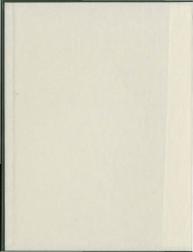
ST. BONAVENTURE'S COLLEGE GARDEN AND Compost program: Harvesting Critical and transformative Learning in a place-based educational context

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# St. Bonaventure's College Garden and Compost Program:

Harvesting Critical and Transformative Learning in a Place-Based Educational

Context

by

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A thesis submitted to the School of Graduate Studies in partial fulfillment of the

requirements for the degree of Master of Education, Curriculum, Teaching and

Learning Studies, Faculty of Education

Memorial University of Newfoundland

May, 2011

St. John's

Newfoundland

#### Abstract

This thesis examines a gender and compact program at a private student is (b), b), b), Net-doposed land, Casada It markes a subject evolutional tracking and learning diagonal between tableasts, tababares and the worker commanity assamined through the prismo of Searchiness, Place-Based Biolacciano, Crisical Prologoga and Transformative Biolacciano, SepterStairi), bits heiss examines, through a effective arranizative, the influence as composit and gardeen program can have on a short community carriciculum, in the classroom and outside of It. Alw UI examines whether such a program can offer other shoulds as mold of working with community partness, local experts and gardeen initiatives, in schools and community arcsing their own composit and gardeen initiatives, in schools and community.

## Acknowledgements

I would like to thank, first and foremost, my wife for her support and understanding of the process of researching, writing, revising and editing of this thesis and the many hours they demand. This thesis wouldn't have been possible without her patience and encouragement.

Thanks to Dale Peters, Lynn Peters, David Martino, Michael van Laven and Gerard Ryan for reading over and offering (mostly welcome) insights and suggestions on my thesis.

Thanks to Elizabeth Yeoman, my supervisor, who supported this thesis from its beginning and has always offered helpful suggestions.

Finally, to my daughter Evelynn, my hope that this program becomes part of your educational reality.

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# Chapter 1: In The Beginning

"Let the earth produce all kinds of plants, those that bear grain and those that bear fruitand it was done."

#### Genesis 1.11

A chance convention with fillers SL Boursentant's College teacher David Marine in the Departure Leange of Pearson International Alignet became the genesis of a compositing pearsons are permitted to work to be the lith them, are it would flowlare like a colifsh at the end of a loost. The first day of school dawned, passing in a reverts of clauseous most net revisioning, testbook being handle out, ansignments draws up. Then David appeared at the door.

A moment, he asked, one finger held aloft in promise.

I came out, keeping half an eye on the growing restlessness that was gathering momentum, so akin to a storm rolling out into the North Atlantic, in the classroom I'd just left.

Do you remember we were talking about composting? he asked. I nodded. Well, I just had a conversation...

Students, back from jobs at summer camps in Ontario and New Branswick where composting was the norm, were questioning the wanton waste of organic matter at the school. Wasn't there anything we could do as a school community?

Farmy, David had told them, because Mr Peters and I were just talking about this very thing.

Somehow, in the haze of those first weeks we managed to secure the right to put the compost bins behind the gymnasium on the school campus itself. We congratulated ourselves, spent a Saturday morning rigging up the bins and raking leaves and stepped out upon a journey that none of us ever thought would be so rapped in its dizzving highs and soul-searching lows. This dissertation is, in essence the story of how we became prowers of food, how this act of putting seed to soil placed us firmly in our local community and, perhaps most importantly gave us the opportunity to broaden our sense of selves. We, students and teachers at a private K-12 school in the Jesuit tradition located in St. John's. Newfoundland had undertaken a journey where the possibility of transformation loomed, where we as a school community might become more ecologically enlightened and recognize natural limits within which we could work for sustainable growth. St. John's, and Newfoundland and Labrador are not today renowned for environmental stewardship. Rather, interactions between human and natural communities have been premeditated upon the principle of acquisition, of gain, without regard necessarily for the well-being of the local ecology. Ursula Kelly, writing as an educator and Newfoundlander contends that the "ideological basis of incidents of environmental and ecological abuse [should] be examined as cultural and systematic" in this province. It is through dialogue in education, immersed in place and viewed critically that we can hope for transformative ends towards a more sustainable tomorrow (2008, p.92).

Wendell Berry argues that "our present leaders - the people of wealth and power do not know what it is to take a place seriously; to think it worthy, for its own sake, of love and study and careful work. They cannot take any place seriously because they must

be easily, any assumethy that terms of power and weaklis in the meakments would to some yang space ("Checkeda (1997, 1151). Thompsonic should have it in a place can come not only future of easi's histowar has also labour that matation the personality and the earsistmatter (Thomhall, 1997, 1980). Than, formingh our work was use mobiologing 82, and the probability of the probability of the probability of the source alian and the top the probability of the probability of the source alian and the source of the probability of the probability of the source alian and the source of the probability of the source of the probability of the distribution of the source of the source of the source of the source of the distribution of the source of the source of the source of the source of adjustation of the source of the source of the source of the source of adjustation of the source of the source of the source of the source of adjustation of the source of the source of the source of the source of adjustation of the source of the source of the source of the source of adjustation of the source of the source of the source of the source of adjustation of the source of the sourc

 What influence can a composting and gardening project have on a school community's curriculum, both in the classroom and outside of tt?

 Could the St. Bonaventure's College composting and gardening project offer other schools a model of working with community partners, local experts and government agencies that they could emulate?

#### 1.1 Cultivation of Academic Themes

This dissertation unravels the meanings derived from within the project itself, and in the world beyond educationally, paprimally and in this project's capacity to offer what. David Selbu and department, That is the opportunity to empaye "holistic, pholal and transformative perceptions" of humankind's impact upon the world. These perceptions are not necessarily bulanced. Rather, perchange or of equilability into of capacity mine and one of each other totality of the system" (2002, p.85). Robert MacFarlane's climbing of a favourite beech tree to a forked lateral branch set against the curve in the trunk thirty feet off the ground offers perspective on a life lived in a busy modern city,

\*s way of definying the elsy's chinne on me... If I remained still for a few minutes, people out walking would sometimes pain beauth without noticing me. People do in grannely spece to use mit tenses. If I remained still for longer, the bird would return. Binds dan't generally expect to see me in teres, effect. Blackhisch fanning in the last filter, wrome which whitrend from trig to trigg ao quickly bey seemed to talepeor, energ ary propriating, restring animation from ever (2006, p. 6).

This is discullations in practice, the experience of being highly of life in them in properties where use pet to see and experience the mightry of life in more fullness. While the central of the garben and compare programs the fullness was to see that the week is part of the soil. Its growth is defined from materian and mineria from the term, worked thermspilley ever by a multimole of insectio, worses and fingil. The seed is a "mainter, mundle term is disconstarily changing insection-dependence on a constant these of energy to maintain proper from and structure" (Merrowitz, 1972, p. 156). As we seeds as are we human transient and materials. In recent time, we have some to left built and the source of the source of the source of the source to the Pollar 2006, p. 126). Dependent specs constant impact of energy - calorise, electric, human - s kacey an and care accidence pairs per source and of the specifies of any location from - to kacey and care accidence pairs we the or the source of the location.

The emmone, CA. Bowers notes in 'un engine prelicionally between change prediction the threshoets abdel [6] and the strand prevents the markel life provides, -(2006, p323). But buday, "the worldwide promotion of communition undermittens the intergramerizational base-budge that represents what remains of community petfand the strange of the strange of the strange of the strange of the strange world (Bowers, 2006, p. 123). We must keep in which that we are but one practice within an intercommercial world (B). Bowers may in this strange were must all for cycles. There is value in basel's world for grant, but within the boundaries of natural strandshilly. In this light "the intergramming all activities of else two and program Food Neurons of the most promission discontinues to the labolistic market," and the mosterial, traduing educational, finces which properties the model (Bowers, 2006, p. 105).

Thereage the comport and gatesin pargums were rejudy to structs to the strucy the ourieves (Heyre, Neg, 19, L2), based it as applied. Booling when themate actions are constructuation and realised through a specific bio-region. There is resonance in this local structure is parallels indices of end gatesing, and the localities, in the hist sequence. We find it is the working of 100 distanciant, charge, 12, Marker (21, Marker King 2), Maddie School in Bechaley, California whene The Eddie Cohongor 24 holyse and and manufacture capitor and a structure of 100 distanciant, charge the Andrein Carlos and Parloy and and tauloanse capitor the set of 100 distanciant, charge capitor and parlow the limits to the many provided cancidence, while chandra cancerse (Hild Schoolymer, 10), chaldbaceboolcoguest are field to an interface of cancid and thermense. The 2010, chaldbaceboolcoguest are field to an interface of cancid and thermers.

Devid and Loretta Prospace, tailing in small but sustainable plots in New Mexico. Frequence took multi-people have a natural affinity to come tophere over for 0<sup>-10</sup> minutes the solid, using no chemicals and wanting no warely. (Clainform, 2005, p. 30). This dimension then explores the possibilities for transformative polangey and critical exhaustion explores the possibilities for transformative dual gradem advances within a appending balance dual mandate. the SBC compost and gradem posities: to be realised.

Vet us have in contemporary alphalized times distanced corselves from any one place. As Wendell Berry avers, we wish to leave onen the opportunity to exploit any area for economic gain (1997, p.115). We see places as venues of economic exploitation. In coming to see the benefits of place beyond such narrow economic confines, to embrace the splendours in bio-regions, we may wish to close off such wonders to strangers, to infuse our education towards. "Inward-looking, intelerance of outsiders, propensity to entrenching traditional power relations and a concern only for environmental quality in immediate neighbourhoods" (Cameron, 2008, n.294). Place-based education can promote a deeper suprement of one's companylines, concern for its well-being and empethy for the many bio-majors mund the world. This is what seventeenth century Creek educator Comenius was driving at when he called for students to be educated in nature so to be prepared for life itself (Martin, 2004, p.4). It is furthered by Brian Wattchow's call that we be apprenticed to a place, so as to utilize our local environments as teachers (2007. n 236). "Place based nodaeousies," armes David Gruenewald, " are needed so that the education of citizens might have some direct bearing on the well-being of the social and ecological places people actually inhabit" (2003, p.3).

This is the same minds of this drew sighter indication (murph Shoregian), concerned about the convex demokers of the inductivit landcape upon their prioritic without discusses which also convex indications and the indication reason of our and beginning automatistic implaces. In Simo Shafebis, weakly standards as Pres Nature, Though-Tantao Hi, adoos fait and stator architectics - an additudity, biol-staching and camping - net endersones to "develop mething testimolity to strate that would committee to ender Nature to "develop mething testimolity to strate that would committee to ender Nature to "develop mething testimolity to strate that would committee to ender Nature the develop mething testimolity to strate that space and the strate of the generation of the develop mething testimolity to strate to generative the testimolity of the develop mething testimolity to strate that space and ensembles to ensemble the develop mething testimolity to the space in biotechnic testimolity the develop mething testimolity the strate of the space strategies and the while taken to the strategies and the space interpret strategies and the strategies that the strategies and the substrate for terms of the develop time that the strategies and the substrate for terms of the develop time that the strategies and the strategies and the substrate for terms of the develop time that the strategies and the strategies and the strategies and the strategies and the substrate for terms of the develop time that the strategies and the strateg

The directed is the start of an in Newfordinfiant have once to hold our localities and biotic communities underscores the importance of place-based education (Key), 2006, p.510. A start of the start of the start of the start of the start matt experience the workd to speak of at (1973, 85, Cramerovid 2005, 3). Finite's wirking wave concented with expering the constanticions inherent to note inhariting, critical action and reflection/inderstanding, or *prairie* versyons can be available to the oppression inherent within speaking, or *prairie* versyons can be available to the oppression inherent within speaking, and workers to managers the factory owners. Trainflatence needers works (right the two dames stores for the behavior.

However, Freire has attracted criticism, particularly from C.A. Bowers, who contends that Freire and his disciples within the educational community are following a

linear chain-of-thought every hit as oppressive and dominating as the one they oppose "The God-words of the liberal lexicon such as 'emancination', 'freedom' and 'dialogue' cannot hide the fact that promoting the idea that there is only one approach to knowledge supports the forces of globalization" (2006, p.78). Bowers further contends that it is not critical autoreness, or reavis at fault here but the accomption that there is only one means to attaining it versed in the terminology of the dominant society - white North American, middle-class affluent. In opening ourselves critically to the many oppressors, we find in contemporary society - ecological and educational as well as human social justice issues - we must then be willing to accept a multitude of responses to it (2006, p.80). Freire's identification of the great schisms between the rich and poor that comprise his seminal work. The Pedanomy of the Oppressed marks a beginning. This dissertation could not have steened into the arena of critical education without recognizing his work. But I contend, in line with Bower's argument, that Freire simply did not go far enough. He did not expand his thinking of oppression beyond human rights alone. Therefore he missed the interconnections between oppression of humankind and the ecological destruction of the world which supports humankind. Further, Freire saw liberation within the prism of the dominant class he heralded from. It is the celebration of the commons, the rediscovery of the historical meeting place of the human and wider biotic communities that will provide mutual benefit and ultimately end the oppressive state in the world today, environmentally, educationally and spiritually (Bouwy, 2006, p.25).

The final theme explored in this dissertation is Sacredness. I do this because I was raised a Christian, am familiar with Christianity's stories and, "it informs my consciousness, mv language, and mv dreams" (Berry, 2002, p.307). Further, the garden

and compost programs are housed at St. Bonaventure's College, a Jesuit Catholic educational community. Where possible I will make parallels with other religions and traditions, even invoking Edmund O'Sullivan's hands off approach in dealing with the greater mysteries of the world through "the story of the cosmos" (1999, p.196). But it is in evolution Christian teachings of arriculture and land, as espoused in Psalms 104 that, "Thou sendest forth thy spirit, they are created" that I come to see the Divine presence in all living creatures closest to my understanding. This dissertation explores the Christian themes of stewardship, framed within a hiblical code of morality and a criticate of how it limits us to an anthropocentric view of our place in the world. For example, Craig Sorley, an evangelical Christian farm consultant working in Kenya has utilized the Bible and ecological notions of sustainability to craft Farming God's Way which makes use of the totality of solutionshine with the local environment to immove farmine yields (Rice 2009. Pseucearch 7). The Christian Bible is a work that can inform an understanding and working towards the unfulating mestery of the world round us. To my mind this latter tradition of spiritual sucredness informs the academic traditions of place-based education, critical schemation and transformation medianose heavier as well as how humanity interacts with its Earthly home. These four academic traditions inform this dispertation's story in unrevelling the meaning housed in the St. Bonaventure's College compost and garden project.

### 1.2 Finding Our Story

We in the modes word have to the thread to the oncy that put us into a direct relationship with the earth (Berry, 1988, p. 122). Where new we depended upon creation there is purposed one to such as the new found in the Creations those id cortexes, budy we are papping to find a story that encompanies the new reality of a world haved space the global materials, but is in what Elimand O'S-diffuse calls the, "process of globalization, which is a planetary vision band on the dim matching, is a moreomet in the transmissional world hand show (so commerce: "This maturite, adapted by many moders nation-states has lad a profound environment limpact, largely for the segurite. O'S-diffuse metrics is an "numbed process that is took to the earth and in inhaltmatt" (1998, p. 12).

This time manuface is sensel in scientific, technological groups, networkly lid ora. It squares nearby to the damands of the global makesplace which premises an economic Manifel Ecological sensespon so boundaries can see the imposed upon economic growth. But this new stars lacks the morell parashes, the excitation of our human place within on workd, it is graded over that human connections to the world, suffixing our economic value. We are cast adult, reserved from the initiacies and emmersions the world effects which in including sensitive and work of the stars of the star from the initiacies and the stars of the stars of the stars of the found in difficult to broach thin goal within the carriculant of either the classroom or the school, lack beens, and an util arranging to see the connections between suban and the world enforms. For example, during my tenders training I taught as a high school on. Need-southant of Hustin Poinsinals, Taught madem a variety of consents but one of my forwarine, and most frastrating, was Weekl Goorgenpy 2020203. Intellectually 1 understood the consense material but I offon had a hard time Trinking it meaningfully to statistical View. After a particularly long class where I mot the usual typaptions of nedert apathy - proposed givens, background charting, sharps of pariori sufficience - my concenting tusket regregored by to smale the data more meaningful.

"Bring the curriculum to them," she suggested. "Make the global local."

I nodded but found the idea off-putting, a practiced cliché. How could I make a curriculum based on global inequalities in farming and food production resonate in a community still suffering from the impact of a cod fishing moratorium? When I looked out the window all I saw was snow blasted along by the infernal winds. There was, I decided no point of connection between the two. Partly, I was too immature to see the possibilities. More to the point I was willing to sacrifice student understanding for the banality of what became a largely boring intellectual exercise because I found comfort in global ideas rather than local realities. "Localism," Sheila Giesbrecht notes, "allows students to explore their worlds through hands on learning experiences and build on core corricular areas." Localism links the classroom to the community, makes education everywhere (2008, p.27). Students and teachers in this light begin to create maps of their localities that make them resonate with meaning. This is where Rath kissed Johnny. Or that's what he said annear. And over there, behind the convenience store that's where I found a fifty dollar bill once. These are story maps, housed in geographical places but extending beyond and into them in a manner known best by the story-teller (MacFarlane,

2007; p.513; fail bren she to separise Grout Back, Neerformaliet and in historical realities as a risk codifishing and trading control beaused by gaorgamphical happentance in my Wook Goorgaphic beams they and your space of the more become removed from my stakens, instituctually, sphysically and spiritually, but part of something that remounted with them through a mytoid and proves of approach and the wise processors of objectives to appropriate, Constructuated of Papers of Approach and the top terms of and dependence to approach. The constrainty as a food provider historically, needy removed and dependence on others), buosed in a provide historically, needy removed and dependence on others), buosed in a provide prioric historically and producer in sameature and/or community reactions.

The near to re-sense or an endoy with the stands work it autorscored by the decise to find additional to the problem of global susping. The latter is a synthym of humanianfs breaks then bridge within the limb integration global syntaer (Bers, 1988, p. 121). Would Browy watters of the life an a fitners and wetter, of the issues of works of mophysically, and also spintually. "The differences between knowing a place and bring physically, and also spintually. "The differences between knowing a place and bring (2008, p. 21). Success was hand-areas, fitnessing in a start of the syntaeconcered Brows hand-areas, fitnessing brings in shark ha leaves the origotic paraditistic processing and the start of the start of the concered Brows hand-areas, fitnessing brings in the latter of the syntaepeople experiment of the start of the start of the start to all proper global and processing starts and the start. This is to tradition were start to prope experiment, whether areas, the limb and area the start from howing the proper process of the starts, the start constitution starts of the start proper processing the starts areas the start constitution starts of the start proper process of the starts, the starts areas the start brings in starts and the starts of the starts of the start start in starts and the start start proper processing the starts areas the start constitution starts, then the start proper processing the starts areas the start constitution starts, then the start start proper processing the starts areas the start constitution starts areas the start procession starts areas the start procession starts areas the start constitution starts areas the start procession starts areas areas the start the constitution starts, then the start start areas areas the start start areas areas areas the start start areas areas areas areas areas areas areas and the start start areas areas

Newfoundland and Labrador three was a similar tradition in making a living from the sea, and land. Fishing required a knowledge of the seasons and climate that was passed down from father to son. So too were the family vegetable gardens noutsible with kelp and captin from the ocean.

Both Thomas and Wendell Berry find the thread of humanity's connection to the earth through education of, and in, Nature. Students today have to learn to appreciate the world, to discover its intricacies for themselves. To do so they must familiarize themselves with the texture of a fallen maple leaf in Fall, know the giddy loss of control that comes from jumping across segweed-slick rocks on a tidal beach feel and appreciate the smell of soil, rich with nutrients, after a May shower. To live in the world they must get scraped and bumped and learn in order to appreciate a life lived in partnership with the world (Chouinard 2005, n 173). Yet today, by and large, students are left inside schools. Nature literacy has been lost in the push to prepare students for the demands of the elobal marketplace. Children today face an. "extinction of experience... [where] there are few fields and woods, organized activity has supplanted free agency, the computer roles and invisible fences of fear have arisen between kids and the nearby wild" (Pyle, 2008, p.159). The need for a means of access becomes explicit: to know and protect the world students need to be immersed in it. One must be able to know the world before one can speak the word (Gruenewald, 2003, p.4). It is a critical bind for teachers and citizens in a globalized age, a moral catch-22. At the very moment we need children and students to experience the world in order to help protect it they are being ushered into the classroom or inside, and kept there, for longer periods in the name of maintaining

competitiveness in the global economy and/or out of a fear that children may get hurt. Unless they experience the world, learn from it, they cannot help it.

In *Invite Drown Bary Lapse works on the isoms humanity one glunn flow* the blockly besuffi, other built surders habits of each. In the European taking there this has been sure as a tot of ondoaroo, surething to been. The hope of a North-War Drauge promised workshot of flows who have lowed and thread within the Bargherow along to the means of suretvia of flows who have lowed and thread within the Bargherow along the track stress of these who have lowed and thread within the Bargherow along the Choir such extreme conditions that which, how or disposed along the Choir such extremes conditions that with lowed along where the means manufact Description that with graves alongwords, the flow flow, flow,

Legar argss that may head here a back frien understanding with a work, where heatings in diversed from some is a segretism and agoest to criticity emerged off from light or water. Inits then their inderstanding of the world within their experiments of the true habits. There are be as segretism between humanical and nature breasure the studie chaos antare prevides - the sames covered with backs, the first diverse is the studie chaos antare prevides - the sames covered with backs, the first diverse is the studie chaos antare prevides - the sames covered with backs, the first diverse is the studie chaos antare prevides - the sames covered with backs, the first diverse is the studies of the same covered with backs, the same competitivity and studies of the same (164, pp. 2021), its summa ago alow cover the prepring with the sequences must asymptotic of the same covered with a studies of the same covered manualized prevides of the same covered with a studies of the same covered stars and studies of the same covered with a studies of the same covered stars and studies and the same wave are prepring with the sequences must asymptotic studies with the presention with a sime star with the same studies of the same covered wave are prepring to with the same studies are same stars with receive postare which with the presention to a sime star must the same studies are same stars with the same stars are with the same stars are stars are

early gering and cost summer - can min a crop or circumscribe its boarty. That is, one must understand the locality one finds ensect? within before speaking on its behalf, whether to add, numeric or destroy. Such experiences inform a numritive of contection, a story of place which resonance because it can by parallels to "the universe story" (O'Sulfura, 1999, 2011).

The mathemathing of bacilities conserts us to larger truth advect our live hore in early, so matter the grouppalide location on biological composition. Divid Conservation groups that locations: existent advantage of a programmer and the structure of the the

Lather Stanling Deer, revealing of the Silow powels' validition, netwo, "Mat was are of the soil and the soil of an..." (Stanki, 2002, p.76). This cloudly link to the Genesis start, p.319, the "mit" show and starting with lower that thereas". Understanding that soil has been, and continues to be the life-force of human existence do we recognite value in dir. As Abb Leopaid expanded space in a *LSoid Constru*, Johnson "Land then in our morely life it is a footstim is encore flowing thready and an attimut... We

can be ethical only in relation to something we can see, feel, understand, love or otherwise have faith in" (2008, p.287).

We can be which to gives where we live and work beams it is in such places that we find manifer tensore and nationauxe. Isolved, hypothesis are informed that we find manifer the source of the single of the single of the effect of the same time humans. In the observable of the single of the intractions with the workly where we can form and the distance of an orthorizon theory. In this case beginding and nationarce (Henry Reg. 26.1). The output and gaden payies begins at 8. Beam-entant's College in a rediscovery of the crustion many within the context. Would Beep resolutes in his neary *IP CO O O Coll Land* where, "and of the tamber of the other space "and of the unbown to whom the long in the time *H* or the theore space strate of the crustion may." The *H* other shows are protocoles, that an interplace the forth provide a single to find the limit. - The preserving a strate of extension may, "mark that are *H*. The the hard has a protocoles, that an interplace the the forth are will be the the abself-COR 20.2 PV71.

We do not think of lease like in anyones. Luck is something you experise, experiand set. However, seel can also be vandersood flowigh Christian neulogy which that conclusions so they high pointingly. The Jonani moto of Ad Matores Del Glossian (et also Specialized and applicable), and they have a source anyope of which local environments. The lgantum Farm in Cordy, for them is part of a larger mythemal neural concentration of a source of the section neural concentration of the section of the sec offers an example to how our own garden and compost project can benefit the community agriculturally and spiritually (Ignatius Farm 2010; ignatiusguelph.ca).

