

The 1999 Joseph Banks Memorial Lecture: The New Zealand Garden

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Introduction

For several years I have been fascinated by the relationship between our native gardens and our wild places. Initially this interest was stimulated by the realisation that most of our public native gardens were rather boring places to be, whereas our wilderness areas were, thankfully, just the opposite. We were obviously missing some vital connection in our native gardens.

Why aren't we making a better job of creating our native gardens? I suspect that part of the answer lies with the assumptions we have made. Prime amongst these is the assumption that a collection of plants makes a satisfying garden. This is not.

What's so special about our native plants anyway? All plants, natives included, are just manifestations of a process involving rocks, water, air and sunlight. Nature's been practising this process for many millions of years and has got very good at it. The world, in fact, is almost covered in plants. So what's so special about the relatively few plants we have here in New Zealand?

To be sure, our native plants do have some special attributes - tropical affiliations, ancient lineage back to Gondwana, unusual growth forms and structures, amongst others. But to me the key distinction between our native plants and all the rest, the one that puts them above all others, is their power to awaken our senses and memory and so connect us with our native landscapes. Native plants remind us why we are special - they are our plants, they belong in our landscapes, they reflect our unique history. They are here, in our patch, these lovely unique islands lost within the roaring forties and furious fifties of the southern Pacific Ocean.

The Botanical and Landscape Heritage

Suggest to the average New Zealander that their so-called 'bush' is world famous, and one is likely to receive a look of complete disbelief. What on earth could be so special about this ubiquitous forest cloak of ours? For, one must admit, to the casual observer there still appears to be plenty of it. No matter where we go in the country, it is easy to find some tattered bush remnant up a gully or proudly proclaimed within a public reserve.

So, in a sense, ignorance is quite understandable. Nevertheless, unique our forests are, in more ways than one. Ask any specialist why, and one is immedi-

ately regaled with supporting facts and figures: New Zealand's forests are temperate by position and tropical by disposition; over 80% of the plants within New Zealand's forests occur nowhere else in the world, our forests have evolved in complete isolation from other forest communities for many millions of years; they contain plants and animals unique to New Zealand.

But to get at the real essence of the unique spirit of our New Zealand forests, it is perhaps more instructive to quiz the many Kiwis who regularly venture 'out there' to soak it up. For it is undeniable that our forests hold a special place in the hearts and minds of many ordinary New Zealanders - and indeed many overseas visitors. Most of these folk are unlikely to have any technical training and so they see it all quite differently and often with a set of values and perceptions that may be more accessible to the rest of us. To such folk, our forests are unique because they look, feel and smell special. They constitute an experience we cannot replicate elsewhere, no matter where we travel.

Feelings are perhaps an unusual way to introduce our New Zealand forests. But consider the kauri forest giants of the far north. To confront a grove of kauri with their trunks rising 20 metres or more; clean, unbranched, parallel-sided, is to confront botanical immensity. There is no way around such plants, literally or figuratively. They are immense, commanding our field of view and engulfing our ego. They rise like Greek columns, supporting leafy ceilings that float above us, beyond our ken. Such forests, viewed from the forest floor, are all wood.

Such experiences are not restricted to the northern kauri forests. There are still a few places in the North Island where we can enjoy the cathedral-like atmosphere of our tall conifer forests. Like their kauri cousins of the far north, these podocarp communities connect us back through time to the days of the dinosaurs. Then, the ancestors of today's trees lived as their descendants do here today.

The rimu forests of Whirinaki in the Urewera country are one such magic spot. Here, rank upon rank of tall slim rimu trunks rise far above and clear of other forest vegetation. Below, as we tread gently over the mossy carpet of the forest, the rimu rise up as woody cylinders, their foliage effectively blocked from our sight by the tawa canopy, glowing gold high above us in the late evening light. Lower still, the tall tree fern crowns are now in stark relief, their carousels of arching fronds etched black against the glowing tawa canopy. To walk

Fig. 1

The massive trunks typical of conifer broadleaf forest: some of these trees can trace their ancestry back to Gondwana



Fig. 2

Alpine snow tussocks and mountain flanks: perhaps the quintessential kiwi experience

Fig. 3

Wellington's regenerating conifer broadleaf forest, Otari



alone in such places at dawn or evening is to be transported in time to another reality, another dimension. Then, if we have been particularly blessed, a cacophony of kaka parrots may flock in to argue and banter, roosting high above us in branches almost lost from sight in the dimming light. Neither science nor accountancy can adequately describe the value of such experiences: they cannot be costed in dollars and cents, or described in terms of species diversity, antiquity, or biomass.

