Education Outdoors in New Zealand Schools:Research Report to the NZ Ministry of Education

Dr Mike Boyes & Dr Robyn Zink
University of Otago & Monash University
May 2005

Con	tents	Page
Α	Current Practice – Primary Schools	1
	Curriculum areas supported by outdoor teaching	1
	% of each curriculum time spent in the outdoors	1
	Examples of outdoor education experiences	2
	% of the programme that runs outside school hours	3
	% of OE programme that is residential	3
	General focus of the programme	4
	Where does your programme mainly take place?	4
В	Current Practice – Secondary Schools	5
	Examples of Activities	5
	Duration of Outdoor Experiences	5
	Where does the programme mainly take place	6
	Programmes running outside of the curriculum	6
	% of the programme that runs outside school hours	7
	% of the programme that is residential	8
	Programme focus	9
	NCEA Learning areas using the outdoors as a learning medium	9
	Examples of NCEA activities by subject area	10
	NZQA unit standards offered	10
	Belief statements about NCEA	11
С	Beliefs and Values	12
D	Learning Outcomes	13
E	Barriers	14
F	Staffing	15
	Makeup of the staffing team	15
	Qualifications – degrees & diplomas	16
	Professional outdoor qualifications	16
	Years of experience	17
	Days a year spent taking groups into the outdoors	17

J

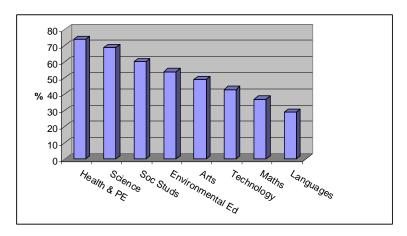
	Self rated experience levels	18
	Main areas of expertise	18
	Pre-service teacher training courses relevant to OE	19
	OE professional development courses attended	19
	Desired professional development opportunities	19
G	Resources	21
	Activity based material	21
	Video / CD ROM resources	22
	Programme outlines & guides	22
	Theory and research	22
	Human resources	23
	Other	23
н	Description of the Sample	24
	Age	24
	Gender	24
	Years of teaching	25
	Teaching levels	25
	No of pupils in the school	25
	Co-ed/single sex	26
	School decile level	26
	Religious base	27
	School location – rural / urban	27
	School location – province	27
	School type – secondary / primary / area	28
	State / integrated / private	28
	Participants with administrative responsibilities	29
1	Definitions	29

A Current Practice – Primary Schools

1 Identify the curriculum areas where the outdoors is used to support your teaching

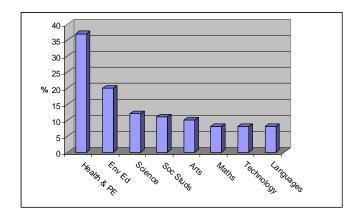
% of respondents (n = 140)

Health & PE	74
Science	69
Soc Studs	60
Environmental Ed	54
Arts	49
Technology	43
Maths	37
Languages	29



2 What % of each curriculum time is spent in the outdoors?

Health & PE	37
Environmental Ed	20
Science	12
Soc Studs	11
Arts	10
Technology	8
Maths	8
Languages	8



3 Examples of outdoor education experiences across the curriculum

abseiling (2) activity week Antarctica centre aguarium art gallery arts (7) athletics (2) Auckland basketball beach (5) bike riding bike safety bird reserve boat design botanical gardens bush visits/study (7) bush walking business visits camp (52) camping (3) campout Carter observatory

carter observatory
caving
cemetery
city visits
class visit
climbing walls
community cleanup
community visits (2)
concerts
cooking
cross country (3)

cross country (3) day camp day trip/visits (6) drama

Eltham

env. studs (5) estuary (2) experiential trips explorer award farm trips (3) field trips (2) gardening (3) Gardens Glacier golf (2) Govt house group skills Gymnasium **Gymnastics** health (3) high zone Hikoi history (3) hobo stoves horse riding Karori sanctuary

kauri logging kayaking (6) Language library (3) life saving local env. local trips (2) Maori culture Marae (3)

maths (2)
Mines
mini-beasts
Mountaineering
Mountains

museum (5)

music musical national park night walks old folks home orchard orienteering (3) outdoor ed

outdoor projects outdoor skills overnights (6)

overseas trip parks (2) patika PE (2) picnics (2) planetarium

pool post office rafting

recreation ed. recycling river conservation

road safety rock climbing (2) rocky shore (8) ropes course (2) Rotorua

running safe crossings sailing (2)

school community school env. science (4) science alive ship visits skating (2) skiing (3) sleepovers (2) snorkeling snow

soc studs (2) social service sport (8)

sports days/trips (13)

stream surfing

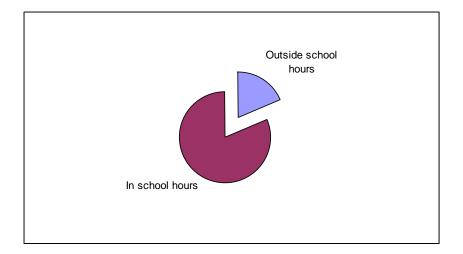
swimming (16) Tangihanga Te Papa (4) Te Wera technology tent pitching (2) tramping (5) tree planting trips away university urban camp walkathon walking (4) water testing water wise (2) waterways Wellington (2) wet lands wind surfing (2)

