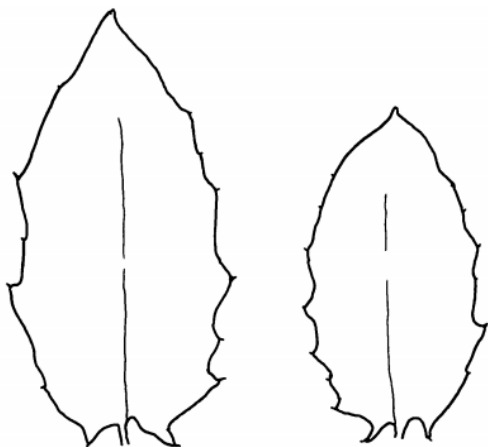


not divisible into 2 kinds, the lamina 2.5–6.0 × 1.5–2.5 cm, ovate or lanceolate, sometimes oblong-lanceolate, acute at apex, dentate with regular small teeth in the lower half, truncate or cuneate at base

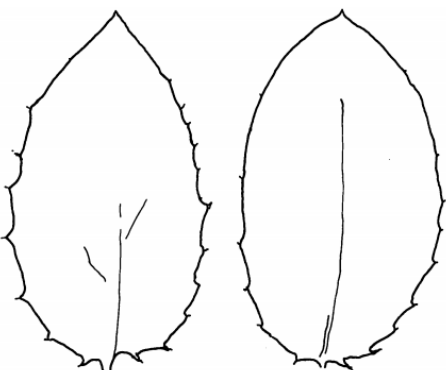


not distinctly divisible into 2 kinds, with lamina 2–8 × 1.5–3.5 cm, ovate, lanceolate or oblong-lanceolate, obtuse-mucronate to acute at apex, subentire to denticulate or with a few sharp teeth at the base, subtruncate or rounded at base

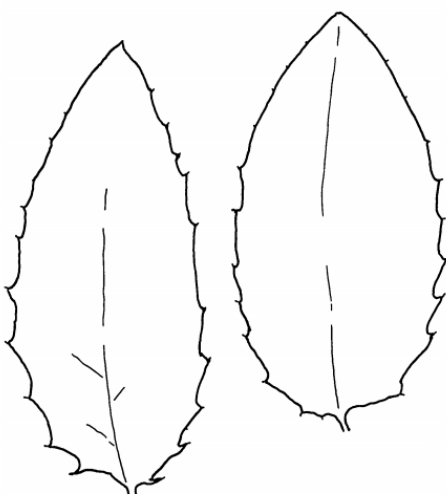
Inner & Outer Basal Leaves



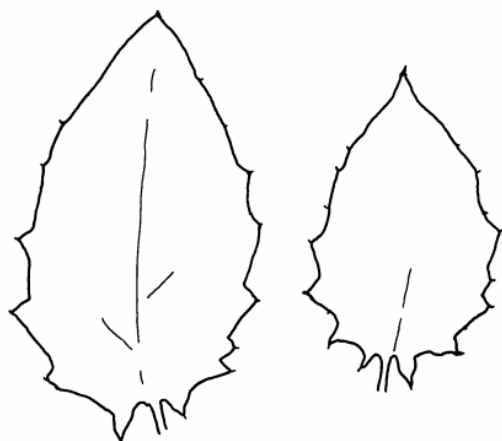
not obviously divided into outer and inner, the lamina 2.5–7.0(–9.0) × 1.5–3.5 cm, mostly ovate, sometimes subrotund, elliptical or lanceolate, rounded to more or less acute at apex, subentire or shallowly sinuate-dentate in the lower half, truncate at base



all more or less similar except for size, the lamina 4–12 × 2–7 cm, broadly ovate or broadly elliptical, obtuse-mucronate to more or less acute at apex, regularly sinuate-denticulate or with a few shallow teeth towards the base, cordate or truncate at base, sometimes asymmetrically so

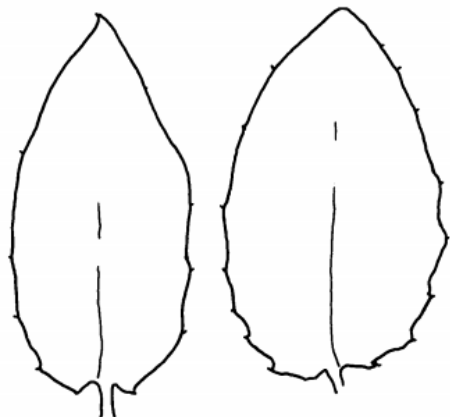


3–10 × 2–4 cm, the outer with lamina broadly elliptical to ovate, rounded mucronulate at apex, subentire to undulate-denticulate or undulate-dentate and rounded or subtruncate at base, the inner with lamina lanceolate to ovate, more or less acute at apex, more or less dentate or serrate-dentate in the lower two-thirds, the teeth mammiform or sometimes aquiline-mammiform and cuneate to truncate, often asymmetrical at base

