



(Metrosideros ex-

describe our NZ

when people pohutukawa

Graeme Platt

This pohutukawa, which has been named Hauraki, grows on Auckland's North Shore and shows superior flower size, density and colour.

Auckland native plant experts, flower size, colour, tree shape? tree stand out from the rest? Is it Firestone and Vibrance. their many selections, including looked for over the years in making reveal the features they have Graeme Platt and Terry Hatch, here What makes a good pohutukawa

> plant nurseryman, Graeme Platt. pohutukawa you start to get fussy," 'AFTER LOOKING at thousands upon thousands of says NZ native

the moment you see them when driving along the road. A selection I call Tamaki is one of these." "We have got to the stage where the good ones hit you

may come out in dribs and drabs but can still be good because each tree flowers

however,

flowering years. In a vintage year they flower together. (1989) were taken with them without even seeing the best.
"There are good and bad "The pohutukawa is such a good tree that even a bad one can be quite spectacular. The Americans who came here for ropagators International Conference Plant a too much growth and it was e the second year in 15 that parnell did not perform well. That is to be expected, how-t eyer." (See June 1990 Comm eros Parnell, a magnificent specimen growing in the Auckland Rose Gardens). Hort for details on Metrosid-

10,000 you hope to find. "I have been watching this tree (Tamaki) in Auckland for 10 years now. It is from the promised land' of pohutu-kawa. It is the one tree in

has been a bad year. The

The

"In poor years they come out over a long period and no





Pohutukawa leaf form varies widely, as evidenced below. On the left are the leaves of M. Parnell, centre are Tamaki and on the right, Lighthouse. Classic pohutukawa leaves have long clean lines, are strong and brightly coloured and sometimes glossy, says Graeme Platt

place it in the top five and have started to produce it

trees in the world."

Pohutukawa must

good trees

world standards worst are still, by

worthy of selection on own. The colour lifts' wl "It has many of the criteria we are looking for. It has an excellence of flowering which is quite unbelievable and cast and even in low evening but it has a vibrant orange he sun catches it. It is still red colour 'lifts' when

light the orange glow comes through the red.
"The flowers are big, not crowded, and they stand out for miles when you become attuned to seeing them.
"It is the number of flower

thickness, colour and length of the stamen plus the amount of pollen. That has a buds that makes an important flower; also important is bearing on flower appear-

"The physical conditions this tree is growing in are poor yet it continues to perform to expectations year after year. As a cutting-grown tree in a garden it would be a sight to behold.
"I checked Tamaki against a

ed plant in Greenlane (Auck land suburb checked Tamaki against a

so the Greenlane selection is really not worth persevering be based on an excellence facdeviance rather ions have ence. Future selections must "Tamaki is far more vibrant believe many selecbeen that excel-

"Tamaki has a nice habit, a degree of waviness in th

branches. The tree form is clean and the branch pattern is not twiggy or cluttered."

Growth and flowering

all sible. It must a genetic. They grown almost as if these trees were borne, are all like this. The factor is quite widespread and and another we found at Gis-"Good pohurukawas do not have a great deal of growth when flowering. Vibrance, Firestone, Te Kaha, Tamaki from seed off the same

ture of the good selections is that they also flower inside the foliage canopy of the tree. In a good year Tamaki and Vibrance put on a remarkable show inside the tree. This characteristic is not typical of pohutukawa at all. "Another interesting fea-

stand out more in cultivation than in the wild." "All these characteristics

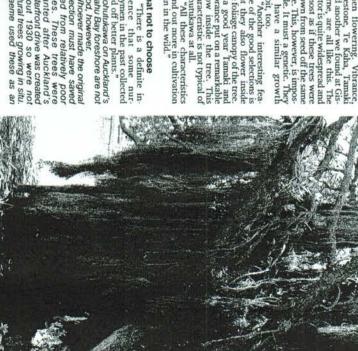
What not to choose "There is a definite

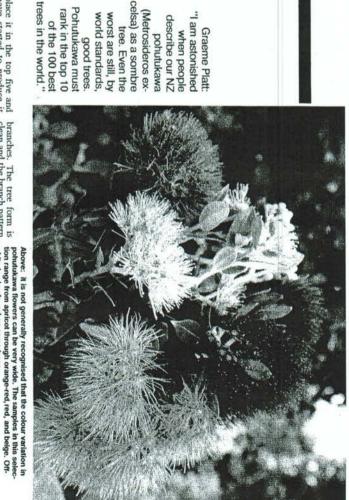
serymen in the past collected seed off better plants." fluence that some Okahu Bay foreshore are not Pohutukawa on Auckland's