Z00

Number in brackets = times mentioned

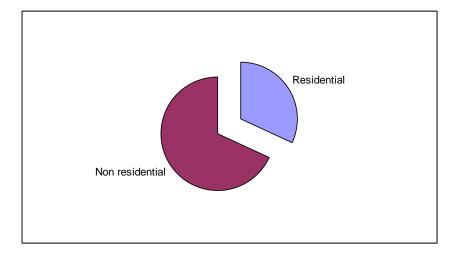
4 % of the programme that runs outside school hours

Outside school hours – mean 19.34%; sd 20.96, n = 104



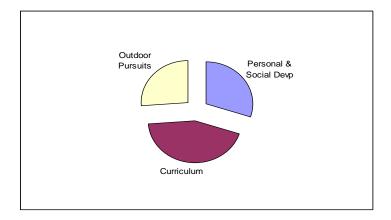
5 % of OE programme that is residential

Residential component: n = 107, mean 32.24, sd 30.44,



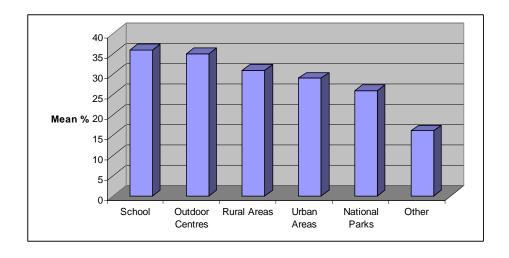
6 General Focus of the Programme

Curriculum: n = 129, mean 56.55, sd 29.66; Personal & social: n = 130, mean 38.66, sd 27.46; Outdoor pursuits: n = 129, mean 33.52, sd 22.57.



7 Where does your programme mainly take place?

School: n = 110, mean 35.93, sd 26.61; Outdoor Centres: n = 72, mean 35.22, sd 28.74; Rural areas: n = 99, mean 30.72, sd 24.51; Urban areas: n = 87, mean 28.97, sd 22.77; National Parks: n = 72, Mean 26.17, sd 20.00; Other: n = 13, mean 16.23, sd 12.40.



Other locations for the programme

beach (4)	institutions	mountain	visits
botanical gardens	leisure centre	planetarium	youth centre
cemetery	library	post office	Z00
coastal (2)	local community	theatres	
industry	marae	urban camp	

B Current Practice – Secondary Schools

1 Examples of Activities

ABL (2) Abseiling (3) aquatics archery army museum Auckland beach (2) beach cleanup bike safety Biology field trips (5) Borland lodge bouldering bush walks bushcraft (4) camp (32) camping (4) careers caving (2) climbing (8) commerce studs cooking cross country deer farm Duke of Ed (2) ecological studies economics trips (3)

English field trips field trips (5) first aid (2) Geog field trips (8) high ropes history trips (4) horse riding institutional visits kayaking (14) lakes (2) language camp leadership (3) leadership trips Maori trips (3) marine labs Maths field trip meals out mountain biking (9) mountaineering multisport museums (2) navigation netball OPC (8) orienteering (3) outdoor ed (2)

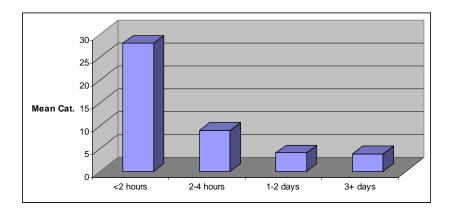
outdoor pursuits (5) overseas trips PE (3) peer support personal development rafting (5) Rangitoto retreats river crossing river safety river studs river trips rock climbing (4) ropes course (4) rural skills sailing SAR science (4) sea kayaking self defense shooting ski trips skiing (13) sleepovers snorkeling

snow boarding

snowcraft social studs (4) special needs spirit of adv sports activity sports exchange sports management sports science sports trips (2) swimming Te reo field trip team building **Tongariro** tramping (12) volcanic processes water safety work experience Young NZ challenge Z00

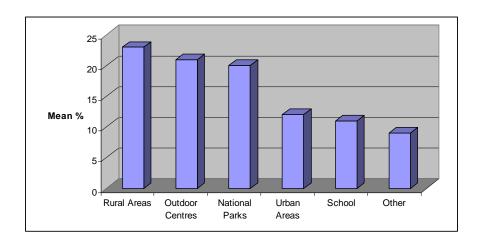
2 Duration of Outdoor Experiences

< 2hours: n = 13, mean 28.15, sd 75.92,; 2-4 hours: n = 16, mean 9.37, sd 10.71; 1-2 days: n = 20, mean 4.05, sd 3.14; 3 +days: n = 38, mean 3.89, sd 5.59



Where does the programme mainly take place? (Y/N)

N = 35; Rural 23, Centres 21, National Parks 20, Urban 12, School 11, Other 9.