As we climb higher or travel southwards, our forests change again. Higher ground, with steeper slopes, poorer soils and windier aspects, create conditions more acceptable to beech forests. Beech forests lack the complex multi-layered structure of the conifer broadleaf forests and consequently their uncluttered interiors are more in sympathy with the human condition. To walk through a sun-lit beech forest is to experience the grace of light and space. Here, the sometimes oppressive jungle-like feel of the conifer forests gives way to park-like scenes where large, well-spaced beech trees with huge branches carry tiny leaves that filter the sunlight, creating dappled pockets of shade and light across the forest floor. Imagine all this and a warm, soft breeze carrying the scents of moist leaf blades, aromatic leaf mould, turgid mosses, fungi, and ferns. Walk gently, traveller. Here, yet again, is an experience beyond price.

Enchantment enough, you may think. But there is more yet. Climb higher still to enter the realm of the cloud forests - those areas where mist, fog or rain rules for much of the year. Here the character of the forest and its trees (usually beeches or kamahi) change dramatically. Cloud forest trees become stunted, their gnarled misshapen limbs leer grotesquely out of the ever-present mist that swirls and flows, often restricting visibility to a few metres. Ground shrubs are rare. The forest floor, tree trunks and branches develop a swathe of lichens and mosses in this permanently cold, wet climate. Such is the stuff of terror and fairy tale. Such are our goblin forests.

Fairy tales and goblins? Surely we are guilty of an excessive flight of imagination here. Well, perhaps, but in a very real sense the story of New Zealand's forest plants and animals is as strange and wonderful as a good fairy tale, and as old, too. For, to understand the special features of our plants and animals, it is necessary to unravel a long complex story, one that had its beginnings over 100 million years ago.

Once upon a time, New Zealand, in partnership with Australia, South America, South Africa, New Caledonia and Antarctica, was part of a large southern hemisphere landmass called Gondwana. About 80 million years ago, in response to currents deep within the Earth's crust, Gondwana began to fragment. As part of this process, New Zealand slowly rifted away to begin a long period of isolation from all other lands,

lost in the roaring forties and furious fifties of the southern Pacific Ocean. New Caledonia separated from Gondwana about the same time and has subsequently enjoyed a Club Med existence in warmer climes, but life has not been so easy for New Zealand's flora and fauna. Ice ages have brought extinctions, loss of habitat, climate change and the need to continually adapt in order to survive. Volcanoes have wiped out large tracts of forest, but have given new opportunities through the creation of new soils and habitats. Long-term seismic uplift during the past 5 million years has created steep unstable mountains, new environments, new challenges and further opportunities for our plants and animals. Given this restless tormented history, perhaps it is little wonder that, today, many of our species show quaint adaptations and lifestyles that are unknown or rare in other parts of the world.

For example, many New Zealand birds forsook flight, presumably because they didn't need it. Who needs to fly well if you haven't a host of mammalian predators intent on making a meal of you? We also have large flightless insects (weta) with a lifestyle rather similar to that of mice elsewhere in the world; our frogs don't have tadpoles, our lizards don't lay eggs. Many of our shrubby plants (the divaricates) grow as though they aren't sure which way is up and our young lancewoods have a juvenile form that looks rather like a collapsed umbrella. Many of our forest trees are sexually modest, to say the least, bearing small, greenish or white flowers. They can hardly be accused of flaunting their wares. Thankfully (from the purely human perspective), many do strut their stuff after fertilisation, (yes, they still manage it), bearing colourful berries to attract birds. Passing strange and wonderful - almost wherever we look, our forest plants and animals reveal strange and unusual adaptations.