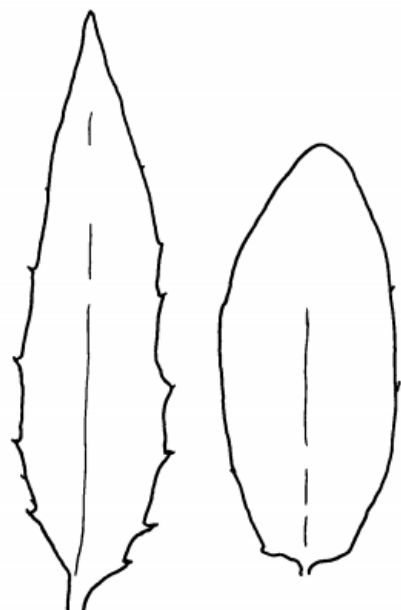


not clearly divided into outer and inner, the lamina 2–8 × 1.5–4.0 cm, mostly broadly triangular-ovate, sometimes lanceolate or oblong-ovate, mostly more or less acute at apex, but sometimes rounded-obtuse-mucronulate, shortly dentate in lower three-quarters, the teeth small and sharply apiculate, rounded or subtruncate at base

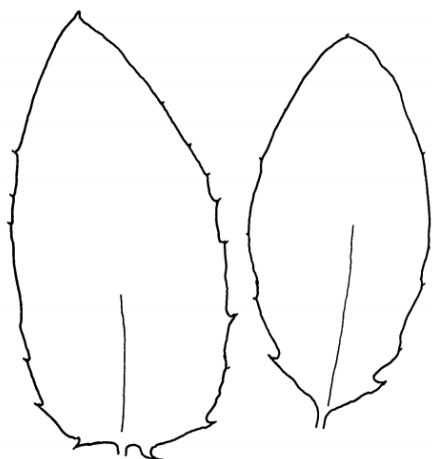
Inner & Outer Basal Leaves



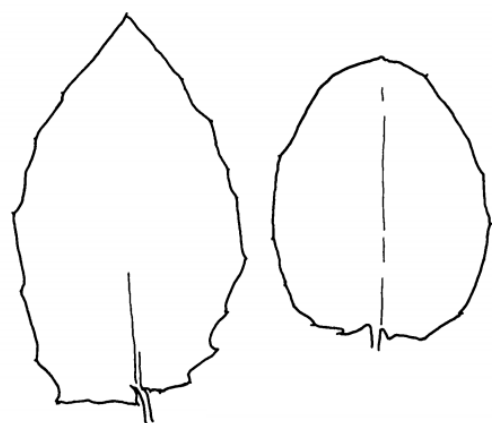
outer with lamina 3–7 × 1.5– 4.0 cm, ovate, oblong or oblong-ovate, rounded-obtuse at apex, entire or with minute denticulations and subtruncate, rounded or subcordate at base, the inner with lamina 6– 8 × 2.0–3.5 cm, narrowly elliptical, ovate or lanceolate, more or less acute at apex, entire or minutely denticulate, and rounded or subcordate at base



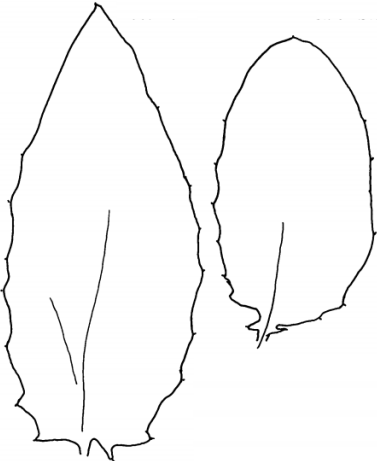
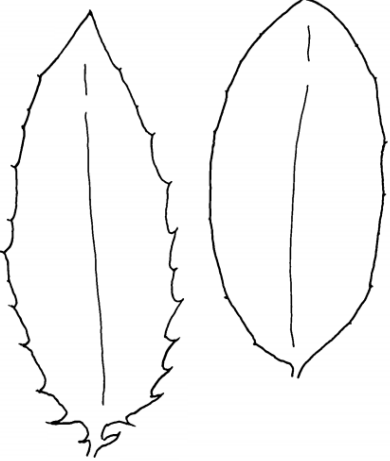