Other Locations of the Programme

beach Reserves commercial businesses ski areas

farms West Coast State Forests

lakes Workplace

New Caledonia youth camp sites

OPC

leadership camps

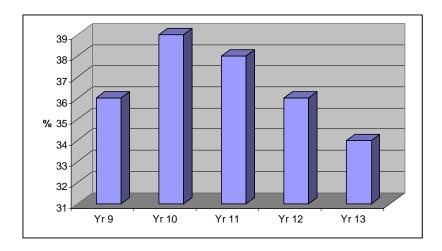
4 Programmes running outside of the curriculum

basketball marine studies Spirit of Adventure camps Maths Sports teams canoe polo **OPC** sports teams (international) climbing club (2) Outdoor ed club swimming dive academy outdoor pursuits tramping clubs (6) Duke of Edinburgh outdoors club unit standards enrichment programme **Outward Bound** Young NZ'ers challenge experiential camps Running kayak club (3) skiing trips (4)

Snowboarding

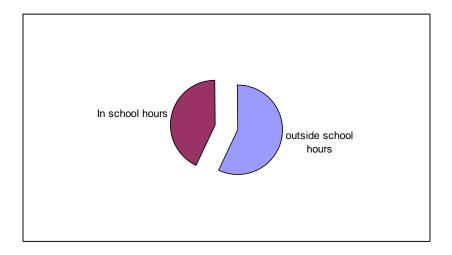
5 % of the programme that runs outside school hours

Yr 9: mean 36.47, sd 35.35, n = 17; Yr10: mean 39.00, sd 33.83, n = 19; Yr11: mean 38.50, sd 37.36, n = 14, Yr12: mean 35.79, sd 31.67, n = 19; Yr13: mean 33.63, sd 30.96, n = 16.



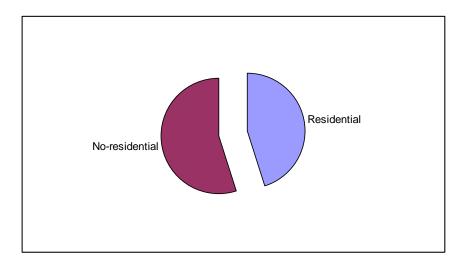
% of OE programme running outside school hours across the year levels

Out of school – 57%, in school 43%



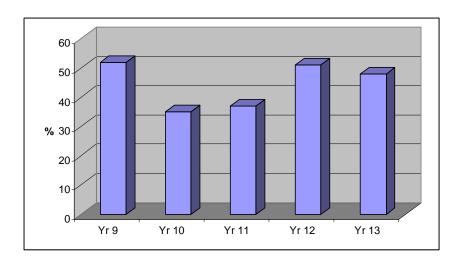
6 % of programme that is residential

Residential – 45%, non residential – 55%

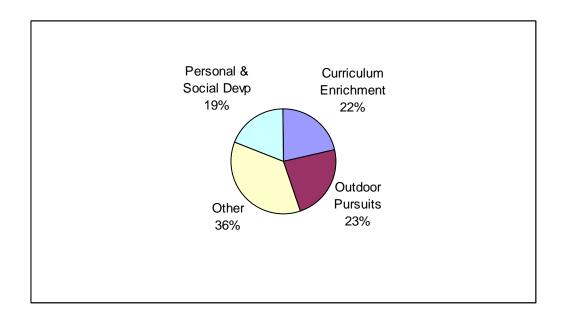


Breakdown by year groups

Yr 9: mean 52.5, sd 44.89, n = 12; Yr10: mean 35.50, sd 42.78, n = 10; Yr11: mean 37.14, sd 44.99, n = 7, Yr12: mean 51.43, sd 40.31, n = 14; Yr13: mean 48.5, sd 34.00, n = 10.



7 Programme Focus

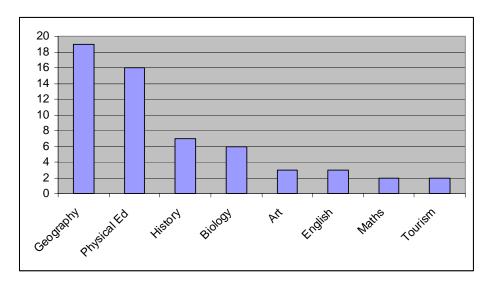


8 National Certificate of Educational Achievement (NCEA) Learning Areas using the Outdoors as a Learning Medium

Art (3)	Geography (19)	Physics
Biology (6)	History (7)	Science
Construction	Maori	Soc Studs
Drama	Maths (2)	Technology
Economics	Outdoor Education	Tourism (2)
Frantials (2)	Dhysical Ed (4C)	

English (3) Physical Ed (16)

Frequencies



9 Examples of typical NCEA outdoor activities by subject area

Geography	PE	History
River study (2)	Mountain biking (2)	Small towns
Field trips (3)	Kayaking	Field Trips
National Park study	Aquatics	Research projects
Research project – data	Sea kayaking	
collection	High ropes course	
Research project	2 day tramp	
Beach stats	Snorkeling	
Glacier studies	Ball skills & team skills	
	Tramping	
	Orienteering	
	Indoor climbing	
	Mountaineering	
	Abseiling	
	Pursuits	
Biology	Art	Tourism
Seashore	Mountain study	Small town study
Mountain environment studies	Field trips	
Tramping		
Bush studies		
Traverse surveys		
Maori	Economics	Science
Marae visit	Field trip	Field trips