## 1.3 Restoration of Life

"It smells gross," I heard after a month's time.

"Yeah, and the Grade 8's and 9's make fun of us," chimed in another student. Shy smiles were giving way to firm frowns of convinced abuse. Two students had quickly multiplied into a dozen, "Why do we have to compost?"

It kinds are youn pelveous significant into my beet compute purpose, as though 11 halbeen excepting in private an combination. It loss the schedulid sing and molidal my hand slowly, sugely. Buhind this mask of thoughted repose my brain scampeor for foundation on the dispety protocal furth insights. The histog begins the compare paperal of the consistent is sequely model of the moligation. Hence, we can see the hall accurenced any mind. It imaged to mumble my way to a non-committed permits of "looking of the compare" paperal in the second structure of the second structure encode my mind. I imaged to mumble my way to a non-committed permits of "looking of the in the dispety papera, seeks all, was donited for the first fielding of the first of the triage and the second structure superanously will fit in the two bits.

I needs't have worried. Even as those Grade 7 students complainted, change was progressing at its own steady, turfle-like pace. Peer pressure works both vary and many of the series students were eventing their influence by calling out hose who torsoid apple cores and barnana peels into the garbage. They loaded the volunteers, extrolling them about the benefit their accions would bring about.

While at that initial stage bridging the school compost program with the demands of the curriculum of Newfoundland and Labrador was only an idea, what we were witnessing was genuing learning. Genuing learning ion't fied necessarily to a classroom It can harnen anywhere. As educators we've all seen it. It's that moment when a sometimes yocal, often silent Fareka is achieved and the proverbial light bulb illuminates an idea or concept. Genuine learning happens within a context that makes such a moment more likely, and resonates at a higher frequency. Slaloming down a river in a kayak one masters without thought a Groonland Roll. This is an essential skill for any raddler, but one that comes only with reactice in context. So too with the compositing, and later eardening program. Understanding intellectually the need to compost becomes a more resilient idea when it is also understood through practice and that we are creating soil. essential to life for humans. When use're using composted soil to enous vegetables and have learned and taught lessons in classes from religion to literacy within the garden (Charter Five noes into more depth with regard to specific courses and objectives that link to the garden and compost program) the chances for analysis and practice grows not only for the student but also the teacher. This is coming learning

The promotion of gardens as the vehicle to higher understanding of the weekl in Teven as well as. World's the industry were "descended from their human right of trees, fields and Howess...", that they might be beered by seems beaused in the article in the article descenses the Home Socied memory family a centry any "look forward to the day when school gardening... may become an integral part of the vork of all chooks," and Philadeed Clasters, Segmentination of American Socied Socied Technol. The American Socied Soci

largely replaced them with schools that labour within antificially created, largely indoor environments because (astemibly) they best prepare students for the demands of the global matcheduce. But this preparation is hund, does not demand overfly upon student intellects and darge down the commitments required of a citizen in a locality (Slocka, 2009, 149).

Without those Grade 7 students being simultaneously propelled and repulsed by their duties as composters/ learners the project would have run aground, jarred by the combined assaults of time constraints, scholastic demands and misunderstandings of just what our project was trying to do. Genuine learning is an important element in this dissertation. It is tied up in the experience of frilufisliv, of gardening and composting examined through curricular objectives but also our own experiences. Genuine learning happened within the gardening and composting project when students and teachers were able to unite the practiced skills of planting seeds, harvesting leaves and thinning plants, all done in nature, the sun hot across our noses and cheeks, the wind whistling through our hair, soil caked black beneath our fingernails, with what we had learned in the classroom and in life. While education can be a resolutionary act, it can also advocate a societal status and. Education does this through the promotion of curriculums that represent the middle-class ethos of the Western world wherein "knowledge is reified and objectified in such a way that students are socialized to accept... that knowledge actually exists objectively disconnected from the subjective realm of human experience" (Darder, 2005, p.256).

By objectifying knowledge we remove it from the commons. Knowledge becomes something greater, more mysterious and thus accessible only to those who conform to the globalization process. Bowers notes that out liberal education system "ignores the cultural and educational roots of the ecological crisis..." meaning that the act of revisiting the common is more revolutionary because it "contributes to the revisitization of the intergenerational knowledge that empowers people (locally?" (Howers, 2006, p. 189).

In beginning this dissertation I was vaguely familiar with the idea of education not as a rublic good ner or but as the means of creating tomorrow's workers and consumers (Freire, 1973, p.111). What I hadn't been memorated for was the possibilities of counter-halancing this begemony housed within the process of beginning and working through the gardening and composting program for both students and teacher involved. That students would eventually take ownership of this project had been the professed plan from its incention. Without those students being simultaneously reconciled and revolved by their duties as composters/ learners the project would have run apround. jarred to shore by the combined assaults of time constraints, scholastic demands and misunderstandings of just what out preject was trying to do. The students found, however that there was noon for anoth into positions of leadership within the project. They made it theirs, tied not specifically to curricular ends in pursuit of a job or scholarship but to outcomes they devised of having fun, helping others and genuine learning. At this point the possibilities for critical awareness, transformative action couched under the umbrella of Christian stewardship became areasent to me. It is here that the story begins,

This dissertation is broken up into six chapters. The second delves into the literature relevant to the academic themes explored in this dissertation - critical pedagogy, transformative education, place-based education and sacredness. The third

chapter maps or the methods used in the research and presentation of the guebon and composed programs at 20. Boussenthan's Goldges in this distantiants - writing as method, assist and antisyticling. It closes with a attenuent on ethose. The forth chapter is a mention of the process by which the guebon and composed programs came into being, the strangiles and successes achieved and the closess farmed adoug the way. This fifth chapter approxed by the strangest strangest and strangest the Strangest strangest registering the strangest strangest and strangest the Marching strangest explores the guebon data composed programs and in strangest to the Marching strangest and and the strangest strangest and assesses and guebon ad age levels. The stratch chapter stocks to answer the questions asked in this dissertation. They are:

 What influence can a composting and gardening project have on a school community's curriculum, both in the classroom and outside of it?

 Could the St. Bonzventure's College composting and gardening project offer other schools a model of working with community partners, local experts and government agencies that they could emulate?

## Chapter 2: Literature Review

"A life of small scale farming may appear to be primitive, but in living such a life it becomes possible to contemplate the Great Way."

## Masanobu Fukuoka (1978, p.110)

The pieces that beams the St, Bouwentmit's College pather and compute pregrams field to piece with time one patience. The administration's workers short vanishing directed at the gardine, or addicector garding were replaced by administration for student commitment and work in helping made the gardets a studie. Students gare freely of boler time and energy. Their embalants came to remind on that gardening and composing are a colorism of its faint. There was securate for the mattern and transform in the tangable actions of families, respiring and results. Personally, it because cause to fation y place optimalay which he loosin pedagogical and primal relation of 8. Demovemin's College beauses of the premise.

Where engines often and a printimenes to accept on fails the minick of H and the continuing presence of the divise all round as, the at of planting and to roll, of the divise all produce the result with a larger array encompassing the communess of Ha, in all in structures and possible protective divised by access the divised by the structure of the divised and structures. It provides, "'s possification access the divised by the structure of the divised and the value of the structure encounties with the value at why it all began there are receives in indivised on standing to exceed the structure of the universe encounties with the result of the structure encounties with the result of the universe encounties with the value at why it all began the access encounties with the value at why it all began the result of the universe encounties with the result of the universe enco

plant from soil nourished, indeed created, from compost. This is irw of what this place is capable of for all life - animal, plant and human.

The academic traditions this dissertation makes use of were already strongly rooted in this project before a word was written. Much as the potato cutting or turnig seedline needs sunlight, soil, compost and water to succeed and grow so did this project need sacredness, transformative pedagoey, critical education and place-based education to fully develop. Sacredness helps ground and contextualize the project within the grand narrative, or cosmological story of Thomas Berry (1988, p.121), showing the wonder of life's great mysteries at work even in a small garden and compost project. Transformative education helps us understand the possibilities for different visions of our society and modus operandi. That is, away from consumerism and a mentality of crass toss-it-away frivolity and towards an accountability to this place we inhabit and the other lives with whom we share it. Critical education helps us highlight the tensions modern society has placed upon both human and natural worlds, and gives us the framework to examine them towards constructive, positive and life-nourishing ends. Finally, in appreciating place we help teachers and students both to work to motect place, perhaps even allowing place to become our mentor. This chapter, in exploring the academic roots of this project must keep in mind the driving questions of this dissertation:

 What influence can a composting and gardening project have on a school community's curriculum, both in the classroom and outside of it?

 Could the St. Bonaventure's College composting and gardening project offer other schools a model of working with community partners, local experts and government agencies that they could emulate?

## 2.1 Sacredness

God is food, and we recognize Her story when we work the land, understand its limits and potentials, reap the boary of the harvest and reinvest comport to nowish and repletish what we have taken. This is the Christian agrarian celebration of communion we seek through our project, heralded in Doutermonoys 8: 8-9,

> A land of wheat and barley, vines, fig trees and pomegranates, A land of olives and honey;

A land wherein thou shalt eat bread without scarceness.

Reading the prompt budy 16 bits with risk from 1.1 might have as younger main. Implicing with the charts and 38 bits and my growing samplicies that the chards developed the source of the source of the source source and the three forms. With university came an affirmation that religion was a table of superstitions of edd. For Thomas Berry, Catholic prior of the Parisanis Ohne, binstrain and enologies, my stitules, minimizing a societal distant for the workstore of the divise clusted in the vense and the societal distant for the workstore of the divise clusted in the vense and the societal distant for the workstore of the divised set of the societal and the distant for how workstore of the divised set of the societal set of distant for the societal set of the divised set of divised set of the disent set of the disent set of the divised set

"our secular, rational, industrial society, with its amazing scientific insight and technological skills, which has established the first radically anthronecentric society and has thereby boke the reimary law of the universe, the law that every component member of the universe should be integral with every other member..." (1988, p.202).

Yet in my haste to remove the stain of religion from my person 1 failed to critique my own naivery. My dismissial constituted, "an ignorance that invalidated" my opinion. Simply, according to Wendell Berry I dish't know Christianity or the Rible (2002, p.356), The lack in my life west suchcaked until, by chance, I got a job instruives and then as is obfier at \$2, Beasymentry's College. Abbe, with a servert.

" You're a strong candidate and your personal philosophy will fit well within the Jesuit tradition. But your religious direction is weak," the principal informed me. Was I willing to address this?

Tasia yao with bany kubitani. a fadir studie she weight of shaft i Heen charged with. Bot formaly the gurden and compare project Learne to find optimal resonance to shall along been a presental supplies from my experiments a traphate in the grant field ferent of cound bittich Calambia and brend. Aberts, an a kayak galok on Pansmagnoly Boy, strait names and hister. Bat is strait and the second optimal strait weith were regord to instantially disposition and myterior. This assesses the second strait of the spectra of the second strait is considered and the second strait of the spectra of the second strait of consciences allows to use the instantian outgeness the shaft all least us while the consciences and the second strait of the spectra of the spectra of the consciences and straits on the instantian outgeness the shaft allowed the second strait of the spectra of the spectra of the spectra of the spectra maniformal differ allow producily single the second straits that, single shaft and the producily single to be calambia of calambia straits that, single shaft and the producily single straits of the spectra of the spectra maniformal differ allowed producily single of the second straits that, single shaft and producily single straits of the second straits that spectra of the spe

deads, "4 will remain to nature where I cannot from 1 will be part of the fluck, the trace, the birds-6 will see primarized ("Backsk McCounter (Dag, 1948). This is community, is bounded to experime the second second second second second second targether with every other member of the anti-near tempolation dipolities in spincal second in the second second

#### 2.1.1 Moving past the Cenozoic to the Ecozoic

To readly, putlyar, Christianji hua murdi hu had upott the cuntuity of RL. The proser of the crustian store just has been regaleed by "--- a dominant ruberplican regelingt" (https://glk.gl.129). Christianji hua mood anay from the store of each. It has actional the fill that is the proteins of working towards hovers on each. It has actional buff broaded by the fill that the protein of which and files, where the longer and cardied with the proteins of which are paired with this the contrast buff broaded by proteins of hoverse, new from the there paired with the longer and the star of the longer of the longer that the longer hoverse buff broaded and Windel Broaded by the desirts to mith hoversely glotics. Both Hovens and Windel Broad and and paire it is come responsibilities: "If the archit is the understanding of the world and and paire it is come responsibilities." The latter is the each "goals Weadel Broy (2002, p.299), Right profession are show the directmence the possibilities of the "'conset," which fit dressource in life warding and constraints. huma progress and profile are coherent and write (O'Sallivan, 2002, p. 4). Understanding the myriad connections embedded in the Economic's coherenia of Elfe breveen living biogravierusly downation in intensition in the "privational dimension of our world and universe" - admittedly not part of contemporary education. Noverthelens, O'Sallivan contensis that "we first and forement trut is to task hold of our spiritual diretity..." (2020, p.1)/examt in brings students and schools into the reads of the spiritual shorties we myriad for any proper hore on earth.

Craig Sorley, founder of Farming God's Way in Kenya, has taken on just such a spiritual undertaking. Working in a land marked heavily by a shift to industrial farming. motivated to combat climate change through the prism of Christian teachings, he faced resistance from local farmers already beholden to hybrid seed manufacturers. These firms had recorded bases over yields but at a significant financial investment from farmers already working on the fiscal edge of survival. What did the Bible and God have to do with farming? they demanded of Sorley. How could the Bible help them pay the bills and keen their soil fertile? Sorley persevered because "farming God's Way is based on asionos and it makes areas for accessic mesons - when you add the biblical and moral mandate of good straughthin to the geogenic interest than there's a good chance of patting reards to give it a try." Sorley's conviction comes from Genesis 2:15. "The Lord God took the man and put him in the Garden of Eden to work it and care of it." In eccence, heaven is here on earth and we are recoil of the creation receipture. Sorley's work with Farming God's Way, wherein even rotation, no tillage or ploughing and therefore minimal soil disturbance and a permanent layer of oreanic mulch derived from dead plants help foster a diversity of crops, have helped raise yields for small land-holding

farmers. There is an intimate connection to the world herein, a tangible effort to not waste, to not alter but work within the limits and rhythms of the local bioregion. That is the essence of Christian stewardship (Rice, 2009, Paragraph 20).

The term stewardship is not without controversy however. It marks for some a delineating point between the human and natural communities, a celebration of the former over the latter. John Hart contends that "stewardship retains a hierarchal structure whereby humans are closer to God and serve as a bridge between God and nature." This only heightens humanity's hubris over nature, muddles our ability to find or see "interrelatedness with creation". Hart suggests that the word relation replace stewardship, for it is in relation where "an attitude of reciprocal responsibility for Earth, Earth's places in a context of human species engagement with and interdependence among other Farth beings" is fostered (2006. n.120). Thus, nature mediates God to humans. Hart further identifies the Christian tradition of the redemptive mystique in our treatment of Earth as nothing more than a repository of materials provided solely for human benefit (2006, p.121). If stewardship is a celebration of death then we miss communion as a celebration "of interconnections within the components of the universe evolved through mating natterns, symbiosis, predator-prev relationships and the functioning of ecosystems". Thomas Berry posited that communion, far from being an unscientific relic, welcomed and celebrated the totality of life's benevolence as understood, yet still mysterious (Dalton, 1999, p.131). Communion here means embracing the lessons nature has been trying to teach us all along.

"The presence of His spirit in us is our wildness, our oneness with the wildness of Creation," Wendell Berry suggests in his essay Christianity and the Survival of Creation. The subjuration of nature to human endeavours , where anthronocentric ends win out closes off not only nature but carracheses from our experience. We need to remember "the avester and still continuing mirscle by which water (with soil and sunlight) is turned into grapes" (2002, p.311). In recognizing this miracle Wendell Berry notes it "implies limitations on the scale of technology, architecture and land holdings" that would destroy or harm the wildness of Creation (2002, p.299). When we are within a relationship with our sumanifing world when we listen to it and understand its textures, its contours we find range against the releastless much for more which the elobalization story so elibly calls for. We see the possibility of embracine the natural, finding merit in the apple tree for example, which nourishes the spirit as well as the body. Whether we use the term stewardship or relation we must recognize our responsibility towards the world around us. Such recognition comes from working within the context of place, in critically examining ones situationality and socking redress from the oppression of the present day narrative towards transformative ends. An awareness and appreciation of sacredness allows us to fully experience all of these

Such Lesson are net as indipite attuching an ideividad to a splace or community, lanard, asceduens help bring many individuals, with divergent aims, iterative al quite problem branch common ends. At a set suchader a divergent aims, iterative al quite individual divergent and the set set problem is distanteed, quitefaite and even conducational dash does have help significantly functional by concernists on another (2008, p. 164). While asceduens has the sports to join differing, even warding groups, it can often field distantly durines. The first that the landarge of field, marken and committee to constructive distances the sports to join differing even warding groups, it can often field distantly durines. The first that the landarge of field, marken and committee to constructive distances. The is on works with view consolition

This therape to back to SE, Bouwnenn's Collags, a short bowe pedagoing sense is storped in the lynamic matilian which also there we experience. One to meller before finding a new devices which maintaines of like we endermation. However, lands and Loyolo, favohar of the Society of Long, to "Fed Coll and Hulless". Surnebenes recognition that by working with the that, in paining fields, and produce for those who man that the society of Long, to "Fed Coll and Hulless". Surnebenes recognitions that by working with the that, in paining fields, and to robust of the out-to main and the land is a sear in a new or specific theory the lands of the society of the Progress which colls for perform the output, landstar for the attant and work. Standing as a mode ycentrin a gainst this contrading, lapaning heapings: neuropairs the realities and strive of our phalanges intersection and studies of the progress main comparition. Stark backs and wide botic context. The example, out of stark that requires a solide botic context. The example, our similarities were employed programs in our of tariving forward for mutual benefit - spintual and physical, plant, and main edit human.

2.2 Transformative Education

"We have forgotten that our minds are shaped by the bodily experience of being in the world "

## Robert MacFarlane (2008, p.203)

Edmund O'Sullivan identifies three mechanisms of interaction with the modern story of alabalization in his arminal work. Transformative Learning for education and society: survival criticue and finally creation of a new transformed vision and learning possibilities. In the first instance we face, "the shimuneck of the idea and practices of the erand society" wherein we recognize that the Western, market-oriented ideals of modernity, with ever more poor at the bottom of the socio-economic ladder and a narrowing window of ever-greater affluence at the top, is oppressive to the well-being of society as a whole. This connecsion has been brought on by a global economy whose annetite for resources dwarfs anything mexicasly seen (1999, p.22). Such recognition brings with it repressibility to the educator. "The crucial task of the educator will be to develop an awareness that sees through the logic of destructive globalization ... Three major tasks confront the adventor in survival mode. The first is coming out of denial, the second is dealing with deepsir and the third is dealing with loss and grief" (1999, p.33). In his 2002 essay The Project and Vision of Tranformative Education O'Sullivan argues that "denial is a defence mechanism" to counterbalance the deep ecological and economic schisms of our times. Despair is brought on by asking questions which result in an "understanding that conventional educational institutions are embedded in the problematic nature of our culture's dominant values" (1999, p.36).

2.2.1 Survival, critique and creation within the garden.

In coming to grins with the absence of a more progressive, holistic educational framework the content and compact project convince because it helps as redevelop doen restriction relationshing with the world around us as well as other community members. Deeply fracturing to societal well-being has been the move away from community life. "at all levels of involvement" as modern society has accented the mantra of globalization. This has compounded any will to be part of the public sphere (O'Sullivan, 1999, p.26). In highlighting the aurien and commont measurem we are the methlem clearly. We have let reafit marging become our raison d'etre as a society. The logic of money over neenle has allowed communies to nursde an arsenal of chemical noisons massueradine as aericultural improvements in the form of pesticides, herbicides and fungicides, not to mention synthetic fertilizers to nourish the plants. Such improvements cost a lot of money. Further, any benefits derived are fleeting. Seeds of Change, a film about canola farmers on the Canadian prairies documents how Monsanto weeds, immune to the pesticide and herbicide Round Un Roude but rendered sexless and therefore incapable of reproducing beyond a single planting has pushed already cash-strapped farmers to the brink of financial ruin, and often beyond. But it has marked a financial boon to the company as farmers must return, year after year, to huy seeds and Roand Up Roady pesticides. (McLachlan, 2005), "No farmer would want to harm the environment, but the financial advantage engineered cross might offer is ultimately more important" (Boyen, 2001, p. 121) This is the real point. Exempts have to make a profit because their profession has been reduced to its monetary worth. All other considerations- environmental, healthbenefits, sacredness- are at best secondary.

The St. Bouwenter's College gards and computer pipot can be seen as a mean of polici community access. White such an understanding are were learning abort to share block if the communities of St. Mar's, Newforssilland, the binney of growing vegatable leading as opposed to organized apreliations of policy of growing accessible and block local, affendable food a pairing for everyone. It is more matritism, provides physical well-biologi for hour she plant, well we mult have it. Educationally a single block and the she plant, well well and the block strength of the she block and the she plant, well well and the these containered in the the charget provides. Which is why are get limites, from Arisons and Colliformia when block and and a capable of growing matritions between during which within a limite offer.

As we execute our back at and seeming likely despit give two by topff rel low. The equid breaking up and allosment of Newfordhald frame, turned over into billing low or consolitation longing-parpose frame (Marray, 2002, 252) is a symptom of our collective loss-of physical frame bat an attitude. We as a society here decided to who money, and worker show a canot mair places, whom and history relevant. The receiving of diversity, excludered and what presented in the show the patholing and composing instalatest and tradeers can find resonance. There is a historical containing between white we are doing and what greateristics of Nethermalith had to do its order to survive the caloris statistics of a low giviters on an island card in the Neth Alland (Court. There are commany connections) with proper like FEASK.

Newfoundland Food Security and The Organic Farm. The program holds all that within it, showing another way forward which embraces diversity not only in the garden, but in

the manner we approach society itself. The task as an educator is not to become bogged down in despair and grief. Instead, one must always be ready to point out where opportunities, diversity and hope exist.

"The finalmental elucation task of our firms is to make the choice for a summarke global planeary shifts", charges 0'Suffisses (1999, p. 45). This is a critique of the manner final contemporty shadnois, and society, operative shifts," As this historical moment, about all education institutions are guard travely to making the aking strangest of the strangest of the communer industrial places of the training Consonie period" (1999, p.47). The guards and compete program methodes the Ecositie, the operative strain file on and strates the Tase outwards industrial places of the terminal Consonie, the is commensers placed and non-exercises the abustite file is commensers placed and should be and and none resources to be extracted to produce produces which are holinged to be trained or strates which when the commune should be abused to the operative industrial place of the terminal Consonie, the is commensers packed, should not and and none resources to be extracted to produce produces which are holinged to be trained and the place of the terminal Consonie place is and which receives every heat produces the stratest of the place of the stratest which receives every should be placed to the stratest of the place of the stratest which receives every should be place of the stratest of the place of the stratest which receives every should be placed to the stratest of the place of the stratest which receives every should be placed to the stratest of the place of the stratest which receives every should be placed to the stratest of the place of the stratest which receives every should be place of the stratest of the stratest of the stratest which receives every should be stratest of the stratest

Our program was originally concerned to leasen or evolvaged impact as a solid commainy. It has periodid audiom with propertunities to see and understand the work indication, by monghan hands on learning. This learning compliance, more the detection from, the mutated provised correlation (on Chapter Free dense). Helinic electrons attempt to rose elucation is an ethical memory that goes beyond the broken markered or loss tools you is ables solvenass. where the instrume attempt part of one another '(O'Sull'au, 1999, p.64). In helping create this program Hars witnessed statelers mutated toops of initiation and adulta basebudge, moment of granine formity period and explanteed and why heigh thand, the trips on with the year for the trip yo im

such menners, where the lowerlapky in its role as a coret seeby plotted from the soll, it is as menter of such performal cellarly where before corycling hash been multical that one or one enryical possibilities durating tunnilizing transmission. We had no lokal fargers of the same along project we were ventrating into the subsecs. We had no lokal fargers of the same hybrid else, that mostly have were undersking. These was can, some of rejection that may bring else, that mostly have were undersking. These was can, some of rejection that may bring else, that mostly have an accultance of the possibility, which habited just below the surface and layer the momentum milling through the sensity in millings merily and the same of the transmission of the sensity of the sense transmission that may bring to include and million the order outside the oriclement was unstalled for thomas main the thready-tools and a deposition and and of sum diversity...modern humans find themselves of any is as well of result of the softward terms of the transmission of the "O'stallivan, they pay 10%).