Mountains and volcanoes have created high alpine habitats where, as the altitude increases, plants must cope with cold, wind and shorter growing seasons. There is a limit to any species' tolerance. Eventually the summers are too short to sustain tree growth and mountain shrubland communities take over. These contain some very tough customers - physically and physiologically - but their fitness and hardiness for this uncompromising environment does nothing to reduce their attractiveness. Mountain shrubland canopies are often an aesthetic delight - a consequence of being relentlessly pummelled and sculpted by wind, ice and snow. The brilliant foliage colours are produced in response to extreme light intensities that include high levels of ultra violet radiation. At Arthur's Pass, for instance, we find a serendipitous palette of colour and texture strong enough to satisfy the most discriminating artist: spring greens from mountain hoheria *Hoheria glabra*; olives from mountain toatoa *Phyllocladus alpinus*; deep bronzes from *Dracophyllum longifolium*, all set against the gray-green mountain beeches of the forest margin.

But eventually the hardy shrubland plants meet their limits, giving way to fitter and hardier snowgrass communities. Surely there is no sight more uplifting than the sinuous grace of wave upon wave of snowgrass flashing across a mountain flank in response to alpine breezes, backlit by late evening sunlight and topped by towering cumulous cloud. Returning to earth, we may find these snowgrass communities valuable for less celestial reasons. Hidden within the snowgrass communities we find many plants of horticultural merit, including astelias, celmisias, buttercups and mountain speargrasses.

Mountain fellfields occur high up on mountainsides in places where gales, heavy frosts and continually eroding soils are the rule. Plants here hug the ground. There is no prize or future in attempting to grow up. Vegetable sheep are a common growth strategy here - shrubs reduced to prostrate ground-hugging forms by an unrelenting environment. You would have trouble recognising these mats as shrubs until the violent storms rip away some of the plant to reveal the woody stunted branches below the densely compacted, furry leaves.

Now, I think it's fair to say that we tend to view the inhabitants of Central Otago as rather different from the norm. Certainly this is true for Central's landscapes. Even the mountains here are slightly perverse - steepest near the bottom, gently sloping near the tops which then flatten into extensive high plateaux. Up here one is immediately transported into another realm - the cushion moorland: mists swirl about large schist tors, heavy frosts (likely nearly all year round) heave the open ground into geometrically defined patterns of hump and hollow, icy southerly storms scythe off any vegetation presumptuous enough to attempt an ultimate height of more than a few centimetres. This is the territory of cushion- and mat-forming plants, dominated by *Dracophyllum muscoides*. But many other tiny plants such as *Raoulia grandiflora* and *Brachyglottis haastii* eke out an existence in this hostile terrain. These high plateaux also feature the cushion bogs that form in poorly drained depressions. Sphagnum, sundews and *Oreobolus pectinatus* are common species here.

But for me, the alpine habitats that take the ultimate prize are the scree slopes of the eastern South Island. Scares are steep slopes of slowly mobile eroding greywacke rock. There is no shortage of rocks, the steadily uplifting, constantly eroding mountain backbone sees to that. At the surface, in summer, the scares appear impossibly dry and too hot to support plant life. However, there is ample water below the surface. So, almost against the odds, plants live here. Ironically (and for no fully satisfactory reason) the plants mimic the rocks in colour. Unusual plants complement an unusual environment. There is plenty here to gladden the collector's heart, including gems such as the penwiper, *Notholaspi rosulatum*, and the

almost-black-flowered *Leptinella atrata*.

Some alpine plants are amenable to cultivation but others are decidedly intractable. *Raoulia* and *haastia* vegetable sheep quickly rot when exposed to our warm wet winter weather. Keep the foliage dry over winter and you are in with a chance. It appears that water just above freezing causes no problems, but above this temperature the fungi become active and the tight rosettes rot off.

Penwipers are sensitive to frost. How ironic. Up high, they are protected for months below a layer of insulating snow. Specialist fanciers find that the only satisfactory way to grow many of these rarities is in pots, so giving better control of the plant's environment. Be warned though, many need regular repotting in order to maintain their vitality. Perhaps this should come as no surprise, but when the root zone of *Wahlenbergia cartilaginea* was investigated, it was found to occupy about 700 litres of scree soil. No wonder 'gone to pot' isn't the complete solution!