10 Outdoor NZQA Units Offered

Unit No.	Area	Title
Qual 2.2	Skiing & snowboarding	?
2.8 (2)	Risk management L2	?
220	Adventure based learning	?
267	Plastics production L2	Simple tooling for thermoforming
425 (2)	Tramping L2 C3	Experience day tramps below the snowline
426 (2)	Tramping L2 C3	Experience camping
427	Tramping L3 C2	Cross rivers
430	Tramping L3 C4	Survive in an outdoor environment
431 (3)	Outdoor navigation L2 C4	Navigate in good visibility on land
440	Mountaincraft L2	Demonstrate mountaineering skills
443	Mountaincraft L2 C2	Demonstrate skill on ropes, knots, anchors & belays for mountaineering
444 (3)	Rock climbing L2 C1	Demonstrate basic rock climbing movement
445	Rock climbing L2 C3	Demonstrate top roped climbing & abseiling on single pitches
457	Mountain biking L2 C3	Mountain bike on intermediate to expert terrain
458	Cycle touring L2 C3	Demonstrate mountain biking skills
467 (2)	Adventure based learning L2 C3	Demonstrate personal and social development through participation in adventure based learning Demonstrate personal and social development through participation in low
470	Adventure based learning L2 C3	ropes course activities

473	Adventure based learning (2) L2 C3	Demonstrate personal and social development through participation in high ropes course activities
476 (4)	Canoeing – kayaking L2 C3	Roll a kayak
477	Canoeing – kayaking L2 C3	Demonstrate kayaking skills on sheltered / slow moving water
478	Canoeing – kayaking L3 C10	Demonstrate kayaking skills on grade 2 water
485	Rafting L2 C2	Demonstrate rafting skills on sheltered or slow-moving water
492 1307	Canoeing – kayaking L3 C3 Interpersonal communications L3 C3	Demonstrate river rescue skills for kayaking & canoeing on grade 2 water Present ideas and information orally to a specified audience in a predictable situation
6400	Core health L2 C3	Manage first aid in emergency situations
6401	Core health L2 C1	Provide first aid Produce preliminary assessments of small business enterprise
6403	Small business management L3	opportunities
13352	Physical education L2	Participate in outdoor pursuit activity Demonstrate knowledge of and apply sustainable environmental
18663	Environmental education L2	management practices in the workplace
20152	Rock climbing L1	Experience and complete abseiling sessions
?	Employment skills	?
?	Equine Skills	?
?	L2 skiing	?

10 Belief Statements about NCEA

To what degree are the following statements true about NCEA?

4 = very true

3 = true

2 = sometimes true

1 = not true

	n	Mean	sd
Our OE programme has increased recognition in the school with NCEA	28	2.14	1.24
We are able to offer a broader range of OE opportunities with NCEA	28	1.82	1.19
Our OE NCEA programme has become more pursuits focussed	26	1.79	1.11
CEA has increased the outdoor education programme	30	1.73	1.11
We have better access to resources since the introduction of NCEA	28	1.46	.96

C Beliefs & Values

To what extent do you agree with the following statements:

1 = strongly disagree 2 = Disagree 3 = Neither 4 = Agree

5 + Strongly agree

	N	Mean	SD
OE can enrich all curriculum areas	179	4.64	.48
OE is a fun teaching & learning medium	178	4.53	.56
Outdoor teaching often requires specialised knowledge & skills	174	4.23	.73
Outdoor activities should be taught by progressions	177	4.20	.71
The outdoors is ideal for promoting aesthetic appreciation	173	4.15	.64
There is a place for one-off adventure experiences	176	4.09	.80
Red tape is making teaching in the outdoors more difficult	178	4.04	1.04
OE is the best medium for teaching environmental education	175	4.02	.81
I feel sufficiently qualified and experienced to teach outdoor education	175	3.94	.82
We have become preoccupied with safety	177	3.90	.98
OE is an ideal medium for students to become socially critical	172	3.88	.81
OE is best thought of as a teaching methodology	161	3.68	.83
Assessing student outcomes is a neglected area in OE	176	3.43	.94
OE is based substantially in the Health & PE curriculum	172	3.29	1.08
OE is mainly focused on outdoor pursuits	172	3.19	1.09

Secondary teachers rated these items higher than the primary teachers:

Specialized knowledge (1(172), F = 5.528, p < .02;

One off adventures: (1(174), F = 8.95, p < .003;Qualified and experienced: 1(173), F = 10.706, p < .001

Primary rated OE in the HPE Curric: 1(179), F = 4.242, p < .041.

No gender differences

D Learning Outcomes

Please indicate to what degree you feel OE can achieve the following learning outcomes for students:

- 1 = not important
- 2 = of some importance
- 3 = important
- 4 = very important

	N	Mean	SD
Group co-operation	173	3.82	.44
Improved self esteem	174	3.72	.50
Consideration for others	175	3.71	.50
Safety knowledge	174	3.71	.52
Increased self responsibility	174	3.66	.52
Social & communication skills	174	3.66	.51
Problem solving	175	3.56	3.07
Leadership	175	3.52	.56
Environmental knowledge & appreciation	172	3.51	.59
Survival skills	175	3.38	.69
Recreation / leisure skills	173	3.31	.74
Critical thinking	174	3.29	.70
Environmental action	171	3.16	.72
Physical fitness	175	3.15	.73
Cultural/ethnic understandings	173	2.97	.72
Tikanga maori	173	2.55	.81
Data gathering & analysis	171	2.54	.86
Spirituality	173	2.51	.90

No gender differences

Primary / Secondary differences

Primary rated physical fitness higher: 1(173), F = 7.346, p < .007Secondary rated problem solving higher: (1(173), F = 4.045, p < .046)

E Barriers to Teaching OE Programmes

Indicate the degree to which the following barriers are relevant to your teaching in the outdoors:

1 = not at all;

2 = sometimes;

3 = often;