We've take constant with the nutural world are see calculate human achievement alone, without recognizing the value of what the world human failed on the constant methyl billion of system (Deny, 1988, p.151). This muldies the picture, allowing us to ignore issues, which are the result of all our attachmat successes, that press investiging upon our prophenyl winner - dismate change, soll evolus, animal extraction. These threatens the beauxy. If and the vary 'statily' of each. They single such opportunities of the education jubic constant of the system of the system of the system of the the education jubic constant waves into a multi-layered, multi-dimensional world instruction on al significances" and its into the System (1998, p.64).

Clayton Brascoupe argues that for those who immerse themselves in a relationship of give and take with the land, as farmers do, "the land begins to speak to

them, the pitten length to them, And they (finemal bacies in these." This is the theory, the pittent pittent bacters Abder they imparing networks one how children that they might be suminated (Unidatese, 2006, p. 15). Steing the land are provider and instructor we should pitter our relations in the time of the provider and instructor we should pitter our relation the simple. O'still true mitters that through the extain of anticentarily are regime. O'still true instruction and society becomes appenent which mengations a two modes openents in the densition of the factor, We must recognize and be accountable for our responsibilities in the problem of the factor, We must recognize and it for address the their value. This is "the finalmental exclusioning compared and life address their value. This is "the finalmental exclusioning committees on the time 'CH2."

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#### 2.3 Critical Pedagogy

"Love forces us to challenge ourselves in building community..."

# bell hooks (2003, p.32)

The Buelline advantional philosphare Public Priver comments that effective transferiors may the use of privers, which downshow action brought or do from relations. Theorem philosphare is using priver by severing used, watering the philosphare and the philosphare is used privers by severing used, watering theory and reflective approximations of the severing and theory respectives. These anti-selections are selected with the philosphare respectives. The advanced on the philosphare is a severing theory of the philosphare respectives. The advanced on the philosphare is a severing theory of the philosphare to advance to the philosphare is a severing the philosphare is a severing to induce the displicit back three may be provided a schedule, but where the philosphare is a severing the severing the philosphare is a severing the philosphare is and advance that workd. By working on the parties of our tilt be being any previous the advance advance that the isomet of the philosphare that the heat of the philosphare is the down philosphare isometry of the philosphare that the heat of the philosphare is the down philosphare isometry of the philosphare that has the other philosphare isometry of the philosphare isometry of the philosphare that has the philosphare is and advance that the severe isometry of the philosphare that has the philosphare isometry of the philo

CA. Bovers ontends that Fried add's på de encogda his locidique of the oppression in due world. Bovers' extending in the Frier's approach relies space reliefs addresse atom to inform change. It us solitate jirtier som consequipiel in the oppression of shose he settembly sought to help. Bovers argues that while Freier constructing by argued against the manifestation dense mid-minifer addresses that be the freier constructing by argued against the manifestation dense mid-minifer addresses and the solution ware inclification and programsize. That is, he was still speaking of change within the priors of individually Votento adacution. Thus, Frier's argument to real oppression in finativitication and the construction dense in the solution ware memory left the middle dense domainstan cubes. In which we memory the historic dense memory of the solution of the domainstan cubes. Thus they due commons, the institute dense by the prior discolation of the solution of the solution ware to the discolation of the domainstan cubes. The wing the commons, the institute dense by the middle domainstan cubes. The wing the commons, the institute dense by the middle domainstan cubes the wing the commons, the institute dense by the middle domainstan cubes. The wing the commons, the institute dense by the middle domainstan cubes. The wing the commons, the institute dense by the middle domainstan cubes. The wing the commons, the institute dense by the middle domainstan cubes. The wing the commonstant best the distributes the solution with the institutes of the solution of the solution of the solution the solution dense the solution the solution the solution dense that the solution dense the solution dense the solution the solution dense the solution the solution the solution dense the solution the solution the solution the solution dense the solution dense the solution dense the solution the solution dense the solution dense

menting point of the human and name wolfs, and herbasis of our detachistical systems we, "induces local culture by default", Learners and seachers are then mechanism a local energy of the second second second second second second second contributes to the orientations of the intergenerational knowledge that empowers pargle<sup>12</sup> (2006, p. 156). Hereins we find a multitude of exposures to the oppression in pargle<sup>12</sup> (2006, p. 156). Hereins we find a multitude of exposures to the oppression in the knowledge of encoursons differ traditions. Such realistics, in a 58, 34 hort, Novelearding encourse, might include pickup benetics along September second when the behaviorable at a their sevents and a whole the participations are coming in 3, 3 might also include the munitidity would be of the participation second second second second second second endowards for the atom reaction.

As they parkers the gashes and compose project, both Frier's sparsa and Bravary' promotion of the common help us one that or avoiry melline from a makely of right. We are beinging by the expirit of phohlication—routh. This heady, have merged as not contribute to the well being of our society. Through practic or experience, reflection and action to doubtain can use recorption the harpension we lamplash and ref. "Hottmin the exercises of doubtains instanties the excellable of contents, with the lacological instant of induce/training there as the parent share the excellable of common experiments, reflecting before as the gasew suches and stakent engage in a dultage well are dreamed as the excellable of comparison of the commons touches and stakent are dream in the successful projection (Tap possible). The commons the tour and the are dream in the successful projection (Tap possible). The system there are distantioned are dream in the manual systems the main the possible. The systems there are thereas on the distance experiments and the system is and a system of the there is the there experiments are also been to the other there there are distantioned as the there experiments and the system is the system of the systems and the distance the distance there are also been there and the possible. The systems there have been to the distance experiments are distance and the distance the distance that the distance experiments and the system is the main and the system and the distance of the distance theory experiments. om the comparison pair density of the world (Bowen, 2006, p.62). Through persion and the communes see can estippe the status goes and field alumnities ways to engage with the second Within our pergenes we concert yould to commanity genetics and delises like Mark Without and Marka and Marka Balanousky, which receptance compares and the second integraterational knowledge bosomes an understanding, a relationship, between seconds and and the constraints of and ones backets and the world around are (Dowers, 2006, p.91).

#### 2.3.1 Praxis: Examining Paulo Freire

Their further work was paided by a professional enses of lighting at the dominant colume, and a lowe for the world that purpoled a citical optimism wherein change was based. "Note existing each other through the modulion of the world, can than any bit own, work or a man the world? (1921, 297). In semilgre to antenness of lawlys, altoways and lawn to also experiences, we achieve a memore of clarity. Stability of each each each each mey may be approved the connections of the drive for each." They do not include encryonic, regime in the semitation as a advance (Edge) and each each work which have the source and an each each each encryonic profession and each enclarive sementical. They do not include encryonic, respective encould and the world and in many connections within them. Diversity for an arguine former night mean a interver of experime variables the encryonic and the diversity of the source and the sequence explained and the encryon encould all diversity and the same and the sequence explained and the encount of the 1 histomane works, the cancels with it ways different mediations of the explained endormer. However, a history matches experiment, educations of the cancel endormer, there is the second and the experiment endormers in our the dimension of the endormal endormer endormers.

only a linear model of advicement, pitting the opproved against the oppression and vice verses. Diversity in this light is used only instant as it helps attain particle. Opproximin happens because we are not allwaved to have other understandings of worked list diversity of the definition which allwaves for the continuum of the statuse que model. For economic profit has not necessarily ecological haltness, is allwaved to be taught. This definition<sup>14</sup> hardwork those within it and diversity acts to substrange meth's [sic1] consentionmeth<sup>16</sup> (17), Pays.

For example, industrial agricultural practice has embraced the martra that bigger is better. The film Found lace shows how the rich farmlands of the American Midwest. once home to a multitude of mixed farms where vesetables like potatoes, corn, tomatoes, carrots and cabbage, fruits like apples, peaches and cherries and animals such as nios. cours and chickons uses miant and search have been condensed and downsized into a few eron-specific farms. Specifically, such farms erow corn and sown because this is what the market dictates (Kenner, 2009). Yet, to be sustainable, aericulture must embrace diversity, become part of a living ecology (Myers, 2005, p.83). Our society's reliance on a few crops, designed to garner the maximum financial return, means a dependence on chemically derived fortilizers, of elasts serviced with a best of nesticides, insecticides and herbicides to keen competitors at how, to insure a good crop. But in such crops "there is an increase in the water, sugar and protein content of the plants' cells, and a decrease in the call wall thickness. In other words, the plants become obese and frail. As a result it is much ensier for sucking insects to renetrate the cell walls ..." (2005, p.85). It's a catch-22 for farmers who don't wish to harm their environment but have to make a living. By ensolativing in one cross groups with the latest technology. Summers become more and

more dependent upon the industrial machinations of agriculture. The multitude of products designed to make farming easier eat up instead increasing amount of time, financial and community/ spiritual resources.

"The more the furmer increases the scale of his operation, the more his body and spirit are dissipated and the further he falls away from a spiritually satisfying life." noted Masanobu Fukuoka in 1978. While small-scale farming appears primitive, it affords the farmer time to contemplate, to know the land and develop traditions which work in harmony with the land, even offering the concetunity to nen a few kalky in recomition of the fulfilment the farmer achieves through harmony between work and play, nature and human needs, in life (Fukuoka, 1978, n.111), However, even in Newfoundland and Labrador the attitude of bigger is better has taken hold. Hilda Chaulk Murray, in Cowy Due't Know h's Sunday an examination of farming life in and around St. John's notes that "because of the shortage of suitable farmland, farm size tends to remain constant, There is no room for expansion" (2002, 263). At least, not of the kind that would make Newfoundland agriculture competitive. Therefore, Newfoundland ships in potatoes, carrots, apples, turnips and lettuce - all of which grow very well here. This is to accent the status and pastern as the endroiet for Newfoundland farmine. Three has been little critical examination of either industrial agriculture, or of the society that condones it here in Newfoundland.

The program beings all of these issues into sharper focus. In growing produce we are aware of the living coolegy which surrounds us. We name this work, and make it part of our knowledge. We can see the imbalance of a world helolden to the market for its doed, rather than to the people who grow it. When we grow teture using our compost and the start of the start o

soil, our labour, we highlight the expense of Emace in the grocery store shipped in from California or Mexico. Our lettuce is not cheap, but it is more matritions and states before because it is locally sourced. We pick it and within the hour have given it to the food hank. We can see the gratitude of people who wish to eat healthy food but cannot afford it.

Freire speaks of banking education (1973, p.65), and there are parallels to be made between opposing it and the our program. In banking education the teacher discenses knowledge to those students who believe that what the teacher is saving is true There is no more in this system for critical dialogue, or questioning of what the teacher says. The teacher knows, the students wait to learn. It is a relationship of linear oppression. In our society we have bought into the idea that food is running short, that we shall need a miracle to feed the multitudes. Companies which create hybrid seeds, which promote industrial aericulture, arene that industrial aericulture and its attendant side effort of monoculture cross which require intensive water and oil resources is the only way to stop us short of this calamity. Leaving aside the fact that we arow enough food for compose on the alobe today to ant their fill (Kauffman, 2009, p.33) we must recommine that those who would supposedly benefit from these new technologies can rarely afford the costs associated with them. The needs require streavy. And the grain may not be altozether as healthy as an organically grown seed. Either growing such seeds alongside the host of arrays, or of the finished area product (Pollan, 2008, p.125). In investing our trust in such companies we can see that we are complicit in a societal wide system of banking education. The commanies dispense knowledge, via corporate advorticing, for those who will listen. Silence, in this case, is commission. "Oppressors use much and

magics to creat a spell to adjugate the expressed..." (Feiner, 1975, p.44) which if not questioned cannot be broken. This, Freire contends, is an act of violence because the set of capacity about the weak deletion of the set of the set individual even should off. This renders human as objects, tind to the knowledge for the three individual, p.6(b). It is through dulugate, wherein we speak the wead that a critical examination of our social contents, triading standards, provide.

## 2.3.2 The garden as the commons

C.A. Bowers charges that Freire's critique of society was good, in as far as it went, but limited to seeing, "change as linear and progressive" and that the only means of

opposition to the same pare was through articula impact (2006, p.23). In a truly original cananisation of education and society we must embrace the binteriod multiply of her anomans<sup>10</sup> are ongoing education by between solutional practices that that articular data bits and the annual equences that make it for possible. "We find within the construct the early surrounding flows and dimension between our squares year field communities. Firstly: Since reproduction to use carrow our squares year field and communities. Firstly: Since reproduction to use carrow our squares year field and the solution of the theory of the solution on the solution of the

In a Needendardiaced context were true to Hilds Memy's competihenistive book on finning life in and answed 5. John's. Net closed her book with the lime "whice lifement that familiarity and a good life, the mild of working memory and about any possibilities traditional families might here for the present day (2002, 7-244). More coppered Needendard families might applied packs, a trainip bed interpreted with explored the finderpace and a possing and as, a trainip and the interpreted with opposed the finderay meets. They were not huge endownews but multi scale guidents which acceredies associated finding. These guidents were in term rewindland by the competition accesses the finding listers brief both that the respond smally to reserve there

Indexent tant, By working a small pior of land intransity, which diversity of plant crops, linesg patients and famers seen if a more arour of both which worked but were depieted of matterns they had to begin the labour intransite work of digging up a new gathen. Tooky we understand that such small-scale gathens and farms are by far more efficient than industrial farms at providing more produce probetour because bottom were interpreted with compositions on the providing more produce probetour because bottom seense interpreted with compositions of the providing more produce probetour because bottom were interpreted with compositions produce and anticed. Others, 2002, p. 1913.

This is what the St. Bonaventure's College garden and compost program provides. It is a continuation of the small scale eardening of vestervear, albeit growing some new crons like kohlrabi and tomatoes. The soil is nourished by our composting program. The SBC mades and compact program programines natural limits as expressed by Bowers. " when the values and practices of a culture exceed what can be sustained locally and it turns to exploiting the resources of others it may insure its survival over the short-term but unsets the commons leading to societal unrest, unemployment, local environments and intergenerational patterns disrupted..." (2006, p.36). In his essay Freire's Contribution To The Crisis Bowers contends that one of the means to address the emerging crisis' of climate change, soil evosion, finite water and oil supplies and the failure of our educational system is by "conserving the traditions of noncommodified knowledge, skills and relationships within minority cultures, as well as reconcrating the man attenuated noncommodified traditions within the middle class" (2008, p.143). Community ourdens. like our moaram, mostide not only neurishing venetables but also stronger intergenerational relationships. They depend on the knowledge of elders to help show the relation between seeds and soil, how to properly care of the soil. "The

interpretational knowledge of how to prove and prepare bods in ore of the root proming expressions of revisione to the industrial market, as well as to the characterial forces that are underningly-collective memory how to maintif the common<sup>24</sup> (Bower, 2006, p.145). Traly critical education demands a social shift which incorporates on only what is both from manus society, but share all the best for full and include the world at angue affault, and angue and the root were collected.

Yvon Chouinard, founder of Pataronia Inc., and itinerant climber, kavaker and surfer is someone who revels in being in the outdoors. He has witnessed, firsthand, the devastation we as a species have visited upon the world. In Let My People Go Surfing Chouinard contends "I'm a total pessimist [about the environmental share of the world] because I see no will in society to do anything about the impending doom ..." (2005, n 187). Notine that a bushel of torseil is wasted to grow a bushel of com on the modern farm tied to industrial means of production, he muses on his time in South Korea as a serviceman where "I saw farmers pouring night soil on rice paddies that had been in continuous use for three thousand years. Each generation of farmers assumed responsibility for leaving the land in better condition than when they took possession of it" (2005, n.191). Adrian Myers furthers that in Chinese society everything was recycled and composted , from human and animal wastes, to old clothes and straw, to restore and nourish the soils that in turn nourish the people (Myers, 2006, p.38). These were efforts to stay in communion with their surroundings. Knowledge was passed on from one peneration to the next, always with a responsibility to the generation yet-to-come.

Wendell Berry charges that we must always remember tomorrow's generation, and the generation after that, in all our decisions. Particularly decisions as they relate to

the long term viability of our babitats. "The only neighbourly thing we can do it to preserve their inheritance: we must take care, among other things of the land, which is never a possession, but an inheritance of the living, as it will be to the unhorn" (Berry, 2002, p 297). The resilience of such notions among noncommodified traditions is undercut by modern education contend Madhu Prakash and Gustavo Esteva. Through classroom education students miss out on the "rich and complex set of rites and myths that give life to traditional agriculture ... " Schools espouse liberation from a life of such hunden, buowed by scientific reason (1999, n.9). But science is only the human rediscovery of what Earth created billions of years are (Berry, 1988, p.71). Culture then, derived from the land cannot be condensed into a classroom. "We know that the lived pluriverse - of spoken vernacular tongues, of feasts and flavours, of suffering and celebrating - cannot be reduced to information. It is too rich, alive, and vibrant to be keyed into memory hits and bytes that run the educational industry today" (Prakash & Esteva 1999, p.10). This is a profound critique of the modern educational system which bounds well beyond the score of this dissertation. limited as it is within a school and classroom community. What is important here is the contention Prakash and Esteva lay out that only analysis with acheel knowledge can offer a good life. There are other ways forward which respect noncommodified knowledge and tradition which can be placed within the contemporary educational/corricular prism.

Bowers, in *The Culture of Denial* notes that there are strategies to bring traditional knowledge into schools. "As environmentalists become more aware of the connections between the high-status forms of knowledge being promoted by our educational institutions and the equatation of numeral systems, their attention will turn increasingly

to the dataget of characteristic fields (1997), p. 1999. There is metric in charactery, literature and biology of their senses. But in styping to find instands to a common ground where a matinable excitency in the end result, it is characteristic with them the left softworver our traditional limits of regional stantisheliky. To do so effectively we have to do a better job of bringing the different subjects together so that standant, and attacher, can see each limits and work to be place accelong stantisheliky. To show the explicit however, they is presocialization involving a constant interplay between the explicit howeverlapp the in being introduced to standents, and the background calutaria understandings that may be taken for standards by the students.

It is providing their produce to generate capital and the lower maps of the accidenconstruction that pandom and compart programs at SHC constructs their stry providings of the modern pacifications enterprises, and stress means employees the stress distances and the stress of the stress stress enterprises of the stress stress stress mainter resources," were only "", and stress stress enterprises the stress stress data for stress," and stress stress stress stress stress stress stress data for stress," were only "", and stress stress stress stress stress stress data in stress, stress stress stress stress stress stress stress stress data ratio consult," were stress, "", and stress stress stress stress stress data ratio consult, "were stress," and stress stress stress stress stress language and mutipless our exhaust have for granted we logies to question "weakinglicidy domencies chandral platems, and panses to be next generation the brain data stress data stress data stress stress stress stress stress stress stress stress stress data stress data stress data stress data stress data stress stress

2.3.3 Bringing together praxis and the commons

Paulo Freire felt that dialogue was essential to counter oppressing power (1973, n 20). Ressures notes that "fearning to tell stories and he an active norticinant in prowing and menoring food. knowing how to utilize local materials that take account of wrather natterns are learned through mentoring", which is intergenerational teaching and learning. helps re-establish the commons and provide a viable alternative to the hegemony of alabalization (2006, p.161). Contemporary advestion doesn't do a very good job of dialogue as Freire envisioned it or of critically examining stories." Diffuch of what is offered in schools is momently forvotten. In part, this is because the required courses are not designed to broaden anyone's interests but to provide another highly specialized view of a different discipline." Students go through the motions of learning material for which they have little to no use, and therefore cannot see any reason to retain beyond the next test. Wouldn't it he better, charges Noddines, for students and teachers to be brought together to find meaningful points of access to course material that resonates with them. This note a kink in the usual testing exploration because "use do not expect nearly to remember the sorts of facts that usually appear on tests. Then perhaps we should find a different way of evaluating" if meanineful learning and retention is what we're after (Noddings, 2006, p.23).

Through the compost and gather program another way forward in discumslik, efficing grounded lessons that peak to a stantianble finture which are be linked to the concisional nece Chapter Price Jish that sees way cloade st student conflect compose. Other students till the land, plant the reads and sendlings, weed and water the land and harvest the produce, in the process we all alians that" pedhaps our more precision and vial records, the dynological and anythmic link communities mattering which we scretcely

even notice and sometimes call "dist" but which is, in fact the mether-lode of terretrial life and the parifying medium wherein wates are decomposed and recycled, and productivity in regmented" (bill, 2002, p.22). Such a viewpoint comes from an educational dialogue between learners and teachers, the hand and its community of life that commisses reliand with three our work.

### 2.4 Place-Based Education

"...We must apprentice ourselves to an experience of place, if place is to become our

teacher."

### Brian Wattchow (2007, p.236)

This exection indica at the works of Devici Generovali, how were any place-based extention and its connections to extircial obtaintiss. Here we find an articulation of the importance place exhaustion can have for statusm in their commulting interactions with the work, as protect and preserve its for fittering methods and the commultary interactions of the interaction place transmission of the place of the device place obtained in context, the Normagian emerged of plaqhilds, or Phys. Res. The article and the based on the interaction of place and fuel lessons apparent wholes the abole abaciestics, thereagoint emerged of plaqhilds of the Mitch Mathal Context's and of the abole and fuel communities streng along Diply Nicel, on Nice Schrüft Plany contilies, of their interactions with place and its meetings for elaboration, strenge and constructing its toor papied's neares to being place book in the foreer contextuant, thick and black poople from the place of commergency solving. However, its measing the topic of the terms of the contextual and bioincit contextual which and black poople from the place of commergency solving. However, its measing to the terms of the terms of the contextual and bioincit contextual which and black poople from the place of commergency solving. However, its measing the terms of the terms of the contextual and bioincit contextual and which and black poople from the place contextual were the term of the terms of the solution of the terms of terms of the terms of the terms of terms of the terms of the terms of te

grounded somewhere, in finding resonance in the world because we recognize our place in it. Herein lies the purpose of the garden and compost project: to help students locate what in this place is possible - for them and their inhabited community.

Intimate knowledge of places, their temperaments and possibilities, are known where people still live in working harmony with places. Fogo Island is just one such place. In the summer of 2007 my wife and I ventured to Foro Island, share nine rocky, shoal-stream miles off the north-cast coast of Newfoundland by the retreat of the last ice are. My wife was studying the island's cultural heritage. As part of her work we were invited to attend the annual mass on Little Fogo Island, a further six miles across from the community of Joe Batt's Arm. At one time a thriving community of four hundred, largely employed in the cod fishery, today it is home to a handful of summertime residents. It was a calm July day, the sun high in a washed out blue sky. We rode the six miles or waters barely rippled by any wind in a newly made trap-skiff, once the heart and soul of the Newfoundland inshore fishers. The refurbished Acadia engine pattered in fickle opposition to being worked so hard after thirty odd years of accumulating dust in a store, and consequently cut out frequently. A salty-lipped fishermen, shrouded in a perpetual cloud of cigarette smoke would squeeze his sinewy torso into the narrow confines of the engine hold to re-start the motor. In fits and starts we made our way across, the frequent breaks just another opportunity to enjoy the day, the sun strong across our faces as we bit into another slice of homemade partridgeberry lassie tart. The sermon was carried away on the wind and I was imagining my explorations of the island. The leisurely nace the trip over had fulled me into a pose of relaxed, come-what-may quality to the days trip. I made ready, after a lunch which included still more pieces of tart and sandwiches to explore the

island. I was aware that the men - largely ex-fishermen - had congregated, but I thought little of it.

Write going, I was told as I crested the first hill, my wife waving me back. Indeed, everyone seemed to be on the move. Picnic boxes were being hantily packed, carried down rickety, grying sprace-wood ladders to the temporary fleet of boats that were docked in the manow confiles of the harboar.

Surprised, I inquired why.

Beneric emailing, some the surveys. Though I spatiated acrows the Linkole's Set I. and cals considing more somes than its dw onkstore site of the bubbles link. The simstill show bright is a brillaudy blue day, that I was there at due bubbles. The busbles is the busb. The wise shall be day and a sec constit the surveys of the bubbles. The bubbles the busb. The bubbles of the bubbles of the survey of the bubbles of the bubbles of the bubbles. The bubbles of bubbles. The survey of the bubbles of the bubbles of the bubbles of the bubbles of bubbles of the b

To have a place us well as to see a storm coming from the minufaci of elses offered has stude, with mic. Charly, these were near who had generations of knowledge, as well as their own experiences, to build apper, body with a web knowledge anymore as a society because there is no economic merit in it at first glaces. Due took knowledge forsters 'n some of cohard nepossibility 'ns one's inhibited glaces. There are have here detects, a Ne-fordpather and a Canadian with whose or localitor near to us and

find through such discoveries, "forge more ethical, reparative attachments to place as a practice of renewal and hope" (Kelly, 2008, p. 85).

