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MARCH 22, 2015  
UNIVERSITY OF GUELPH [500771476]  
For the Raizada Lab

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30	AGRICULTURE AND NOURISHMENT	Website
31	Dazhai Spring Planting (大寨春耕) - 2006 (China Works Series)	Youtube video
32	Afghanistan in the 1950's - Farming	Youtube video
33	How to Train Your Micro Mini Pig: Sit, Stay, Jump, Shake Hands	Youtube video
34	Farm Basics #762-Terraces (Air Date 11/11/12)	Youtube video
35	Incan architecture	Website
36	Anny's-All-In-One (Draft Animal Drawn Implement)	Youtube video
37	Muscle or Machine? Draft Animal Power vs. Biofuel Farming	News Article
38	Agriculture machinery and tools in Nepal	Youtube video
39	Agriculture in Nepal, the best option.	Youtube video
40	12 HP Multi-function Diesel Power tiller for Nepali Farmers	Youtube video
41	Mechanization of Agriculture	Youtube video
42	farming machinery in india	Youtube video
43	Automatic seedling planting machine on farm in Australia	Youtube video
44	Six functional agricultural machine	Youtube video
45	Agricultural Machinery - part 2	Youtube video
46	Success Story on Mixed farming with special emphasis on dairying	Youtube video
47	Introducing Simple Farm Tools	Youtube video
48	Fiskars QuikFit Lawn Care HD	Youtube video
49	Indigenous Agricultural Implements	Youtube video
50	Bicycle Garden Plow home made	Youtube video
51	Sembradora manual	Youtube video
52	Sembradora y abonadora Soy del Campo	Youtube video
53	sembrando maiz en puebla	Youtube video

54	Model JP-1 1 Row Hand Seeder	Website
55	Garden Weasel - Flower Bed & Garden Preparation	Youtube video
56	Tray filling machine and seed sowing for forestry by Urbinati	Youtube video
57	Seed Hawk drilling technique	Youtube video
58	Our New Homemade Seed Sower ( - And How We Got There!)	Youtube video
59	Jang Clean Hand Seeders for Precision Garden Seeding	Youtube video
60	Tempo seed meter	Youtube video
61	New Technology Behind Variable Rate Planting	Youtube video
62	KUHN - MAXIMA 2 Precision seed drill	Youtube video
63	Maschio 4m Alitalia Combination Seed Drill Perfecta Disc	Youtube video
64	Double Wheel Hoe	Youtube video
65	Paper Pot Transplanter	Youtube video
66	Preiplantmachine VERHOEST Marc Landbouwmachines	Youtube video
67	Ручной культиватор своими руками	Youtube video
68	Transplanter with water wheel on mulch film with Rain-Flo 1600   Dubois Agrinovation	Youtube video
69	RiceAid Rice Transplanter - Georgia Tech ME Senior Design	Youtube video
70	Easy Seeder	Youtube video
71	Draught animal equipment supply and sales web site.	Youtube video
72	Giant Ant Hill Excavated	Youtube video
73	Planet Ant - Life Inside The Colony - BBC	Youtube video
74	Wheel hoe sales site. Commercial production.	Website
75	Links to many great papers CIMMYT	Website
76	Horticultural variety data base with performance stats.	Website
77	The Singapore Vertical-Farms that herald an Agricultural Revolution	Youtube video
78	Qatar's Ambitious Plan to Turn the Desert Green	Youtube video
79	VertiGrow Design Concept	Youtube video

80	FST How-To Video: Modular High Tunnels (Greenhouse / Hoop House / High Tunnel / Hoop Coop)	Youtube video
81	Hoop House Construction, Part 1[2 and3] of 3: Types of Hoop House Structures	Youtube video
82	Preparing Garden Mound w/ Compost, Fertilizer & Tiltter	Youtube video
83	Tools for Small-Scale Crop Production	Youtube video
84	From seed to loaf (part 1 of 2) allotment scale production of bread making wheat	Youtube video
85	How to get rid of weeds in organic farming	Youtube video
86	Weed Treatments	Youtube video
87	TRAM Spedo Potato Ridger	Youtube video
88	1928 Kinkade Garden Tractor	Youtube video
89	Chain-Tred Tractor Windolph Tractor Company	Youtube video
90	semeuse de pomme de terre	Youtube video
91	Semoir 1 rang à tirer	Youtube video
92	Plantadeira de cenoura e outras sementes miúdas - Parte 1	Youtube video
93	Plantadeira de cenoura e outras sementes miúdas - Parte 2	Youtube video
94	Plantadeira de cenoura e outras sementes miúdas - Parte 3	Youtube video
95	Four-row Pinpoint Seeder	Youtube video
96	Mini sembradora manual - Urbaplant	Youtube video
97	Semeadora Semi Automática Pantográfica com AP integrada.	Youtube video
98	Semeadeira de hortaliças manual modelo 4linhas reguláveis	Youtube video
99	Сеялка СМК 5	Youtube video
100	Сеялка фасоль.mpg	Youtube video
101	Semeadeira Hortaliças Manual.wmv	Youtube video
102	Капельный полив	Youtube video
103	Rainwater Catchment from a High Tunnel for Irrigation Use	Youtube video
104	Canadian tire	Website

105	Rolling spike drum weeder	Website
106	Large diameter wheeled wheel hoe.	Website
107	Vertical rototiller	Website
108	Garden weasel secondary tiller/tilther	Website
109	IDEI, India, Low-cost treadle pumps for irrigation - Ashden Award winner	Youtube video
110	Irriline Hand Roll Irrigation Equipment	Youtube video
111	Cultivating Soybeans with Horses	Youtube video
112	WHEAT, RICE & TILLING...1 MACHINE MULTI FUNCTIONS...	Youtube video
113	HXR-50 reaper & binder combine harvester	Youtube video
114	Sickle Scythe or Wheat Reaper?	Website
115	Assembling "The Beast"	Youtube video
116	Ethiopia: Feeding the Future - Part 1	Youtube video
117	Ethiopia: Feeding the Future - Part 2	Youtube video
118	Small rototiller (40cc).	Website
119	Future of Food (2000) - Part 2 - Nepal	Youtube video
120	Welcome to the world of the Nepalese Kami -	Website
121	YANMAR ヤンマーミニ耕うん機 QT30	Youtube video
122	Protected vegetable cropping in the Visayas, Philippines.	Youtube video
123	HOSS WHEEL HOE REVIEW AND FIELD TEST	Youtube video
124	Homestead planters	Youtube video
125	Our New Homemade Seed Sower ( - And How We Got There!)	Youtube video
126	Manual Seed Drill by Dharti Agro Engineering	Youtube video
127	Manual seeding with a bike planter	Youtube video
128	Désherbage de semi avec houe maraichere / Cultivateur à dent	Youtube video
129	Cultivateur à roue, houe maraîchère, ou pousse-pousse Cecotec	Youtube video
130	Semeuse pomme de terre et maïs	Youtube video

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1.

<http://www.youtube.com/watch?v=m4oyjOU8ljk>

Time-lapse of a terraced, cultivated hillside in Nepal

Autobot

Published on Apr 19, 2012

“Cinematography equipment: <http://www.videoslider.com>

Kickstarter: <https://www.kickstarter.com/projects/...>

Purchase this clip here: (<http://www.StockFootage.com/97004>).

Time-lapse of a terraced, cultivated hillside in Nepal. The light on the green landscape shifts as the clouds move close-by overhead.

With questions regarding the licensing of this footage or to hire the videographer of this collection to shoot for you, send an email to ([Chris@StockFootage.com](mailto:Chris@StockFootage.com)) or call our office in Utah: +1 (801) 407-4075. For additional information, go to: (<http://www.royaltyfreestock.org>).” [Direct quotation]

Category

Entertainment

License

Standard YouTube License

Single image with no commentary.

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2.

<http://www.youtube.com/watch?v=FvwwEv527c>

Organic farming Nepal USC Canada Nov 2 2007 . Student at Université de Montreal student Guillaume Denommée

The use of beans between maize crops. Vegetable crops such as chilies used in rotation. The Farmers are educated about new scientific methods with respect to traditional methods. The direct impact of new agricultural methods must be considered before implanting the new method. Use of sticks with whips to thresh grains are used in the video. Vegetable crops irrigated by a simple hose with holes in the end spraying into the air (a more efficient system could be introduced). Rasuwa Distract. One farmer tells a story. He used to buy chemical fertilizers from the market, USC suggested that they make their own fertilizer. Cow urine and feces kept in a barrel to foment. Used as fertilizer and insecticide. Farmers seem much happier to be applying organic fertilizers and insecticides versus synthetic ones. (Consider how long the food can be consumed after being sprayed, organic vs synthetic sprays. Consider the environmental risk and damage associated with both organic a synthetic. The cost (time and money) and reality/availability of both organic and synthetic. These factor are key to determining choice) the farmer states the organ fertilizers because damage when first applied

(putting aside the actual difference between the two fertilizers... I have a notion that the concentration and instructions for usage are not well defined for the chemical fertilizer purchased at the market and the organic method has been personally taught to the farmer, since he actually knew how to use the organic fertilizer he saw far better results. If the chemical fertilizers had better education associated with them there may be more positive results). Farmer claims that the chemical fertilizers cause fast initial growth but it also causes the plants to be more susceptible to illness. (It appears as though the chemical fertilizers are a reactive response to low yield whereas the organic methods are proactive as they have other positive effects associated whereas the chemical fertilizers have the reputation of negative associated effects. Again if proper application methods are shown would there be the same repetitions? The video shows woman crouching in rows weeding by hand (my weeding rig could help reduce soil compaction and increase land use efficiencies. Children who are too young for work are brought with the woman to the fields ( increase efficiency of their presence with more mechanized work they can be more helpful from a younger age or mothers can spend more time with them, teaching them). With biological fertilizers farms are more productive, more vegetables are grown and sold, some of the vegetables are even given to those who don't grow any. USC supplied some seeds while other seeds were bought at the market (terrace conditions mimicked in southwestern Ontario with similar soil and climate conditions (gravel pits) could be used to develop variety that do well in terraced conditions). (They grow c, beans and chilies on this farm) Income from vegetables had doubled from the previous two years. Income is spread out of many seasons. Income from chilies while cauliflowers are growing. Pole and bush beans. Haku Besi is the village. Chemical fertilizer use is in decline, locals believe it makes the soil stiff .Biological fertilizer makes the vegetables more tasty claims one farmer (this could be test using brix scales on chemical and biologically fertilized crops). Before the USC training the farmers never grew vegetables. Selling vegetables at the market this farmer made 1305 \$ per year

3.

[http://www.youtube.com/watch?v=iOu\\_qclspNc](http://www.youtube.com/watch?v=iOu_qclspNc)

Agriculture Development in Nepal  
Nabaraj subedi

Published on Jan 3, 2013

“Agriculture Development of Nepal ..... one of the big project help from the World Bank and associated with PACT for industrialization of Agriculture Sector in Nepal.... A Development Documentary, Concept, Script and Direction by Mr. Nabaraj Subedi ... for more information and If You are interested to making good documentary Email- [journalistnaba@gmail.com](mailto:journalistnaba@gmail.com)” [Direct quotation]

Category

Nonprofits & Activism

License

Standard YouTube License

This video introduces the agricultural scene in Nepal very well with examples of crops and tools. The video shows the operation of a roto-vator, a digging hoe (a j-shaped hoe used while doubled over), an oxen and plough, a hand crank fan winnower and long handled hoes with long blades for digging and weeding. The video shows hand weeding, fertilizer spread buy



hand and bucket, compost spreading by hand from old feed bag, climbing legumes, harvesting of tomatoes and cucumbers, finger millet harvesting by hand, how the farmers get an exceptional return on market vegetables and organic coffee exports. The video also shows some small scale fish farms (aquaculture). Other innovations such as plastic lined irrigation canals.