4 = regularly

	N	Mean	SD
Costs of programme	178	2.89	.89
Crowded curriculum	176	2.81	.90
Demands on staff personal time	176	2.72	.87
Emphasis on safety	177	2.48	.93
Paper work	176	2.45	.86
Finding appropriate staff	178	2.43	.84
Risks involved in practice	177	2.37	.81
Class size	174	2.23	.80
Expense of updating qualifications	172	2.15	.93
Lack of resources	175	2.01	.75
Staff – student ratios	175	2.01	.75
School perceptions of OE	175	1.71	.86
Inflexible school timetables	173	1.71	.87
Lack of suitable venues	175	1.55	.63
Students absences	167	1.52	.76
Staff absences	174	1.49	.76
School rules	173	1.43	.76
Lack of student interest	175	1.34	.60

Primary / Secondary Differences

Secondary rated these barriers higher:

Timetables: 1(171), F = 21.925, p < .001Student interest: 1(173), F = 4.897, p < .028

Rules: (1(171), F = 6.134, p < .014 Staff absences: (1(172), F = 31,975, p <

Staff absences: (1(172), F = 31.975, p < .001)

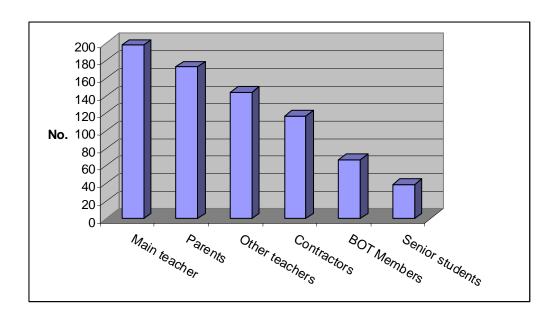
Ratios: 1(173), F = 10.385, p < .002

Students absences: 1(165), F = 30.944, p < .001

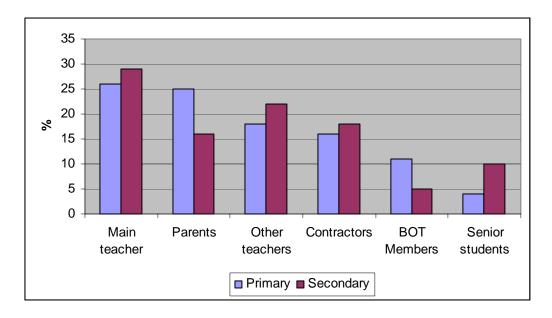
Gender differences - Males saw student absences as more of a problem than females: 1(62), F = 5.616, p < .019.

F Staffing

1 For a typical outdoor learning experience, specify the makeup of the staffing team...



Comparison of Primary & Secondary Teams



2 Degrees / Diplomas

(a) Primary Teachers

Adv. Dip Tchg (9)	B.Tchg (9)	Dip Outdoor Rec	MBA
B Ag. Sci.	BA (8)	Dip Sports	PGDip Tchg
B Soc Sci (2)	BMS	Dip Tchg (47)	Trade Cert
B Theology	BSc (3)	Higher Dip Tchg (3)	Trained Teachers Cert (10)
B.Ed (34)	Dip Ed (7)	M.Ed	
B.Eng	Dip Fine Arts	MA	

(b) Secondary Teachers

B PhEd (3)	BLS (2)	Dip Parks & Rec	M.Ed
B Tchg	BSc (3)	Dip PE (8)	MPhEd
· ·	Cert Sport &	. ,	
B.Ag	Rec	Dip Rec & Sport (2)	MSc (2)
B.Ed (7)	Dip Ed Admin	Dip Sch Man	NZAHPER Dip
BA (6)	Dip Ed Man	Dip Sport & Leisure	PGDip (Sports Man)
Bed (PE) (2)	Dip OE	Dip Tchg (16)	TTC (8)

3 Professional Outdoor Qualifications

(a) Primary Teachers

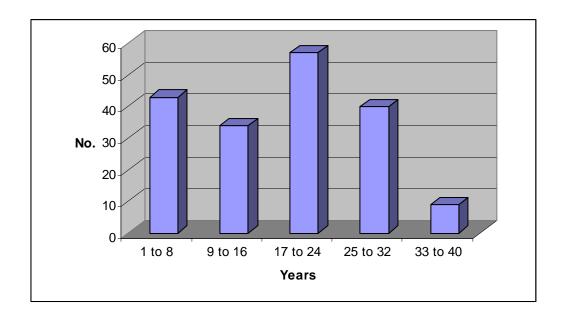
ASTU EOTC (2)	MSC Abseil	NZOIA Alpine 1	Queen scout
ASTU OE (2)	MSC Bush (2)	NZOIA Kayak 1	Radio operator (1)
Civil Defense	MSC Firearms	NZOIA Rock 1	RLS CPR
Counseling	MSC Leadership	OPC Course	RLS water safety
Exp Ed paper	NZ Police first aid	Outdoor first aid	Royal Life Saving
First Aid Cert (23)	NZ Yachting Instructor	PADI Scuba diver	SAR (2)
Lifesaving Instructor	NZAHPER Diploma	Police SAR	