Wherever we go within New Zealand, we are confronted with our own unique plants and landscapes. There is no new discovery in this - botanists have marvelled since the time of Cook's early voyages, and it took little time before horticulturists and gardeners followed suit. Then, in the 20th century we discovered that all was not well with the health of our ecosystems. Conservationists began protecting and revegetating. Horticulturists in public gardens supported the conservation ethic by propagating and growing endangered and rare natives.

Today, we need to take stock: is this really the ultimate focus of a native garden, or should we be looking for more? In particular, how can we claim to have done our work well if our cultivated natives do not reflect the spirit that connects us to our plants and landscapes? For if we continue to treat our native plants merely as botanical curiosities and rarities, we run the risk of excluding most of our potential audience. By focusing largely on collections and rarities we sentence our native gardens to forever play to an elite, but restricted audience.

The garden connection

The spirit of wild New Zealand: I doubt that there is a New Zealander cultivating native plants today who is not in some personal way responding to the call of our natural landscapes. For many, perhaps most of us, this has been and remains the basis of our passion for native plants.

But look about our public garden native borders and you will quickly see the basis of my disquiet. Our public native gardens don't rivet the mind or imagination with their reflections of spirit of place and wild New Zealand. On the contrary, they often emanate the virtuous reek of high moral purpose. Who needs aesthetics and spirit if you have high moral purpose?

Today, our garden policies and aims focus on plant collections, ecology, botany, horticulture, conservation, protection and education. These may be appropriate strategies for justifying a garden's existence to accountants, politicians, and bureaucrats and (let's be honest) plant enthusiasts. But it doesn't do much for the rest of us.

I suspect that it is not so much that we have lost the plot, but that we have never actually found it. Today our native gardens exist for the benefit of the plants. What nonsense. The plants should exist *for the benefit of the garden*. Because, as Gertrude Jekyll and other lesser mortals have observed, a collection of plants does not in itself make a garden. And it is high time some of our professional gardeners took this idea to heart.

Michael Pollan has noted in his book, *Second Nature*, that gardens made by moralists are not as pleasing to the eye as gardens made by aesthetes. I'd go further, because I think that landscape connections and spirit are equally important in the case of the native garden. Our native gardens don't work because they commonly lack two essential elements: aesthetics and connections. Consequently, our native gardens are mundane and boring.

Aesthetics are critical because they provide the stimulus that links the garden with nature. But we don't appear to take them seriously. Over the years we have let the aesthetic dimension slip from our sight and our native borders have suffered accordingly. We make the critical blunder of assuming that things will look good and connect just so long as we grow plants well.

Aesthetics, that level of consciousness we enjoy when our senses are awakened. The importance of the aesthetic response should never be underestimated because it triggers within us a heightened awareness of our immediate surroundings and these, in turn, may reconnect us with long-forgotten events within other landscapes. If we agree that our native gardens should have a serene dimension we need to look carefully at promoting appropriate aesthetic experiences. It is through the aesthetic response that we connect people to the spirit of wild New Zealand within the unique nature of a garden place.

Perhaps our discomfort or ignorance of aesthetics reveals some cultural immaturity in the Kiwi condition. Perhaps, too, this has been strengthened by the assumption that aesthetics are all very well, but really, they are not *essential*. For it has long been considered that aesthetics are a cultural add-on - only to be taken seriously once other key human and social needs, such as food and shelter, are met.

But current research suggests that this assumption is quite wrong. In fact, scholars now consider aesthetics to have been an integral and essential part of all human cultures. So what are we presently communi-

cating to garden visitors about our Kiwi condition?

Making connections

It isn't all doom and gloom. During my work on *The Native Garden* I was fortunate to meet many amateur gardeners imbued with a passion for native plants. To these folk, gardens were as much expressions of past experiences within wild New Zealand landscapes, and of their cultural identity, as they were attractive plant collections. Should this come as a revelation to us? I think not. For throughout human history, plants and landscapes have been imbued with metaphor.

Landscapes don't just mould plants, they also mould the people who live and move within them. Our world view, our sense of national identity, our cultural attitudes and values are all, in part, the product of the landscapes in which we have lived.