Original notes: Good intro to Nepalese agriculture, some crop and tool examples

Roto-vator, bent over digging hoe—J—shape. Hand weeding, tomato and cucumber harvesting, ox plough. Fan powered winnower (hand crank). Good return on market vegetables. Long bladed long handles digging hoes for harvesting potatoes and weeding). Fish farm. Organic coffee exports.

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4.

<http://teca.fao.org/read/7711>

Agroforestry basics with some Nepalese examples.

“Introduction

Multi-storied cropping systems and agro-forestry systems help to reduce the impacts of hazards such as floods and droughts that lead to land degradation, while meeting the needs of local people for food, firewood, fodder and timber. Under the multi-storied cropping, crops underneath the tall trees or horticultural crops withstand shading effects and provide micro-climatic conditions needed by all the crops. This system has at least three layers of intercropped plants of different heights...” [Direct from site]

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5.

<http://www.youtube.com/watch?v=35GF6qrH4v4>

How to build a terraced retaining wall

www.buildingproductscorp.com

Uploaded on Jul 17, 2008

“This video shows you how to build a terraced retaining wall system. For more information please visit: [www.buildingproductscorp.com](http://www.buildingproductscorp.com)” [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

This video explains the basic engineering theory of constructed terrace retaining walls.

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6.

<http://www.youtube.com/watch?v=529YqY2BdoY>

Terrace building

## Al Baydha

Uploaded on Mar 27, 2011

“A description and view of some of the terraces built in Al Baydha by local bedou. Terraces, in addition to swales and gabions, are some of the earthworks used in the Al Baydha Project to slow down water flow in the mountains, as part of a strategy to control flash floods, prevent erosion in the mountains, store water in the earth, and reforest the landscape.” [Direct quotation]

Location: Al Baydha, Makkah, Saudi Arabia

Category

Nonprofits & Activism

License

Standard YouTube License

Construction of low height rock terrace walls (15cm) at high density to slow water flow and reduce erosion. Terraces are sloped down and out. Most likely for pasture lands. Constructed by manually moving rocks within the work area into terrace walls on contour using a string and water level.

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7.

<http://www.youtube.com/watch?v=pUZxL9YnzhM>

## Walking the Rice Terraces in Yuanyang [China]

Rodney Hugo

Uploaded on Sep 8, 2011

“August 2011 and we travel to Yuanyang to hike along the rice terraces. Yuanyang is only reachable by long distance coach from Kunming and we decide to take the late afternoon sleeper coach. Arriving at 5am we are met by people offering us accomodation.

Unfortunatly our holiday has to be cut short and we only spend two days in Yuanyang but having been there once we realise that the best time to vist the area is in the late Autumn or early Spring when the scenery is more dramatic.

Anyway, have a look at the video and see what we did! Also take a look at our trip to the Longji Rice Terraces where we stayed at Ping'an and spent 5 days walking in the terraces. Hiking in the Longji Rice Terraces - Ping'an to Tian Tou and Ping'an to Old Longji.” [Direct quotation]

Category

Travel & Events

License

### Standard YouTube License

This video is a commentated thoroughly by the videographer. Good photography of rice terraces and (stone lined) irrigation channels. One rice mill picture. Other crops such as maize and potatoes can be seen growing as well. This video explains the roles of woman on the farm.

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8.

<http://www.youtube.com/watch?v=ag3iVRQCKOk>

Construction of Rice Terraces - Agribusiness Season 3 Episode 1 Part 2

Agribusiness HowItWorks

“Know the training in building the rice terraces conducted by the Department of Agriculture for the tribal communities in Cotabato.

Agribusiness - Season 3 Episode 1 Body 2

Sundays 7:00 - 7:30 AM on ABS-CBN Sports and Action” [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

The terrace walls are built of stone walls and local soil. This video show the transplanting of rice from the nursery to the field (very manual, little to no mechanization). The Soil is moved with Spade shovels. The local is very rocky, this has a mix of excess costs and benefits in the forms of moving rock and gaining local wall building materials. Hand transplanting and hand weeding.

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9.

<https://www.youtube.com/watch?v=WcZPSAFxJMw>

Farming of rice - How to build Rice Terraces - Agribusiness Season 3 Episode 1 Part 4

Agribusiness HowItWorks

Published on Jul 21, 2014

“After site selection and building the foundation canal, learn how to pile the rocks up to planting your own rice terraces.

Agribusiness - Season 3 Episode 1 Body 4

Sundays 7:00 - 7:30 AM on ABS-CBN Sports and Action” [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

This video shows how the local people are building rice terraces from rocks and local soil. The wooden stick and clear hose method of leveling is used. This video also shows how manure is spread by hand from a bucket to the field and leveled with a 3-man plank leveler

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10.

<http://www.smithsonianmag.com/history/farming-like-the-incas-70263217/?no-ist=&page=2>

Farming like the Incas [Article]

By Cynthia Graber

Crops grown on terraces, effectiveness, battle against climate change, how culture influences agriculture.

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11.

[http://books.google.ca/books?hl=en&lr=&id=lf-xAAAAQBAJ&oi=fnd&pg=PA31&dq=terrace+agriculture&ots=GF\\_70h1uBy&sig=kNNHfGB18wH6jsYGCvM--PElvw#v=onepage&q=terrace%20agriculture&f=false](http://books.google.ca/books?hl=en&lr=&id=lf-xAAAAQBAJ&oi=fnd&pg=PA31&dq=terrace+agriculture&ots=GF_70h1uBy&sig=kNNHfGB18wH6jsYGCvM--PElvw#v=onepage&q=terrace%20agriculture&f=false)

Ancient Maya Women [Book]

#3 Gender divisions of Labor and Lowland Terrace Agriculture

By: Linda Stephen Neff

Tools and terrace construction book. Late Mayan Hill-slope terrace farming.

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12.

<http://www.fao.org/docrep/004/T0706E/T0706E06.htm>

The Role of Monogastric and Small Stock

by T.S. Dhaubhadel

Poultry FAO, Nepal

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13.

<http://www.fao.org/docrep/004/T0706E/T0706E04.htm>

The Role of Large Ruminants

by B.R. Joshi

Draught animal information FAO.

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14.

<https://weatherspark.com/averages/33940/Kathmandu-Central-Region-Nepal>

Average Weather For Kathmandu, Nepal

© Cedar Lake Ventures, Inc

Colorful easy to interpret weather graphs.

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15.

<http://www.new-ag.info/en/country/profile.php?a=935>

Country profile - Nepal

New Agriculturist

With contributions from: Georgina Smith

Date published: September 2009

A brief description of the agricultural system in Nepal.

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16.

[http://en.wikipedia.org/wiki/Nepalese\\_Civil\\_War](http://en.wikipedia.org/wiki/Nepalese_Civil_War)

Nepalese Civil War

There are many references on the Wikipedia page that can be access for more accurate and or reviewed literature.

Small farmer development office ransacked, lack of scientific publications during war time.

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17.

<http://www.icimod.org/?q=10415>

Kiwi fruit cultivation

WOCAT database reference: QT NEP 30

Location: ICIMOD Knowledge Park at Godavari, Lalitpur District, Nepal.

Technology area: 1 ha

Conservation measure(s): Vegetative

Land Use: Perennial (non-woody) cropping

Stage of intervention: Mitigating land degradation

Origin: Introduced as an experiment (plant origin China)

Climate: Subhumid/temperate

Related approach: Not described

Compiled by: Samden Sherpa, ICIMOD

Date: April 2011, updated March 2013

This link directs to an article on kiwi fruit production, the web site has many other links including “improved terraces” and “legume integration”. NEPCAT has information regarding technologies, improved cattleshed, improved terraces, legume integration, organic pest management, low cost drip irrigation, improved compost preparation, better quality farmyard manure, improved farmyard manure, irrigated rice terraces, landslip and stream bank, rehabilitation of grazing land, gully plugging, rice intensification (sri), black plastic covered manure, water quality improvement, rooftop rainwater harvesting, polypit nursery, micro-sprinkler irrigation, plastic-lined pond, cultivation of fodder, application of cattle urine, biodynamic composting, contour bunding, sustainable land management, hedgerow technology, kiwi fruit cultivation, plastic film technology, polyhouse tomato production, treadle pump, riverbed farming, riverbank protection, tomato grafting, vermicomposting, no-till garlic cultivation and salix plants for stream banks.

18.

<http://farmingandfoodnepal.blogspot.com.au/2014/07/never-far-from-farming.html>

Simon and Judith with VSO, Nepal [Blog]

Nepalese farming and tools, only the mattock for digging earth to pile it on the outer bund of rice

19.

<http://patentscope.wipo.int/search/en/WO2007009152>

<b>ub. No.:</b>	WO/2007/009152	<b>International Application No.:</b>	PCT/AU2006/000544
<b>Publication Date:</b>	25.01.2007	<b>International Filing Date:</b>	19.04.2006
<b>IPC:</b>	<b>B62B 3/08</b> (2006.01), <b>B62B 1/18</b> (2006.01), <b>B62B 1/24</b> (2006.01) 		
<b>Applicants:</b>	<b>MORRIS, Richard, J.</b> [AU/AU]; (AU). <b>MORRIS, Elaine, K.</b> [AU/AU]; (AU). <b>MORRIS, Tania, M.</b> [AU/AU]; (AU). <b>MORRIS, Darren, R.</b> [AU/AU]; (AU). <b>MORRIS, Nicole</b> [AU/AU]; (AU)		
<b>Inventors:</b>	<b>MORRIS, Richard, J.;</b> (AU)		
<b>Agent:</b>	<b>MAXWELL, Peter, Francis;</b> Level 6, 60 Pitt Street, Sydney, New South Wales 2000 (AU)		
<b>Priority Data:</b>	2005 903 908	22.07.2005	AU
<b>Title</b>	<b>(EN) A WHEELBARROW</b>		

Patent: Wheelbarrow design that helps support the weight of the load after it is lifted to aid in the carrying of goods over long distances.

20.

<http://www.theoldexplorer.com/index.php/maya-technology/agriculture>

Mayan agriculture

Copyright 2012 by James A. O'Kon. All Rights Reserved.

A brief description with images of Mayan agriculture systems. ( including synthetic soil horizons, similar to terraces)

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21.

<http://mderoosinacreport.weebly.com/inca-farming.html>

Inca terrace Farming

by marco deroos

Photo used under Creative Commons from Photos by BLPerk

Inca terrace farming including images of the hand tools used by these people.

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22.

<http://www.theguardian.com/global-development/2011/dec/21/ethiopia-boost-farming-agriculture-invest>

Ethiopia invests in farmers to achieve country's middle-income ambitions

Thursday December 22, 2011

Dadi Yadete with one of his apple trees. Photograph: Mark Tran for the Guardian  
guardian.co.uk

“A local farmer's success growing apples reflects the Ethiopian government's plans to invest in farming and achieve growth” [direct quotation].

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23.

<https://play.google.com/books/reader?id=nFpTAAAYAAJ&printsec=frontcover&output=reader&hl=en>

The American Farmer

1857

Machine and agricultural equipment catalog. (809 pages long)

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24.

<http://www.youtube.com/watch?v=WpjiWdD9CgM>

Working with the Oxen. Part One. 2013.

Mattychapati das

Published on May 6, 2013

A HOUSE FOR MOTHER COW. A YEAR IN THE LIFE OF A  
WORKING HARE KRISHNA FARM AND GOSHALLA.