(b) Secondary Teachers

ASTU OE CADS Cert (disability)	Mountain training (UK) MSC Abseil (2)	NZOIA Bush 1 (3) NZOIA Kayak 1	Outdoor First Aid PANZ course
CPR Instructor	MSC Alpine 2	NZOIA Kayak 2	Rescue Instructor Cert Risk management
Dip Outdoor Ed	MSC Bush (4)	NZOIA Rock 1 (2)	(2)
EONZ Outdoor 1	MSC Outdoor leader	NZQA life guard	Sailing Instructor Single pitch
First Aid cert (11)	NZ Canoe Assoc (2)	NZQA surf life	climbing (UK)
Indoor climbing	NZ Community coach	OE Course	Ski Instructor 1
Life saving cert Mountain Leadership	NZ Pony club Instr	OE Specialisation	Skiing Instructor
Cert	NZOIA Alpine 1	Outdoor 1 (2)	Surf Lifeguard

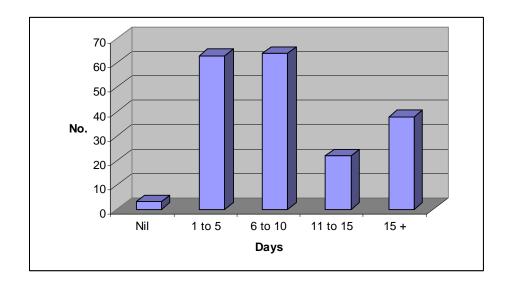
4 How many years have you been taking groups into the outdoors?

Mean 17.52, sd 9.56, n = 184 No Primary / Secondary differences: F (1,163) = 1.023, p > .313. Gender – males more than females: F (1,172) = 9.73, p < .002



5 How many days a year do you spend with groups in the outdoors?

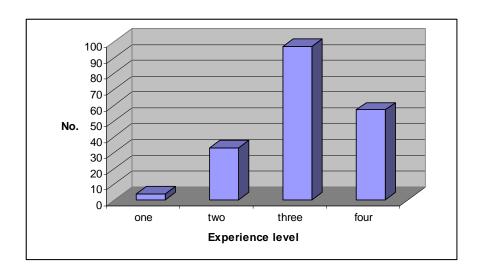
Defined: 4 hr + session or 4 x 1 hrs aggregated Mean 3.15 (category 6-10 days), sd 9.56, n = 184 Secondary spend more days than primary: 1(165), F 17.974, p < .001 No gender differences - F (1,175) = 3.328, p > .070.



6 Self rated experience levels

Based on a Likert scale: 1 - inexperienced to 4 = experienced Mean 3.08, sd .74, n = 191

Secondary rated themselves as more experienced: F(1,168), = 12.904, p < .001. Gender – males rated themselves higher F(1,179) = 11.023, p < .001.



7 Main Areas of Expertise

ABL (2)	EOTC Progs (3)	Mountains (3)	Running (2)
Abseil	Field trips	Multi sport	Running camps (2)
Alpine tramping	Firearms	Navigation (3)	Sailing (3)
Aquatics (2)	First aid (10)	Noho marae	Science (8)
. ,	` '		` '
Archery	Fishing (2)	NZCA Officer	Scouts
Art	Geography (3)	OPC	Sea
Behaviour Man.	Guide camps	Org. camps (6)	Skiing (7)
Biology	History of NZ	Orienteering (3)	Snowboarding
Boating (3)	Horse treks (2)	Outdoor cooking	Sports (5)
Bush (2)	Hunting (8)	Outdoors	Surfing
Bushcraft (9)	Kaitiaki-o-te-ngahere	Outward Bound (2)	Survival skills
Camps (125)	Kayaking (25)	Overseas trips	Swimming (5)
Climbing (6)	Kiwisport	PE (4)	Tramping (57)
Cub leader	Leadership (2)	Rafts (2)	Trips (2)
Disability camps	Life saving	Residential Tchg	Winter sports
Diving (4)	Marae	RMT (3)	Winter sports (3)
Earth sci (3)	Mountain biking (9)	Ropework	Woodcutting
Environment (3)	Mountaineering (3)		

8 What courses of your pre-service teacher training are relevant?

Abseiling **EONZ** seminars Mountaineering Resuscitation AST Teaching outdoors (2) MSC courses (2) Rock climbing EOTC course **EOTC Ministry** Bushcraft (6) **MSC Planning** Running camps course Camp leadership First Aid (69) OE at T.Coll (4) Risk/Safety Man. (54) Camp Org **OE Course** Survival skills **Fitness** Camps Geography Orienteering (12) Swimming (3) CE Outdoor courses Kayaking (4) Outdoor curric devp Swimsafe Challenge activities Kiwisport Outdoor practise Water safety Civil defence Maori PE Course (10) Water survival Climbing Maths & Physics PE major Creative writing Medical stuff Planning (4) Environ, Maths Mountaincraft (2) Pracs at PE

9 Detail any OE related courses you have attended in the last 3 years

ABL First aid (43) MSC Outdoor 1 River safety (2) Abseiling Geography MSC Snowcraft Science Bushcraft (3) High ropes **Navigation** SFRITO (2) Canoe skills NZOIA seminars STA workshop Kayaking (7) CPR Low ropes Orienteering (2) Surf Guard Day skipper Maori Outdoor 1 Surf Life Instructor Outdoor Ed DOC Camp Marine Medicine Swimsafe PΕ **TOPEC** Environmental Ed Mountaineering EONZ Courses (5) MSC Abseil PE Conference Tracking **EONZ Marine reserves** MSC Alpine (2) Planning (2) **Tramping** EONZ planning MSC avalanche **PNTC** Water safety EOTC Course (29) MSC Bush (2) Risk/Safety Man. (35)