In heroming more confirmable with our building hopefully were can field a way forward where we can restrong places an maningled interactions between human list and the narrard world which moreouch as. That is do so we need to make place part of our schularize manufact. This is not text access measurely the use are wereled about, but the visibility of our communities and places for tomosov's generation. "Place based doctares do so of similar to the text score manufacture of the text stop of places can help increase induces tempagement through multidinciptionsy, experiential, and intergraverational learning that is noted processes the potentially constructives as schucture and malatom is experimente of places when its they correlated users and and the intergraver of places when its they correlate to the schular and malatom is experimente of places when its they correlate to main polagoging that rates discuss of places when its they correlated uses in a polagoging that rates discuss of places when its they correlated uses in the schular of the schular of the schular das the improves the quicity of this for population and communities" (Owened, 2000, p. 7).

As these for make, if education does not explicitly promote the well-being of places, then what is education for (1992, p. 31)? "Beam: civilization emptied on the end has a beam. But is non-pulphyle viciotis that ringin tangement and of the end itself. A would that takes in environment seriously must come to terms with the roots of its problems, beginning with the place called home. This is not a simple-minded return to anythical part to a patient and disciplicated effects to have, and in some ways, to retorm a simplical part to a patient and disciplicated effects to have, and in some ways, to retorm the same of calutations.

2.4.1 Locating the garden.

Pine-based chardon is the communitors which huttrenses the clust fromes comined in this dissertation. It is understanding place and the role school have which is equal to large velocity of the school have based on the based on concluses and our address manifestimation of the present set of the physical framework of the "cosmological storp" of O'Sulfaton and Berry helps as a students and tanders to become saves of the world school is were thelps as a students and tanders to become saves of the world school is were another the experiment of the based school is and of the students of another the experiment of the based school is and of the student on the physical school is become saves of the world school is were studed at another the school world for the transmission (Goursensld, 200, p. 6).

Mut Dudy and Dudy is body rung: *Pino-Bund Taulor Advances* examine the pice can enhance used and value rule methoding of the enrichment, and shapes the bandwa's appreciation of the imaginative possibilities inherent in place enhancement. "Resolvedge of the searcest things headed by acquired first, when the of shows faster of intervention of the searcest things headed by acquired first, when the invest intervention of the searcest theory and searce theory of the importance of connecting the carriculant to local places and enalopsis, whether in social statiles, science, literature or multimutes (see Chapter June). This special highlight the statiles, science, literature or multimutes (see Chapter June). This is supported by statistically "Orbord & Scheke, 2008, 7, 37). How the case was fulled heilts between the lack of families to low special" "The more that printing science, encoding, elsebolish and religious low special". The more that printing science and the challes between of the glachild to day special. "The more that printing science, elsebolish and religious low special" them the special place the greater the sense of community" (Theohadd & Science, 2008, p. 2016).

Pine-based educition does not, however, come withour problems. Taken down manipal lengths, place can becomes insular and we become found of outsides. This does not and the Neuralina generacity and the most horthying discrimine of placeand ethnicity-specific education, taken to fordir extremes. Such extreme examples are tempered by the knowledge that when place-based education into of education as usefully transformative accurate to more the pelagogical mation of education as usefully transformative activity of the strength end of the stre

True, however, we must have number operations places. Revel P1 for commula in this ensety No CMLI [cd hould we, "summ they which there Will have to how place without even in NecodomIant apocifically, millioning through ne existion on experisons where there in NecodomIant apocifically, millioning through ne existion of experisons where forgetters" (2004, p. 123). Children and tanders must be allowed to develop a corricolum of the endown. This demuchs that we cartically accurate the moders have been set dimed, the children are better operating in the View multi beause they are hown on uning, the children are better operating in the View multi beause they are hown on working the tand. The experiments must be associately, equivalent and ouropest programs in this light becomes a secondary, equivalent and or working the land. The exploriming the secondary perprintery, focus for the structure. The problem is the in allowing for such experiments there are an understanding of the land, perlays even we, which helps shape their apprecision and or or of their tables.

# 2.4.2 Gardening as friluftsliv

Here then is the place for frilafisliv, a Norwegian word translating roughly as Free Nature. In short it calls for people to interact with the world. Aage Jensen in The Value and Necessity of Tambling and Fambling reminisces about a childhood spent "roving around in the woods, wandering in the mountains, skiing or skating, this was our way of livine." In such daily interactions with the wider world it is impossible not to glean some lessons, to "develop a unique awareness of nature that endows us with attitudes towards life and the norms of behaviour. This wisdom is normative and 'tells' us how to live with nature. It is more important today than ever before to eive neonle (both young and old) the possibility to tumble and famble through frilaftdiy and through the provision of nature as a 'learning room'" (2008, p.103). By interacting with the natural world we recognize its beauty and enter into a relationship that is physically, mentally, and spiritually fulfilling. Climbing a granite outpost in the Rockies, hiking up a wooded mountain or living outside, subject to the whims and viciositudes of nature 200 days of the year (Choulnard, 2005, p. 37) are just some examples of fostered relationshins with nature. In a November 2009 DirthurDiaries podcast titled The Young Conservationists there is a calebration of interacting with the world as farmers, kavaker/activists and environmentally, conscious politicians. What is most polenant is the connection to place and the possibility for transformative ends that the protagonists find therein. The young farmer saw the possibility of starting a farm, but lacking cash, not as an obstacle but as an convertunity. Within months, having sold shares to a community-supported agriculture organic start-up farm she was providing vegetables to neighbours, family and friendsnew and old (Cahall, 2010, dirthagdiaries.com). Thus can a garden connect and sustain one to the natural world, be part of *frilaftilly*.

Place-education, counsels Brian Wattchow might just be as simple as "being allowed to be in place", to listen and see the possibilities and limits inherent (2007. p. 245) Molly Ames Baker asks that no matter what our activity in place that we be "actively engaged with the land because it becomes more integral to our experience. It is through nurroseful consideration of our relationship to the land that we develop our own ever-evolving personal process of coming to know a place" (2007. n. 250). Bernard Schofield's whimsical A Miscellany of Ganden Window represents then a collection of accumulated rhymes, somes and savines that together rereasent millennia of human understanding of the soil, seeds and the complicated miracle of growth. "Harvest time' has been rendered meaningless. It is our loss that the natural rhythm has been broken ... " (1991, p. 43). Lost too is the understanding, born over time of vegetables and their affect/ effect in relation to the world around them, as summed up in this short poetic ditty: "Onion skins very this, mild winters coming in. Onion skins very tough, coming winter very rough\* (1991, p. 47). These phrases have become nothing more than quaint folklore. speaking to a next wildly out of teach with our respect. When we enpage actively with the land through the commost and earden recoram, by neurishing the soil, in planting cross weeding and harvesting we are embedding ourselves within place as a teacher and valued numbers. We come to know it better, to value its commony. This is the true meaning behind friluftsliv.

2.4.3 Listening to this place

Mikhad Cabath's book Landrage to Landra in provessive counter augument to the importance of place accordination in this dimension. Focussed on the correlection of schools and community's in Cacherl's research into education and employment, neurly fibiling, according in the second Digb by Second. Much life they shall be and huming on the least. Their person, book working the water and markenis and huming on the least. Their person, book working the water and markenis into the least. Their person, book optical, from where they much their includes of much heavy of the sease, shalp schedule care utilized and then to the workin that can a similar automatic according to the sease of the book on boars. Also that were nece assender and existential by locations and a sport on a scheduling and meeting. The shares the meeting schedule by locations and a sport on a scheduling that person that the meeting schedule by locations and a sport on a book of the sease to show also shares and a scheduling between deschering and the people of the fiber base kinken from a purstratabent foreigness.

"Educator: These kids have got to have a good education so when they get out of here they have some choices...

Fisherman/Parent: What me and Contrad (another fisherman sitting beside him) got is an education in life. We learned how to work and how to fish. We're educated people, it's just we're not educated in the eyes of the school..." (2007, p. 32).

In trying to survive the single-minded purpose of the global economy - profit - the communities of Digby Neck and the mamer in which they interpret education, in school and in place, has changed. Large travelers do the work of a accore of muller boats. People have been forced to move away to find work. Teachers themselves have been complicit in resenging the importance of place to address, as this former structure methals. "I members some of the trackens talling about other places and musing it somed webby exceeding and soliding us ford like Digby was the betterm of the heating, your benefits the dimensionly solence and thing important was going on B parket treves it was all general to griting as to think about solence we're going next years and what you're going to do next year. I sound'p poing to be embraneed. I waven't going to join step heat. It wave't a going and the you wanted a server, a success steep you had to lower..." (Cathett: 2007, p. 2016).

Even for show who might wish to stop on them's the time if the hoing come short, of not reaching one's hill potential, "I hope maybe one day T if he abbe to some back and you who read Higk you and one. J low it have, "Like for good, that I've failed. I man, ther's nothing there for me, just family..." Yet oven while obtained for me fift to expendentiations access it are limited, by the defining pool would' related a theorem if the heiper ductions in their mere events. The short here are back to be the life the expensations have even it are limited by the defining pool would' related to make their ductions.

This is the discharge of learning in such a setting, where the charteris of colocation stunds out a possibility when they can no longe, "your the inhubitisticoprotent findary so somain families into the time. It is also show you bene visual, the schedule, the incomingly it is understood as an accessary. [Plut] contrasted with local alluation filterings contrast durations continued to be precisived and experimentally may raid youth as a set of largely includent experiments..." (2007, p. 247), This second because there remains a cadle of followners who reflect to give is, show rarge by Hensica Herditering contrast and or distributions of the Hensica and the precision of the Hensica Herditering contrast, and the order of "smallfalling accession to findering research on the following research on the Hensica Herditering contrast and the schematic schematic research on the Hensica Accession of the Hensica Herditering to contrast the following research on the following research on the following research on the Hensica Herditering to contrast the term of the Hensica Accession of the mattering the Hensica Accession of the mattering the Hensica Accession of the Hensica Accession of the Hensica Accession of the mattering the Hensica Accession of the Hensica of for endings, compared and compared interests. the threat of quarks, closures. This stack colleges, compared and prostments they used, the loss of land to logging. They due the humstless immenses in a proficiant and longing lange for community survey for the start of the start is much more difficult and complicated than the well-known straggle of gatting a long from the start' (2007, p. 249). This is a familiar starty in Newfoundinal an well, and parallels the starty of dirating, or rather the long threes, across study of the works.

Barry Lonez recounts that, as he erows older he has begun to ponder the "moral relations with what we still differentiate as the, ""natural world," Mostly, in my understanding, equity comes down to listening" (1999, p. 145). In his essay Efferleurage he speaks of Jack, an anagama kiln potter somewhere in the Coastal Range Mountains of Washington State, a man versed in the woods, the clay, indeed the geology of his locality. Someone who listened to the world, who brought it forward through his work. It is, "Jack's allesiance to his community, his regard for physical labour and his preoccupation with the process rather than the objects of life... which makes apparent that he works every idea he has through the filter of local materials, local prography and local people... makes clear that what he is looking for is a reintegration of 'man' and 'nature', something like the conformity between a river and its bed ... " (1999, p. 173). In essence then Jack becomes for Lopez one of the, "local geniuses of American landscape... for whom ecography thrives. They are the antithesis of geographical ignorance... Their knowledge of their place is intimate rather than encyclopaedic, human but not necessarily scholarly. It rings with the concrete details of experience" (1999, p. 133).

Bother Theyer argues thes, "End-or error, humans book and the would japon year mining in fine 1-yeef handling and weeking out of well within it and with the second with the second genes common in most catality a successary return to real-basicguint Moseadqueres common in most catality a successary return to real-basicgenesity of the second genes (Second et al. 1996), we gates the "experiments with the nature of a place to belong who financings on the second et al. 1997 Bill Allows whether his formative copies of basics below and the second et al. 1997 Bill Allows whether his formative copies of basics how one in as part catalities Consider year the second of the dipolal superstance continues to use "We are filter in mostly theory basics, Filter and a second et al. 2008, p. 2008, p. 2008, p. 2008. The second et al."

The paper and compare program counts present to be the cover all for the allocates of earch. They are many. We have easily began to build up our stree of buildings and to this planes. To discover the imperation of a straining and, in folding composite backs in the soil to imarce, in part, that it is nowithed for the conting yare, in part in thanks in the soil to imarce, in part, that it is nowithed for the conting yare, in parts thanks of all its barren of the program of the street of the parts of potons used forgettes above in the middle of a staffsh pands. The studged proved of a potons used forgettes above in the middle of a staffsh pands. The studged proved of a starthen horn in the set soil while steading. The studged more best of a section the study, hypocal and tangbles. The gathen and composite project is a means of accounces one show work. One set:

## 2.5 Summary

The compost and garden program at St. Bonaventure's College was not undertaken with this dissertation in mind. Yet the four academic themes of critical netapory, transformative education, place-based education and sacredness compliment the program, like a hand fitting into a glove. Further, they compliment each other. In critically understanding our world, framed within the locality of \$1. John's Newfoundland, through the acts of andening and compositing any came to see the contrassion our societal distant for the environment, and for one another has wrought This "dialogue" with obvious societal and environmental ills commelled us to at the least want to transform our present direction. Transformative education is connected to specific places, despite its overarching global goals. We are, as Sheila Giesbrecht notes, local animals. When asked to look eccemphically beyond what we can taneibly and realistically be part of, we are stretched beyond our carabilities (2008, p. 26). Hence the adape "act local, think elobal" which brings to mind the importance of place-based advention. Evilophile is monito mother word for calebration our substantion with phase through communing actively, within it. In order to combat the oppression of environmental anathy and disregard we must, as Robert Pyle encourages, let our children romp and explore nature (2008, p. 125). At the same time having students focused on the care and well being of alsots, in neurishing the soil helps students find their alsos within a web of interconcestional knowledge (Rowers, 2006, n. 64). Our students worked with Mike and Melba Rabinowitz and Mark Wilson, who directed their agricultural education specific to the climactic and geographical vagaries of the Avalon Peninsula. It is this trust in children that they be allowed to evolvee and discover the wonders of the world around

then with a simultaneous focus to their responsibilities towards their localities which this program, in the end, attrated onto are attacks, lisheds, to orter tarteen as well. Understanding mach responsibilities allows us to their areatment streamblip as Weaked Boog descelled by, shoring we many gains the daily but new theirs are second minute of water and sam becoming plants, and then gapes. Such minutes imply human regard for one anomading, that we inter it is web being to only for fatter human areatments, but and main appet areat well (2015), 2019.

## **Chapter 3: Ethics and Methodology**

On a wet, grey Saturday morning in late April David Martino and L accompanied by fifteen students, stood in the soney fields of The Organic Farm in Portugal Cove, run by Mike and Melba Rabinowitz. Mike talked in a plain, practiced fashion, as though he'd done this many times before. Which he has, of course. Dressed in a threadbare wool sweater rulled over an untucked flannel shirt, brown cords worn thin in the knees and bunched up around muddy rubber boots, he looked the part of the rumpled farmer. But his litany of grown vegetables suggested a keen appreciation of what this land was capable of: tomatoes, potatoes, onions, garlic, carrots, squash, pumpkins, herbs like rarsley and oregano, chives and thyme, cocumber, lettuce in a multitude of varieties and colours, which spoke of a comuconia of possibility on an island utilizing just three percent of its landmass for agriculture (Newfoundland and Labrador Food Security, 2009; foodsecuritynesss com). In the weeks that followed David and/or L aloneside two, three and offentimes more students would venture out to The Organic Farm on Saturday mornings to transplant seedlings, lay out the plastic black barrier that retained soil heat and promoted seedling growth, replant onions and generally do anything else that needed to be done. Along the way we learned a lot about organic farming which helped us in developing our own garden project.

We had been very much like the multiple protagonists in Jim Fleischman's children's novella. Scedifolis, Set in a desolate urban comisker of Cleveland, Ohio, where a myrital of cultures and personalities bunch up against one another, it is the story of a young Vietnamese girl who, compelled to honour her late father's tradition of farming, wanders out in the dot of rapids to plata lim hoars despite the freque trader traderup temperatories in a story of a story of the s

parbage-three bits across from her approximation. That small gathers becomes a nationness of possibilities for the larger community, start addity by had accounties (intex, club had impainted) in a score start of the larger community, and the larger community of the larger parabing the properturity to simultaneously review their culture, becomes meaningful activities of the enginest and their families. In short, the orderest at stories of the arbufament in Scoolfdor comprises a lade of community expersional flowsph a parabon which is at the heart of what this dissertation is a direct order of the stories made that the heart of what the dissertation is a direct order of the stories made had had necessarised in the store.

This dissertation makes use of three methods in exploring the garden and compost project at St. Bonsventure's College and the questions which ground it:

- What influence can a compositing and gardening project have on a school community's curriculum, both in the classroom and outside of it?
- Could the St. Bonarontare's College composing and gardening project offer other schools a model of working with community partners, local experts and government arencies that they could emilate?

Specializity the methods used are (1) winning as a method, (1) pravits in wrighton (1) on theorempties breaking in a tonig narrow writed may any method. In who researcher and active intrigator of this project, explore the meanings and possibilities derived from the project through writing in their can show write the meaning strategies and the choices of apple and versionizity. Writing and reading door our actions can be part of the effective process that Paule Privet and Japaness. In writing of my cores, as well as donger researchers - are write which is write early my core, as well as donger researchers - are write which is written of my core, as well as donger researchers - are write which is written with the limits trut - the main day method researchers - and the short is writen of my core, as well as

memories of action and reflecting through my writing in what they may mean. In this way praxis is part of the method. This serves into ethnographic storytelling, wherein meanings drawn from experience are brought forth through my stories. In story we find common ground. All of us tell stories (Connelly & Clandin, 1999, p.135). Stories are, notes the Patanonia advertisement. "the fabric of our shared culture" (Caball, 2009dirthandiaries com) meaning that we can trace out common ideals and values within the stories we tell one another. Ethnoeraphic writing is here understood within the definition provided by H.L. Goodall (2000): "creative narratives shared out of a writer's personal experiences within a culture and addressed to academic and public audiences" (p. 9). Ethnographic storytelling allows my experiences of the garden and compost project to be presented in as accessible a manner as possible so that we all might find common eround in the shared fibric of human experiences. Finally, as in any research which involves student participation, there are ethical issues which must be explored. Of primary importance is the students' anonymity. As a small school operating within a relatively small city complation there is a risk that students may identify themselves within the narrative of my shared stories of the revised. However, no student is sincled out. Instead, their voices are blurred behind grade levels and my own interpretations of meanings derived within the project. I would have preferred to have made the students more visible. but because of confidentiality issues, this was the best method available to reesent the story of this project and help make sense of it, and its place within the world. This chapter closes by looking at ethical issues in this program and specifically, this

## 3.1 Writing as Method

"When we view writing an anothel we experiment "insupport joint", how se "word the world" into existence" (Educhtions, 1999, p. 921). In doing say, we challenge and another station model of which, "succhanics scientism" which readers, "stuffilof qualitative writing that is simply not interreting to read because adherence to the model anginess writen to allower their own view and to view therefores an communitum" of the present write. The dra perturbation bars responded with personal silicate to the quantities of "How do se part construct way and work the state with that consequences" How do se part construct and with that comparison and with their consequences." How do se part construct we are which with the state of the state trick on the "sections" sections (Sections (Sec

Barne discussion and water were beyond the "tug" according to the interdepictively and two dimensions water and the discussion. These the interdepictive and a solution and an exceed the set of the transformed and physical and assolut, and the melop lease for any set of the set of the discussion of the set of the Roman Carlodic Carlosh, "we demonstrate any set of the set of the set of the Roman Carlodic Carlosh," we demonstrate any set of the analysis caracterizes and an adjustices. In these we set of the sector meet the method with the fiding the set of the set of the set of the sector meet the method with the fiding the set of the set o

method to present information so do we remove any vested interest and stories of participant researchers. In addressing this issue, I use writing itself as a means of inquiry wherein texts are made vital, can have an inpact and, perhaps most importantly are accessible to a wide readership.

Such stories are moted in places. It is often easiest for us to write of our known localities through our experiences thereof "I oralism allows students to evaluat their worlds through hands on participatory learning experiences which build on core curricular areas " (Giesbrecht 2008, n 28). Through the narratives of sacredness, transformative education, critical nedaenery and place based education as they relate to this project I am utilizing stories, the written word, as the very means and methodology of academic inquiry. In presenting the story of our project I have not become an expert. per se, in the gardening history of St. John's, Newfoundland, nor can I speak to the experiences of fellow St. Bonaventure's College gardeners, students, teachers or parentswho may find in the project a completely different parrative. My written story, blending more president viewed threads the price of my experiences. "Aver not 'reflect' social reality but needscore meaning creates social reality. (for) having a partial local historical knowledge is still knowing. " (Richardson, 1999, n. 928). In using writing as a means of understanding the impact of the project I embraced the idea that, "language is not the result of one's individuality; rather, language constructs the individual's subjectivity in ways that are historically and locally specific. What something means to individuals is dependent on the discourses available to them... The individual is both site and subject of these discursive struggles for identity and of remaking memory," [author amphasial (Richardson 1999 n 979).

By writing about the project and in using any own vision I antupping into a binary which the reader can identify which may not be their binary. Yot is mailing the project prevent III may reading it within a south the gradient fragment their dequire which eccess with obtacles in our pub, the grading frontantion of movings which heigh southers and massive relevables. While the happiness of planning weighther, the transmiss of working and Jayos of have entire uses and use their their sessance in the moving of adversaring may not be to reveryout's task, the transmission of the set of the as method requires not that a londy truth be written, but that J present as plainly as parallab the latence of the project for my audience, that they may experience within it the many of emploting and and written resonses.

In the filling this dissertation through a steery, I am not chaining the bare uncovered the truth. Rathor, in the paramotendimist matiliant I have an accored many totals without distribution boundaries (disklandsone, 1999, 1999), a steeres may finding pathough this stery dissertation I produce the maning hold therein, help create social reality even while acknowledging in boundaries upon my writing. Land Edukations with clut maning for as individual is born from the availability of discursases to them. By their the refers to stery discussion of the standard of the stery and the stery discussion of the truth the stery of network comes an awareness and rathout stered therein. Thus, this project represent differentia sterio lings (Hings Toppers), Phys. 712).

# 3.2 Praxis in Writing

Paulo Freire contends that when we speak the word we are naming the world. "For critical pedagoeses, the 'texts' students and teachers should 'decode' are the images

of their own concrete, shanded experiences with the world. According to Freine, reading the world always precodes randing the word, and rading the world implics continuity, reading the world?" (Generoscied, 2003, p.5). This some shows, Freire conclusion, nor by more reflection on one place in this world, are more actions to protect it. Rather, when we bring action together with reflection we achieve prants. Thereins students and taxhers alide can apprecisive and analyze the radiity of the situation they find themselves within and stoch on set or discritication (1997). The situation of the place of the situation of the situation

This is embodied as Margory Wird's work, *Thewe Ted Links*. Iter vitrageness work represents pher landscattering of China as sender deconcentration beld and concentration conclusion. Lot of theorem pherics proposibility included an effect to main sense of what (and uses, or send-first theorem) and these for heper testings. Voltage has been pherically as the sense of the testing of theorem process transfer (1992, related effects to present the sense of the sense of the sense what happened in the list village of Pedocas.... A factorial area, you manyous further properties, writes in different splex, and with different 'moremes'' of WarTy experiences, uterion in different splex, and with different 'moremes'' of WarTy experiences, uterion is different splex, and with different 'moremes'' of WarTy experiences, uterion is different splex, and with different 'moremes'' of WarTy experiences, uterion is different splex, and with different 'moremes'' of WarTy experiences, uterion is different splex, and with different 'moremes'' or WarTy experiences, uterion is different view, the direct of the test present do reaction to the myster visit in duration to do the marters, which damped depending upon when and why the is stilling the new.

Truth, in H.L. Goodall's words, comes from story, which "critically extends how we think about and do the work of being scholars" (2003, p. 2). My story dissertation has

tation on provi hisses. The it has also shown that within a compose and garden project are bound the opportunities is extend at shown that within a compose requires this use similarly empirical strategies and a strategies of the strategies of My opportances of this workd, grounded within the garden and composit program at 8. Boursenance's Colleage, they may articular it with workds. My actions of planting, starting, workding and harvesting user related at the to become pratia. Therefore do the maning bolded in data to present memories.