“A year in the life of a working Hare Krishna farm and goshalla. After first offering these pieces of film to my deities of Sri Sri Gaura-Nitai and to the Murti of His Divine Grace A.C. Bhaktivedanta Swami Prabhupada at my home, now i can upload them here. My aim is to film a year in the life of a working Hare Krishna farm and goshalla (house for cows) which will hopefully serve as an insight to anyone who is unfamiliar with cow protection, and using the oxen to plow and till the land instead of using tractors. Also i hope that these films will serve as tutorials and that devotees may gain some knowledge from them should they ever find that they are in a position to get into cow protection and self sufficiency for themselves. I estimate that by the end of 2013 there will be 6 to 8 DVDS available in this series, thats about 16 to 20 hours of footage, and will eventually be available to purchase at The New Gokul Craft Shop located at Bhaktivedanta Manors goshalla. All proceeds will go to the up-keep and well being of the cows and oxen who live there. All glories to Srila Prabhupada without whom none of us would have these rare and unique opportunity's to serve Mother cow, Father bull and of course Lord Sri Krsna and His devotees! Srila Prabhupada Ki Jaya! Go Mata ki Jaya! Ananta Koti Vaisnava Vrnda Ki Jaya!” [Direct quotation]

Category

Education

License

Standard YouTube License

2 oxen using steel equipment (moldboard, disker, shaper and harrow) with solid wooden yoke.

25.

<http://www.youtube.com/watch?v=u2zz1S4Ga74>

Testing Animal-Drawn Tillage Tools at Tillers International

TMHarrigan

Published on Oct 19, 2013

“Tillers folks are in an on-going process of designing, building and testing animal-drawn tillage tools to meet the challenge of low-disturbance, conservation tillage. Here, we test a new, steerable, over-the-row cultivator and a zone-till ripper for creating a water conserving absorption bed for direct planting. These prototypes will be on the ground in east Africal for rigorous testing in just a few days. This is in October, no row crops for cultivating, so we had to create our own. The oxen are puzzled by this new crop.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

International tillage great use of reduced tillage

26.



<http://www.youtube.com/watch?v=9pOI9ESkKUU>

Dan Forgey\_Adding Cover Crops to a No Till System

SARE Outreach

Published on Jul 18, 2012

“Dan Forgey, farm manager at Cronin Farms in South Dakota, has been using no-till management for more than 17 years. Over that time, Forgey has developed a keen understanding of how his farming system works and where new challenges and opportunities exist. Several years ago, Forgey began thinking about how he might include cover crops on the 8500-acre farm to improve soil and the bottom line. But how best to do this in a no-till system?” [Direct quotation]

Learn more about Dan Forgey at <http://www.sare.org/Learning-Center/M...>

This video was produced in partnership with Cooking Up a Story (<http://cookingupastory.com>).

Category

Science & Technology

License

Standard YouTube License

Great cover crop video. With scientific trials.

---

27.

<http://www.youtube.com/watch?v=FBt1OH6yIP4>

Terminating Cover Crops for Maximum Benefits - Jeff Moyer

Published on Mar 17, 2014

A presentation by the Rodale Institute's Jeff Moyer at the National Conference on Cover Crops and Soil Health.

SARE Outreach

“Timing of cover crop termination can determine soil nitrogen levels and ease of establishing a following cash crop. Termination approach can also affect the success of weed control in the cash crop system. This session delved into various cover crop termination strategies, including considerations for the use of herbicides, roller crimper and other termination options.” [Direct quotation]

Learn more at <http://www.sare.org/covercropconference>.

Category

Science & Technology

License

Standard YouTube License

Cover crop roller crimper.

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28.

<http://www.unesco.org/mab/doc/ekocd/peru.html>

Peru, How to improve land productivity on slopes: The rehabilitation of crop terraces

“ This case study was proposed by Mr Francisco Brzovic and José Torrico within the framework of the United Nations Environment Programme ‘Saving the Drylands’ award.

For more information, please contact the following person:

Mrs Elizabeth Migongo-Bake.

UNEP

PO Box 30552

Nairobi

Kenya

Tel. (+254) 2 623252/61

Fax (+254) 2 624249

E-mail: [elizabeth.migongo-bake@unep.org](mailto:elizabeth.migongo-bake@unep.org) “ [Direct quotation]

Peru NGO, info on terrace construction.

---

29.

<http://www.youtube.com/watch?v=xzYE0DX3opU>

goat pull cart in eastern nepal

nepalnews1

Uploaded on Apr 4, 2011

“you can't see this kinds of rear shot. Transportation develop a lot in the world. most of the people use modern vehicle to go from one to another but this guy discover this kind. But this guy told he try to examine power of the goat. he is very much happy because of his success. Let's see what will happen in coming days.” [Direct quotation]

Category

Autos & Vehicles

License

Standard YouTube License

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30.

<http://www.qosqo.com/agricult.shtml>

AGRICULTURE AND NOURISHMENT

Incan agricultural description. The site has very little documentation of author. However it does possess a large bibliography, most sources are Spanish.

---

31.

<http://www.youtube.com/watch?v=MXqTil6KpNw>

Dazhai Spring Planting (大寨春耕) - 2006 (China Works Series)

KK Fung

Published on Jan 10, 2013

“Rice planting on the terraces of Dazhai is a giant sculpture in dynamic motion.

Dazhai is a village outside Longsheng which is 4-hour bus ride north of Guilin, Guangxi, China. An over-night stay in one of the many affordable guesthouses is recommended.

Dazhai is inhabited by the Hong Yao minority famous for its long-haired women.” [Direct quotation]

Dazhai\_planting28.mp4

Category

Travel & Events

License

Standard YouTube License

Great source for tools (with clear images) and challenges associated with those tools in terrace rice production. Images of terrace landslide erosion.

---

32.

<http://www.youtube.com/watch?v=l8kURnQLRkw>

Afghanistan in the 1950's - Farming

AfghanistanAdventure

Published on Mar 21, 2012

“This is a silent color 16mm movie taken by my father in Afghanistan in the 1950's.” [Direct quotation]

Category

Travel & Events

License

Standard YouTube License

This video shows some of the tools and methods used in the local agricultural system.

---

33.

<http://www.youtube.com/watch?v=uVMuAluiJUI>

How to Train Your Micro Mini Pig: Sit, Stay, Jump, Shake Hands

Echothepig

Published on Jan 4, 2013

Check out our new video! <http://www.youtube.com/watch?v=FTjzWm...>

“This video will demonstrate how to use a clicker to train your mini pig. Echo is learning the command "stay" which is an essential behaviour we would like to encourage and will help with additional tricks. This video was made to show others the hand commands we use to train our pig and the type of results it can yield.

Good Luck!” [Direct quotation]

Category

Pets & Animals

License

Standard YouTube License

SHOW LESS

This video demonstrates that pigs can be trained. This idea should be considered in the choice of draft animals.

---

34.

<http://www.youtube.com/watch?v=UxHYwrBlyZ8>

Farm Basics #762-Terraces (Air Date 11/11/12)

AgPhD's channel

Published on Nov 14, 2012

Brian & Darren explain the reasons for terraces in fields.

Category

Education

License

Standard YouTube License

The use of terraces in conventional agriculture in North America.

---

35.

<http://www.gosqo.com/architec.shtml>

Incan architecture

Very little to none information on authors.

---

36.

<https://www.youtube.com/watch?v=qZ5jo6k6qJw>

Anny's-All-In-One (Draft Animal Drawn Implement)

1971dramaqueen

Published on Jul 26, 2012

“Vist: <http://siriholmberg.weebly.com/horse-...> for more info, pictures, and ordering information.” [Direct quotation]

Category

Pets & Animals

License

Standard YouTube License

Anny’s all in one plough, light weigh, great adjustability.

---

37.

<http://www.motherearthnews.com/homesteading-and-livestock/draft-animal-power-biofuels-ze0z1207zkon.aspx?PageId=2#axzz3HHT5HW8w>

Muscle or Machine? Draft Animal Power vs. Biofuel Farming

By Simon Fairlie

July 6, 2012

“ Plowing with horses is more than a nostalgic farming method – it’s a time-tested way to complete heavy farm work that challenges tractors using biofuels for energy and land use efficiency.” [Direct quotation]

Great news article on draft vs tractor power.

---

38.

<https://www.youtube.com/watch?v=NL90QV9urQI>

Agriculture machinery and tools in Nepal

Shrestha Agri Inputs

Published on Sep 25, 2012

“These are the agriculture products supplied by Shrestha Agri Inputs. These include mini paddy, wheat harvester, thresher, Aerators and other farm and agriculture equipments and machinery.” [Direct quotation]

Contact Details

Shrestha Agri Inputs

Satungal-9

Kathmandu

Nepal

email: shresthaagriinputs@gmail.com

Off: +977-01-5108054

Mobile: +977-9841799161 +977-9751015153

Category

Science & Technology

License

Standard YouTube License

Weed Wacker with tiller tines (vegetable weeding, blade (harvesting rice in bunches), and chain saw attachments, Sliding broad fork, Human power two disc hiller. Weird mouse trap montage ...

---

39.

<https://www.youtube.com/watch?v=aAka0iussdk>

Agriculture in Nepal, the best option.

RadungMedia

Published on Sep 15, 2012

“Mr. Keshav Sthapit, an ex Mayo of Kathmandu brings the best options for development in Kathmandu.” [Direct quotation]

Category

Entertainment

License

Standard YouTube License

Grapes and poly house tomatoes in Nepal

---

40.

<https://www.youtube.com/watch?v=LPNjsKhNcek>

12 HP Multi-function Diesel Power tiller for Nepali Farmers

Shrestha Agri Inputs

Published on Feb 28, 2013

“STEP brand multi- function power tillers are especially manufactured to assist farmers and farming organizations to carry out tough farm works in low cost and time. These machines have lower fuel consumption, higher performance and durability. Shrestha Agri Inputs directly imports these farm machinery suitable for Nepali conditions. Ample supply of spare parts and easily repairable structure makes this machine a good farm assistant to it's users.

This machine can perform tedious farm operations such as tilling, deep hoeing, ditching, ridging, harvesting crops, milling, water pumping, generating electricity and many other functions. “ [Direct quotation]

For more information on our products, please feel free to contact us at:

Shrestha Agri Inputs

Satungal-9

Kathmandu

Nepal.

Phone: +977-01-5108054

shresthaagriinputs@gmail.com

Category

Science & Technology

License

Standard YouTube License

Rototiller, a lot of noise not a lot of productivity.... Heavy takes more than 4 men to fit on the back of a truck (imagine terrace forming difficulties), tines can be switched with wheel to plough (wheels spin a lot degrading soil, plough doesn't do much. The operators really struggle to control the machine.

---

41.

<https://www.youtube.com/watch?v=XC2N2orHb6s>

Mechanization of Agriculture

panaac

Published on Sep 26, 2013

Adopting Mechanization in agriculture to enhance productivity

Category

Science & Technology

License

Standard YouTube License

BIKE WHEEL- wheel hoe seeder looks good, also winnower thresher.

---

42.

<https://www.youtube.com/watch?v=Tc14s0xoGFY>

farming machinery in india

Uday Chudekar

Published on Mar 10, 2013

Mfg: Chudekar Agro Engg. Pvt. Ltd.