good, however.
Whoever made the original selection must have saved seed from relatively poor trees. These trees were about 1930 so were not natural trees growing in situ. raeme used these as an planted after Auckland's waterfront drive was created

white is also found on some trees

Below: the production of aerial roots, or bearding, is a characristic of pohutukawa trees. This one, in the Auckland Domain probably among the most heavily bearded in the Auckland area ild bearding be a criteria for selection of sur





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 A hybrid, very early flowering, with a profusion of strongly
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growth in its early years. FLORIBUNDA PINK FROM MAUVE FLORRIBUNDA SNOW SHOWERS
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spring. Flowers open progressively down the raceme This new mauve/blue and white flowered Japanese form has medium length racemes which appear with the young foliage in late FLORIBUNDA PURPLE PATCHES

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COMMERCIAL HORTICULTURE, APRIL 1991

pertect pohutukawa In search of the

Continued from previous page

example of forms that should not continued in cultivation.

Okahu Bay would probably have been better seed trees. on the side of the road. Even from the foreshore I can tell they have far better characteristics than those planted "Trees growing naturally on he headland cliffs above

are dull. Some trees have a twiggy habit. The leaves are poor and small, not full and rich. Often the bark is bad, "Not all the trees are poor but flowers of poor selections are small by comparison, sometimes dark red and often too, and the trees are very variable in shape and form. Some would score 0 out of 10 in an evaluation against

Tamaki.
"I can tell just by looking at one or two of these trees that they have nothing going for them. Yet they are still nice for

Remarkable flowers

variation

Good, robust structure

good trees they do not stand out in the landscape. The trees may have a good shape plus many other charac-teristics but the flowers have no lift to them and they tukawa must have a good, robust structure. It must be strong a with few small branches. Poor trees have

some are muddy. While the dark flowered ones may be while others are too dark and quite remarkable in pohutu-

"Many have pinky flowers "The array of colours is

land Domain with the heavy bearding shown on page 49.

"Flower size is important.

Many are small.

consistent with good types. They should be open and clean as opposed to cluttered and messy. You have to compare the good with the poor to see the difference "The heavy bud factor is

long clean lines Leaves with

"The leaves of many are grotty and small. Even if the plant has good flowers you would not even consider it.

leaf has long, clean lines, is strong, brightly coloured, sometimes glossy. It can be dark but not a sombre colour.

"I do not like wavy, "The classic pohutukawa f has long, clean lines, is

recurved or droopy leaves.

"It is interesting to note that t selections which have good flowers all have similar leaf t shapes and habits. There is a relationship between the size large-leaf types generally of the leaves and flowers:

have large flowers.

"Parnell's leaves are magic
by comparison with those at
Okahu Bay."

small, twiggy branches espe-cially at the top of the plant. "Some trees have a very "The trunk of the pohu

Below: This is the tree in Auck



can be altered upright, straight habit and they have no beauty either. The form of pohutukawa

stems near the base ard removes this tendency and the shape will be quite different to one which makes them spread out is the ever increasing diameter of the number of branches. "One of the things that develops a multiplicity of different to one Growing them on one stand by growing

"Nurserymen should stop producing seedlings. They grow bushy and twiggy at the step in producing quality base. Growing them on high standards is the next logical

shape. We recently put a premum (price) on selected trees (at the nursery) and found it is easier to sell a \$30 selection than a \$9 seedling. But there must be no palming-off of junk as selected when every pohutukawa of-fered for sale is cutting-grown from selected material and properly trained to shape. We recently put a "I look forward to the day