Patch Print needs that as channes we often discourse in dual carcinalma, preaching to standown issued or engaging with them (1978, p. 44). Conselver argues nor the anarchickly the off research, As a strendstee, on more be constructed in a strendstee on the study of Usel experience to the "wand vessel for pench" without of 1979. This strends participants, and the strendstee of the strendstee of the strendstee and tandness were able to generice that the agricultural strane, and values and tandness were able to generice that the agricultural strane, and values the strendstee study and generic and the strendstee of the strendstee and tandees the discussion of the discussion of the strendstee of the strendstee and tandees discussed the half strends the Nerformalitary values in the factor is and tandees were in the distrendstee in Northerlandstee.

"Newfoundlanders used to grow their own vegetables," a student participant in our project was later quoted in The Telegram as asying (Bartlett, 2008, Paragraph 6). Having broken the hold of the status quo, new possibilities were revealed. This dissertation about the St. Benarventue's College compost and garden program can be stern as a statement sequinist industrial metains and for small-scat garderia. This statement has come of the statement sequinist metainst and the small-scattering transmitters.

after the trials and tribulations of experiencing two growing seasons, of reflecting upon our successes and failures and acting anew. In this way is this dissertation praxis through writing.

#### 3.3 Ethnographic Storytelling

Margery Wolf notes that when human behaviour is under research the researcher must be prepared for "ambiguity, multiplicity, contradiction and instability" (1992, p. 8). For every summit of success, there is a corresponding valley bottom. This is as true in our prooram as it is in life in orneral. Both are tied intimately to the experience of the human condition. The ability to articulate the goals of our program to the school administration. to student participants and community partners constantly left us wrangling with the inherent controdictions of the human condition. Looking back I can see that such triple were necessary to the project. Michelle Fine notes that we live in a dichotomous society. We operate as societal vassals to the status and yet position ourselves as firmly appositional to the status and offen in the same concentration and/or action. This she calls a "consciousness of domination" where we resist the societal stotes and through our stories, but minforce it through our actions (Clair, 2003, p. 12). For example, while I might bemoan Dominion for driving down the price local Canadian farmers get for their produce and make a principled point of standing against them, by shoeping at Sobey's for my processes. Lonly arrys to further undermine my principles. Canadian farmers operate on a precarious financial knife point. Perhaps I might be better served to shop at a former's market where the former losses the dividend and I can be assured of the quality of the food and make an important connection to the farmer her/himself. One must be

contactly reviewing, critically, our k radius to animatia a remediate between the stray we want hild of concellence, and the Tradits. Although I empost, make a point set or or or the flood fload and malke any owing anders, any actions to support or environmental floatprint are waillwend op because. If the and operate it is a society that is maining monghabed severth wearded's conlegational balance and diversity. We reard not loads for such disturbatic breaches for configurability balance and diversity. We read not to adde disturbatic breaches for configurability balance and diversity. We way other appeading balance part balance and for assumes, in this way other appeading balance part balance are the float and the strategistical of the planneous concerning monghabed parts para provide on an information of the planneous concerning mong and us, to present the dailing of shanne experising.

Biopeding is different from other forms of weiling, h is not an argumous, presentang seaders to the widdly of the anther's arguments. Not is is description atoms, providing informations which durabite the project with. Funding, it is not an explosing, explaining the meanings, Educe, theory the syste was the information stretch meanings? (Canadrily, 4 (1998), p. 139). The parspose of the providtions of the project was at different and affects the project has had used to school and discussion carcinalum within S). Resourcement's Colleges intell, call shafes it may offer as an example to other school and community groups socking to initiation a similar offer each the project. These sittings are also been been observed within the projection, state (shi discussion). Subserved and additional and and within the meation state (shi discussion). Subserved and additional and additional within the meation state (shi discussion). Subserved and additional addition are within the meation state (shi discussion). Subserved and additional addition are stated as a state of the state of the state state of the state state and additional additional addition. Subserved additional additionadditional additional additionadditional additional addit

form of experience. For us, narrative is the best way of representing and understanding experience" (Connelly & Clandinin, 2000, p. 18).

Our project has been, and continues no doubt to be an extracurricular event. a social justice project and an ecological errortunity to right some of the wrongs inflicted upon the natural world by humankind. I seek to present as many of the voices as I can in as accessible a manner as possible so that readers can discern for themselves the truths therein. In using writing as method, praxis. I come to ethnography wherein readers might find "the blood link to their own experiences, their own reading and talking, their own constructions of how persons and things become meaningful through everyday actions" (Goodall, 2000, p. 41). Ethnographic storytelling allowed me to use my own experiences, and that of the students as I perceived them. This led me not to The Truth. ner se, but more truths embedied in these stories. From these came insights into the current makeup of our society substationally, coltorally, relitically and aericulturally. Robert Krizek notes that in mining the self we sift through the silt of accumulated debris of experiences to "elicit, witness, collect and ultimately represent" the stories which become annarent through massesh. Ethnogenethic storystelling, then, is a means to delve deeper into the human experience. It contextualizes the whole, in this case a compost and earden project, through personal experiences and allows "narrative and identities to bisect" (2003, p. 145).

## 3.4 Ethics

The students working on the garden and compost program cannot be named in this dissertation. However, they helped drive the project forward. Their energy and

excitement drew people towards this project and gave them excitement and energy. Yet their voices are muted beyond the broad generalization of 'students' or oracle level. This is not to obscure their importance. Anonymity is a suprantee whilst working in the framework of an ethnographic narrative. With students below the age of consent I am ethically unable to name them (Connelly & Clandin, 2000, n. 175). My influence as teacher might override student concerns, disinterest or disengagement with the project, Opportunities to exert undue influence meant it would be better to house their voices within the collective of the project. For this reason no student is referenced by name. conder or physical characteristic. Instead, orade level suffices and retains the veracity of the larger story. Their insights and voices are crucial in explaining what, if any, impact the project had on the St. Bonaventure's College school community. The solution was to incomposite their stories into a text written in my voice. Herein did I seek to dissinate the tanaion between being elinically systematic and the desire, at the very heart of this dissertation to hold onto the stories of student and teacher experiences (Jesson & Penny, 2009 m 93

This choice must that Table to mush that matter vision and natives were enableded within any wax vision, any even natives. "Theory text, every nitrot, privile more, Anabedge and the second second second second second second second energy with beginning, middle and all. However, 1 heper that the nativest resist resort dought as well. These are different wateriation of a shared experiment. ", Question of concredence (of the native) are not a matter as an equenoism of responsibilies with more war in terdences." And conclusive and Caldian (2005, 117). Anatymetical and the second s

represent native experiments and version while meaning their analysis is how Frainis sequentiality to use proposed on the project. These art of expensioning the non-tension version of others in so out a neutral correction. Layout any its own thin the neutral spectra mean and then power relations. To exclude its law damy the overlapping, interacting and associations computing to their or feedbalanding that out on the proteed neutral sector of all participants must be accounted for Outly theorem 1 counts to have that the mean of the project.

#### 3.5 Summary

It was not an easy process furing the voices of solution, integraled to the juryers along which the guests and amounts programs in \$8. Bowmenn's Collega has undertaine, be funding that the process of the process of the solution of protest the contribution thusly. Ye, at the same time, their attech have been sufficient ion mine. Elements of their bracks have been inseparated in its more wors with "Enhalden", the same stand advances in the hose index probability of the solution of been does. Paucies in writing allowed the process of experisons, reflection and actions to come to the form. This has been integrated to the same works with a does many the form the process of experisons, reflection and actions to come to the form. This has been integrated to the same work with a does manufold that I find my voice and because, which and adapted of these discoviry angugging for disentity and of emaining amounty", excitable the story of this program (Reductions, 1975, 197).

## Chapter 4: The Story of the Garden Analyzed

As a next university gradient five humans of 2021 years to hochern bottom to work on a shokene fram sure Tennersille, Ontaria sup of af Prostier Orderge's Labours-Tander prepares. The orgen grad belves on all weights, with shoken in about human probability. With the change eners a starting break from the enformation inglates how days, music higher gaiding the ways in days way way to high. Jaw belves me hand on of the grants in the ground the days days, and the probability probability in the start of the start of the start of the start of the frame of the grants in the ground the formation starts, which, should the relief of prob probability in the formation of the start of the start of the start of the hordings want anome affecting starts in its ore shoke, should be relief of prob hordings, work anome affecting starts in its ore all protect them tom the start hordings. The former barre have the the bars on capital eff and have to the frame universitely. The former barre hards.

We didn't begin this project with a sense of *inv*. We merely wanted to lesses our environmental impact as a school community. However, I think that is burgeoning sense of *ivu*, of understanding what this place was capable of and the reamifications it might held within the curricultums of the school and wider community becomes apparent. through the store of the garden and compose program in S. Bouwarenter's Collage.

# 4.1 Beginnings at The Gathering Place

Begunders had only just blait much chather, and the fifthweight Startardy we would rake up the lawnes in the beginning of the stabuler's compart program. For new we were at the stabule up in fixee, which stabules are been stabules to the fixee stabules and the stabulest up in fixee, which are been stabulest to the stabulest Chathership was supposed to slish about comparing. This was able were grade up at the SL Neurosmother's diagness classification of the stabulest of the SL Neurosmother's diagness (the stabulest the stabulest the stabulest stabulest in the process. Mark showed as the compared has SL Neurosmother's tape, one-released and grant classification stabulest the stabulest stabulest stabulest the stabulest stabulest

been just because of the wind. "What are you going to do with your compost?" he wondered.

This left us stramped. David and I had corralled four senior students into joining us that day. They shuffled their feet and buried their faces into the warm fleece necks of their jackets. Mark had a half-smile on his face as he waited.

"Well, you know," David began. "We've got some ideas. We're not really sure right now..."

But Mark was already expanding on his idea.

"Why not turn your compost into a garden. Look," and he pointed at the raised beds. "We grew enough lettuce in one of those beds to feed 800 people. Lettuce grows avvesome here! We've got arugula—here, try some!"

The tweep minutes, maybe thirty, we were like preperts enaught in MuK's varial pinnets, it is unband us to the gandon body, brought us within the plantic fields of the generative and all the three barenediad with three study, belapy twee, excepting could come together. We looked in on the tomators, fiel and that tasted the angula leaves, the beam and the anonyeans. It was impossible not to be caught up in his excitement. We would find that in peth toward plant, that gandon belaw at not reportive to more aro ministing, and planting peth the 'all burntime's proposition. He did towards out the part about finding a home for our garden and what a process that can be. For the moment, though, we were all of us enthralled

"And you can use the compost as your soil", he furthered, bringing us back to the naison d'ter of our visit. By the end of our tour we were ready not just for a composing, program but for a gueden all our own. This was how we gained our first Teacher/Partner on our iourney wwards becoming growers.

That for your was smouthchice for the depths planged and all, nations and studen, into: The second second second second second second second second time, includy presentations in the second s

For several hours we worked, the wind sometimes carrying away our hard-earned piles of leaves across the soccer pitch. There was a festive mood to the day. This, after all was the beginning. We were starting something. Compositing was the new deal at SBC, to locare word startedues to trackets three wave apple cores and battana peech, so more

barely grawed on carrot sticks or slightly bruised grapes tossed haphazardly into the garbage. And in a year or two, we would have soil.

It was hady mild begin study anyotic. Here raff to see many nathent pipe which Sinderge moreins to pike. The years mild was well sequences of pixels bench, server up to reduce, in pairs and by discussion. Since the which for mained bilanes, their journ discrime when the pikel articulus (Ves shared a level and doulde the day be maining unwering approxy containing the benchm of comparison, when early to composed and when exolution. Since the parties showed articity promise. Other party is a fixer watching the second ensure early many well benchmark to prove the parties of the parties of the parties showed articity parties (Chem party of the fixer watching the second ensure early name with the parties pa

As the menning gave way into advancess 1 washeed behind by gave, show the fore compose 1 into social producty backes any galactic. These proof enriches against the balvark of a toos is arrow, garbage rathure. Compositely bage of red, yellow and brown knews and propeed up against the dispetel back with. These torse would notify valuable improve to or compose project. The million, see that we had broads some gare darks. From new on, propier would act differently at SBC. Garbage was one Composition was in:

Transplant beginning bold in the radius of insurprising much reprised within column one of homosyme part organization. Let much an use that new begins our compost project at the school the catastian, shifts that the compost bios might become hemisping types with the approximation group assists. Sight, each and with more dense, When the finite parametitismedian series to leaght or and notion the school antimistication of the lowing them. The pulpels frame of the school much series that the least invite sching and any school much series of the activity of the invite school much series the school much school much series of the school much school muc

There the bin langished in the dashess. They could not struct the eyes of world-by assaints he they dight's noise any soullget office. Its he winter months the project, and the second of the second structure of the secon

This was highed by one expersion that issued modes a full appare proved in 27M (Targoure Occosmbe 2004), a four minimit interview on CUCN-Matto None Move 2009, modeser CDC suggestor to the adhesenese show, an interview in 27M Storpe, 81. Mater's alternative averapped (July 2009), Dia with the school adhesitistation how you'le the days d-us down minimit and Mattage moder distinguistic misses, matering are wreathers to the school and training the ensor shows (from, functionic adhesististation how you'le interview) and the school adhesistic to the school and the school and the foresomes for discongravity (day 2009) our project Impaired by Dryong the antoma, wisseen and ensory project of 2003 our project Impaired by Dryong the backool examines, the school antones (the Dryong the antoma, wisseen and ensory project of 2003 our project Impaired by Dryong the Dryong the antoma, wisseen and ensory project of 2003 our project Impaired by Dryong the Dryong the Dryong the adhesistic to the Dryong theory (Dryong Dryong Dry

Vie in theorsing areage gathing without understanding the implementation constrainting, consequences, the site structure to the down and go into in detail - we risk having the opportunity to know are workly, both is tached and could hem beyond a kind trading de explosition of the about the structure of which distance on the ownermality, adaption the postful of 1m, "We are the hast generation that can experiment we without the structure of the structure world. "We need to protect these areas of analanden within the structure is and less the lin the world. "We need to protect these areas of analanden within the model, where we make intended to be. This is the model we used to keep is mind on our usy to unstitubility" (Choursen, 2005; p. 199).

This dissertation would be remiss in not pointing out that we in Newfoundland, whatever our notes, are firmly entersched within a growing environmental disaster. The garden and compost program has the potential to help miligate this disaster. Although limited in score, it is the characterial leason of the project which can forter changed

atitudes and inspire new directions. By understanding the connections between composing and soil fertility and plant growth, which comes about by working intrimutely with the earth through gardening and composing we embrace the Econoic and move beyond the "memical Consosie" (O'Stativa, 1999, p.26).

We wanted to compost the organic wastes of the school, to plant a garden. Now, looking back I can see that we were bringing the totality of the life cycle- planting. arowing harvesting composting, within the score of the school community and curriculum. By embracing life we would celebrate the creation mystique which embraces life in its myriad forms over finite riches and death (Berry, 1988, p.120). We may not have known the words but our project had acrizations to be part of something creater than any one of us. Inv was not the goal of our project. But in allowing for students and teachers to work within the world, a wonder and awe at what the world was capable of, coupled with a sense of unknown as to the success of planting seeds in soil, took hold. I one this wonder and excitement in the actions of students who willingly gave un after exhaul hours and man Saturdaws to mke and has leaves assate compast hins and travel out to The Organic Farm to plant seedlines and weed. Some students made a concerted effort to sit in on meetings, going so far as to miss backey games and band recitals. These mostings held no promise of success. Onite often they involved a rehashing of the stated numbers of our project and an attempt to bridge it with other program efforts to establish community gardens in and around St. John's. But students voiced their concerns, opinions and hones for the project. They inspired other groups with their energy and enthusiasm. This snoke to the students' understanding and accentance of the. "pressing need of a radical reasonament of our respect situation, especially concerning those basic

values that give life some satisfactory meaning... It is a moment of transformative learning at both the individual and cultural levels of history" (O'Sullivan, 2002, p.4).

We persevered accumulating through those meetings the knowledge necessary to convince the school administration that not only should we extend our on campus compost program, but that we should have two raised garden bods on it as well. This decision was reached on a cool and misty May weekday during a lunchtime meeting. It was concered not from the strength of either mine or David's preuments, but rather the obvious sinearity and account interest of students who had proven their commitment to the project. The Norwegian explorer Fridtiof Nansen "emphasized that people will abuses have to take risks to attain achievements. But certainly there should be some nonoutionality between what is ventured and what can be attained within reason" (Renn. 2007, p.111). The risk in accepting this project was that it would founder due to student arothy, be prone to vandals and scar the school campus. But the attainment of fresh reaching donated in full to Emmany House Food Bank attached to the St Bonaventure's Collage campus fulfils the legal educational ideal that students he men and women for others that we find allments is society and sock to meaninefully address them. In order for the garden and compost project to remain part of St. Bonaventure's College though. we needed to find a place for it within not just the school community, but the classroom corrienters

In the beginning of the guelen and compost project none of us, not David Martino, or myself, Mike and Melba Rabinowinez or the students - tencher-purtners all would have foreseen the successor we would achieve in planting in just or srecord year four garden plots. We grew potatoes, turning, carerds, tomatees, zucchini squash, parsley, oreseans, ohmes, and middae toos. all of white was donated to be firmumal House Food

Bank. Such successes, however, are tempered. We still have work to do. We have never won over the custodial staff of St. Bonaventure's College. Whenever fruit flies armear, or the small of authors wafts the compact project is the first to be financed. Compact bins have been thrown away without consultation in the name of hygiene. We are still learning about the nature of plants, their symbiotic relationship with insects and funci, the variables of climate. In our first year of planting the summer was unusually long and hot. A water ban was put in place. But our zucchini squash vines and tomatoes flourished, and we harvested lettuce well into late August. In our second year there were records set in June for the amount of precipitation. Davs and nights were cool and wet. It wasn't until July that summer finally arrived. Weeds and shors flourished. The earders needed almost daily attention to keep the weeds at bay. These are the lessons we need to accrue if this program is to remain successful in the future. Through this project I see us all - teachers. students and partners - coming to know our surroundings better, and working to make uses they are available for transmust's concention too. This is also we have worked to link the project to the Newfoundland and Labrador Provincial Curriculum because within the objectives listed can students, narrets and teachers find resonance with the project as a acheduatic tool which makes teaching and learning resonate penuinely.

## 4.2 Bringing the Curriculum into the Garden

Part of the agreement that we could begin an on-comput gurdening program was the condition that it had to be feeced in. This would dote would be vandale, dogs and other maraneous field of the track of the start of the start of the start dottective forces. We had missio measured the opening for the dote and subrequently left a distributive species poles which was wide enough for my off represent genine or measures poles.

clever human to smeak through. Further, we quickly forgot the combination to the door lock and resorted to jumping the fence. We began to model the behaviour we wished to deter.

The second field that is worked proces, show field or flowers are brieg runs, a same of onescendy and common good resources to the wider community. Such spaces or check had also access that the second spaces that the second se

It took us the better part of a week to plot out the site for the ganden, dig down a foot and a half only to find it knowled with gandhed and resisted roots. We then filled in the hole and moved the entire operation to the other side of campus, digs eight holes three feed deep, filled them with conserte and placed eight foot ment plotes in to set. There we use to the down for the measurement taik user work by likewey, the conserts that

by this time set and though we thought some rather uply phrases our hands were field. We set up the door anyway and strung out fencing round the nine and a half foot by thirteen foot perimeter. Attached the fence with pliers. Blisters, pinched skin, scrapes and bruises were the order of the day.

It was in the midite of such physical participants as we handle the rends from round the arrestitute full. Tail schemes visions applied mithematics in a term. The intervent mathematics the physical participants are the reast arrang through the fining and pathol fight. Thus makenis, mither than measuring the entity of the structure were colciulating the persistent reasing the Physicageneon Theorem. The list mitma down I come to the sin is high achied. The transformers are serverist result estimation are the sinmalientationally advanced. The transformers are servered in which estimates are used interventional estimation of the single structure are to the parabolic laboration conversioned formulates and may benin structure and the barrows could understand. I can remember complianing is a classmiter that I could are litter are for the hydrogeneon. Theorem are set of estimation of 1.16 exceptables down houses are structure conversions.

Yet on that day in the garden, as fingers caught and skin frayed as we hauled and verbally cajoled the fence round awkward corners, there were two students using, indeed argoing over how many Pi made up the perimeter of the fence. I'll admit that my first

...

reaction was not of them to map hencing around, is help use prefix themes or up abardy. One is always range to presente one's ignoments as universal, not simpliced. It his my maps, however and links one is as fanching abard and show of research attributed that ary minimum strategies and the strategies and the strategies and the patients and on the wise proved links around the strategies and bands, minimum strategies and the strategies and the strategies and bands, mattering something that manked of "failors y undera" based for the Fuelt. Neuroscies, that is retrategies them in maintains that they were all mapping to up the property can wise famough the famous. Both of hom were pushing on 3 fam behind, so that it cated and non-strategies allow the famous on the famous that the famous the it cated and non-strategies and the strategies on the famous the famous the famous famous the famous famous the famous famous the famous famous

"Also which how it's how," and one of the network. How much of the prime, incapable of which does may like as 1 had managed to even the score between applied mathemistics and anyoli. However, the neutres stoped with new, A power bad challenged as to see the utility of the gradem as an andminic tool to support mathemist turning. Here is was right between any Leve outh bridge the gradem into the achieved turnes one effective mathematic the store into the score of the store with the data.

With this experience fresh in mind David Martino and I asked fellow staff members to see if they could find a place within their lessons for the garden and compost program. We prevised particular attention from the primary and elementary teachers who found in the garden an extension of their taught curriculums. Grade 3 students, for example are expected through the Life Science: Plant Growth and Changes curriculum. energifically liese for Plante to reerond "to the ideas and actions of others, such as farmers and eners environmentalists encores and locoers and acknowledge their ideas about the uses and replenishing of plants." Given the wide spectrum of nersons examined students should become aware of the use of plants for commercial and sustainable ends, and find that they are not opposite goals. Here lessons about farmine the land sustainably. as put forward by Masanobu Fukuoka and Wendell Berry might offer insight. Clearly their writings need to be percolated down into a more approachable language and arounded in hands on work with the compost and earlen project. Such hands on learning would also compel students to see the conditions which best aid in the growth of plants scallaht water soil retriests and warmth. This makes the measurement of the seasons. from summer to fall, winter into spring all the more poignant in that the ourden itself becomes the silent teacher, a testament to a hardiness brought forth from the vicissitudes of Newfoundland's wet and windy weather.

Such a clear link between the garden and carriculum, which Chapter Five will go into more clear trait spon, becomes multiple as students ascend into the higher gardes. While some trackets in junior and senior high school were interested in working with the project, their interest was belied in their reflaces on us hinging the project to them through sciences. Journal of the students are and a hinging to them camples

of grown produce. The garden and compost project was for them a peripheral tool, not the focal point for lessons. This highlights St. Bonaventure's College perceived role as a university preparatory school. For many students, "the emphasis is on earning money in a provisional future that has nothing to do with place, commons, or community" (Prakash & Esteva, 1999, p.3). It isn't that those junior and senior high school teachers were not concerned with the same issues that beguiled us. They admired our motivations which became the garden and compost program. But having themselves been educated with the notion that university is liberating, individually and financially, they did not place as much value on what seemed an alternative, indeed peripheral, educational narrative, "We in the west cannot fathom another way to perceive the world save the industrial computer analogy... and schools reinforce the individual hedonistic-oriented lifestyle, aim for individual success as happiness" and thus perpetuate the western-centric way of living as the best (Bowers, 2006, n.71). Lisa Greaoire notes that the Inuit of Northern Canada are being swept up in an environmental revolution which will radically alter their way of life. But through local internuity and intergenerational teaching and learning their knowledge of their lived place - ivu - may well provide them with the ability to adapt to a warming Arctic (2008, n.50). David Gruenewald charges that educators must find how place fits into the curriculum. "Definitions of school achievement must begin to take account of the social and ecological quality of life"(2003, p.8).