[www.chudekaragro.com](http://www.chudekaragro.com)

[chudekar.agro@gmail.com](mailto:chudekar.agro@gmail.com)

Category

People & Blogs

License

Standard YouTube License

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YouTube Video Editor

Source videos

View attributions

Tiller tines... better soil management should have been used, ground was too hard and the tiller was over worked and not much reward. Matched appears to be difficult to handle (goes in to unwanted area of the path of travel (possibly worse that draft in that respect. The screw rigger worked well for hilling loose soil, not soil well for tilling and planting potatoes in double row P <SS> P, better option would be S>P<S single row of potatoes and hill them the potato harvest appeared to do a good job, hard to handle. Weeding could have been faster if weeded earlier with wheel hoe with stirrup hoe. Aeration should not be done with a machine ( during crop growth) better soil management should be practiced, using two wheeled tractors with interchangeable wheels instead of in and a trailer makes for a decent motor vehicle, but could bike power be better?

---

43.

[https://www.youtube.com/watch?v=Zxlt3Q7U\\_IQ](https://www.youtube.com/watch?v=Zxlt3Q7U_IQ)

Automatic seedling planting machine on farm in Australia

Transplant Systems

Published on Feb 20, 2013



“This automatic four row transplanter can plant up to 12,000 seedlings per hour. The machine can plant lettuce, cabbage, cauliflower, Asian veg etc. Transplant Systems have been making reliable transplanters since 2006. Saves hundreds of thousands of dollars in labour year after year.” [Direct quotation] [www.transplantsystems.com.au](http://www.transplantsystems.com.au)

Category

Science & Technology

License

Standard YouTube License

Automatic planter for lettuce in seedlings. Revolver dual seedling planter.

---

44.

<https://www.youtube.com/watch?v=d75qkktiYFQ>

Six functional agricultural machine

cbdq2008

Uploaded on Aug 23, 2008

“You can replace some part of the body compartment, and the following functions can be done with single-phase motors. The six functional as following: rice grinding (separating the Rice and Bran automatically); corn shelling; rice and wheat shelling; chopped green fodder; locus line, potato, sweet potato milling and grinding; wheat, corn, cereals, dry feed smashing.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Great little thresher miller grinder pulper.

---

45.

<https://www.youtube.com/watch?v=itiokWfoD8A>

Agricultural Machinery - part 2

Shramajeevi

Published on Dec 5, 2013

“Full length documentary film 'Agricultural Machinery - part 2' by Shramajeevi. <http://www.shramajeevi.com> Also visit <http://images.shramajeevi.com> for agricultural and rural images and <http://contacts.shramajeevi.com> for farming related contacts.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Super short clip of planking with cattle.

Rice transplanted.

Weed Wacker rice harvest, with little shroud works greater

Cool coffee harvester (time saving in labor demanding harvest periods coinciding with rice and other crops)

Pressure wash for cattle washing and barn washing, better than compressor washers

---

46.

<https://www.youtube.com/watch?v=D3OxudXglSM>

Success Story on Mixed farming with special emphasis on dairying

Kissankerala

Uploaded on Jan 3, 2011

“Mixed farming with special emphasis on dairying enterprise : Success Story” [Direct quotation]

Music

"Energy Within" by Rahul Sharma (Google Play • eMusic • iTunes)

Artist

Rahul Sharma

Category

Science & Technology

License

Standard YouTube License

Livestock watered, micro cattle.

---

47.

<https://www.youtube.com/watch?v=dtDrbp-fJWg>

Introducing Simple Farm Tools

Rural Livelihood Development Programme (RLDP)

Published on Oct 9, 2012

“Rural Livelihood Development Programme's initiative in rice sub sector includes introducing simple farm tools that ease the field tasks. Here are simple farm tools for both women and

men rice farmers. These tools can be easily fabricated by local fabricators and carpenters” [Direct quotation]

Music

"Everyday" by Carly Comando (Google Play • iTunes • eMusic)

Category

People & Blogs

License

Standard YouTube License

Spaced seed rakes, push weeded. Rope and peg crop row spacing and straight row farming.

48.

[https://www.youtube.com/watch?v=NyhOwTueV\\_I](https://www.youtube.com/watch?v=NyhOwTueV_I)

Fiskars QuikFit Lawn Care HD

Fiskars Europe

Published on Mar 14, 2013

“Lawn care takes work but the results speak for themselves. The rake is the essential tool for open lawn areas and establishing new lawns too. Using the Fiskars QuikFit long shaft, attach a gather rake or aerator rake for moss and thatch or the large leaf rake head for raking grass. For edging, the Fiskars QuikFit lawn edger has no rival while the three functions hoe is perfect for clearing and tilling paths.” [Direct quotation]

Category

People & Blogs

License

Standard YouTube License

Fiskars quick fit many head attachments.

49.

<https://www.youtube.com/watch?v=znWEjwBYb08>

Indigenous Agricultural Implements

Small Millets

Published on Oct 6, 2013

“Indigenous Agricultural implementation tools used for farming”[Direct Quotation]

Category

Nonprofits & Activism

License

## Standard YouTube License

DHAN- indigenous tools high quality finger millet cultivation, used to run goats over sandy soil to harden and reduce grubs, prior to seed drill, seed drill, ploughing and sowing simultaneously.

---

50.

<https://www.youtube.com/watch?v=HqSzs6ksUM>

Bicycle Garden Plow home made

stin987

Published on Mar 14, 2012

“Basic tutorial on how to turn a bicycle into a garden plow.” [Direct Quotation]

Category

Film & Animation

License

Standard YouTube License

Bicycle plow, easy to make, appears to work ok, many implements, I am concerned with the stability of the handle bars, working height of handles( work efficiency) and work efficiency of force applied

---

51.

<https://www.youtube.com/watch?v=7kOceM0W2U4>

Sembradora manual

ABCRURALPARAGUAY

Published on May 6, 2014

“En este bloque, los ingenieros Edgar Olmedo, Eladio Cousiño y Hideyuki Shiroshawa, exponen sobre las bondades de un modelo de sembradora manual.” [Direct quotation]

Category

News & Politics

License

Standard YouTube License

Seeder, metal new with fertilizer applicator (push) and old tin can stick seeder

---

52.

<https://www.youtube.com/watch?v=yGPoG11wYdQ>

Sembradora y abonadora Soy del Campo

Soy del Campo

Published on Jan 12, 2014

“Sembradora y Abonadora Automática, siembra 1 fila a la vez, la profundidad de siembra varia entre 2 y 6 cm, el tanque mide 32x24x19 cm, el peso de la máquina es de 10 kg, la productividad está en 1 hr aprox para vaciar el tanque. Los tipos de semilla que puede utilizar son arroz, trigo, maíz, frijol, maní, etc.” [Direct quotation]

Despachos a toda Colombia 3132867985

Category

Science & Technology

License

Standard YouTube License

Soy Del campo seeder (commercial).

---

53.

<https://www.youtube.com/watch?v=nqa5sfAL1B8>

sembrando maiz en puebla

elrojas91

Published on Aug 10, 2012

“sembrando maiz con un tractor 2755 y una sembradora echisa de 4 surcos” [Direct quotation]

Category

Autos & Vehicles

License

Standard YouTube License

All in one hiller seed tractor pulled 4 row.

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54.

[http://www.woodwardcrossings.com/Pages/Pages\\_11-04/Farm/Homesteading/Jang%20Seeders/JP-1.html](http://www.woodwardcrossings.com/Pages/Pages_11-04/Farm/Homesteading/Jang%20Seeders/JP-1.html)

Model JP-1 1 Row Hand Seeder

Sales website

JANG seeder

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55.

<https://www.youtube.com/watch?v=h2ONjJnrpPM>

## Garden Weasel - Flower Bed & Garden Preparation

Gardenweasel1975

Uploaded on May 13, 2010

Quick how-to on prepping your flower bed or vegetable garden using Garden Weasel's innovative line of gardening tools, such as the Garden Weasel Edger, our Digger's Best shovels / spades, Garden Weasel Garden Claw, our Original Garden Weasel, Garden Glide, Steel Bow Rake.

“For more tips on our tools and putting them to work for you in your lawns and gardens, join us on Facebook at <http://www.facebook.com/TheGardenWeasel> or visit our website at <http://gardenweasel.com/> “ [ Direct quotaion

Category

Howto & Style

License

Standard YouTube License

Commercial quality tools, built with thought and ergonomics.

---

56.

<https://www.youtube.com/watch?v=jBA6bQGh7-c>

Tray filling machine and seed sowing for forestry by Urbinati

Transplant Systems

Published on May 23, 2013

“From bale breaking, destacking and tray filling machinery through to seed sowing, germination and plug transplanting. Urbinati are leaders in the field of nursery automation equipment. Transplant Systems have been implementing solutions for nursery growers since 1984. From concept and design of flower, vegetable and forestry nurseries through to installation service and repair. We have the knowledge and the right team to help you grow your business.”[Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Vacuum seeder, factory scale.

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57.

<https://www.youtube.com/watch?v=pPV0Br1zw8I>

Seed Hawk drilling technique

Vaderstad

Published on Nov 30, 2012

“Animation demonstrating how Väderstad Seed Hawk’s single sideband seed knife delivers precise, accurate seed and fertilizer placement.”[Direct quotation]

vacuum seeder with side band fertilizer

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58.

[https://www.youtube.com/watch?v=xjBDA\\_Zd9eM](https://www.youtube.com/watch?v=xjBDA_Zd9eM)

Our New Homemade Seed Sower ( - And How We Got There!)

WayOutWest Blowinblog

Published on Jul 11, 2014

“Making your own vegetable seeder/planter shouldn't be so difficult, should it? But picking up very small light seeds, and dropping them at regular intervals, turns out to be more complicated than I'd first thought. They'd get lost, crushed, clumped and stuck -- and that's without trying to accommodate different shapes and sizes..

I found a way of doing it in the end, and I'm happy with the result, but not before my appreciation of all the designers who have preceded me grew enormously.

Madeline is one of only a very few organic seed producers in Ireland. She can send seeds through the post, and her skills and commitment in the field are legendary.

This is her website - <http://www.brownenvelopeseeds.com>

TAGS: homemade, home made, do it yourself, seeder, planter, drill, designs, kale, carrot, buckwheat, sugar beet, parsnip, germination, planting, sowing, growing, soil, self-sufficiency, organic, smallholding, homesteading, sustainability, how to, grow, way out west, DIY, GIY, rural, farming, country, vlog, home grown, small scale, hands on, west, cork, Ireland, Irish, small farm, harvest, produce, garden, gardening, crops, “ [Direct quotation]

Category

People & Blogs

License

Standard YouTube License

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59.

<https://www.youtube.com/watch?v=BYxMnoArIM0>

Jang Clean Hand Seeders for Precision Garden Seeding

Woodward Crossings

Uploaded on Jan 5, 2010

“www.WoodwardCrossings.com Woodward Crossings in Central PA proudly presents the Jang Automation Clean Seeder for all of your seeding needs.

With many options from which to choose, you'll find the Jang Clean Seeder to be the seeder designed to give you --

More Productivity and Cost Savings and we'd like to show you how!

Most seeders on the market use technology that is 100 years old. The Jang Clean Seeder stands out from the rest because it uses new technology that singulates the seeds, thus eliminating wasted seeds and time consuming thinning. With the high cost of seeds, you'll be sure to find this a welcome feature!

With the Jang Seeder, you may plant as little or as much as you want. No longer will you need a large amount of seeds in the hopper for the unit to function. A small amount of seeds will work just as efficiently as large amounts of seeds in the hopper.

Another notable characteristic of the Jang Clean Seeder is that you can see through the hopper. Also, the clean out is quick and easy as the Quick Release Hopper makes it easy to empty and change rollers.

A handy feature is that the Seed sizing chart is provided on the inside of the hopper lid for easier roller selection.

The Jang Clean Seeder uses quick change seed rollers that are constructed with special anti abrasion plastic rollers to prevent static electricity. These seed rollers are designed to plant very small seeds up to larger coated seeds.