Perhaps the most moving account I have read concerning this bond between human culture and home landscape is that written nearly 200 years ago by French explorer Frances Peron. Above the shores of Bass Strait, Peron came upon Australian aboriginal burial monuments on a high hill, carefully positioned to allow panoramic views of sea, coastline and hills. Impressed with their placement, he concluded that these cremated remains had been carefully positioned by the stone-age aboriginals to allow the deceased unrestricted views across this beautiful landscape.

In his foreword to Paul Shephard's book, *Man in the Landscape*, Michael McCarthy asks: 'What is so strongly felt by the living about views of scenery that they are sanctified as sites for the dead?'

Here in New Zealand today we don't express ourselves so strongly, but nevertheless we prize our wild landscapes as places of personal refuge where we can get away from the despair of the daily grind and recharge our batteries. Time out to, as Thoreau suggests, commune with 'higher laws'. Isobel Gabites expressed it more poetically in *The Native Garden*: 'Our wild places transmit their splendour by osmosis. You just have to be there to soak it up'.

It is not just native landscapes that become our metaphors. Our plants too, have become cultural symbols, icons, supporting our cultural myths, expressing what we think we are or should be. It is surely no accident that the majestic kauri has been planted at our seat of government, enlisted to support our cultural myths of power and permanence. Or consider the cabbage trees that are employed to personify and support Kiwi myths of persistence and survival in the face of great odds or rugged Kiwi self-reliance.

Perhaps the most potent examples are our koru and silver fern. These symbols embrace all New Zealanders; they express and symbolise our national character. Little wonder then, given the special place and

Fig. 4
Cockayne garden, Christchurch with
native shrubs arranged in a bed
immersed in turf



Fig. 5
Otari's climax view of the
regenerating forest, from Cockayne's
grave

Fig. 6
Brockie's Otari legacy; the rock
garden



potency the koru occupies in our national psyche, that Air New Zealand has seized upon this image to support their branding and marketing strategies.

So, we should never treat our native plants as mere vegetables, or consider them as separate from ourselves or from their landscapes. They are part of us, our national identity, our particular world view, what makes us special. If we are serious about creating a truly New Zealand native garden we must never reduce our native plants to mere labelled collections, or assume that collections of native plants make a successful garden.

Magic mixes

And at present I'd have to say that amateurs are often expressing it all better than we professionals. Some of the best gardens I visited during my work for *The Native Garden* were created by people who professed to 'know nothing about gardening'. If this was indeed true (and the ambience and aesthetics of the gardens concerned suggested otherwise) perhaps there is a case for suggesting that we suffer from too much theory and practice and thereby have lost sight of essential spirit and passion. Certainly these amateur gardens had focus and discipline.

Perhaps more significantly, many owners were unequivocal about their passion for local landscapes and their need to 'connect'. Some had even clarified their position. For example, in the *New Zealand Gardener* (1983), Rob Burton, the owner of one Wellington native garden unequivocally identifies the five tenets of his garden philosophy in an article appropriately entitled 'Patriotism in a Garden is No Mean Thing'. Take note; we have a lot to learn from him:

1. Patriotism - devotion to the unique flavour of one's land
2. Religious - If God wanted cactus in Karori he would have had them [*slightly naughty, here, but a little careful thought will reveal more to this than perhaps we may first credit*]
3. Unity - this discipline of relating all to time and place
4. Practical - local natives solve the discipline of site
5. Links to greater surrounds

Other amateur gardeners informally echoed similar sentiments. And, quite independently, here are Isobel Gabites' thoughts on the subject, as expressed in *The Native Garden*. For her, it is a matter of:

1. Kiwi identity
2. Local species knowing best
3. Compensation for the loss of our heritage, and
4. To connect with the magic of wild New Zealand

There is significant agreement here. It's about patriotism (love of what's ours) and Kiwi identity; it's about setting ourselves serenely within our local landscapes; it's about making local connections. But most of all it's about expressing the unique spirit of wild New Zealand. An expression, if you like, of Love of Place. We need to make it *ours*.