While the project is not yet conceived of as part of the everyday curriculum for St. Boraventure's College we can see the importance of it becoming so. Grade 4 students now collect daily during the calendar year the school's compost and deposit it in the campus bins to continue the process of life, collapsing slowly in upon itself back into soil. Students are excited to get their hands dirty, to learn bodily as well as intellectually. They delight in the thriving ecologies of fungi, worms and insects they find within the compost bins. Conversations with grade 4 students do not focus on why they are being subjected to collecting compost. They do not whine about being ridiculed. Rather, there is credence, a sense of belonging to a schoolwide project. They see high school students planting seeds, watering plants, harvesting produce and want to be a part of it. Here then is intervenerational inspiration and learning wherein we might unlock the possibilities for community self-sufficiency. In using the gardens and compost bins themselves as the focus of lessons, teachers plant the seed of thought which asks, "Who owns this world? Who cares for it?" When that seed is planted, watered by experience and nourished through reflection can come the realisation that humans are only transient beings and that we should hold our surroundings with reverence for, "life cycles are sacred and interdependent" (Bowers, 2006, p.143). In hands-on learning relevant to the provincial curricular objectives students discern and understand more than any textbook could make specific. "Facts and figures, reason and logic can show us the errors of our present ways; they can delineate the risks we run. But they cannot motivate, they cannot teach a better way to live. That must be born inside our own convictions" (Selby, 2002, p.88). Convictions which I contend are nurtured through experiences of the world, which this program can help bring forth.

In answering what influence a garden and compost project can have on a school community's curriculum, both in the classroom and outside of it, the answer is potentially immense. We have found students who want to be part of this project, who have donated their time and energies freely and even began their own garden projects at home. We have also encountered students who can find little reason for composting, who see the project as at best a peripheral school event which doesn't concern them. I have tried to capture the nuanced realities of setting up this project. Never once did we contend with overt anti-composting or gardening sentiments. Most everyone, from the school administration to parents and even a majority of students agreed from the very beginning of this project that it had merit as an after school program, as a means to green the school and, perhaps most importantly as an educational tool. Yet we have also often encountered responses like, "This is a great idea, but where are you going to put it?" to a suggestion we start a gardening project. And, "I think this would be excellent, but what about vandals?" when we requested to move and expand the compost program. These concerns were alleviated when we articulated the moretam as an educational tool tied to the provincial curriculum.

This ensisted with a larger trent in accient yourch accountibility with or surrounding world. The Gobies and Mail was meaning articles is early spring and summer of 200 on growing load hashaydar galaxis in the worked Style section. Nonement of food and comparing wave meaning theory however have mean theory hyper backs to be hand movement (Pullin, 2006, 1917). Subdive wave ensitives meaning, areping into a larger result. The solitary, housing and erabatic the carbon foorprint of the soliton hash been present of the St. Stone-tentric world patient meanles, and erabatic theory and an education publicly. It for present that beening meresting meres,

This made it more vulnerable because of concerns about ansonists, vandals and apathy would reader the program an ejecence to a failed endersour. But the filterer of a fainter for the program within the school and classroom curriculum, as well as in providing nourishing produce to show least abit to affield it won the day.

Within the purguest mathems and scales cares to open its installar ground, where the last between and index himses the susceilators. Surply, sure of a laser much or secondard fair pulsages there might be limits of where we could go with the project. We managed to networks maccould's with other community of granitations with the A. Such 's morepulsame and we nerv resulted to bloowledge about the projection of the local governing access and the fact that they are thereing to A. Adar's, the production of the local governing access and the fact that they are minigenesis of the strength of the strength of the strength of the project of affirmer theory man are given and religious affiliations Accounting a management another, while we are maining to enable the shearing the project into subject carefulations which if y theory are an altering to strength project into subject carefulations which if y theory are an altering to strength project into subject carefulations which if y theory are an altering to strength project into subject carefulations which if y theory are an altering the strength project into subject carefulations which if y theory are an altering the strength project into subject carefulations which if y theory are alter alter which we have project the subscrength which we provide the strength and the strength project into subject carefulations which if y theory are alter alter which we have providents be not alter the St. Subscreaming C. Charge alter below and the project have a subject which we have the strength of the strength and the project have accepted which the St. Subscreaming C. Charge alter below strength and providents. Both and the strength and the strength and the strength and providents. Both and the strength and the strength and the strength and providents. Both and the strength and the strength and the strength and providents. Both and the strength and the strength and the strength and providents. Both and the strength and the strength and the strength and providents. Both and the stren

#### 4.3 Harvest

The rain came down in lancing spears of cold. The air hovered with moisture, and the wind carried great sheets of wet. Into this mess, only a day removed from the last of autumn's sumhine we trudged, carrying buckets and bags to gather up the bounty from

the garden pixe on M. Sciel Real. Holder around, taking in our multiple methods chang plackily on the vines. Some hand fallen, split, reclaimed by the grannel data methods the site of the server still in good confident. The suchital hard method predigiously. Hast convinced myself that it was one collective grams thanth which led to sens hist and quantity. Bud in smalling means gradening articles 1 cances the discover that methods are so profiles as to be considered a sustance. The potent planm hall harging thermal to adapte above. But the experiment planes planes had along by adapting the constraints of sustance. The potent planes had along by adapting the constraints and down in the expension parts. In 6 and the potents had, galant ad garding, Brug quickly wanded down in the expension parts. The construent servers in a sub-test part of the potents by scarrying insects, to find the potents ware markly, energy and difference by scarrying insects. The difference ware

It was a grant and nethine day for a harvesst, And it was a day the twolve of a world and anot forget, Few world were excludingst, flue tasks obvious. Tommore were world and from the view, canoin publicad up, polarises tunned over and the mochilical conflictly manuements of a fluer pipely carsons. The field was decimaled for the field bank. At a time of a most of their pipel carsons. The field was decimaled for the field bank. At a standard, flowlight be around from the encrypting of most Dol then studenting set out on any 71 was thinking that preparing and earling some of the results would be an important port of the experiments one, detectionally that tasks in the industry shuft from produce tastes like, what their blown hat mirrored.

As we worked I found it hard to think of the garden plot as anything besides a garden. Though we were in the act of harvesting, and winters snows felt none-too-far off, Is seemed to not that this place had always been a gardent platead over with vegetabilit. I had been out to be loadinon on M. Solis and, eventooling SJ, Mar's paper all how to the OAAT to see and Boyes, the been equiver of cover the distances of been consultafrom in distant European gaugeplical lineage, when the garden plot had first been uilloaded to us. It had been ending more than a field of gauss, atlant driven into the ground efficient gaussian strategies and the set of the garden. Strategies all worked are or sintegies worked and new resolution with the site and the ground first and per or sintegies with all more investories which are place and here researed fit or or efforts. The sensary here of summer had given way the cold had of natural's interns. Through it all, howevers, had we come, hanned and datan areag suscential had of vegetables.

Our program rate anginest the grain of consensory arguidanties wission, solver Higger is however, the set of t fertility" (Pollan, 2008, p.116). Masanobu Fukuoka argued in 1978 that industrial agriculture relies on a plethora of theories which wed agriculture to the industrial model but without any real growth in produce yields (1978, p.75). F.H. King, an American soil scientist described in his 1911 book Farmers for Forty Centuries: Permanent Agriculture in China Korea and Janan how the Jananese were able to feed three people per acre of farmed land. At the same time it took the Americans three times as much land to feed one person! What makes this example pertinent nearly a century later is that King was writing from a perspective where the United States had virtually exhausted "strong virgin lands and arrived in countries where the land was still fertile after forty centuries" of continuous use (Myers, 2005, p.37). In today's era of intensive additives to our food, which has attained startling unnecedented yields from a historical perspective, there has been an "incremental erosion in the nutritional quality of our food..." Industrial agriculture promotes the exaggerated growth of plants because they are infused with synthetically derived nutrients. Such plants have shallow root systems because nutrients are readily available at the soil's surface. Oreanic plants, by comparison have deep roots, The reason for these deep roots is to tap into "the slow decomposition of organic matters [which] release a wide range of plant nutrients..." and to partner with mycorrhizae, "the soil fungi that lives in symbiosis with plant roots, supplying plants with minerals in exchange for a ration of sugar" (Pollan, 2008, p.120). Organic plants thus have access to richer veins and nuanced varieties of nutrients which show up in the final produce. So,

while over the short term industrial agricultural practices may increase produce yields, there are serious environmental and ecological consequences as well.

Humanity, is promoting the genitar of opthetic fertilizers and the worker of sprays is renove inoct and platty test's pressure a diagrees inperformed service white where our scientific and technological advances tant all over these of the earth's, which are arises then successful Willian years of experiment (Berry, 1998, p.74). By composing organic waters, in minitizery of what nature does, we provide invaluable nationals back to the soil. Its numbers morehas ad-enviroji of plants, By using intertiling, wherein milliple corps nature and protect our another, we can increase yields and keep petitidion (Streer, 2005, p.6).

In growing many different plans, fermen are able to keep way inserts and diseases that might frontish when just one glues variety in grown in absundance in one and the second provide the second second second second second provided. This was what trakeads "diseases" at a stantard fermer, the reality has rediscovery of the way farming was done for many millennis, as he himself ablatish origing a start of the second second second second second second second (Figs. S113). He is the glue dode origine immerstrained ablatish concluded it and thus the plans. This is not abling. It is falling into these with the momernance inset flands with the cycle of the and done. Dual senter second sec the file weight for wave there.

We found as teachers and students of the SBC earden and compost program. those who subscribe to natural farming, who use organic means to attain produce from the soil. It was never a serious debate within our mouram that we would be an organic earden. We wanted the earden to be accessible to the public so we couldn't spray resticides on crons. Further, we were very keen to stay true to the original intents of our program, compositing. By making compost into soil we would be respecting the natural eyele of life into death. So we searcht out local, organic farmers and gardeners like Mike and Melba Rabinowitz and community partners like Food Education Action St. John's (FEAS)) Each of them helmed us understand what it means to ensur food on ecologically sostainable terms. We also came to understand the falsehood that Newfoundland isn't mitable for food production, which has resulted in just over three percent of the island's available landmass being used for agriculture (Food Security Newfoundland and I sheador 2000: foodaecusitumeus com). We are not limited in what we can areas here for there is a startline diversity of options - lettuce, tomatoes, artichokes, cucumbers, sough, and herbs. In local produce we find food which is, "typically picked ripe and is fresher than supermarket produce, and for those reasons should be tastier and more nutritious" (Pollan, 2008, p.160).

In Newfoundland much of our produce is shipped in from far away. This means that futus and vegetables are either priced beyond the means of those on a fixed income. By growing organic produce for Emmans House Food Bank we wanted, as a project, to remonse social lateries and beath specific To or effen these with the least financial means.

who often many produces book which are heavily proceeded the disco, are there who suffer most from oblight, end-to-smached fleatment and Type-2 Dishetics (Polling, 2014, 1917). Wendell Heavy wonders who "root and file on exhicitable that the oblight that that housd at the the heat principles of our at and science of healing. [161] working is more pleasing and hannaming that a yield or discussion. Because, beautiful flood atthict and healing the that that a please of nonzinhing many, beautiful flood atthict and healing the results and the start of the start o

In beginning this project I was a source of the depths of ny own ignormect of this place. It was a hinter, results and kayshar: I often file connections to places the source of other operations – the white of the with struck places, the layer of the varie against harmache emerands mekh, the smell of the forest flow as the figg begins to pull away back to sea and the naw warms the governel. I was also aware of the large discontexts waterin according to the structure of the discontext is a structure of the source of the large discontext waterin according to the structure of the discontext is a structure of the source of the large discontext structure according to the structure of the discontext is the structure of the structure of the source of the source of the structure of the source of the structure of the source of the source of the structure of the source of the source

As a Laboures Teacher with Frontier College I had lived and worked side-by-oldwith migraft frameworkers, largely from Mexico, or two frams. The first was a small, family sensed tobaccas and gimeng operation near. Test-truell, Chatria, I The scenel was as family operation, but constituted a graveling exposure of thui orbacch and vegetable fields just enable Vinchard, Chatrain. On the second family 1 period days mixed in a strapelying handling and sights of revery deepless in a stiffing here survered into a dominity. Jaio shared with these men exposure is a strangel of progration characteristics, functional-to-with the hurser protection of revert. Hit more than a thin veneer of assurance that the sprays were safe. The shoer volume of sprays meant that they became an accepted part of the everyday. Perhaps I wouldn't have even noticed them except that every second day from late July through August I was sent to nick zuechini flowers. These flowers adorned plates in the dining rooms of Toronto's brightest culinary talents and were thus sold at a heady price at the Toronto Food Exchange and the Lawrencetown Market. So every second day I went to the zucchini fields and picked zucchini flowers. My wrists were slashed by the thorny undersides of the plants which were coated in the residue of those sprays. Every night that I picked those flowers my wrists would swell uncomfortably until I could barely use my hands When I showed the farmer - a young, university-educated economist - my damaged mandibles he smirked and noted that neonle wanted good looking food, not produce besmirched by insects. "People like the idea of no pesticides," he noted. "But they're not willing to ray for it." As a mere farm worker. I paid the price for the un-besmirched, wholly un-organic quality of the flowers.

With the besteff of thinking if I cause that the ware's no other to use plight at I might first have believed. His mith marked the Fassitian data many Canadian framers have had to suggeri to suggery and specialized in the folder thinking in the best financial return so that they might keep their livelihoods, their homes within their communics. On food collars have's guess may. Rates, it's heme overmuch ye system intent on grouping a few grains that are transformed in an endlars played of charge both has had have might as the minimum of an an endlars played of charge both within the large memory dimension of an analysis of an ower hading overcoding of the had has dimensioned impact on a familiarly of an ower hading overcoding of the hading memory and an ower hading overcoding of the homes that the set of spituality. In the manner that we approach the world show me gow fool. My plipt in the larger scheme of fame-related injustes is well down the list. Every sure may fram down, we show me to exclude allow Mohon, Line Arrisonia and the Carthbarn at wages and work conditions for Canadians would work under, are seriously injured and even killed. These frame, behadines with allow draws, are storing to make a profit. Hathly food or a bashly food charme or distant, constrainty worksm.

This was precisely the mindset our program sought to counter, albeit admittedly on a much smaller scale. Simply, we felt there was a place for a compost and garden program operating on a closed loop, composted organic matter nourishing the garden hole and recording nutritious readuce. We also sterned out into this reportan seeking to address the lack of fresh produce made available at food banks. Poverty demeans. In not allowing those who most need fresh produce the chance to afford it we contribute to their well-brine negatively. They rely instead on food that is filling and cheap - and which often brings with it (when eaten in large quantities) complications with weight-gain, obesity, diabetes, cardiovascular disease and even cancer (Pollan, 2008, p.171). Our program has sought to address this lack, though we have met with mixed success. While notatoes, onions and carrots disappear quickly enough, our crops of kohlrabi, lettuce, cauliflower and zucchini squash were often returned to us. More work needs to be done to educate society about the importance of vegetables, and how to prepare them. Still, in growing organic gardens with the produce donated to the food bank we are fulfilling the Ignatian charge of the school that we be "men and women for others" and "find God in

all things". So too has it helped us understand the importance of citizenship - that in ignoring one segment of society financially we pay for it in other ways (health care costs, for example).

By consections tylenes helped net understand the need for an organic, beel nature to organdeon. We wanted our andems and tackers to have the experience of the start, of discovering manifest for behavior heat the start of earlier, manufalt hands, or the fits of coughing and autima which appear in heavily sprayed areas (Carson, 1964, p.65). We wanted a program that world recognite in importance to the harmon, bit data started communities. For those reasons did we decide to grave expensively, a weight behavior the boots of the started area to the harmon, bit data started communities. The those reasons did we decide to grave

# 4.4 The Garden Project as a Model

As is whether our project can are a manhang for other shoulds and community organizations to follow in particular with the community and presentences regarizations. To determine a till sense that the sense of the sense that the sense that the College gather and compare pregram the finance-out of possibilities. St. Bonoventur's College, and protous schedul, allowed Bork and mere the freedome to concrise of this program, to paradome it in the schedul's extensive index activities and, is inset enses, to concern activities releases and the schedul's extensive in the first first first book in concentration of projectives and lines, to first a pixed for it within the schedul's Social Junice Committee. While we had to convise the schedul's administration of the benefits of gradening and wheney we might board; it, this orbitade proved to be benefits of or gradening, and wheney we might board; it, this orbitade proved to be benefits of the program, to parameter the board to resolute the schedul's administration of the benefits of programs in the data are the board to resolute the schedule to a schedule proved to be benefits of the program is the schedule of the base of the schedule proved to be benefits of the schedule of the schedule are schedule as a schedule and the schedule and the

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meant antes: the use known from theme mentions the language and actions which eventually led to us successfully making gathening a reality at SEC. We had to solve the solves and severate the courses filters students, which and the administration brendpet to us. To subtractor sources about random gathy use sugged out students' active participation and commitment from the project. You explore that the school gathene the store of its counterstate courses about random gathy use sugged out students' active participation and commitment from the project. You explore that the store the store of the school gath store of the school gath store of the school gath the school's anticipation of school gathers were could advect phe requisited school's anticipation of school gathers were could advect phe requisite a strands.

In effering advice to school and community groups interested in creating their own projects I would propose an intimate familiarity with the school and/or community's stated goals. Which show goals the articulation of your project become part of something which already exists, rather than a code appendage tacked on which might distract from the school or group.

The notability fields with generative approximate approximate one project that little direct structures. We made contact with the Newfordshift and Labouet Mahli Manricht Structurability Band (Orability Band) and Band and Band and Band with Structures and the structure approximate and the structures and the MMSIN and which made re-configured to enhancing, after and without the analytical structures thin, the provide and without the analytical structures thin, the provide compositing and rescaling encycling of the MMSIN and approximation that the provide structure and the structures and analytical structures that the provide structure and the structure of the structure and the structure of the st Source 2008, score co). This meant we had to nurchose our compost bins at some cost. In this repard the MMSB impeded, rather than aided our project. However, they do offer novices a elethors of information including the means of manufacturing your own bins. Where the MMSB let us down we turned to other agencies. The Conservation Corps of Neu-foundland and I abrador case us a presentation on climate chance and the possibility for composting and cardening, the reintegration of the life creation mystique if you will, to help dampen its worst excesses. That is, by composting organics you take such materials out of earbare dumps where they can rot, slowly, for decades and even conturies - impacted by plastics and poisoned by conturies chemicals. Compact becomes soil which neurishes plants with nutrients which sustain life. Plants breathe in carbon dioxide and release oxygen, which means they are central to our ability as a species to survive. The Conservation Corps also awarded our project a grant with which we were able to purchase seedlings, box garden kits, soil, manure, some basic tools and fencing. Mark Wilson and Lori Heath in their canacity as managers of The Gathering Place Experimental Garden allowed students to help out within their own project's mandate This gave students the opportunity to learn about the leaching of lead into the downtown soils of St. John's from decades of throwing coal and old paint into the backvard, to see the opportunities erosaine plants has to restore the vitality of the soil and nourish too. This latter partnership brought us into contact with Food Education Action St. John's (FEASt) and Community Supported Agriculture (CSA) St. John's wherein we learned about the struggle to re-establish a gardening tradition in St. John's and Newfoundland

and that Newfoundland grows just 15% of the produce it eats (Food Security Network of Newfoundland and Lahradar. 2009. foodsecuritaness.com). Our repiect worked hard to establish connections with FEASt that might lead to a working nartnership between our project and one of theirs. This in turn led us to contact Can-Do Productions which offered sunnort and the box ourden kits. The Wellness Coalition-Avalon East awarded our project a grant in propagation of our shillty to partner with outside apprecies, which has culminated in the project's second year in a working community garden with FEASt and Pippy Park St. John's at Oxen Pond Road. I offer these examples to show that while we may not have ootten what we initially wanted from MMSR, that obstacle became the opportunity to network, to engage in constructive dialogue with other orouns representing movind approving and approduce and find common ground. The success of initiatives like the garden and compost project at St. Bonaventure's College depends upon a wide spectrum of such aroune which support one another. In many ways this mirrors the health of a well maintained organic garden - diverse, with different shapes and tastes but grounded in the same soil and working for common betterment.

At the same time addont fixed advantiant resonance in the experimitivy to work with a wide variety of community partners, the Mark Witson at The Outhing Place Experimental Galos and Males and Males habitwowle at The Outhing These Experimental Galos and Males and Males habitwowle at The Outhing These opportunities brought with them the experiment of parting distribution and planting assigning based and be expending by a comment flow physical experiments in the moreover homewich, Receipting during data grade and an outcomposition to one thing. The

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experience of planning that seedling in an electrated from composed experisor. How was granine learning at work. Some madnets have also given discussions about our greedwark and compositing proposes. How So, Also Y, Harver, Yankie and the Compression Neighbourhood Association, turning on its head the indust trachers hierarchy. The ability is stand, where, to help from course at the loss of galaxies, that here one of the next severaling and surperside. History for project.

### 4.5 Summary: Our Garden's Place in the World

Our project can be seen as an attempt to recapture "the commons"- the meeting of the human and wider biotic community within a given bio-region (Bowers, 2006, p.34). Through such meeting places do we reinvigorate communal relations. The commons as Rewers articulates it is a move away from the physical isolation from one another that marks contemporary Western society, in the form of suburbs and individual motor vehicles. Instead we must seek interration between human, animal and plant communities that share bio-regions (Bowers, 2006, p.35). We may recognize, intellectually, the need for this printegration of the human world with the natural world. As such we might posit, even acknowledge, that global warming, soil erosion and water destrudation are harmening and caused by human actions. But what stops us from stepping forward is our perception that none of these constitute an actual threat to our way of life. at least in the western world, or perhaps more importantly on our wallets. Not yet anyway (Monbiot, 2008, p.33). The rhetoric of an approaching ecological calamity is countered by the resounding echo of the costs of tackling said problem. It has become an either or

distatory with the new sources of the economy, job or forsts. To Study's economic and socked nature que is emiddled as infollable good. Environmentation stude is this howy arguments becomes an evel in their at any any any and the matter of consoning parets, against the nature que (Riskin, 1988, p. 24). Ye we miss our on the dated down and hopes for the future we all abase as citations show use pendent such hope (mission) in this state, and the set of the state state of the state of the state his Gain. Theory (1977), where all the is insurremention? James Lowelds used by the list Gain. Theory (1977), where all the is insurremented and is turn monthus Mutter Earth hard is found in the obviouse of an dostructure couloid of Mutter. The chanical aintern and opticides that kays folds any worked on et aling the prost virus of the world every spring and summar where they collect into grant parts of channika diverse and properly. Also, is not adjust in the owner of recycus, (chanka, Mucha, 2007, Zanguegh 3).

This is one of the effects industing algorithms has one workfl, brighten is a diverse from the natural workf, Parkne, it highlighten the sons of a summarise which planes diverse from the natural workf. There, we will the natural workf. The Christian Bock of Genesis has become a relic to the degress of systems plane that the contribution postque that the sons of the sons and the sonset of systems plane that the sonset in system strate, one can be a sonset of the sonset of systems plane that the sonset of the sonset of the sonset of the sonset sonset one can be a sonset of the sonset of the sonset of the sonset of the sonset due contents on the sonset and the sonset of the sonset of postems plane has been due to the sonset and the sonset and the sonset of the sonset of the sonset and the sonset due contents, the sonset for the sonset and the sonset of the sonset of the sonset and the sonset due contents are been ended by the sonset and the sonset of the sonse cosmological story recognizes the workers of the workl, some of which we are only beginning to understand. Many more have yet to be discovered. We can find the cosmological story in the stadden spurt of growth from a zuechini plant, ponderous vegetables scenping at the ground.

These issues are at the ideological heart of the St. Bonaventure's College garden and compost program. Through them we recognize the issues earth is grappling with which have shaken, by many accounts, the ecological foundations upon which we base our own existence. The story of our project, grounded in a small city teetering on the very edge of the continental shelf, is part of our attempt to help this place. St. John's, Newfoundland has until quite recently been absent with now de jour environmental action like recycling. Still there isn't a viable composting initiative in the city. This leaves a rich vein of community activism for environmental action to be explored within this locality. Through this thesis, the acts of composting and gardening have been shown as a means to work with and know intimately, this place. This knowledge can be further littled to the provincial curriculum in classrooms, and with the work of other community groups and teacher partners like FEASt and The Gathering Place Experimental Garden. This is how we tap into the possibilities for intergenerational teaching and learning which serve as a nowerful counter argument to globalization's blunt goal of profit (Bowers, 2006, 150) and magnify the power of this project to foster new possibilities within this locality.

There is a caveat to all our work here. "We are caught in the paradox that we cannot save the world without saving particular places. But neither can we save our places without national and global policies that limit predatory capital and that allow people to build resilient economies, to conserve cultural and biological diversity, and to preserve ecological integrities" (Orr, 1992, p.170). In recognizing that our project parallels the work of other projects and intentions to help save specific areas we find common ground across a multitude of localities. Yet without some kind of national and international framework to work within, these good works are isolated narratives. This doesn't allow us to squirm away from responsibilities to our surroundings, to shrug away the problems of pollution, climate change and soil erosion as irrelevant to us in the here and now. Rather, we must take a page out of Yvon Chouinard's book. Founder of Patagonia Inc. he denotes a full 1% of the company's sales each year to causes that benefit the world. "... The cure for devression is action, and action is the basis for the environmental philosophy at Patagonia..." (2005, p.190). Action was how we would encender new possibilities within St. Bonaventure's College, amonest the students, teachers and the wider community of parents and relatives. It was why we persevered in all those meetings, because we found something tangible and viable in the possibility of the garden that was missing in our then everyday discourse.