We say it like it is: The Jang Seeder is the Bees Knees! With the innovative engineering, yet simple design and ease of application, change and clean-up translates to the Height of Excellence in quality and technology.

Add Affordable to the mix and you have the best seeder for the price on the market!

Let's quickly examine the different models.

The JP-1 is the versatile walk behind or beside seeder. The handle is adjustable giving you the option to walk behind or beside. Although it only weighs just 22 lbs., it packs a powerful punch! The JP-1 model is Priced to Sell and ship quickly and reasonably.

A few options are the Double disc opener, spreading shoes, hopper extension and double shoes.

Also available from Jang Seeders are the Multi Row Seeders. The Multi Row Seeders are individually spring loaded row units with a minimum row width of 7. You'll find many options with these models as well.

Jang carries Multi-Row Seeders for 3 rows or 6 rows. Also available are Pull type hitches so as to create a Pull-type models for 3 row and 6 row plantings. Also available is the option of using a toolbar to create a planter for 2, 3, or 4 beds to be seeded at one time.

For larger seeds you may opt for the TD series for pumpkins, limas, beans and corn. And the TDR Series are for larger seeds with the options of adding fertilizer hoppers, additional units, double disc openers and a spring loaded scissors-hitch.

You will also find the Deluxe 15 row Bed Seeder in the lineup of Jang Seeders. This seeder is ideal for seeding solid beds of greens and other thick crops. The roll type tractor mounted 15 row seeder can be divided to plant a total of 30 rows at 2 apart.



With choices and selections like these, you will be pleased to know that the Jang Seeders will meet all of your seeding needs.

Priced to sell, technology for todays competitive edge, flexibility for diverse uses and quality built to last, youll be delighted with the full line up of Jang Seeders at WoodwardCrossings.com” [Direct quotation]

Category

Education

License

Standard YouTube License

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60.

<https://www.youtube.com/watch?v=gSlcX3klLic>

Tempo seed meter

Vaderstad

Uploaded on Dec 12, 2011

Animation detailing how Tempo's seed meter works to attain a high level of accuracy in seed distribution.

Interior rotor vacuum seeder.

---

61.

<https://www.youtube.com/watch?v=Tzzcl6y3NW8>

New Technology Behind Variable Rate Planting

PrecisionFarming

Published on Jun 13, 2013

Sean Arians, product marketing manager for Precision Planting, talks about the new vDrive system for variable rate planting from Precision Planting. Powered by 20/20 SeedSense, the electric vDrive system brings single-row control to vSet meters.

<http://www.precisionfarmingdealer.com/>

Category

Science & Technology

License

Standard YouTube License

Variable rate seeder.

---

62.

<https://www.youtube.com/watch?v=chmwNVVE79o>

KUHN - MAXIMA 2 Precision seed drill

KUHNGroup

Published on Mar 6, 2014

[www.kuhn.com](http://www.kuhn.com)

Category

Science & Technology

License

Standard YouTube License

Adjustable row width seeder

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63.

<https://www.youtube.com/watch?v=gZWdPzJllg>

Maschio 4m Alitalia Combination Seed Drill Perfecta Disc

OPICOLimited

Published on Jun 22, 2012

<http://www.opico.co.uk/maschio-machin...>

“Alitalia Combination Seed Drill

The New ALITALIA pneumatic seed drill is available in 3m and 4m working widths. The ALITALIA utilises Maschio's own "FLEXEED" metering system to accurately deliver seed to a variety of coulter configurations.

Perfecta Disc

The Perfecta Disc Coulter is suited for use in low tilled and min-till systems. The design and mounting of the Perfecta Disc utilises a double disc and wheel allowing the coulter to work deeper and ensures precise seed placement.

Each Perfecta Disc Coulter is mounted in 2 rows on parallelograms, the disc are larger, so in wet, cloddy and very trashy conditions will work better than a single disc system.

The parallelogram mounting of the coulters maintain constant pressure at an even depth on very uneven seedbeds.” [Direct Quotation]

Category

Autos & Vehicles

License

Standard YouTube License

SHOW LESS

All in one seeding and tillage

---

64.

<http://www.youtube.com/watch?v=7-qAnaM3kSI>

Double Wheel Hoe

Zeroseedrain

Published on May 29, 2013

“The diamond hoe has a 7.5" x 1.75" head that contains two very sharp points. I have been cut handling the tool during trials. The handle is long and the blade is wide, so the diamond hoe, designed to tackle young weeds, is best suited for open areas, long rows and inter row weeds.” [Direct quotation].

Category

Education

License

Standard YouTube License

Use of two wheel- wheel hoe and double stirrup hoe

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65.

[http://www.youtube.com/watch?v=gMSpN0E8\\_H8](http://www.youtube.com/watch?v=gMSpN0E8_H8)

Paper Pot Transplanter

Published on Oct 5, 2012

“The paper pot transplanter is designed to allow small farmers to plant many small transplants such as onions in a short period of time. This video demonstrates set up and use.

Equipment profiles are provided for give new producers ideas and information on equipment use, safety, and tools to increase efficiency. They are not an endorsement of individual products. For more equipment profiles and other information for new farmers visit [extension.psu.edu/start-farming](http://extension.psu.edu/start-farming) and [theseedfarm.org](http://theseedfarm.org) .

Funding for this project was provided by a grant from the Beginning Farmer and Rancher Development Program of the National Institute of Food and Agriculture, USDA, Grant # 2009-49400-05869.” [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

Penn State Extension Start Farming

Paper pot transplanter.

---

66.

<http://www.youtube.com/watch?v=zoS1nDtHEOQ>

Preiplantmachine VERHOEST Marc Landbouwmachines

Carl Soete

Uploaded on Oct 7, 2009

Category

Science & Technology

License

Standard YouTube License

Pinch and grab onion transplanter.

---

67.

<http://www.youtube.com/watch?v=17F9564ZaJY>

Ручной культиватор своими руками

libral1973

Published on May 14, 2014

“Чтобы изготовить ручной культиватор нужна сварка и дрель. Из материалов нужна вилка с велосипеда, колесо и руль. Также для ножа нужна пластина из каленого металла. Остальной материал валяется в каждом сельском дворе.

Такой культиватор собирается за пару часов!

Ширина самой сошки выбирается исходя из ширины ваших междурядий. Естественно нужно сделать ее чуть уже, чтобы не повреждать самих растений.

Если у вас большой огород, то ручной культиватро просто необходим!

Мой канал "libral1973": <http://www.youtube.com/user/libral1973>

Плейлист "Техника": <http://www.youtube.com/playlist?list=...> [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Bicycle wheel hoe with measurements.

---

68.

<http://www.youtube.com/watch?v=k12Rkr6SUKI>

Transplanter with water wheel on mulch film with Rain-Flo 1600 | Dubois Agrinovation

Dubois Agrinovation

Uploaded on Feb 27, 2012

“<http://www.duboisag.com> - The Rain-Flo model 1600 series II is a transplanter for setting plugs, pots, or bare root plants through mulch film.

Get more information about the Rain-Flo 1600: <http://www.duboisag.com/en/rain-flo-t...>

More detail about super water wheel for transplanter: <http://www.duboisag.com/en/super-wate...>” [Direct quotation]

Category

Education

License

Standard YouTube License

Commercial transplanter.

---

69.

<http://www.youtube.com/watch?v=NVhFZZ0-yrM>

RiceAid Rice Transplanter - Georgia Tech ME Senior Design

Derek McCurry

Published on Nov 21, 2013

“RiceAid is a proof of concept rice transplanter that is entirely mechanical in nature and meant to significantly increase the speed of transplanting rice seedlings. The device shown in the video was designed and built by six mechanical engineering students at the Georgia Institute of Technology and presented at the Spring 2012 senior design expo.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

human powered rice transplanter

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70.

[https://www.youtube.com/watch?v=A\\_VMco7j8UA](https://www.youtube.com/watch?v=A_VMco7j8UA)

Easy Seeder

Easy Seeder

Uploaded on Jun 30, 2011

Category

Howto & Style

License

Standard YouTube License

Vegetable seed spacers (manual planting, low tech)

---

71.

<http://www.atlanticdrafthorsesupply.ca/products.php#buckboard>

Draught animal equipment supply and sales web site.

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72.

<http://www.youtube.com/watch?v=lFg21x2sj-M>

Giant Ant Hill Excavated

KYLYKaHYT

Importance of ants and biodiversity to agriculture.

Uploaded on Dec 24, 2010

From: Ants! Natures Secret Power

“A giant ant colony is pumped full of concrete, then excavated to reveal the complexity of its inner structure.” [Direct quotation]

Category

Education

License

Standard YouTube License

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73.

<http://www.youtube.com/watch?v=8n0SkIGARuo>

Planet Ant - Life Inside The Colony - BBC

antARKTV

Published on Mar 13, 2013

“BBCs Planet Ant - Life Inside The Colony 2013.

Learn more about ants <http://antark.net/>

With permission.” [Direct quotation]

Category

## Pets & Animals

### License

#### Standard YouTube License

The sheer earth moving power of species like ants is truly remarkable. Bringing soil from as deep as 8m in this case, mining and concentrating nutrients from the soil. Fungus gardens are grown, these fungi can further mine the soil of elements like phosphorus. All of the excavated soil is brought to the surface, rejuvenating surface soils. Modularity, super organism. Could the efficient route technology be used to help farms efficiently navigate, plant, seed and tend to their fields?

---

74.

<http://www.valleyoaktool.com/wheel-hoe?gclid=CKyWq8nz9cECFY4-MgodgBIAGw>

Wheel hoe sales site. Commercial production.

---

<http://www.maxwellfarmsservice.ca/Plows.htm>

Amish manufacturing of agriculture implements.

---

75.

<http://repository.cimmyt.org/xmlui/handle/10883/2?com=69>

Links to many great papers CIMMYT

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76.

<http://www.fao.org/hortivar/hortivar.htm?TRX=Redirect&TO=IDX>

Horticultural variety data base with performance stats.

An interesting way to organize information

---

77.

<http://www.youtube.com/watch?v=2nFQOkzEjxQ>

The Singapore Vertical-Farms that herald an Agricultural Revolution

Journeyman Pictures

Published on Sep 9, 2013

“For downloads and more information visit: <http://www.journeyman.tv/?lid=65841>

In Singapore, the challenge of feeding a growing population is pushing the concept of urban farming to new heights. A super-efficient vertical farming system is producing greens for 5 million residents.

"Can we supply enough food for everyone on the planet?" is a question plaguing leaders around the world. In Singapore SkyGreen offers one example of how this might be possible, "not just technically, but economically". By increasing their food security while reducing the

impact of food production on global climate change, SkyGreen is 10 times more productive per square foot than conventional farming.” [Direct quotation]

Centre for Investigative Reporting

Category

News & Politics

License

Standard YouTube License

Vertical farming (Singapore)

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78.

[http://www.youtube.com/watch?v=9Eg\\_YII7l4E](http://www.youtube.com/watch?v=9Eg_YII7l4E)

Qatar's Ambitious Plan to Turn the Desert Green

Journeyman Pictures

Published on Jul 1, 2013

“Feeding 9 Billion: Turning the Desert Green: Qatar is trying to solve problems for desert people worldwide. But will the solution work?”

For downloads and more visit:

<http://www.journeyman.tv/?lid=65515>

Petroleum-rich Qatar is spearheading projects to tackle the problems facing desert communities worldwide; from energy to fresh water and food production. But does their expensive, high-tech solution make sense?

“Qatar in many ways is ground zero for a lot of the challenges we’re going to see in the century ahead”, argues US ex-pat Jonathan Smith, from the Qatar National Food Program. Soaring temperatures, swelling populations and minimal rainfall plague the otherwise booming nation. Now its leaders are pushing ambitious experiments like the Sahara Forest Project, transforming seawater and sunlight into fresh water, vegetables, electricity, biofuel and animal feed. “The techniques we’re developing here can be applied in many regions in the world”, the project scientists insist.