10 Identify some professional development opportunities you would like to attend

Abseiling (6) First aid (4) Planning & implementation Activities in EOTC Geog in NCEA Practical courses (2) Advanced first aid High ropes (2) **RAMS HOD** days Art in the outdoors Refresher first aid bush 1 assessment Induction programmes Required paper work Integrating camps into the Bushcraft (4) curriculum River rescue Integration across the Camp activities & org curric Rock climbing (4) Camp for juniors Safety management (15) Kayaking - river & sea Camp planning Kayaking (10) Sailing Signing over responsibility Camps Kayaking L1 (2) Camps & trips Site based sessions Keeping up to date Canoe Large group management site visits

Checking contracters quals Encouraging chn. to take risks Climbing (2) Cluster meetings

Contractors
Cooking ideas

Co-ordinators courses
Determining levels
Environmental Ed
EOTC camps (2)
Exercise workshops

Managing helpers &

parents

Mountain safety
Mountaineering
Navigation

OE for ESL students
OE scholarship

Orienteering
Outdoor pursuits
Outdoor workshops

Outdoors 1 (3) Personal devp Snorkelling

Teaching swimming

Theory review Top roping Tramping (2) Updates

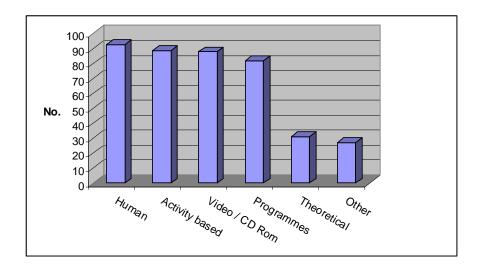
Use of local areas Using polytech students

Water safety Water skills

G RESOURCES

What resources would help you deliver your programme?

Note: The numbers in the graph and in brackets signify the number who ticked the need for this kind of resource plus those who made specific suggestions.



1 Activity based resource material (89)

Activity sheets Night activities
All pursuits NZ focus
Beach education Outdoor games

Best practice bush activities Practically tested ideas
Block line masters Problem solving activities

Blue MOE book Problem solving activities

Bushcraft Problem solving activities

Provider resources

Child friendly stuff RAMS resources
Climbing Resource lists
Confidence development Safety & EOTC

Curriculum based Safety programming learning books

Curriculum camp book Safety resources
Environmental activities SAR for kids
Games Science based
Kiwi outdoors (2) Sea related

Local cultural history Specific to content areas

Mountain safety
MSC books
Updated manuals
NCEA components
Wet weather activities

2 Video / CD Rom Resources (88)

Activities NCEA components
Activities for school camps New MSC videos
All pursuits Orienteering
Borrow or purchase lists Pre - camping
Camp sites video Rafting

Climbing River crossing
Examples of best practice Rocky shore
Fun ways of doing Safety (8)

Hypothermia & tramping Safety in EOTC video
It was only a tramp Special interest groups

Kayaking Specialist skills
Local culture & history Student safety
Lost in the bush Surf safety

Marine reserves Survival case studies

Mini -incidentsTeaching skills in the outdoorsMountain bikingTeam building challengesMountain safetyTramping & campingMSCTV clips of incidents

Natural history Updated river crossing

3 Programme Outlines & Guides (82)

A curriculum document Programmes matched to sites

As per levels Relevant areas
Curriculum oriented maps Safety & EOTC
Examples for other schools Safety procedures
First aid courses Sandy shore

Integrating OE across the curriculum School camp best practice Lesson plans Science based programmes Maps Support documentation

MOE Safety & EOTC (2)

MSC brochures programme
National parks

Staff development
Standardised letter forms
Templates of material

Outdoor activities Time schedules
Outlines Unit plans

Outside providers Update & review everything

4 Theory & research based (31)

Conservation issues
How emergency people work
Marine reserves

Research skills in OE

Search

Year 13 text book

5 Human Resources (93)

Advisory service support

Affordable instructors

All teachers should have Outdoor 1

Canoeing & sailing instructors

DOC support

Experienced people

Experts

Extensive use of people

Local community
MOE funded person

More parent involvement

MSC people

OE management people

OE Teachers & assistants

OE trained officers

Outdoor pursuits people with quals

Parent helpers, supervisors & coaches

People with appropriate expertise & experience (2)

Polytech, high school & MSC instructors

Private contractors

Qualified instructors (2)

RAMS folks SARS for kids

School based Admin person

Skilled instructors Skilled personnel

Skilled staff

Specialised accredited providers

Specialist contractors Specialist instructors

St Johns

Staff with experience

Staffing relief

Support from outside

Surf life

Teacher training

Time allocation for planning

Trained people
Training in activities
Utilise COE personnel

6 Other (27)

\$\$ for extra staffing

\$\$\$ for gear

Booking list of centres

Camp sites

Computer programmes

Cost of trips

Equipment & funding Flexible timetables Kayaks & equipment

Knowledge of inexpensive opportunities

MOE list of recommended operators

Money (3) More gear

More OE teachers

More professional development

MSC Council pamphlets
Open days at camp sites
Practical tent pitching
RAMS exemplars
Resource people list

Resource teachers of EOTC Safety & EOTC is too wordy Sample policies & procedures