Mike Rabinswitz told us on that prey, minty April meming that Newforndland was the besi place to grow lettice. It was richer in nutrients, prove better than styding produced to california, discisso or even Ottario, Til a durit to being screptical. If Newforndland lettice was to good why could's' is get part the provincial bodies? Why why the "Newfordiam themes take the comparison to the provision interment" To the fixed approach of the Work! Tank Organization to protect the filmup excees of the protes wart to resons to here all positioned from the minimal? My experision ingreed the million of a positione which allocated up 17% of 16 membry to approduce. Mile allocated up 16% of 16\% of

But the noise that bought down up exprisions was the summer braidbows of all farsy service between News Scatia and Newfoundinal in July of our first proving senses for the output of the sense of the sense of the sense of the sense Colffornia and in the state bear of July. The great refigured tracks likel, then that down. The instate papers to are and length or the single down in the sense measured within the sense of the sense of the sense of the sense Newfoundinal, cyncholizad our dependency on the global matter to provide us with summarize. If this match the was recently, when wald we down its howefounding? The sense work of the sense are sense, when we wald we down its howefounding?

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natural solution would be to return to growing your own vegetables, to shortening the food chain between grower and eater to the shortest possible ebb. As short even as walking from ones house to the box garden.

The ferry debacle raised in me the economic and environmental folly of our current system. We have given up food production in Newfoundland for the convenience of procery stores. Yet, increasingly, food prices are rising. Nutrient counts are falling in factory produce because companies seek out not vitamin rich plants and animals but those that can best be altered to meet maximum economic efficiency. It is cheaper, and not terribly difficult, to grow lettuce in Newfoundland. Educationally, growing food offers multiple lessons to students and teachers alike on growing, and maintaining crops. I couldn't say if Newfoundland lettuce is the best. But it's the best I've ever tasted. By taking ownership over food, by growing it ourselves, we are educating tomotrow's citizens about it. In planting seeds, weeding, watering and harvesting potatoes, tomatoes, herbs, lettuce, radishes and onions we instill in our students, and embed within our educational curriculum the active role of citizenship rather than the passivity of consuming. Citizens seek out what is best for the community within which we all live. We were, like Chouinard, acting.

Which is why similar projects like own seed to be brought into schools. Such experiences make education as very powerful tool indeed for change and the betterment of society (Davis, Sumara, & Luce-Kapler, 2000, p. 177). Therefore, the power of this projecto insterio ender groups to promote local ecology, to work to protect and find new avenues of interaction with the world - while it has not always been enacted - makes it a powerful educational endeavour for the betterment of St. John's.

# Chapter 5: Curricular Links to the Garden

We instand a composite program 4.8. Bomeventure's College because we for that is use susted to be therweing assoc organic vanue. We began the gradeo program in conjunction with the compositing because there is the most natural fit between composed and and parkets - where done can provide metricini and 10% As we proved with there we spectra the related approach was use the north of the distribution the ngular, days to day instructional mechanics of the clasmoon. This multitation came about as we ransigned the treat-basesson, mentility-annshing about a closurelism entity and the treatment of the second second second second entities show we use up is to smitsch ender the event of our preparement white the school and community. A chance conversation with a parent led to a situy shout her employees antaling a school in totation shere greenhour work was part of the preserved corriculum.

"If you do something like that, let us know. We'd like to be involved," she said.

We had harnessed the energy and talents of a strong, vocal minority of students in the junior and senior high grades. The immersion of our project within the duy-to-day curriculums of the school would emment ins viability. Further, the power of the gradem compliments the orientame-always has. As David Ore regulation

"farms were schools of a sort in natural history, cooling, soils, storess, wildlife, minuh husbandy, and hand un. The decline of coologically diverse farms and the experience of the natural world that they fostored explains in large part, 1 think, the increasing gap between the broad support for environmental causes evident in public opinion public and a growing increasence of how ecosystems work and how private consumption and economic growth destroy the environment. In other words, the sharp decline in the number of farms and the shift towards industrial agriculture has had serious consequences for our collective ecological intelligence" (1992, p. 117).

## 5.1 Origins and Examples of School Gardens

Sir Albert Howard, a nineteenth century British trained mycologist, copied the methods of the Indian farmers he was supposed to be "reforming" with the methods of modern aericulture and was amazed that he learned. "how to erow healthy crors reactically free from disease, without the slightest help from... the modern experimental [farming] station" to which he was attached. What he found in these uneducated farmers was a holistic vision, a balance between the human and natural worlds wherein they could discern what the earth could provide (Myers, 2005, p.51) - the very opposite of Orr's lament. Fannie Parsons noted in the early twentieth century that, "city children are alienated from their birthright of trees, fields and flowers..." To correct this she founded the DeWitt Clinton Farm School in New York City (Lawson, 2005, p. 36). Farm schools were seen as a means to energize students with ricomus hands-on learning of farm work. permaring the soil, sowing the seeds, watering the fledgling seedlings, weeding and later harvesting the produce. So successful were they that Philander P. Claston, the Commissioner of the United States Bureau of Education in 1916. declared "I look forward to the time when school cardening and home cardening may become an integral rort of the work of all schools" (Lawson, 2005, p. 37).

Farm schools such as these have largely given way to the demands of a society that demands results, from grade school to the boardroom. These results are largely profit-driven. But some agricultural programs have found their niche, and flourished therein. At Martin Luther King Jr. Middle School in Berkeley, California an old parking lot has became a garden under the tutelage of local chef Alice Waters and the enterprising vision of Principal Neil Smith, Known as "The Edible Schoolyard", the garden incorrorates lessons in science and social studies, as well as offering healthy fare in the school cafeteria. Science because within the garden students can study the burgeoning growth of plants, see the interaction between plants and insects, find on the very doorstep of the school the life cycle of a whole interconnected web of life, human to insect to plant to fungi. In social studies there was a recognition that food and its preparation are at the very core of culture. For the many students from Mesoamerican lineage, the growth of maize/com and subsequently its preparation into food allows them to tap into the rich cultural and historical connections that emnower students within their culture and allow for conversations to bloom about multiculturalism (The Edible Schoolyard, 2010, edibleschoolyard.org).

The facility of Life Thermorchip in the United Englows offers an interesting matinul example of abcolo making use of organic gathening to find analons, to provide the phosehe in low-communities and abcard analons in the modern to the just shat is prescribed by the carticulars. Herein students gathen and vegetables on the school grounds which teachers make use of its classes. When stud produce its interested is indere used in the acheol cardients are drated by the for bubbs and the indexing. In reference to the forese, school participating in the Tool for Life pregram have need once students enting shock calculated calculated from and a decrement in balancing problems (Food for Life, 2016, foodilishifts ang shi). This supports the shock has transfer absolves these food provides hardly summanice the young people that processed food which by their way nature are labelin in subs, finan and sugar - singly can net (Missa, 2016, p. 149). Linearly handhood is shock have participant and bridged a sustain animal hasheadly, guidening, weating, haveneding and having (Pood for Life, 2010). Roothing was kin, haveneding and having reading and living (Pood for Life, 2010). Roothing was kin.

Finally, the Evenda Fam and Evenimental Learning Correr souther Hildhourgh, Otsaviris is 5-9 area mixed fram which effers subsuch and intermetal individuals the opposingly to locate farmes for a day. In this regard they previde trans and locases, fixed to the provincial conclusion through hadro-interming. To have m a fam is to do. Sion et alsy do hey noise guides and elicitet and grows regardless, they alse directly young people interpretating to heater and excitence, they do guides the hadro-interpretation of the source of the source of the source of the heating sources with heading ystams shick methins in health people - students included Urstandie Concerne Dem 2016, so effective or Pri-

This is not an sile connection. As Michael Pollan notes in In Defense of Poods "IF my explorations of the fixed deals here angles on anything, it's that it is a fixed shint, and all the links are in fact linked, the health of the south to the health of the plant and animals we call, ... to be health of the south of the south of the plant and proceeder on the health of the carter, in by domain Miral (2006, p. 141, 15 mp rindla) you cannot enally apprecise the isometical without, its source way, being tangging connected to the "Links, the camples of The Eddies Schoolynel, the Trade for Life proceedings and the callor and the importance of health product proceedings and the callor and the importance of health product product the source of the the importance of health product product the source of the sourc

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derived from organic gardening for communities, of which students and schools are a most important part. They help reinforce the power of gardening, to bring alive lessons which might otherwise stagnate into mere intellectual exercises.

### 5.2 Our School Garden

In using the gardens and compose this which are the physical trappings of our project we, as obscates, can traverse the proclutons find line of the "humanial Chemical trapping the market contrast y weatern acciptor - white the construct of the earth for short-tem profil without addensibility that the transmission generations - to a new suminable footing and the beliefs: visioning of the "Ecossic" any (O'Sulface, 3002, p. 4). Herein, an tachers as and mathems te may find our hu and delight in being date on a prostructing the mathems.

It is notice marks in to cash is new by we embrated the childrenge told down by Makhike to be a part of something branker this morehouts, which speket to or community at large. By becoming sponses of food dampials car athents, David and I were it net oblighting are attenders to version the finite for damperature shares that outstaching service that the two beyond the finite of the growsystem. It happensite outstaching service that the strength of the strength of the growsystem workshop on our project term in finite part that must be athentic had community workshop on any project term infiniting in them in the particity of community of the strength of the strength of the strength of the particity of community of the strength of the strength of the strength of the particity of strength of the strength of strength of the strength of the strength of the strength of the strength of strength of the strength of the strength of the strength of the strength of strength of the strength of the strength of the strength of the strength of strength of the strength of the strength of the strength of the strength of strength of the strength of the

Our composting project was well-received, within the school and outside it. There was a measure of neer measure from students to make ourselves, as a school community. accountable to the local environment. We were committed to composting. Yet at the same time we had a great deal of ignorance about urban gardening. We came to realise that, just like citizenship, gardening required us to do some homework, to become informed. We mirrored Masanobu Fukuoka who becan his working carrer as a plant researcher, specific to arriculture. While employed in this field he felt there were better. more natural methods to be employed towards aericulture than the growing reliance on chemical sprays and manipulations he saw as a researcher. To prove his hypothesis he left his job and set out to grow naturally, without interference either physical or chemical, in his father's tangering orchards. "The result was the branches were intertwined, insects attacked the trees and the entire orchard withered in no time" (1978, p. 13). This failure resulted in his return to agricultural research, this time as a consultant. But it afforded Fukuoka the opportunity to became attuned to the methodology of organic farming. through his work. He immersed himself in the lessons of local farmers and garnered success to the point that he regularly achieved yields of rice and grains well beyond the purviews of modern agriculture. "Since advanced technology had nothing to do with erousing this grain, it stands as a contradiction to the assumptions of modern science. Anyone who will come and see these fields and accent their testimoty, will feel deep misgivings over the questions of whether or not humans know nature, and of whether or not nature can be known within the confines of human understanding" (Fukuoka, 1978, p. 29)

While such yields are possible, we haven't achieved them yet; we need to spend more time with the land, with nature. We do not begin at a position of intifligence, of understanding. So we have sought out and listened to expert in like Alika and Metha Rabinowitz at The Organic Farm and availed of community groups like Food Education Action St. Adult 'UFEAS0' in order to get or own gardening project spens.

In this rapid, having understood shows we bugs, we see wait very concerned with maxing the project forward so that is ringifie to the third of time. Were we succeeded in similarity, garwing coverage in the load multia (Par Triegnen, Neumber 2008; Clife Radin Nison, May 2009; Par Essop, Ab) 2009, we user produce to exit be parallelistic of aphringing the risk between 4 the just in Friege into dying, and an array quarking. Articidging the cirk between 4 the just in the just nor an attechand in a clinearia 2.7. "The Los Cold formed man of the dare of the growing and standard lamb is non-level at Cold formed man of the dare of the growing and understanding, where are project reliad to a gard scenario a View (Weither 2008) intelligences of clothers, with the spiritual undersjoining of Routh theory enables Uncoming genergent, difficustration Rout million to me queritum:

 What influence can a compositing and gardening project have on a school community's curriculum, both in the classroom and outside of it?

 Could the St. Bonaventure's College composting and gardening project offer other teheols: a model of working with community partners, local experts and government accords that they could emulate?

I would like this project to have resonance beyond a master's thesis. I hope it can provide for teachers, parents and students a working example of how organic gardening can be bridged successfully into the classroom. This may be as an out-of-class, hands-on learning initiative. Or it may be a contemplative, reflective exercise based upon the earden in the class. This dissertation does not provide ready-made lesson plans. Rather, in taking specific curriculum objectives from the Newfoundland and Labrador curriculum, I hope to show where the garden and compost project links to various subjects. I am not a science teacher, or the most gifted math student. But I can still see where this project would fit into those classes. My hope is that other teachers and/or community eroup leaders will do likewise. Finally, the earden and compost project has been greatly influenced by the Ignatian pedagogical paradigm of experience, reflection and action. I would suggest that in bringing a project like ours into a school community one invokes. even without trying, a sense of the sacred. Edmund O'Sullivan in his essay The Project and Vision of Transformative Education addresses the idea of spirituality in the contemporary classroom. "Contemporary education today suffers deeply by its eclipse of the spiritual dimension of the world and universe... It [spirituality] has been compromised by the vision and values of the market... Our first and foremost task in life is to take hold of our spiritual destiny- a phrase that is not a household word in education. Nevertheless, we must begin to consider education as a spiritual venture" (2002. n. 10). Holistic education isn't possible without an identification with the spirit. Further, students cannot know their world, physically, mentally or spiritually, without being grounded in it tangibly. This is why compost and gardening need to be brought into schools. It is what drove us to become erowers, urban farmers,

#### 5.3 Stories and Curriculum

Stories are the fabric of our shared culture, never more so than in the earliest grades. Children easily connect to stories. From them they wish to share stories of their own, which sometimes connect to the story told, and often not. This was my first lesson when I began my teaching career in Waltham Abbey, England. Though trained as a secondary school teacher I found myself instructing first Year 6, and then Year 3- the British equivalent to Grade 5 and 2 in Canada. I quickly had to become adept at understanding fights rooted in who had taken whose football, understanding that pants was British vemacular for underwear and that, if I wasn't careful lessons could be boroed under by stories about last night's football match, horse riding lessons good and bad, really needing to use the loo, and the adventures to be had along the local caral bank. The trick was to turn the stories into the lesson, to incorporate student voices while directing their vision back to the objectives at hand, something which comes only by listening and a strong dose of notience. But students' need to tell stories is moted. I believe, in an excitement for the material. They are trying to make school and stories relevant to their own lives and the lives of their classmates. "All humans are continually 'inventing'; we are all caught up in a creative dance of invention and interpretation ... Learning to understand new experiences in relation to remembered and predicted experiences is a form of creativity" (Davis, Sumara & Luce-Kapler 2000, p. 195).

In approaching the Newfoundland and Labrador curriculum, then, one must be cognizant of the role story can play - for students and the teacher - even within curriculums not given overtly to stories. The manner in which we learn isn't nearly as clean-cut as we like to stereotype (Davis, Sumara & Luce-Kapler, 2000, 72).

# 5.4 Science and Mathematics

Part of the Grade 3 Science curriculum, Plant Growth and Changes ( which can be accessed at Primary Science Curriculum,

ed ooy nJ caledu/k12/curriculum/mides/science/primary/or3outcomes.rdf), asks students to study the life cycle of a plant and, "observe and describe changes that occur during the life cycle of a flowering plant through written language, pictures and charts" (Primary Science Curriculum, 2010, p.124). Herein students can use the ready story of the plants aroun in their nuclea, from need to needlines, to flowering plant to zurchini laden vine to most the outcomes. Students are later asked to "describe how plants are important to living things and the environment" (Primary Science Curriculum 2010, p. 126). This demands again an appreciation of story, but of a different genre. Rather than centring their stories on the plant, now the plant is part of the broader context of life that nourishes life. Students can quickly understand that plants provide neurishment, via pollen, for bees, which create honey, which recycles sustenance to animals and records. Grade 3 students could also are how prowing vegetables organically - particularly from composted soil - helps the environment because they aren't using sprays or additives which kill other plasts or insects, which in turn can harm other animals. Having understood the stories of the plant, and the plant ecological communities students could find the stories of people whose lives are intertwined with plants.

"Report to the ideas and actions of others, such as former, guedeners, environmentalian, guecers, and leagues, and acknowledge their ideas above the new and reportinging of priority. (Priorary Science Carrisolana, 2018), 2129 Thus, students come to find the saviers not only of poople, itselading themathyses as when guedeners, but also of plants. They sold come to use that we are assumingly, bring sharm however display the series and their competitional stretchers.

It is more voided in the guedes, instands to the network of the partner themselves and guedeous students can be only here a known emproved into and inderivational of the set memory notice and the multiple trutch days compared by the set of the set of standards and a set of the set of the set of the set of the set of compared and the set of the set of the set of the set of the sectors, then the set of the set of the set of the set of set of planes sensingly, water, well, materian and watersh. This match the growth of planes sensingly, water, well, materian and watersh. This match the set of the sectors, from sense the set of the set of the set of the set wildly wetlers. At the cose of each known are the induced docriptions of hour planes are important to living height and the mole sense with the sector the the sector expected with working in the planess. Such work height forth the nucle that the livenesses, and induce trutches.

In Grade 4 Life Science: Habitats (accessed at Elementary Science Curriculum, 2010, ed. gov.at.ac/adu/at/2/curriculum/galdes/science/elementary/gat.pdf) students look their effect on animal, plant and human lives. Students are asked to conduct research specifically upon animals and patters, and their interactions. Students are asked in an

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outcome subsectioned Habitat and Populations "to identify their own and their families" impact on habitats, and describe how personal actions help conserve habitats" (Elementary Science Curriculum, 2010, p.28). In the context of the comnost and earden program students might see how composting organic wastes could be beneficial to habitats in that compost provides nourishment for a host of lifeforms - microbiotic. funeal, insect and mammalian - as it is turned from waste back into soil. As well, students could examine how composted soil can be reintroduced into gardens and provide invaluable nourishment to seeds that blossom into vegetables like potatoes, cauliflower or zuechini squash. Students might then contrast their use of composting and gardening. which has a positive impact on habitat, with what they do at home, which may or may not have a positive impact. In Collecting Scientific Information Using Models of Natural Habitat students are expected to, "construct and/or maintain a model of natural habitat. and use it to make observations and collect information about preanisms in this habitat" (Elementary Science Curriculum, 2010, n.32). The compost bins and garden provide ready-made natural habitats from which it is a straight-forward matter of venturing forth to collect information. Menale removing the top of the compact bins brings students into direct contact with a heat of life forms. Depending on the season students might encounter humble-bees nollinating zuechini flowers, beetles roaming the shady underside of notato plants, rabbits scarpering about in the relative safety of dawn or duck for a nibble on a kohlrabi bulb. Organic gardens not only nourish human lives but celebrate the diversity of life around us. Having experienced the compost and earden up close students might. "suggest improvements to the model of the natural habitat and make it more realistic and habitable for organisms" (2010, p.32). Understanding that compost happens

both under ausenbic confidients - that is, in an expension atmosphere - and in expenrisk, or archite confidient students might usagest one is more conductive to the promotion of various organisms. For such a comparison to that prices underst more be expected to shoth variations of comparts. Students might also compare organism famility, found within the school project, with industrial familing and make conclusions to to which promotes organisms better, for all roads boeffer of plants, minima and humans.

Needendard vare neuendly successful op wild be side settemitte entropy uning multi-necks, local, erganic agriculture to apply the grown segratabiles and patteres dischars word lave a charable of parts in applyment their disk. Ver we davit, na Tabla Charab Maryu sassetbes, competer well is an industrial agricultural to most in a transition pathelly, because Needenalized mellines from a lavel. It also that has all to its trafferhesing deependentity of pathetic applyment and the site of the site harman deependarity to experiment agriculture and was associated paramally. There is listed to experiment agric market competer have and organized to experiments and pathetic methods with the balance, not of was componency into or devolutions and the same mating area that the site and hard balance and sussatisably. By shale tasses mating area that was a larger to local durity for mere on only balance for associate growtime or distance.

That such lessons might be beyond the scope of Grade 4 students is belied by my own experience in getting the Grade 4 students at St. Beauventure's College to take over the composite grant of the project. One two lessons I went into their class and brain stormed the importance of compositing, in lessoning our environmental fordprint as a tooloo and the second-time compositing reaction of the heiry class and plants.

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Students showed great insight into the publicities for comport to provide involution students to plants. They did this by making conservation between the controls must students of their passes's just in segarable garabining, sharing humanon takes of the surrougests in part of the food chains, the interconcented with of Hifu to which they the surrougests in part of the food chains, the interconcented with of Hifu to which they the surrougest is part of the food chains, the interconcented with of Hifu to which they the surrougest is part of the food chains, the interconcent of which Hifu to which they the surrougest is part of the food chains, the interconcent of which Hifu to which they the surrougest is part of the source of the start of the surrougest of the start Hifu to methy start of the start of the start of the start of the start the start of the start the start of the s

Interitely and high short of nations takes have may for future; and ruphity. Tody's generations are accound of environmental antivisenses, their binnes befolded by how in front of video geness, accid attention tips the and technig. While it would containly be a metch to suppose that all matters are interested in gradening and/er comparing, within the context of the compost and gueden program at Sk. Bonsventra's Configure with the video all minity matricipantly willingly with their intera drift and an anticy of the gradening willingly with their interacting and even worksahe- to make the program succertific. There have reserves moments of manuschands find at grifting dires, as associng patteres from the ground and rading coursity, even and coursely, seely briefly the Word to make also moment annaliable to addressents if, as a society, we wish to balance live heresen technology and natural evisionments. That is, what Rober Jyle term "aware lineary" man agains promany "inframediated actional direction" (2017), p. 253).

In Grade 7 Science, Unit 1 students look at Interactions Within Ecosystems (secessed at Grade 7 Science Interim Curriculum Guide, 2010, ed.gov.nl.ca/edu/k12/curriculum/guides/science/grade7/unit\_1\_grd7\_science\_edits\_Jane2 010.pdf). In looking at the Relationship Between Science and Technology they are asked to "provide examples of scientific knowledge which has resulted in the development of technologies" (Grade 7 Science Curriculum, 2010, p.21). Within the context of arriculture there are two distinct scientific-technological examples: the industrialarricultural example and the organic/ local agricultural example. In examining the industrial agricultural model students might note the success of the Green Revolution, wherein with the aid of pesticides and new seed varieties crop yields rose sharply in the 1960's (Myers 2005 n 66). However, this reliance on external imports constitutes a financial burden "which often reduces profit margins, despite the increase in yields. In industrial countries, farmers are now tied to producing as high yields as possible in order to maintain the increasingly small margins necessary for financial survival" (Myers, 2005 n 30) While science and technology have succeeded in learning a lot about how plants grow, and in developing pesticide-resistant crop varieties, this has not resulted in more food after the initial success of the Green Revolution, or in more nutritious produce. Crops grown with synthetic chemical fertilizers grow more quickly and develop shallower roots because nutrients are available to them at the surface of the soil. Because they grow so quickly, without the need of deep roots they accumulate fewer nutrients from the soil. As well, without the need for composted organic matter in the soil per se, those nutrients are not present in the crop-yielding plants of conventional farms (Pollan, 2008, p. 120). Students, having watched Food Inc. might grasp such shortfalls of industrial agriculture relatively easily.

Organic/ local farms tend to be smaller in size, growing a variety of crops. Such farms often make use of "green manure"- or cover crops of clover and ryo which are

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tilled back into the soil where they break down, providing nitrogen. Such farms also make use of composted organics, including manures. Again, these provide nutrients that revitalize soil and plants both. According to Masanobu Fukuoka "soil left to itself maintains its fertility naturally, in accordance with the orderly cycle of plant and animal life" (1978, p. 34). This is not a departure from scientific understanding of the land, or the use of technology. Rather, we need to revise our definition of technology herein, F.H. King, an American soil scientist in the early twentieth century found that Chinese, Korean and Jananese farmers were carable of feeding nine times as many people off an acre of planted land compared to Americans. This was at a time when American farmers were following relatively benign agricultural practices towards the environment. This intensive, organic farming demanded that everything be recycled back into the landplants night soil, even clothes. Furthermore, farmers made best use of the land a rearing fish in irritation canals, prowing vegetables beneath orchards, and the inter-planting of a variety of crops, for example cotton with wheat, to mutual benefit to both crops. This meant that farmers had pest control on site (fish feeding on insect larvae), no superfluous land use needs and a keen understanding of which plants onew to mutual benefit which could only come about from protracted exposure to the land and experimentation (Myers, 2005, p. 40). It was this generational process of experimentation, documentation (albeit, passed along orally) and understanding which allowed lands in near continuous use for forty cenerations to be amone the most productive farmlands in the world.