Centre for Investigative Reporting: Ref-5870

Journeyman Pictures is your independent source for the world's most powerful films, exploring the burning issues of today. We represent stories from the world's top producers, with brand new content coming in all the time. On our channel you'll find outstanding and controversial journalism covering any global subject you can imagine wanting to know about.” [Direct quotation]

Category

News & Politics

License



Standard YouTube License

Qatar desert farming

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79.

<http://www.youtube.com/watch?v=-xAXJQZohIM>

VertiGrow Design Concept

RustyBONES

Published on Dec 16, 2013

“If you like this video please watch the the marketing video which covers this project in more detail and better quality, with an improved voice over, which can be found here: <http://youtu.be/BQW2jbqDT74>

The design concept video for a vertical farm based in Qatar created by MEng Civil Engineering & MEng Mechanical Engineering students as part of the final year Interdisciplinary Design Project at the University of Plymouth.

With no prior experience in video production or editing, all the skills required to create this video were learnt over the course of just three weeks between between working on other assignments.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Futuristic farming.

---

80.

<http://www.youtube.com/watch?v=rdU66VFcXWs>

FST How-To Video: Modular High Tunnels (Greenhouse / Hoop House / High Tunnel / Hoop Coop)

FourSeasonTools

Published on Sep 21, 2014

“Modular High Tunnels by Four Season Tools with design input from Eliot Coleman & Mother Earth News. These versatile movable structures can be used like greenhouses for season extension with vegetables or as hoop coops for pasturing animals. Four Season Tools offers a wide variety of season extension and horticulture supply equipment including fixed and movable high tunnels and hoop houses. For more information go to: [www.smallfarmtools.com](http://www.smallfarmtools.com) or <http://www.motherearthnews.com/organ...>” [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

Modular poly houses Chicken coop.

---

81.

<http://www.youtube.com/watch?v=sFHQn8wXr5I>, <http://www.youtube.com/watch?v=y-CQ8-v5h7g>, [http://www.youtube.com/watch?v=aO5kG\\_a7CYA](http://www.youtube.com/watch?v=aO5kG_a7CYA)

Hoop House Construction, Part 1[2 and3] of 3: Types of Hoop House Structures

Noble Foundation

Published on Jan 9, 2014

“In part one of this lecture from the Noble Foundation's Hoop House Symposium, Steve Upson shows examples of several types of hoop house structures and discusses the pros and cons of the different designs.

Steve Upson is a Noble Foundation soils and crops consultant specializing in horticulture. He has conducted numerous Noble Foundation research and demonstration projects using hoop houses since the mid-1990s. This Hoop House Symposium took place in Ardmore, Okla. on Oct. 23, 2013. “ [Direct Quotation]

Category

Education

License

Standard YouTube License

Hoop houses

---

82.

<http://www.youtube.com/watch?v=3xkOZe94AIM>

Preparing Garden Mound w/ Compost, Fertilizer & Tilter

Sorena Maes

Uploaded on Jun 9, 2011

“How I prepare my garden beds:

1. Mark the dimensions (12" footpath, 30" bed).
2. Use various tools (hoe, rake, etc) to shape into mound.
3. Throw on compost. For the first year, I'm going 1" thick.
4. Amend with Fertrell, a little azomite, and raw aragonite.
5. Use the "tilther" to mix in.

6. Rake smooth with 30" rake. Done!" [Direct quotation]

Category

People & Blogs

License

Standard YouTube License

Created using

YouTube Video Editor

Source videos

View attributions

Johnny's Seeds tiller in action (use). Commercial product.

---

83.

<http://www.youtube.com/watch?v=D6zNZYd7iNE>

Tools for Small-Scale Crop Production

NCATATTRA

Published on Oct 25, 2012

"This webinar, broadcast October 25, 2012, focuses on tools and techniques for small-scale crop production. National Center for Appropriate Technology (NCAT) Agriculture Specialist Andy Pressman discusses the importance of investing in good quality and well-designed tools, their different purposes, and how to use them to properly plant and maintain crops." [Direct quotation]

Category

Education

License

Standard YouTube License

Hand tool video, 1 hour.

---

84.

<http://www.youtube.com/watch?v=uTGilR95T44>

From seed to loaf (part 1 of 2) allotment scale production of bread making wheat

Stephen Simpson

Uploaded on Jan 27, 2010

“This video is about small-scale wheat production using modified garden machinery and a home-built threshing machine. I grow my own wheat and make bread not because its 10% cheaper but because I think its 100% better - and it gives me great satisfaction. Growing wheat this way is an indulgence as it requires a certain amount of land, if space is tight growing vegetables and salad crops makes more sense. If you want to try yourself, please check first to see if wheat will grow in your area. Enjoy whatever you grow and remember - look after the land and the land will look after you.

Link to hand threshing using a flail <http://www.youtube.com/watch?v=w-YurY...> “ [Direct Quotation]

Category

Howto & Style

License

Standard YouTube License

Small allotment wheat farming.

---

85.

<http://www.youtube.com/watch?v=le2JP-K90jk>

How to get rid of weeds in organic farming

Farming Secrets

Uploaded on Jul 15, 2008

[www.farmingsecrets.com](http://www.farmingsecrets.com) Attention Farmers, having trouble with weeds? Watch Gerhard Grasser explain a new solution. [Direct quote]

Category

Education

License

Standard YouTube License

Plough share and rotary harrow and weed growth philosophy.

---

86.

<http://www.youtube.com/watch?v=vKiqTwme8jA>

Weed Treatments

Michael Bomford

Uploaded on Apr 6, 2009

“A flame weeder, spring-tine weeder, and rolling cultivator are shown in experimental plots growing organic edamame soybeans at the Kentucky State University research farm. See <http://organic.kysu.edu/CornWeeds.shtml> for more information.” [Direct Quotation]

Category

Science & Technology

License

Standard YouTube License

Flame weeder Thatcher and Roller.

---

87.

[http://www.youtube.com/watch?v=-J4No0\\_ByCs](http://www.youtube.com/watch?v=-J4No0_ByCs)

TRAM Spedo Potato Ridger

TRAM Sales Ltd.

Uploaded on Aug 6, 2010

Music

"Fog" by MFVgroup (Google Play • eMusic • iTunes)

Category

Education

License

Standard YouTube License

Potato hiller tractor drawn.

---

88.

<http://www.youtube.com/watch?v=8OyOUNLH2ZY>

1928 Kinkade Garden Tractor

The Junkologist's Junk Heap

Uploaded on Aug 9, 2011

"I just brought this one home today and got it running. It came out of a large collection in upstate NY. Had to free up the exhaust valve and do some magneto work to get it running." [Direct quotation]

Category

Autos & Vehicles

License

Standard YouTube License

One wheel tractor.

---

89.

<http://www.youtube.com/watch?v=eLpREOMIdZI>

Chain-Tred Tractor Windolph Tractor Company

Published on May 14, 2012

“Brought this one home yesterday and it hasn't run since 1985, or so. Built in the early 1950s. Chain-Tred tractor built by The Windolph Tractor Company in Portland, OR.” [Direct quotation]

Category

Autos & Vehicles

License

Standard YouTube License

The Junkologist's Junk Heap

Two wheel tractor on tracks.

---

90.

<http://www.youtube.com/watch?v=awfOxjovdtg> ^

semeuse de pomme de terre

jlouisization

Published on Mar 17, 2014

“Semeuse mixte de 8 cv a plus pour motoculteur et microtracteur ..Utilization pour: pommes de terre , maïs, etc,etc . La semeuse ouvre la route, la semence tombe toute seul et la route se referme automatiquement

voir sur [www.jardinternet.com](http://www.jardinternet.com)

Sembradora de patata y hortalizas para motocultor de 08 cv a mas y minitractor . La maquina abre el riego, la semilla, patata etc, etc, calle por si sola, y sierra el riego automáticamente...” [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

---

91.

<http://www.youtube.com/watch?v=9LSEyuCrH4U>

Semoir 1 rang à tirer

Small single row (seed divot shaft) seeder, does ok, but not great.

Tom Press

Published on Feb 15, 2013

“Semoir 1 rang en métal Tom Press.

Ce semoir permet de s'ajuster selon la taille des graines et l'espacement de semis souhaité.  
Robuste et simple à utiliser.

<http://www.tompress.com/A-10000457-se...> “ [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

---

92.

<http://www.youtube.com/watch?v=zBkDzmQlhXM>

Plantadeira de cenoura e outras sementes miúdas - Parte 1

Alexandre Bertoldo

Published on May 23, 2013

“Construindo uma plantadeira de cenoura e outras sementes miúdas de baixo custo para ser usada por agricultores familiares.” [Direct quotation]

Category

Autos & Vehicles

License

Standard YouTube License

---

93.

<http://www.youtube.com/watch?v=7UdaDgQ3loA>

Plantadeira de cenoura e outras sementes miúdas - Parte 2

Alexandre Bertoldo

Published on May 23, 2013

Category

Autos & Vehicles

License

Standard YouTube License

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94.

<http://www.youtube.com/watch?v=cqLOt4TMt0c>

### Plantadeira de cenoura e outras sementes miúdas - Parte 3

Alexandre Bertoldo

Published on May 25, 2013

Category

Autos & Vehicles

License

Standard YouTube License

Building a homemade coffee can seeder part 1 2 3

Very light weight, low cost, complete instructions on how to build. Requires the seed trench to be dug and covered separately however.

---

95.

<http://www.youtube.com/watch?v=RdSCRx5G4Qs>

Four-row Pinpoint Seeder

JohnnysSeeds

Uploaded on May 9, 2011

“An excellent tool for greenhouse planting. Plants four rows 2 1/4” apart, or optionally two rows 4 1/2” apart or two rows 6 3/4” apart. Designed to be pulled. Handle included. Comes standard with four seed-hole sizes for small to medium size seed.” [Direct quotation]

Category

Education

License

Standard YouTube License

Johnny’s four row pin point seeder. For small seeds only row spacing is only adjustable to 2.25 inch increments. Rows must be covered, and bed well prepared.

---

96.

<http://www.youtube.com/watch?v=OfD38phUjGM>

Mini sembradora manual - Urbaplant

Urbaplant

Uploaded on Sep 13, 2011

“Mini sembradora manual Urbaplant, crea el surco, planta y tapa la semilla en un solo paso. Más información: <http://www.urbaplant.com/tienda/produ...>” [Direct quotation]

Category

Science & Technology



License

Standard YouTube License

Source videos

View attributions

Small plastic seeder with vertical seed plates. Seeds one row, furrows and covers. Plates interchangeable. The machine is very small and light weight, it may not be very durable.

---

97.

<http://www.youtube.com/watch?v=3hsT5fsVnS0>

Semeadora Semi Automática Pantográfica com AP integrada.

Andre Rossi

Uploaded on Sep 25, 2011

“Semeadora de grãos graudos e miudos, com alta precisão.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Easy to build coffee can seeder. Does not furrow or cover seed.

---

98.

[http://www.youtube.com/watch?v=TYNDKq\\_Ajy0](http://www.youtube.com/watch?v=TYNDKq_Ajy0)

Semeadeira de hortaliças manual modelo 4linhas reguláveis

Sergio Resner

Published on Aug 24, 2013

Demonstração na feira "Agrifam 2013" em Lençóis paulista SP.

“Equipamento com várias opções de regulagens para tamanhos de sementes e espaçamentos entre linhas e entre plantas.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Hi tech four row seeder.