"The diversity among pohutukawas is incredibly wide and there is a place for deviation. I know one plant that is 20 metres across and 75cm high, growing in a sheltered position. That is a worth-

All the others pale in com-parison. You should never fl bother with a tree with an excellent flower if the shape is poor." pick the ones with good, while type to work with.
"Looking across a line of

yptus) with long strands.
"Some trees have corky, chunky bark which is far too "The bark must be long, fibrous and strong grained, almost like some of the Australian Ironbarks (Eucal-

Bearding

are preferable to dense bearded types. Some bearding (aerial roots).
Those with clusters of roots "I am not adverse to seeing

formed to expectations again The early flowering selection, Lighthouse, has per-

"This selection (from Ran gitoto Island in the Auckland

Whakarewarewa

Lighthouse, an early-flowering selection from Rangitoto isi

"We call a selection from Rotorua, Whakarewarewa, because of the close associatourist area. tion it has with the famous

mentum to the reverse of the leaf which also makes it impohutukawa I have ever seen and well outside the normal colour spectrum. It has an in-"It has one of the darkest red

portant.
"While it may not be a significant tree horticulturally it should be included in a a hybridisation programme should be included in a Metrosideros excelsa collec-tion to represent the darkest flowering pohutukawa. It will colour range and for this reason it also may be useful in that end of the pohutukawa

Inland forms

"We have also made some selections from inland trees growing around Rotorua lakes, Waimungu and other thermal areas.

coast. They generally grow on north-facing cliffs and possib-ly have frost tolerance. "The Waimungu material "Pohutukawa are growing quite widely in these areas and possibly originate from seed blown in from the east

includes some very erect, fas-tigiate trees that could possib-ly be developed for timber." Pohutukawa wood

bearded specimen in the Auckland area. It is overdonand the beard is too thi Domain must be the most

"A tree in the Auckland

While bearding is a charac-teristic we should not ignore, I would not make a selection

trees at the nursery and found it is easier to sell

\$30 selection than a \$9 seedling

'We recently put a premium price on selected

tree with a good structure before it would be worth in-cluding the beard charac-teristic." on that factor alone. "It must be a good flowering

Lighthouse

Harbour) started to flower again on November 5th and finished by the end of the month. This confirms its early

the best flowers they are bet-ter than average. Its leaves are beautiful and big, the shape is very good so it has three things going for it." flowering characteristic.

"Although it does not have

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protectors. triangular shrub

perfect pohutukawa In search of the

Continued from previous page

value for boat building (The Cultivation of NZ Trees and Shrubs) writes 'the tor-tuous branches are of great early days. It is strong and durable, deep red, heavy and compact. used for boat building in the Lawrie Metcal

Kermadec pohutukawa

islands. I do not believe much material was brought back so Metrosideros probably does "I would dearly love to go to the Kermadec Islands and re-evaluate the species there ections were made from the do not know how many col

not have a very good genetic base here on the mainland."

"The next step in the evaluation process is to grow pohutukawa under trial conditions and make further

"The process is going to take longer than we first thought. It takes a year to get the first cuttings growing and a further 3-4 years to see how these perform in the field."

"Fortunately, selections

not have to wait years to flower the first year so you do

an injustice to our pohutumust set goals in pursuit of excellence. To not set them is select flower performance. Time has come when we

"The ultimate goal is to select a number of excellent trees. The more selections we will be so we must select the best all the time. make the greater the numbers

mutually-agreed, guaran-teed, self-funding levy so that money could be raised for onthem but I would dearly love to see others growing our selections "I have no objection to produced under a

dollars in time, effort and travel evaluating pohutu-kawas and have gained noth-ing out of it personally. This get the greatest satisfaction "I have spent thousands of

searching for excellence.