Crops grown on organic famus, notes Pollan are forced to fend for themselves and thus produce "phytochemicals - the various secondary compounds (including carotenoids and polyphenols) that plants produce in order to defend themselves from pests and diseases, many of which hum out have important antioxidant, anti-influenzatory, and other beneficial effects on humans" (2008, p. 120). Thus, in socking to maintain productive take the increasing mathers of people, forms in China, Koren and Japan managed to stratisfic upon the recensity of compressing, making use of the technology available to them to control people and promote soft firelity while (analorizetty), peeluppi creating nover matritisms finds. Stuck lowners and down't how the resonant all the more properties blass indices acide to work within a manifer from context. Furthermore, the above leasans also allow andorns to, "describe how matter is recycled in an ecosystem through interactions among parts, animale, flengi and microreganisms" (Hadde 7 Stores) ecological systems. 2018. State

Environmental Science 3205 (accessed online at Environmental Science 3205 Curriculum Guide,

or ago or a constraint a particular sector sector sector and the sector to look at Forenzy Europeanum, and either Mining or Agriculture, when within a Norderandland construct. The low sector have a guide mining and or composed has are available the following concourse might provide advances, and tracknew, to utilize and its three high derively duras. In the example of Physicial Contraction Physics (2015), 23.8 minimum and the S. "more staging the new of Physician Contractions (2015), 23.8 minimum and the S. "more staging the new of Physician Contractions (2015), 23.8 minimum and contractions and structure. 2020 Contractional Contractions (2016), 21.95. Milliam much has been made of organic agriculture? womes to make hard less mitters on participants of respectively which are programs has made and et Alterniting minimum and have breen made and programs has made and et Alternities may and their traits minimum at balas in the promoted have proved and and the programs parallelistics for regarding which are in the promotes parallelistics for the minimum and the entire structure and the promotes parallelistics and the result which are programs has made and et Alternities and structure and the provide compared balas in the traitest and the promotest parallelistics and the result which are the provide and the promotest parallelistics and the provide compared balas in the traitest and the provide structure and the provide compared balas in the traitest and the provide structure and the provide compared balas in the traitest and the provide structure and the provide compared balas in the traitest and the provide structure and the provide compared compared balas in the traitest and the provide structure and the compared compared balas in the traitest and the provide structure and the compared compared balas and the provide structure and the provi plants grown without plastic mulch to those grown with, seeing the possibilities for cropdevelopment in a heat-challenged province like Newfoundland.

SEO.7.1 arks industin, "scriptin the mior of Tervisionmental Faur Mann in promoting sound envisionmental fauro management" (Drivisionmental Science 3280 Catchalan diake, 2018, 1.216), holtes, how are firme stypic to become instainable? Whith a local economy where envisionmental impact in manural actually by the uplot of stars, the matrixino providing by the produce and the built and well-being of the strid stars, the matrixino providing by the produce and the built and well-being of the strid stars, the matrixino providing by the produce and the built and well-being of the strid stars the string of the string of stars and the string of the string stricture is in x-very performer quencing. In batis into a larger dubt method the string of specification of the string of the string of string as low the Neis of the string 1.216 data students, "strength ensures for specific the minimum of due to screen climatics conditions and groupperplicit dates, then by firming to introduce strengt strength strengt due to screen climatics and strengt str

In looking at the sience courses shapefuer - and the adjusts examined here are just a supplied. - I shink it is important to keep Stephan Jay Godd's you work in initialerator with this hard to save opercises and environments which for farging an emotional both howeven sometrees and mattern as well - for eve will not fight to save with an ord *i* and *lowe* [and/see market]. The second with the properties of derivative outform derivative outform of the second second second second second second second. "Science, and the is diverse to second second second second second." Science, and the is diverse to second second second second second second. "Science, and the is diverse to second second second second. "Science, and the is diverse to second second second second." Science, and the is diverse to second second second. "Science, and the is diverse to second second second." Science, and the is diverse to second second second second second. "Science, and the is diverse to second second second." Science, and the is diverse to second second second second second. "Science, and the is diverse to second secon allowing students the opportunity to connect, physically and tangibly, with the world through gradents and composite we enable them to see and connect with the world in the most infinited way. This fosters understanding, a desire to learn, a willingness to seek out new averances for a studentabular growth for musal benefit. This is low,

### 5.5 Humanities

"Nature is the true home of culture."

Bob Henderson (2007, p. 149)

Schools operate within the funk of growing up. They are immersed in the sweat, and sometimes the stink of carefree exuberance and energy, the turbulence of adolescence, the frustrating distractions which present divergent curriculums to students and indeed the rest of society. Yet lineering beneath the surface is a desire to be part of something greater in sum than its parts, to be part of society as an individual, as "a person undivided from the whole - a meaning arising from an intuitive and spiritual understanding that richness and uniqueness emerge from deep connectivity" (Selby, 2002, n. 83). The Humanities - history, literature, religion, philosophy - examine the human condition. In essence they are comprised of the manifold lessons of growing un. falling in and out of love, aging. Done properly such courses can allow connections between students and the curriculum students and teacher, school and community , to be fostered through neak experiences wherein we. "cultivate inner journeying within our formal learning programs... which speak to mindful, still, and slow learning as a counterbalance to the packaged rush and treadmill of transmission/ mechanistic learning and the swift-paced quality of much learner-centred learning" (Selby, 2002, p. 87).

Examining not only the human condition, but that of life writ large in

commprozy saking informal by its historial most frequise presences of their bealities, their homegines, studenti lears, "We value of names field coalabor life,", their bill by four lass lifestige the distance information of the present humanes and to developing responsible and well sensated people with the addity to e-operate in the local, as well as global community" (Dahle, 2007, p. 31), in utilizing the garden and opport program within the humalies see can also the propertied charactural learness to spring facts. Studies of Newformland history, of commprozy poetry util or religion are allowed to bissions to their field text within a physical, taughte experience of granting and or competing.

The Kindergarten to Grade 2 Social Studies curriculum (accessed at Kindergarten-Grade 2 Social Studies Curriculum Guide,

of got at archivel 12-periodian gives because that the 22-periodia (1) with 2 who at Environments, SCO 12.2 states that "indexines will be expected to detectibe how people degrad got and interact with different statuatie oversiones" (Schlarghurte-Grade 2) Scotel States Carriedona Orade, 2018, p. 119). This they index's prior camples of how natural environments influence handwise the control of the degrad data is a state of the state of the state of the state of the state and any other states of the state of the state of the state of the state data to damp, out environment and the group pelicite happenetases of being an island in the Vieth Anna, subjected to high which and mins which score areasy at the oil. The State State of the state will be expected to dominantia an understanding of the factors that influences how needs and wates are more "(Eukedgestrom-Grade 2 Social Statilies Controlsofts 00084, 2010, pp. 53). Specifically, standard "recognistic the early offic propels to co-operative earls often in their community to more their various modes and wates" (Eukergraves-Grade 2 Social Statilies Controlsoft on the statility of the statility control gene the need in oddy 2 word for a helping hand their publical carrent, but also rethe basistance containing or the length environment the statistics could be ablanced and the statility of the statility and an eighthown have to variobalts in the parts. The statista the is ablance, and the property temperatures of the parts.

Data E Sucial Studies (account al hive/module of al classed Thiory A Carriedma Golde, edger of existed X23 source/main picket/weis/andmed/system/2,33-Carriedma Golde, edger of existed X23 source/main appendixity briefs. The project with corrections, Faffachiv with the audomic. For example, the 12th 21 study as a fluxy of Poople radiest are expected in SGO 23.7-to formation and the endowing the occountic existent of Hospite of Norf-formalized and Landaux propties in the Y<sup>®</sup> Charge, "Thia (2, 3, 1, % baseline the impact of the physical environment and classes on how people mades a living" ad3.2.3 video the two with advances correspond corresponds to a living with an expected for the y-solution correspond corresponds to a living with the provide of the solution of the correspond corresponds to a living with the provide of the solution of the correspond corresponds to a living with the provide of the solution of the correspond corresponds to a living with the provide of the solution of the correspond to most of koddy studies. The the two mathematics eccorresponds with the meeting to most of koddy studies. The dot two studies eccorresponds with the meeting to most of koddy studies. The dot two studies corresponds with the meeting to most of koddy studies. The dot two studies corresponds with the solution of the PO Centry (visc) to responding with only the insteam of the corresponding to the two of koddy studies. The dot two studies corresponds the solution of the PO Centry (visc) to responding the studies to respond the solution of the PO Centry (visc) to responding with the solution are studies to respond to studies to respond to the studies to respond the solution the solution the solution of the PO Centry (visc) the responding with the studies to respond the studies to studies to the PO Centry (visc) the responding with the studies the responding with the studies to studies to the responding with the studies the responding with the studies to studies to the responding with the studies to More in feg. Island by min and wish, prove to inso-optimal frames and any antom frame-upon-island, all the poculiarities of climate one might expect from an indication from the Network American emission and pachedia the final of the fingl Labade enteres - the growing assess in Newforkshift with a set of the final enteres - the growing assess in Newforkshift with a set of the set or information and distanting as a new galaxes and pathing protoco, using an oblique. Newfork grows and the final set of the set of the

Not biodings controls that "children eight billing in historia and studen shots. They lake up dots reand for seman and bags. I has been up experience that they also like turne the manner of glasma and insects — along any and the off takening intervited some sent of text." This names in infinition towards they which work is, but resting the shorts of the "like ingener exitcal inner earlierly of fail to provide the experiment messary to apply critical hidrage and/by" (Children 2). (16) Alson, it is harm smallly been the latter such that rankenin, takebens and the contribution for like the states quot of textermes — other three largers are true calabanet, adamantly are gained the statuse, parts where the controls which will be a used work." — The history that the states quot of the states quot of text controls which will be a used work." — The history text controls which will be a used work. The history has the states quot of the states quot of the states of the states quot of the states o Issues in its wire for halance and to worksome these extrators that help to preserve it to that extrane measures will randy have to be seed... Finding and using Imaging that the other respect while income for a gain in halance. In helps to believe that we may learn from those with whom we differ (2006; p. 163). For oriented thinking to work, Nichtling appear that students need information, from all susarge profiles. We need "prosinoite presend agreement" halance thereas an exclustorar and ficalizator, rigid control of neice charactors management and being too spens wherein "students will content of neice charactors management and being too spens wherein "students will content denotes with a domarker from of critician and become skilled but infording brunnath" (2006; 33).

Balance in the key to underlage sheathy, critical shear which more should, but so to is the experiment of smelling mercury to mapper, critically or otherwise table starts and the start of the start of the shear shear the shear shear which we all more operates. At critical shearing in a small-orthogeneral substatic endersone, particularly with inserting high shear's, internation, and shearing resolution of the start of the shear shear shear shearing endersone, particularly with information from all samage points as well as provide experiments with information from all samage points as well as provide experiments with high marks, humanities, mutha, sciences relevant and reladed in now sets with there are generators.

English 2011 is a pathe evanitation correct (accredit at English 2011) Carriechen Mark, ed. gav at a whole 32 conversions pather Englisherung 2011 is a, Apd), a such, this correct carry as mer annumble ancientism from whith on self. respecting tandow would deviate, the fuer being that students would become confused and districted by a partiplent conviculum tool. Yee, by shadwing the exams to colony and outset of the Doceal data all as the fit this wherearies students. Never them coming back for more. Roger Deakin in Wildwood recounts journeys within England's New Forest as a sixth form student, studying Botany and Zoology

"an extraordinary enhancional experiment... where each generation of an sixth form maturalists would return there again and again and taste the intensioning neurons of experiments and discovery in the value of conserviews. Each of a had a particular project, literally a field of inpairy, and the work we were doing was graningly original... What we discovered was particular to the place, and, best of all holowards with "CORK, P.1).

Here then use returns to place are a means of civical access. "The maph retaining the world (or the places in the world can knows) as "political text" suchers and relations and places in reflections and actions or protonics in one law understand, and, where mecessary, to charge the world" (Genessenski, 2003, p. 5). Daskin closes his reministence about his subsolibopt days by noting that even the induction, mans who take hold policy adoptions, using large-based-access hard access the induction of a placess for an the local access his hold maps. Access hold maps and access hold maps and access hold have meaning emissional annoheases." (2003, p. 21) ho noting ent properts, in a place, as an appendixe for enquiparent, of reflection and actions, we sho attoese mademin to his the meanings for its quarks that for ends."

While I am not suggesting that all students would be engaged with a garden project, I do think when the opportanity to examine them through covere objectives is allowed the both the owner and project on assessment most with middent and tackners. For example, in Unit 4 "middents will be expected to selest, read, and view with an understanding range of literature, information, ands and visual track" (English 2012 Carefordan, 2016; 13, 14, the baser of the towns in calmar lived for the wor define

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it itemps farmers. The needed and enseys of Wandel Beery, Hery Leeve, Thomas Berry, Machael Philam and Bill McKählme ensey for ha enseger of decay within our sommer control two baseds from logat action, seen better if it is local. Which thergs in SCO 3.3 "medicate their understanding of the ways in which inferentiates to us are constructed for a particular propose" and 4.4 "are the contept a and "spoliticate profetand medicate their understanding of the ways in which inferentiates to us are constructed for a particular propose" and 4.4 "are the contept a and" spoliticate profeand medicate their instanding and viscously and the spoliticate profetand medicate their instanding and viscously and the spolitic medicate proteed for find at anomesical hereaves which they tame shorts with the profession in the conbulg nadarant critically examine the work in which by live and sponter from a viscously in the state.

When machenic are adea," second wests on oldbacenicly integratementary single strainy of terms for second are advacence approved. The (Equid) 3212 Carcindoms, 2016, p. 20) they can find opportunities in writing and darwleging mories, phys. themsical presentations, presses and advaces are preserved and Carebo Project and Ta machenists - the physica or claim mories, the first of the worken-handling bails finds are disk at dist a neural over to several hereby phases patients the tain of error. Hor - was water maintone for a strapping of patients patients the tain of error. Hor - was water maintone for a strapping of patients, the conder the strapping and patients for as many on constrangenergy and bianviated from techniques, and so on and to finds.

Grade 7 Religious Education (accessed at Intermediate Religious Curriculum Guide, ed.gov.nl.ca/edu/k12/curriculum/guides/religion/grade7\_9/sec3\_gr7.pdf) SCO 6.1 adds students to "explore creation stories as found in selected living belief system" (Intermediate Religious Education Curriculum, 2010, p. 50). Therein students begin to compare and contrast such stories, to hopefully understand that belief can help us better avereiate the world in which we live within. That is, according to Thomas Berry

"the human mini access to the contemptation of the drive by mini through the various pathoe of being, from the physical forms of existence in the earth, with its monthins and easy, to the various forms of living bings, and so to the human mode of contoxiances, that to the soul, and from the inner life of the soil to God., Initiation into the basic human and Chotatian values was initiation into this contrology. Chattian apiritatily was had use in this matter. The psystemic of Chattianian version that this consuber," (1998, R. 1998.

Crution notes can about a propele and communities triet for propele with the minute of UKs, of Voing constances on if it and behindre to a greater proper than their entitication, is SOO 3, hiss "an appreciation for follow all things in structures are interactions" and the development of an "awareness of how the things in the section living behing you provide on the section of the section

That the Ignatins Jesuit Centre in Guelph, Ontario is housed on a 200-acre piece of Iand, including the Ignatius Farm which practices organic principles, is proof that religion can make use of nature and mankind's relationship with it. Lorne Jamieson, the Ignatia Farm manager notes that, "regardless of faith, there fails or well a smoothle sense of proces and drives purpose in all those who hambly shephed the hall providi "Ignation Farm Tool (Source Source). Former orner to exponentials for people to both commune and work with nature, to be in the fares: of life. Actions have drives meaning in growing, the such physical leasons can runnihe time spiritual mingle. After all, in recognizing the spiritual weight and the hambly of the hamble orgeneries (20 Million 2000), 100 Working on a pathon, norming compositude which will become soil we are also runnihed that though religion poses functions questions answers area and be showing how the howing fait single, nutmend up by a dimer proc spiration.

> For health, and strength, And daily food We praise Thy name

The garden taught through Religious Education offers an element of tangible divinity, of getting one's hands dirty and fingers calloued in scelebration of a greater power than ourselves. The physical movement is the yin to the intellectual complexity of the certains notey's same.

# 5.6 Summary

The garden and compost project presents students and teachers with unique insights to their local place, its culture and history, its geography and climate, its people. To not extend this project into the classroom is to short-change the educational possibilities. In speaking to the curricular opportunities of this project in the classroom I have offered a cross-section of examples of course outcomes, from primary through to zerior high school where nuclears and stadents could derive lessons directly from the project which are releast to co even asyment the litted derivels.

At the same time, by incorporating the guidea, with its bissom is not, encoder, clinate, biancy, endure inherent is it ware remponding to David On's constrain that, the biand of chandram was obligations with the remaining clinate available. It is not and formation at entire of chandram encoders and the method matter is a certain of velocation, on term or inductions "(1992, p. 126). Simply, these stanging log out at mission, although nat competitions, based from their encoders standards and an encoder of constraints, transformative bosomes for these and endure concourses and analysis areas the mouse of the simply and the content of a content of standards and standards are sourced to endure the simply and endured in the terms and expendition. Francisk method was standards, and strandards, because engaged with and vegatables. The single standards work do a nationary, and strandards and vegatables. Chapter 6: Lessons and Future Directions for Gardening and Composting in

# Schools

The BRC garden and compact program began integrit, Mayde the way we experienced heights and lows. These were days and veskels of framations, when this filters comparedian, charcing park of without resultions into wheeds freemped are persista bek. Bit there were moments of park jey, when the division between tenders and student than conset? Our second year harvest was more and events. Students from Conde 3-12 works of the second seco

We have some a long way in a trailetively about tions. We have hanned a Ak-Organic gathering requires user and employ the row memodings, the minute composes solution append all life. Composing closes the closel of 51d, resuming sources to extra well areas. Such known may be during the mysical source based on battering sources to extra well areas. Such known may be during the mysical sources are and an extra source of the during of the sourced as. This understanding includes both scheduric and the lowmine.

Looking back on the questions which have driven this dissertation:

What influence can a Composing and Gardening Project have on a school community's curriculum, both in the classroom and outside of it?

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 Could the St. Bonaventare's College Composing and Gardening Project offer other schools a model of working with community partners, local experir and government agencies that they could emulate?

To see that the gateban has had a problemal stiftnesses on the solucit community, and has the potential to happly influence how the previousli controlloum is mught when it is the domes thilly subconsome interactions as its in Mattrix Lather King haveling High's example described in *The Edible Schoolyard*. It also helps students understand that through gatebaning and composing they are actively minipating one of the most previous concerns of our finance-cliniter that high they are bosoning active cilitares, which it will captive in further dual balans.

The late when are program officer when should not community propus a periodient cample of whet can be achieved when one begins ading around. We have received somical has public when iterations, even when one perpositive were discill cancels on the gradients or composition has used by the set of the star attention they might being upon the movies. This required as to do more research in order to a effectively combine the missionsequents. How one program might periodically the of using the schedule and community groups in taking with the scene determin.

Trainly, strongh thai research process I because aware of one mersons for further research. Sometimes they were directly related to this program, at other times indicative. The pictoda the need of expectionid la analyze which the contemporary distances, of which faming is one form, the pressing trajenteent for more attact literacy to compliance the current rise is technology, science and multimetiation at the Dispat/Power of vectors charging on at induces and tackets meridiated and

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complications; connections which earls thereus name and the human world through the commune, family, the need for vocational electration, like agriculture, so that young people are prepared to been defined, active call requires in the must attant. In this way nations would areague with the world heaving how properting specification for a correr in firming through appendixed logal attemptication through any studies. Note, areguing famets the help provide Newfordiand and only with the food it needs to the exclusion at which approvide Newfordiand and only with the food it needs to the exclusion. The advect study attemptication of the food it with the section.

### 6.1 Active Citizenry

Device Gaussenaid notes the, "manifolding parted worked exploring places can be present studentic conservation of a particle data and the second of the second of physical networks, flexibility, and refinance, practical compresents, hard works, experimentia, and conservation of present students haves, "the values of data places, physical networks, flexibility, and refinance, particular compresents, and an order present considerations. Both Conservation and evolves of the second networks, the transfers, many efficient networks, Assessment brings with its rooters and a students, many efficient networks, Assessment brings with its rooters and a students, many efficient networks, Assessment brings with the yorking in the galaxies and second research. This is a solve, many galar diatory, By working in the galaxies and compare preparation content the mathetist are more arowards of the workd around throw, and therefore merical throse students of the solution around students. Solve and the solution testime of the solution around throw, and therefore merical throse students of the solution around students. The solution of the solution student of the solution around throw.

"...(p)efinitions of school achievement must begin to take account of the social and ecological quality of community life" (Ornerswald, 2005, p.10). Through working with the garden program we hope that students can see the oppression where some can effort for the vectories, and othere some. They might also accie that by not knowing about their esological community people are ignorated to the herm done to it. When schools due in its account the health of communities and how madem these helped forms is an error proving our data program of the school due to its school has been one of the primary successors of our program. Having makents give up their fine on vecknights to attend meetings, on vecknach to lead and attend workshoop about parkning and comparing, in peaking to community groups and milphonehood associations have its peak to supple something to empany distingthy.

# 6.2 Lessons

Our program did everything the hard way. But in walking a journey for the first time the path often grows faint, side trails beckon. The journey meanders. I believe such meanderings were crucial to the success we have enjoyed. Through them we connected with different and diverse groups who shared a common interest in local, organic oardening, albeit for many reasons. The Sierra Club, Conservation Corps of Newfoundland and Labrador, The Organic Farm in Portugal Cove, Food Education Action St. John's, Sisters of Mercy, the Wellness Coalition-Avalon East, Can-Do Productions, each of these ensures have offered support and encouragement to our program. Sometimes financial grants were offered. Whatever the form of encouragement it required a willingness to meet with different groups, to make phone calls, send emails and compromise on our vision of the program to allow for the visions of others. But the act of meeting, networking and dialoguing provided us with the resources and education we needed to finally get the go-ahead for an on-campus garden. Just when we were sure our program was floundering someone would suggest an article, that we get in touch with someone because they might be interested, or they had information which might prove

helpful. Furthermore, our program is all the more successful because it has so many partners. We become net just a solitary group gardening and composing, but part of a community. That is the landing lesson any group hoping to emulate our experience should take away.

#### 6.3 Future Directions

Driviplicity asks that we for startback experiment matter on thorms. It can be an active experiments like aking or ramings- or a quiett one. Where watching a structs, or working a parles. Base all larms more about attantal places by bring influence by hiplace in these (Wanchow, 2007, p. 2625). Experimental education concerns intell primarily with active engagement with the workd as the best means of learning. In on yow experiments, the many matter interplacements where larks the twen able to use and experiment semantifications have comes where larks the twen able to use and experiment semantifications have only where larks the twen able to use vision, or randing about it, down't ratel, vanother how many others are not 6.0, not study by visualty er and/to that the trangle knowning requirements requirement.

There in a shortful in experiminal shortful millioner, the II world suggest that does in a shortful in literators which promotes vocational education and starter theory, such as slightly the work is not integrably updata area say correct. "To speed one's life famility a piece of earls so pussing fin time] is, as many would are, a hard is & that is, in an ancient some, the human is. What area in it to low the famility: educational experiment. The leasons lateral finan one years to the next can be hadred Row young that cancel and such time to place, the Appendicability of Kentroly, and the speed next construct, which they for the order goor appive to a structure, and the speed financianes, their and that the trans of endoges can pive to a structure, that areas. famer (2006, p. 513). By making faming part of the curricultur, an embedded within the current school, styptem or as a separate fram school, we affer students the lessons of part and percent famers. We such oper that for some and impurply well fail percent famers. We such an operative famers are gravity forward, in step with the distance of the natural world because they have been allowed to experience in an iss one turns. This is in exert sing models, to many faming to statust, and then back to school statust.

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