---

99.

<http://www.youtube.com/watch?v=W5Z3Bh-CI3o>

Сеялка СМК 5

Компания Электромотор

Uploaded on Jan 29, 2012

“Ручная сеялка СМК 5 <http://electromotor.com.ua/video/gard...> от официального дилера производителя Роста, компании Электромотор, Киев. тел. 5-000-888. Оптовая цена.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Molto row seed with devoted shaft for seed dispersal, row spacing is limited to the shaft and only one seed size can be used. <http://www.youtube.com/watch?v=U1D4wCcpYRY> is the single row version

---

100.

<http://www.youtube.com/watch?v=bGIh6FG6tqg>

Сеялка фасоль.mpg

Zemledelets

Uploaded on Jan 12, 2012

“НАШ САЙТ [www.ast-dnepr.com.ua](http://www.ast-dnepr.com.ua)

Днепропетровское производственное предприятие «Агросервистрактор» выпускает СЕЯЛКУ ВАКУУМНУЮ ТОЧНОГО ВЫСЕВА СВТВ 4-8.

Эта новинка обеспечивает точный многорядный высев различных культур с размером семян от 0,5 мм до 10мм.

Количество рядов -- от 2 до 8.

Ширина междурядий -- от 7см до 2м.

Расстояние между семенами в ряду регулируется с помощью электронного блока управления.

Сеялку можно агрегатировать с любым тяжёлым мотоблоком, мини-трактором или трактором. “ [Direct quotation]

Music

"Oxygene, Pt. 2" by Jean Michel Jarre (Google Play • iTunes • eMusic)

Artist

Jean Michel Jarre

Category

Science & Technology

License

Standard YouTube License

SHOW LESS

Vacuum metered seed drill.

---

101.

<http://www.youtube.com/watch?v=Hd59kLN9720>

Semeadeira Hortaliças Manual.wmv

Sergio Resner

Uploaded on Oct 11, 2010

“Semeadeira manual ideal para horticultura” [Direct quotation]

Music

"Quatrieme Rendez-Vous" by Jean-Michel Jarre (Google Play • iTunes)

Artist

Jean Michel Jarre

Category

Science & Technology

License

Standard YouTube License

Crankshaft linear piston metered seeder positive drive from ground wheels.

---

102.

[http://www.youtube.com/watch?v=pOljGS2\\_A\\_E](http://www.youtube.com/watch?v=pOljGS2_A_E)

Капельный полив

Zemledelets

Uploaded on Oct 14, 2009

“НАШ САЙТ [www.ast-dnepr.com.ua](http://www.ast-dnepr.com.ua)

Днепропетровское производственное предприятие «Агросервистрактор» выпускает мини-технику: мотоблоки «Днепр-6R» и навесное оборудование к ним, весь перечень сельхознавески и навески для коммунальных хозяйств

Предназначен для укладки ленты капельного орошения на глубину 20-70мм. Одновременно формирует грядки шириной 1м для улаживания

полиэтиленовой пленки той же ширины с закрытием

краев грунтом. Ширина захвата 1000мм. Глубина “ [Direct quotation]

укладки 20-70мм.

-----www.ast-dnepr.com.ua-----

Category

Science & Technology

License

Standard YouTube License

1m plastic mulch applicator

---

103.

[https://www.youtube.com/watch?v=XsxRZQR\\_7VU](https://www.youtube.com/watch?v=XsxRZQR_7VU)

Rainwater Catchment from a High Tunnel for Irrigation Use

Poly tunnel rainwater collection

Iowa State University Extension and Outreach

Published on Apr 10, 2012

“This program describes how to build a system to catch, store and reuse the rainwater for irrigation in a high tunnel. Shawn Shouse, ISU Extension and Outreach ag engineer, runs us through the process. The cost of installing rain gutters, rainwater storage tanks, and an electric pump is estimated at \$1,200. A solar-powered pumping system will add approximately \$700 to that cost.

ISU Extension and Outreach offers the publication, "Rainwater Catchment from a High Tunnel for Irrigation Use" for free PDF download: <https://store.extension.iastate.edu/>...” [Direct quotation]

Category

Education

License

Standard YouTube License

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104.

<http://www.canadiantire.ca/en/pdp/gas-earth-auger-0603795p.html#.VIUNHjHF8YM>

Canadian tire (hardware and tools) online store. Direct link to a small gasoline engine (powering an earth auger).

---

105.

[http://www.ebay.com/itm/Pioneer-Rotovator-Wheeled-Cultivator-Garden-Tiller-Amish-Made-in-Ohio-/111537588517?pt=US\\_Garden\\_Tools&hash=item19f8288925](http://www.ebay.com/itm/Pioneer-Rotovator-Wheeled-Cultivator-Garden-Tiller-Amish-Made-in-Ohio-/111537588517?pt=US_Garden_Tools&hash=item19f8288925)

Rolling spike drum weeder with handle. Very similar in concept to the wheel hoe

---

106.

[http://www.ebay.com/itm/Earthway-Tubular-Steel-High-Wheel-Cultivator-6500-New-/171391335295?pt=US\\_Garden\\_Tools&hash=item27e7b83b7f](http://www.ebay.com/itm/Earthway-Tubular-Steel-High-Wheel-Cultivator-6500-New-/171391335295?pt=US_Garden_Tools&hash=item27e7b83b7f)

Large diameter wheeled wheel hoe. Earthway. Commercial product.

---

107.

[http://www.ebay.com/itm/Garden-Cultivator-Tiller-Black-Decker-Backyard-tool-W-20V-Lithium-Ion-Battery-/121497680432?pt=US\\_Outdoor\\_Power\\_Equipment&hash=item1c49d37a30](http://www.ebay.com/itm/Garden-Cultivator-Tiller-Black-Decker-Backyard-tool-W-20V-Lithium-Ion-Battery-/121497680432?pt=US_Outdoor_Power_Equipment&hash=item1c49d37a30)

Vertical rototiller. Lithium ion, electrical. Similar in design to a weed eater.

---

108.

[http://www.ebay.com/itm/West-Germany-Original-Garden-Weasel-Tool-Cultivator-Replacement-Head-Gardening-/301423244321?pt=US\\_Garden\\_Tools&hash=item462e39b421](http://www.ebay.com/itm/West-Germany-Original-Garden-Weasel-Tool-Cultivator-Replacement-Head-Gardening-/301423244321?pt=US_Garden_Tools&hash=item462e39b421)

Garden weasel secondary tiller/tilther. Commercial product.

---

109.

<https://www.youtube.com/watch?v=X1l2jcGEoSo>

IDEI, India, Low-cost treadle pumps for irrigation - Ashden Award winner

Ashden

Uploaded on Feb 29, 2008

“This video can be downloaded here: <http://www.ashdenawards.org/winners/idei> IDEI won an Ashden Award for Sustainable Energy in 2006.

You can follow us on:

Facebook <http://bit.ly/9GKbIM>

Twitter <http://twitter.com/AshdenAwards>

Blog: <http://www.ashdenawards.org/blog/latest>

International Development Enterprises, India (IDEI) has commercialised low-cost treadle pumps for irrigation. Over 510,000 pumps have been sold in the rural areas of the Eastern part of India, bringing substantial benefits to farming families.

Many farmers in the plains of the North and East of India rely on a single annual crop such as wheat or maize, watered by the monsoon. The income which they derive is small, and this forces many to seek casual work in cities such as Lucknow for part of the year, often disrupting children's education since the whole family moves to the city. The water table in the region is consistently high, so out-of-season crops can be grown under irrigation if a pump

is available. Affluent farmers can afford to buy and operate diesel pumps. Poorer farmers may also hire diesel pumps, but often at very high cost.

IDEI commercialised low-cost treadle pumps for irrigation. The pumps are designed to be simple for people of all ages to operate, and most members of a household, including children, can take part. Typically, the household will pump for two to eight hours a day. Poor farmers can now cultivate and sell a variety of crops outside the normal growing season and bring additional land under cultivation because it can be irrigated. The increase in family income means that the cost of the pump can be paid back from the profits of one extra harvest. All components of the pumps are manufactured locally, and IDEI has successfully developed a supply chain of manufacturers, distributors, retailers and installers.” [Direct quotation]

Category

Nonprofits & Activism

License

Standard YouTube License

Treadle pup. Works Great. How can I make the linear pump into a rotary one that uses bicycle power? Also instead of open furrows as irrigation canals, what about bamboo pipes to reduce evaporation?

---

110.

<https://www.youtube.com/watch?v=KoKnyzVG57s>

Irriline Hand Roll Irrigation Equipment

IRRILINE SIDEROLL IRRIGATION MACHINE

Uploaded on Jun 6, 2007

“irrigation machine” [Direct quotation]

Category

Autos & Vehicles

License

Standard YouTube License

Rolling irrigation. With sprinkler (high losses to evaporation, drippers or hanging sprayers)

---

111.

<https://www.youtube.com/watch?v=LWQld3BP3Fw>

Cultivating Soybeans with Horses

Ernest Bontrager

Published on Jun 26, 2013

“Amish man using a harrow to cultivate his beans to get rid of the weeds.” [Direct quote]

Category

Travel & Events

License

Standard YouTube License

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112.

<https://www.youtube.com/watch?v=c9zVgibUMwg>

WHEAT, RICE & TILLING...1 MACHINE MULTI FUNCTIONS...

Supermaxtraders

Uploaded on Jan 29, 2011

“SUPERMAX TRADERS...

For more all type Agricultural machines queries Contact as follow:

Mob:0300-4581052

Mob 2:0333-4893517

Tel:042-336637397

[supermaxno1@gmail.com](mailto:supermaxno1@gmail.com)” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Wheat harvester.

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113.

<https://www.youtube.com/watch?v=M2U8rIffAHo>

HXR-50 reaper & binder combine harvester

Xin Hua

Uploaded on Feb 10, 2011

“reaper & binder combine harvester

E-mail:sales@huaxinmachine.com” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

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114.

<http://www.scytheworks.com/s-sc-wr.html>

Sickle Scythe or Wheat Reaper?

NO AUTHOR

Introduction: “In Nepal, the grain has been harvested by sickle for centuries. Today, in easy accessible regions of Terai, a few combines are finding their way in to speed up the harvest. However, combines are out of reach for majority of small farmers and thus most of the fields are still harvested with sickles. In recent years, due to the increased migration of young villagers to the urban centres and the high number of men working in foreign countries as unskilled labour to support their families in Nepal, farmers are experiencing a considerable shortage of labour at harvest time. Therefore, increasing the productivity of the harvest is a very pressing issue.” [Direct quotation]

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115.

<https://www.youtube.com/watch?v=mlimh5yvxus&list=UUZnfO4flz4ThYKHwB7t4NWw&index=2>

Assembling "The Beast"

Hoss Tools

Published on Nov 24, 2014

“After composting our high tunnel greenhouse and incorporating the compost with the Hoss Single Wheel Hoe, we assembled "The Beast" to plant greens in the high tunnel. This multi-row Hoss Seeder setup can be used to plant 2-3 rows of the same or different crops at one time.

The Beast - <https://hosstools.com/product/beast/>Hoss Single Wheel Hoe - <https://hosstools.com/product/single-...>Hoss Seeder - <https://hosstools.com/product/hoss-se...>Hoss Spreader Bar - <https://hosstools.com/product/spreade...>

Check out our other pages:

Website: <https://hosstools.com/>Facebook: <https://www.facebook.com/pages/Hoss-T...>Pinterest: <http://www.pinterest.com/hosstools/>Google +: <https://plus.google.com/u/0/b/1055414...> [Direct quotation]

Category

People &amp; Blogs

License



Standard YouTube License

Modular multi row hoss seeder.