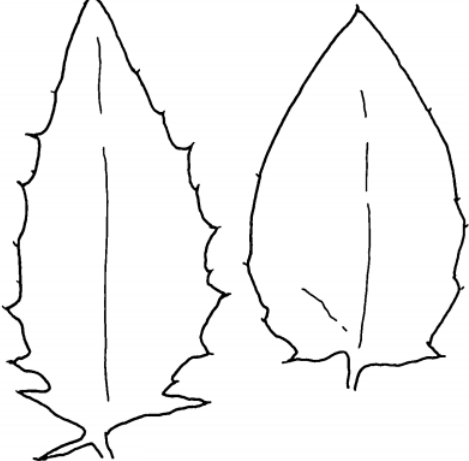
lamina 2–10 × 2.0–3.5 cm, the outer elliptical or ovate, obtuse at apex, entire or denticulate and rounded at base, the inner with lamina oblong, elliptic-oblong or lanceolate, usually acute at apex, entire or denticulate and sometimes with a few, larger, more or less acute teeth near the base



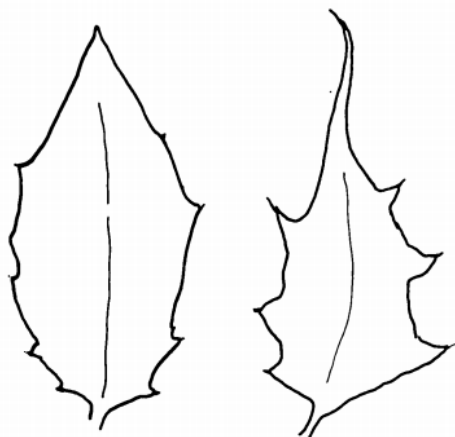
lamina ovate, elliptical, lanceolate or more rarely subrotund, rounded-obtuse to acute at apex, entire, remotely denticulate or with a pair of mammiform teeth at the base, rounded or subtruncate at base



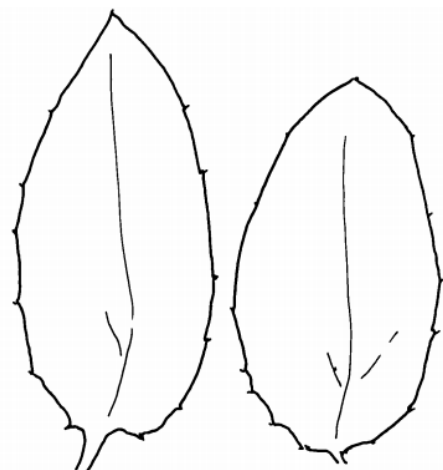
outer with lamina 2–8 × 2–4 cm, subrotund, ovate or elliptical, obtuse-mucronate to broadly rounded at apex, entire to faintly undulate-denticulate or sometimes with a few obscure teeth, and truncate or cordate at base, the inner with lamina 6–11 × 3–5 cm, ovate or oblong-ovate, more or less acute at apex, entire or with a few shallow teeth and cordate or truncate at base, sometimes the leaves are all like the outer, sometimes all like the

Inner & Outer Basal Leaves	
	<p>inner</p> <p>not obviously divided into 2 kinds except for size, the lamina 4–10 × 2–4 cm, mostly elliptical or lanceolate-elliptical, rounded-mucronulate to more or less acute at apex, subentire to denticulate or shallowly sinuate-dentate near the base, rounded or truncate at base</p>
	<p>outer with lamina 3–11 × 2–5 cm, more or less elliptical or ovate-elliptical, rarely oblong-elliptical, rounded-mucronulate at apex, entire to denticulate or shallowly sinuate-dentate and subtruncate or subcordate at base, the inner with lamina 7–10 × 3–5 cm, mostly oblong to oblong-elliptical, obtuse-mucronate to more or less acute at apex, sinuate-denticulate or shallowly sinuate-dentate and subtruncate to subcordate at base</p>
	<p>outer with lamina ovate, elliptical or subrotund, rounded-mucronulate to subacute at apex, denticulate or dentate, and rounded or subtruncate at base, the inner with lamina lanceolate, ovate or elliptical, acute to acuminate at apex, denticulate to deeply dentate with sharp teeth, and subtruncate or shortly cuneate at base</p>
	<p>more or less similar except for size, the lamina 1.5–8.0 × 1.0– 3.5 cm, lanceolate, ovate or elliptical, most more or less acute, sometimes obtuse at apex, shallowly dentate with mammiform teeth, the upper third entire or denticulate, abruptly contracted or subtruncate at base</p>