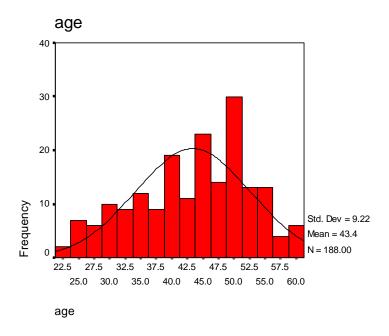
Teacher assessors for those taking camps

Time to update qualifications Transport needs support User friendly templates

H Description of the Sample (overall N = 210)

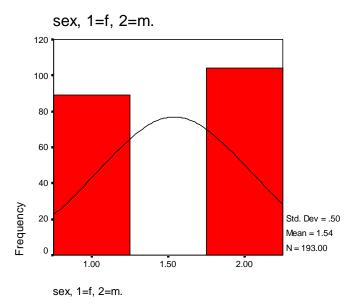
1 Age

Mean - 43.37, sd - 9.22, min 23, max 61, range 38, median 45



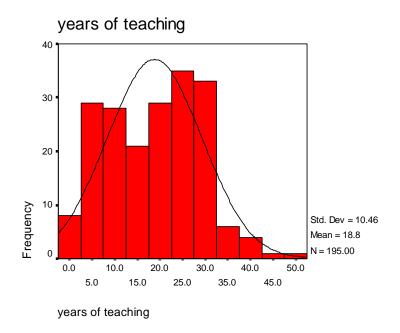
2 Gender

Valid 188, M = 104, F = 89



3 Years of Teaching

Mean - 18.79, sd - 10.46, min - 1, max - 50, range - 49, n = 195

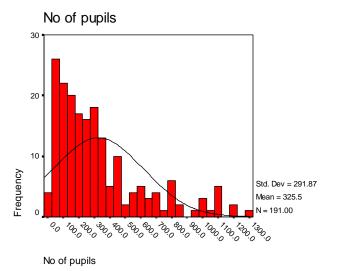


4 Teaching Levels

14 taught at one level between years 1-8161 taught multiple levels

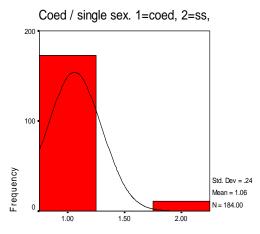
5 No of Pupils in the School

Mean – 325.54, sd - 291.87, min 9, max 1300, range 1291, N = 191



6 Co-ed/single sex

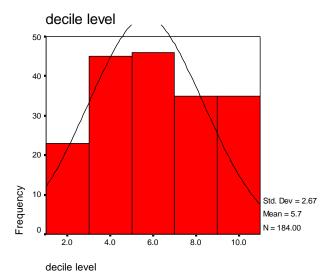
N = 184, Coed - 173, SS - 11



Coed / single sex. 1=coed, 2=ss,

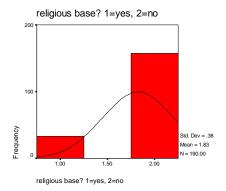
7 School Decile Level

N = 184, Mean -5.67, sd 2.67, range -9



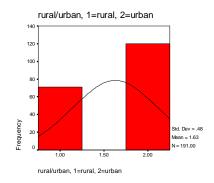
8 Religious Base?

N = 190, Yes 33, No 157



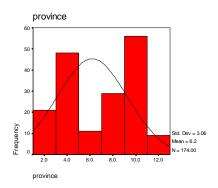
9 School Location - Rural / Urban

N = 191, Rural – 71, Urban - 120



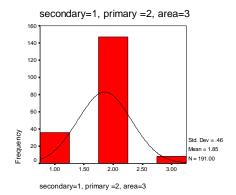
10 School Location - Province

Northland	5
Auckland	16
Waikato / BOP	36
Taranaki	12
Hawkes Bay / Wairarapa	6
Manawatu / Wanganui / Taupo	6
Wellington / Horowhenua	28
Nelson / Golden Bay	1
Canterbury	41
West Coast	15
Otago / Southland	20
Unknown	24



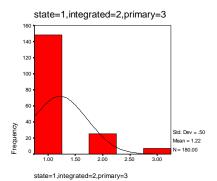
11 Secondary / Primary / Area

N = 191 Secondary - 36 Primary - 147 Area School - 8



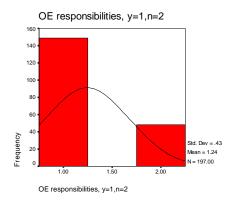
12 State / Integrated / Private

N = 180, State - 148Integrated - 25Private - 7



13 Did the participant hold administrative responsibilities in OE?

N = 197, No - 48Yes - 149



I Definitions

We have attempted to circumvent semantic confusion especially with the terms *outdoor education (OE)* and *education outside the classroom (EOTC)*, by defining the scope of the study as the use of the natural environment for the purposes of teaching and learning. While EOTC includes events such as outdoor PE, sports trips and museum visits, our definition may have affected the nature of the data obtained.

J The Researchers

Dr Mike Boyes Senior lecturer, Outdoor Education School of PE University of Otago P O Box 56 Dunedin, NZ mboyes @pooka.otago.ac.nz

Dr Robyn Zink
Lecturer, Outdoor Recreation
Dept of Sport & Outdoor Recreation
Monash University
Gippsland Campus
Churchill, Victoria. Australia
robyn.zink@education.monash.edu.au