I haven't had the pleasure of hearing similar concepts echoed by gardeners within our public garden system. Perhaps it is about time it happened.

The tragedy is that we are presently so relentlessly focused on horticultural pursuits of high moral purpose that we are in real danger of frittering the vision and passion of those who have gone before us. Take Wellington's Otari Botanic Garden for instance.

Walter Brockie worked at the Otari Native Botanic Garden in Wellington from the late 1940s until the early 1960s. I regard him as one of Otari's unsung heroes. Brockie has constructed what is arguably the best rock garden in the country. You don't need to resort to historical documents to get the essence of this guy - just go and sit in his garden. Brockie obviously loved wild New Zealand and had the flair to communicate this passion through his use of rocks and plants.

But we aren't *consistently* good at gardening these areas. We fail to hold and develop the original vision. Our patterns, which should strengthen and gel with time, often just fade. We fritter the vision away. What we continue to enjoy at Otari is a legacy; Brockie's rock garden continues to succeed because the original passion and vision was so strong. The spirit we continue to harvest is largely a mixture of Brockie's passion and nature's serendipity. But surely our function should be to make it stronger. There are two critical lessons to be learnt here and I see the need in nearly all the gardens I visit:

First, the key to ultimate success is in defining a vision and then holding and developing it, through artful maintenance, over time. But we mostly aren't up to it. Further, there appears to be little expectation that this is, in fact, the key skill of the gardeners on site. There is a common misconception amongst us that successful gardens are just a matter of clever plant selection and design. Then, provided the plants are competently planted, watered and fertilised, the vision will take care of itself. Nothing could be further from the truth. The really difficult part is the long slog - the ongoing day-to-day assessment of the garden by skilled gardeners who can assess and manipulate the plant forms in accordance with the dictates of the genius of the site.

Second, we've got to re-evaluate our fascination with new works. Most of the passion I see expended nowadays is in new garden developments. I am not suggesting here that there is anything inherently wrong with pursuing new garden projects, just that they should not be allowed to absorb all our passion

and focus. I suspect that this is often the case at present. We expend all our focus and passion on the 'good works'. Meanwhile the rest of the garden goes to rack and ruin.

Our gardeners should be encouraged to develop a strong sense of stewardship and aesthetic sensibility. There's that unfashionable word again. Not everybody denigrates its importance, of course. Our own Dr Leonard Cockayne, who achieved world status as one of the first botanical ecologists, had a unique vision for a national native garden. His passion and efforts were largely responsible for initiating garden developments within Otari in the late 1920s.

Cockayne had no doubts about what was important in a cultivated native garden: In his 1932 publication, a 'Scheme for the Development and Arrangement of the Otari Open Air Native Plant Museum' he makes these points:

'In the arrangement of the species and the general design of the Museum, the first consideration must be beauty'.

And

'Groups of species, horticultural examples must be as pleasing to the eye as possible'.

And again,

'No horticultural design should be tolerated which is not first class'.

Beauty, aesthetics, design - strong stuff, indeed, coming from an ecologist.

So, what would he make of our present state of gardening expertise? Would our penchant for plonking species randomly into beds or relegating plants to collection pieces and then giving them free reign (apart from the odd desultory trim, plus some prim labeling), meet his approval? I doubt it.

Which raises another question: where do we define what our public gardens should actually look like? OK, we do go so far as to define standards of acceptable tidiness, but that's not the same thing. It's almost as though we assume that our responsibility lies solely in providing well-grown, accurately identified specimen plants free of weeds, pests, plastic wrappers, coca cola cans and other detritus. Our motto is 'Keep them tidy, healthy and let them grow'. Initially we can't see the wood for trees and later, trees for wood. Sometimes, nature benevolently conspires to create something of merit, but mostly we are doomed to watch and weed as our borders slowly degenerate into aesthetic graveyards and structureless chaos.

Our public native gardens must learn to play to a wider audience. They have the potential to become major tourist attractions, provided we can get the messages right - provided our cultivated garden spaces better reflect the spirit of wild New Zealand, our culture and the horticultural potential of our

native plants. We should be aiming to develop a global audience, a focus for the cultivation of New Zealand plants within a distinctive New Zealand garden style. For, as I suggested earlier, it's not just tourist potential that's at stake here; it is our international horticultural prestige and credibility.