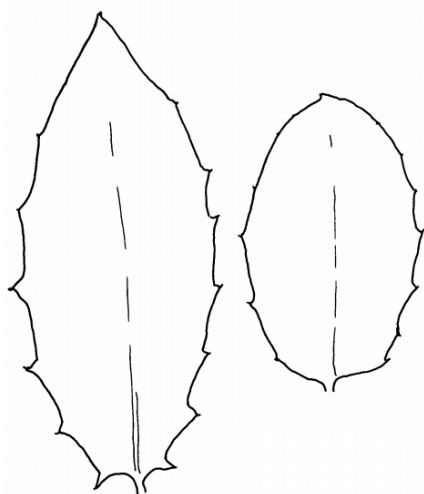
Inner & Outer Basal Leaves



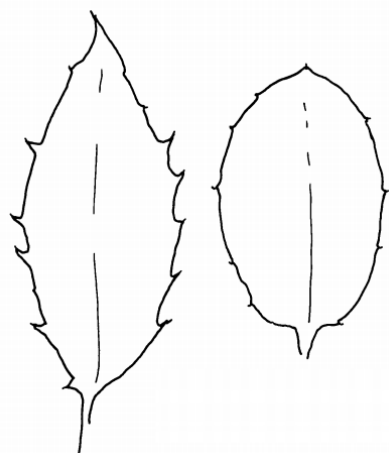
lamina 4-7 × 2-3 cm, ovate, elliptical or elliptical-lanceolate, acute to acuminate or cuspidate at apex, denticulate to sinuate-serrate or sharply dentate with long, spreading teeth, subtruncate or shortly cuneate at base



lamina 3- 7 × 1.5-3.5 cm, lanceolate, ovate or elliptical, rounded or subacute at apex, subentire or denticulate near the base, rounded or subtruncate at base

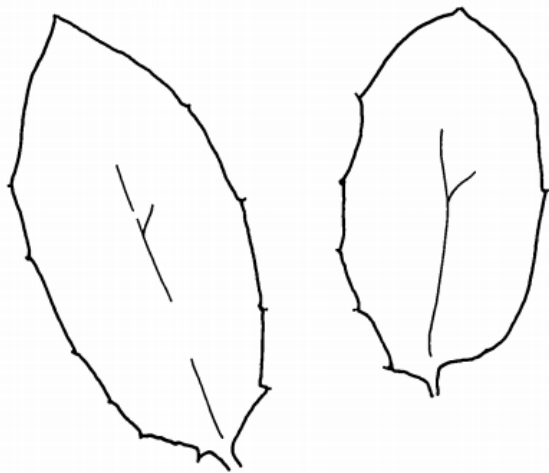


lamina 4-10 × 2.0-4.5 cm, the outer elliptical or with lamina elliptic-lanceolate, more or less rounded at apex, undulate-denticulate, with shallow, apiculate teeth and rounded or subtruncate at base, the inner with lamina elliptical to oblong or sometimes ovate, acute at apex, undulate-denticulate to shallowly dentate, with small mammiform teeth, and subtruncate to cuneate at base

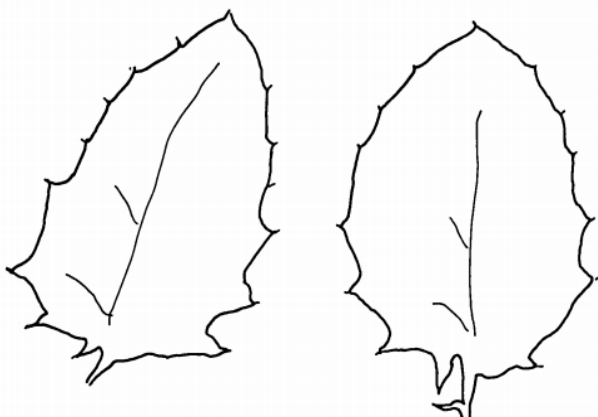


hardly divided into outer and inner, the lamina 1.5-10.0 × 1.5-5.0 cm, subrotund, broadly elliptical or ovate, mostly rounded-mucronulate at apex, but sometimes more or less acute, subentire, denticulate or sharply and shallowly dentate, the teeth with mucros, rounded or cuneate at base

## Inner & Outer Basal Leaves



lamina 1.5–7.0 × 1.5–3.5 cm, ovate, obovate, elliptical or obovate-elliptical, rounded-mucronulate to broadly acute at apex, mostly denticulate or undulate-denticulate, sometimes with a few, small teeth at the subtruncate or shortly cuneate base



outer with lamina 2–7 × 1.5–4.0 cm, broadly ovate, subrotund or sometimes almost reniform, broadly rounded-mucronulate at apex, shallowly dentate in the lower two-thirds and truncate or cordate at base, the inner with lamina 4–9 × 2–4 cm, broadly ovate to lanceolate, rounded-mucronulate to more or less acute at apex, denticulate to strongly dentate, with the teeth mammiform or aquiline-mammiform and the basal pair sometimes retrorse, subtruncate at base