Gisborne selections "I got a real 'kick' from

got out of sharing our selec-tion efforts is indescribable. "He has one cally recently (Bayly Nurseries). The enthusiasm and joy we seeing Rob Bayly's pohutu-kawa material at Gisborne

(Gisborne) area that have sprays of flowers almost a foot long and have great flowering. It has consistently performed over many years.
"There are others in the

colour too. "It was a little too early to

type improvements, which is both trees growing on his property (10m high) stand up to strong scrutiny. mother free which grows in his property. I think if you searched long and hard enough you may find true-to-type improvements. Certaintell if the seedlings Rob has grown from Christmas Cheer are any better than the

any future evaluation. It is about 5-6 years old and, again, it is one of those trees that is a car stopper. "I also saw a good-coloured, long-flowered seedling. We named it Pouawa and it cerany future evaluation. It is

hold promise Outer Islands

area we spotted a tree down a side street that made us "When Terry and I were recently scouring the Kawhia

Howering time of the great pohutukawa treasures. We have found that ner, have yet to turn up some of the great pohutukawa stand on all anchors and stop. "I suspect some of the outer islands, Mayor and Great Barhave not had the time heck island pohutukawas with many other plants but

made do not fit into the stand "Many selections already

stock increases UK nursery

stock for last year has been reported by UK MAFF census figures, lifting total production to more than 155 million A 7.6% increase in nursery

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"Time has come when we must set goals in pursuit of excellence. To not set them is an injustice to our pohutukawa . .

range we all-round large area of good judgement or I haven't. After looking at many subjective and either I have ard criteria we have found acceptable. This is not a personal criticism. We have to be thousands of trees over a very find the 'super-good performers are few their natura at many

such things as frost resistance into the strains with the central North Island selecand far between.

"Looking ahead we are going to be able to introduce tions, size of flower and habit

of growth. and it could be used for narlooks like a Lombardy poplar There is a form with the st fastigiate growth. It rastigiate growth.

will be totally unsuitable as a "Clearly, a tree like Parnell street tree foreshore, park, but superb as a or

"I believe this is one of the

more seedings and the coastline of NZ revegetated most worthwhile projects in NZ. I would like to see good selections planted rather than

Its commanding presence "The pohutukawa is one of the world's most spectacular owering trees

excellence we have a duty to define, select and grow the very best. The reward for our efforts will be richly repaid each Christmas with a display of crimson flowers une-

one of the greatest invest-ments we could make for our future."

with quality material.

contributes a unique element to the natural landscape of northern NZ beaches, cliffs and foreshore.

"A few million selected trees northern coastline would be planted correctly around our

Above: flower head from one of Rob Bayly's Gisborne selections Note the exceptional length — up to 25cm long

Anyway — why worry about the pohutukawa?

— A Message from the Publishers —

many parts of northern NZ putting the trees under real threat of extinction of recognition that possum and disease damage is pohutukawa over the past year or so, mainly because MEDIA ATTENTION has been focused on the NZ

Concerned people have set up the rescue mission, Project Crimson, and gained quite a bit of industry and govern-Platt/Hatch criteria represent a sound starting point. Others We believe, however, the broadening his selection

ment support. Rescue strategies will inshould now be encouraged to

propriate, before we go too far, that efforts are now made to ensure only the "best" trees clude propagating and plant-ing pohutukawa in far greater numbers than ever before. It therefore seems apadd their own selection criteria — cold hardness is one example. Selections made by many people in many parts of NZ could then clude propagation studies, flowering manipulation and at some stage be brought together for evaluation. The further step could in-

and Terry Hatch are two of several people who have for years been searching for and run partly to encourage such a discussion. Graeme Platt are used and, indeed, to get some agreement on what at-tributes to look for when The article beginning on page 48 of this magazine has been materia selecting STUI superior

this has already started.

growth

rate trials. Indeed

claiming their criteria are the right or only ones; Graeme admits that even he has we — and they years been searching for and selecting what they think are are not We believe what we are seeing are the first steps in a scheme that may well extend over the next 50-100 years. that public authorities will plant only superior clones and nurseries will sell only the best to the private planter. Now is the time to agree

drop a line to the Editor. or ideas on this matter, please If you have any thoughts

himself

recently

found