I can't give you a definitive recipe for success, but I can give some general directions and clues about what can work, what doesn't, and what to avoid.

Towards a New Zealand Garden Style

The spirit of Kiwi garden space

Brockie's rock garden at Otari creates a typical New Zealand rock-strewn environment on a flat site that leads (although presently not inevitably, and that's another shame) to the Otari climax view. Brockie's rocks, the plants and the topography, convey a real sense of wilderness: that special Kiwi mix of sun, wind and sky. Where else could you better direct an overseas visitor intent on experiencing the spirit of New Zealand and our plants in a garden setting? But at present the spirit is squandered by a large, inappropriate and anomalous rectangle of green turf adjacent to the rock garden. Why lawn here? There are much more appropriate ways we could treat this flat plateau and the timorous germs of suitable themes are already present.

Here, at the western edge of this lawn, Cockayne's grave nestles amongst a sadly constricted Wellington coastal plant collection. We miss a great opportunity here to enlarge the rock garden to an appropriate scale and connect it with the coastal planting and Otari's climax view across the cultivated borders to Wellington's conifer broadleaf rain forest behind. Here's a chance to integrate the garden climax themes and create an epic garden statement reflecting Wellington's cultural, botanical, ecological and horticultural history.

Suitable themes abound throughout the Wellington region. Imagine, for example, a local coastal theme incorporating greywacke gravel, with *Poa cita* spaced in loose drifts and inter-planted with the coastal *Raoulia albosericea*. Such a theme is infinitely more inspiring and appropriate than European turf grass. It would maintain the strong sense of space and sky and would not interfere with the strong backdrop view to the regenerating forest on the hills beyond.

But let's not restrict our examples to Otari alone. Further afield, there is the Cockayne Garden within the Christchurch Botanic Garden: And guess what, more lawn! It seems such a pathetically inappropriate gesture, to so imprison these plants into their tiny manicured islands, lost in a sea of green. Are we blind? And this in the land of the mighty braided river systems and greywacke mountains! It is almost as though the gardeners and designers of this garden have never ventured further than the city boundaries.

Who of us, having wandered the peaks of the Torlesse Range, or boulder-bashed the Rakaia and Waimakariri rivers, could seriously think *green*?

It would be a more fitting strategy to compose this Christchurch garden landscape in grey and bronze: greys with rocks and raoulia, bronzes with tussocks and spear grasses (aciphyllas). And to include braided riverbed themes, or reflections from the tussock grasslands that dominate large tracts of the eastern South Island. There's plenty of variety and scope. It is time we started to take the native garden landscape (and ourselves) seriously.

Don't tame our tussocks

Talking of grass, if there is one plant that encapsulates the spirit of our high country, it must surely be our snowgrasses. What a wonderful reflection of our landform and mountain environment these tussock plants make. Steep mountain slopes, sunlight, breeze and frothing tussocks; herein lies the spirit of our high country and perhaps the quintessential New Zealand high country experience.

But for some reason the domesticated garden tussock becomes a completely different animal. It is almost as though we completely turn our backs on the experiences that have made us grow plants in the first place. We imprison our tussocks, we demean them in spot plantings around other trees and shrubs, we use them to line the edges of borders, all lined up like toy tin soldiers.

And of course we make worthy collections. Have you ever seen a tussock community or a mountain herbfield resemble a collection of individual species? No fear, and to present these plants in such a fashion is to completely lose the plot. Where is the spirit of our landscapes here? Sadly, like Brer Rabbit, it's got lost in the thicket.

To date we have not come anywhere near using these wonderful plants to their full effect in our gardens. It is not as though we must always plant them in large drifts, although they are very effective when so treated. Coastal landscape patterns incorporating relatively few tussocks teach us that the most important element in a tussock design is the sense of space. This can just as effectively be created by judicious use of a few plants, particularly when used as a foil with sand, coastal or river stones, or larger rock backdrops. There is no need to take my word on this - please get out there and see!

Tangled intentions

New Zealand's native shrublands occur from sea level up to sub-alpine altitudes. They contain dozens of shrub species with horticultural merit. Perhaps the most attractive feature is the wonderful patterns, colours and forms such communities develop as a consequence of individual plants competing amongst

themselves for survival in a hostile environment.

But plonk these shrubs into gardens and we have completely different animals. We forget, at our peril, that in nature these plants are regularly pummelled. Strong winds, poor soils, drought and cold act as nature's pruners. Consequently our wonderfully attractive, artfully sculpted and tidily dimensioned shrubs (as seen in nature) may quickly become tangled, formless, malevolent tyrants in the garden border. Released from the bondage of their hostile environment into the civilised garden border, they reward us by rampaging. Unless we are forewarned and diligent with our maintenance, our wonderful shrubland plants may never stop growing and quickly degenerate into formless thickets.

Sadly, garden thickets all too commonly mock our condition, reflecting to the world our lack of vision, discipline and focus. Wherever I go I am confronted by native thickets, created by bumbling enthusiasts who have long since picked up their spades and departed, presumably full of evangelical fervour, to create more vacuous native entanglements elsewhere. Are these the rules of native plant horticulture? That we get to choose the plants, but that they determine the outcome?

I suspect that thickets are the inevitable outcome of growing labels, not plants. Too often, once we have labelled a plant, we no longer see it. But the tendency towards creating thickets in native gardens is insidious and, early on in the life of a border, it is easy to be lulled into a sense of complacency. We need to be aware of the dangers and have our aesthetic concepts and vision well defined. For it's not that thickets cannot be visually pleasant for a brief period, particularly during the first couple of years after planting. The problem is: what are the long term messages we are conveying here, about these plants, about this special place, this garden? Our gardens are full of these pleasant background borders, reluctantly thrust to centre-stage. We watch and wait for chaos to overwhelm them, our commitment reduced to weeding and hacking, thereby exposing our lack of long-term commitment and vision.

If any shrub is in dire need of garden definition, it is the divaricate. Until now we just haven't had the talent to garden them effectively. It is a good point though - just how should we grow divaricates in gardens? No one has apparently come to grips with it. Yet there is probably no plant form that better expresses the millions of years of isolation, adaptation and evolution our plants have experienced. More than any other, the divaricate encapsulates New Zealand's turbulent icy, cold, dry and windy history.

Most of our divaricates suffer because they are too subtle for us. At first glance these are scrawny, tangled, untidy, dowdy plant forms. I get the feeling that it's the very plasticity of the divaricate form that confuses

and confounds us. In nature, pummeling is often the key to their charm, and natural spacing does the rest. They don't get this wallop in our gardens. Worse still, they may be actively cosseted, with tangled, unhappy results.

Epilogue

I'm standing at Cockayne's graveside at Otari, enjoying the late afternoon sunlight that plays across the tops of the regenerating forest on the western hills opposite. It's a great spot. We look out here across the best view for 100 years; the native forest now vigorously regenerating in response to skilled conservation and possum control programmes.

It's not perfect, but it's a big improvement over the destruction Cockayne would have seen. In many ways the future of our native plant communities appears more assured than has been the case for several generations.

But can we say the same for the cultivated areas below me here and at my back? How do you see their future and fate? I suspect that unless we gardeners become more focused and critical in our work toward developing the native garden, these borders are likely to join the ranks of the dinosaurs. Unlike the dinosaurs, they will not expire with a fearful roar, but in silence. They will become extinct because they have been struck dumb; because they no longer communicate any message of cultural significance.

'Our gardens should surely possess a peculiar stamp of their own. Native plants are part of ourselves, they are our very own. That innate patriotism which compels us to feel that our country stands high above all other lands must also make us love its natural characteristics, so that in our gardens of all the (plants) which we cherish, none can ever rank quite as high as those which slowly took shape on New Zealand soils in the far distant past.'

Overdoing it with purple prose perhaps? Don't blame me, that was Leonard Cockayne, writing in 1923.

I think he would be content with the present state of our plant care. But it is surely time now to address what he termed our 'peculiar stamp'. It's time we connected our native garden plants and landscapes with wild New Zealand.

Now *that's* the spirit!

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