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116.

<https://www.youtube.com/watch?v=jgfR88rgRfE>

Ethiopia: Feeding the Future - Part 1

USCCanada

Uploaded on Nov 27, 2007

““Ethiopia: Feeding the Future (The Seeds of Survival Story)” is a provocative account of the ingenuity of Ethiopian farmers and scientists, working together on an innovative program designed to rebuild Ethiopia's food supply.

Juno award winning folk artist, James Keelaghan, tells the story of how, through USC Canada's Seeds of Survival program, Ethiopia is working to save landrace seeds through traditional, time-tested methods. It is these traditional seeds that hold the secret of success for food-producing nations around the globe.

Featuring breathtaking photography, a glimpse into one of the most ancient civilizations, and explorations into a profound agricultural development, "Ethiopia: Feeding the Future" was produced in 1995 by Roland K. Pirker of Rollframe Productions Limited for USC Canada.” [Direct quotation]

Category

Nonprofits & Activism

License

Standard YouTube License

Ethiopian agriculture. Terraces can be seen. Plowing practices, seeding and winnowing seen. There is great focus on seed diversity. (Barley)

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117.

<https://www.youtube.com/watch?v=FiqrwMp2vFU>

Ethiopia: Feeding the Future - Part 2

USCCanada

Uploaded on Nov 27, 2007

““Ethiopia: Feeding the Future (The Seeds of Survival Story)” is a provocative account of the ingenuity of Ethiopian farmers and scientists, working together on an innovative program designed to rebuild Ethiopia's food supply.

Juno award winning folk artist, James Keelaghan, tells the story of how, through USC Canada's Seeds of Survival program, Ethiopia is working to save landrace seeds through traditional,

time-tested methods. It is these traditional seeds that hold the secret of success for food-producing nations around the globe.

Featuring breathtaking photography, a glimpse into one of the most ancient civilizations, and explorations into a profound agricultural development, "Ethiopia: Feeding the Future" was produced in 1995 by Roland K. Pirker of Rollframe Productions Limited for USC Canada." [Direct quotation]

Category

Nonprofits & Activism

License

Standard YouTube License

Ploughing, deep turn a lot of soil. Cattle being used to thresh grain.

118.

[http://www.ebay.com/itm/Home-Garden-Gas-Tiller-Cycle-Powered-2-Stroke-Cultivator-Walk-Behind-Grass-soil-/390996692056?pt=US\\_Outdoor\\_Power\\_Equipment&hash=item5b09380c58](http://www.ebay.com/itm/Home-Garden-Gas-Tiller-Cycle-Powered-2-Stroke-Cultivator-Walk-Behind-Grass-soil-/390996692056?pt=US_Outdoor_Power_Equipment&hash=item5b09380c58)

Small rototiller (40cc).

119.

<https://www.youtube.com/watch?v=FnBFsg2YF-I>

Future of Food (2000) - Part 2 - Nepal

USCCanada

Uploaded on Jan 8, 2008

"In 2000, USC Canada produced a 15 minute educational program exploring the issue of food security. Using examples from our programs in Mali and Nepal, you'll see how, in the communities where we work, our partners are ensuring everyone has access to enough safe and nutritious food.

USC would like to thank Kensington Communications ([www.kensingtontv.com](http://www.kensingtontv.com) or [youtube.com/user/KensingtonTV](http://youtube.com/user/KensingtonTV)) for their generous support in producing this video.

Music

"Aminata Santoro" by Toumani Diabate (Google Play • iTunes)

Artist

Toumani Diabaté". [Direct quotation]

Category

Nonprofits & Activism

License

Standard YouTube License

Nepal, example of farm system, focus on woman, good intro.

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120.

<http://www.himalayan-imports.com/kami.html>

Welcome to the world of the Nepalese Kami -

khukuri-smiths for Himalayan Imports

How a Nepalese tool maker does his job, very interesting.

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121.

<http://www.youtube.com/watch?v=qirKW9sLNYI>

YANMAR ヤンマーミニ耕うん機 QT30

YanmarWorldwide

Published on Nov 19, 2012

“使いやすくて、効率よく作業ができる機能が満載。

家庭菜園をはじめの方など、農業初心者のファースト耕うん機にもぴったり。

野菜づくりの楽しさを教えてくれる、キュートで頼れるパートナーです。” [Direct quotation]

<http://www.yanmar.co.jp/agri/products...>

Category

Autos & Vehicles

License

Standard YouTube License

Wheel weeders. Commercial production.

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122.

<http://www.youtube.com/watch?v=fKkNb0CN0xs>

Protected vegetable cropping in the Visayas, Philippines.

ACIAR Australia

Published on Dec 4, 2012

“With drenching rain and typhoons for over half the year, growing healthy vegetable crops in the Visayas region of the Philippines is a real challenge. Now farmers are building low cost protected cropping structures that allow them to grow crops in the wet season. The system was tested through an ACIAR project and is now being adopted more widely. Language Cebuano and English.” [Direct quotation]

Very success full structures in Philippines for vegetable production made from bamboo.

123.

<http://www.youtube.com/watch?v=gnoE4zGlyOM>

HOSS WHEEL HOE REVIEW AND FIELD TEST

7 TRUMPETS PREPPER

Published on Jun 15, 2013

“In this video I demonstrate the Hoss wheel hoe and it is an amazing piece of equipment for those who want to have something to work your without requiring fuel.

Make sure to check them out at [www.hosstools.com](http://www.hosstools.com) and get you one to put back for hard times or enjoy using it in you garden now.

Make sure to visit [www.soundingtheloudcry.com](http://www.soundingtheloudcry.com) to find out more about the 7 Trumpets of Revelation, The Creators Calendar and much more.

Naturally heal yourself and your loved ones using essential oils and the old paths of healing that has been around for thousands of years. To get you some essential oils check out this link: <http://www.mydoterra.com/essentialoil...>

Want clean prepping food with no GMO's that is healthy to eat? Then visit

[http://www.prepsos.com/#utm\\_source=yt...](http://www.prepsos.com/#utm_source=yt...) to stock up so you will be prepared for when disaster strikes.

GMAG® Saltwater Powered Battery Charger - Portable Power from Saltwater

Anywhere, Anytime, Any Weather, Day or Night - Be Prepared

Need Power? Just Add Water!® <http://www.greenivative.com/>

Looking for Alternative Energy for your prepping needs? Offering solutions for applications in Solar, Wind and more visit: <http://hurricanewindpower.com/>

Want to grow your own food with a Geodesic greenhouse dome? Then visit <http://ziptiedomes.com/> for an affordable solution specializing in greenhouses, chicken tractors and more.

Dependable off grid wind and solar power you can count on Missouri Wind and Solar <http://store.mwands.com/>

Want power on demand and on the go? Then Look no further than Solaaron the "Solar Powered Generators & Portable Renewable Energy Specialists" <http://solaaron.com/>

Wanting to grow your own healthy and safe food that you are in control of using Aquaponics? Then visit the one stop source for all your growing needs. <http://theaquaponicsource.com/>  
 “ [Direct quote]

INTRO THUNDER BY: Mark DiAngelo

INTRO/OUTRO SOUNDS AND MUSIC PROVIDED BY: POND5.COM

Category

Education

License

Standard YouTube License

Wheel hoe hoss assembly.

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124.

<http://www.youtube.com/watch?v=KWbz5X2nk6k>

Homestead planters

MAINEPREPPER

Published on Apr 30, 2013

“Planting seed is a precise operation whether a large or small garden. Several affordable and very interesting options exist for us to try out, some of mine date back to the 1920s!” [Direct quotation]

Category

Education

License

Standard YouTube License

Manual seed planters

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125.

[http://www.youtube.com/watch?v=xjBDA\\_Zd9eM](http://www.youtube.com/watch?v=xjBDA_Zd9eM)

Our New Homemade Seed Sower ( - And How We Got There!)

WayOutWest Blowinblog

Published on Jul 11, 2014

“Making your own vegetable seeder/planter shouldn't be so difficult, should it? But picking up very small light seeds, and dropping them at regular intervals, turns out to be more complicated than I'd first thought. They'd get lost, crushed, clumped and stuck -- and that's without trying to accommodate different shapes and sizes..

I found a way of doing it in the end, and I'm happy with the result, but not before my appreciation of all the designers who have preceded me grew enormously.

Madeline is one of only a very few organic seed producers in Ireland. She can send seeds through the post, and her skills and commitment in the field are legendary.

This is her website - <http://www.brownenvelopeseeds.com>” [Direct quotation].

Homemade seeder.

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126.

<http://www.youtube.com/watch?v=N5uIYhtXiZk>

Manual Seed Drill by Dharti Agro Engineering

Business Video

Published on Mar 2, 2014

“<http://www.dhartiagroengg.com/> We specialize in manufacturing a wide range of Seed Drills for our clients. Manufactured after an extensive market research, these products are known for their longer functional life and enhance technology. Furthermore, these automation seed drills are operated by single person and adjustable for smooth operating. Suitable for small farmers, these products facilitate in sowing wheat, cotton-seed, cumin seed and other grains.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Pull behind single row wheat seeder

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127.

<http://www.youtube.com/watch?v=qESUwk3aMLQ>

Manual seeding with a bike planter

Marcio Voss

Published on Jul 25, 2013

“Same video as Bicicleta semeadora, in portuguese. A tutorial: ' How to do a sowing bike' is now available at Youtube.” [Direct quotation]

Category

Science & Technology

License

Standard YouTube License

Bicycle adapted to seed works well.

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128.

<http://www.youtube.com/watch?v=pRzUJDeC1DI>

Désherbage de semi avec houe maraichere / Cultivateur à dent

Terra Teck

Published on Mar 15, 2014

“Désherbage avec la houe maraîchère terrateck et l'outils de binage des semis : le preci-disque.

Pour toutes demandes d'informations :

TERRATECK SAS

472, route d'armentières

62660 BEUVRY

[contact@terrateck.com](mailto:contact@terrateck.com)” [Direct quotation]

Category

People & Blogs

License

Standard YouTube License

Wheel hoe variation (Commercial)

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129.

[http://www.youtube.com/watch?v=CvQka8\\_rV94](http://www.youtube.com/watch?v=CvQka8_rV94)

Cultivateur à roue, houe maraîchère, ou pousse-pousse Cecotec

Benoit MORELLE

Published on Dec 4, 2013

“Baptisé de divers noms, houe maraîchère, binette ou cultivateur à roue, pousse-pousse, ou encore véloculteur, c’est un outil très pratique pour le maraîcher. Il permet de travailler le sol à l’aide d’une griffe, de biner entre les cultures, de butter. Grâce au réglage de la hauteur des roues et du manche, il est très ergonomique. Pour un binage très précis il peut être équipé d’une deuxième roue : on travaille alors "à cheval" sur la culture Disponible chez Cecotec [www.cecotec.be](http://www.cecotec.be) Livraison franco en France et en Belgique” [Direct quotation]

Category

People & Blogs

License

Standard YouTube License

French wheel hoe Commercial product.

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130.

<http://www.youtube.com/watch?v=7pxeRsx9NLo>

Semeuse pomme de terre et maïs

Jlouisization

Published on Jan 29, 2014

“Semeuse motoculteur de 8 cv a plus et microtracteur..utilization pour: pommes de terre, maïs, etc,etc

La semeuse ouvre la route, la semence tombe toute seul et la route se referme automatiquement .

Achat sur [www.jardinternet.com](http://www.jardinternet.com)



sembrador de patata y hortalizas para motocultor de 08 cv a mas e minitractor . La maquina abre el riego, la semilla, patata etc, etc, calle por si sola, y sierra el riego automáticamente...” [Direct quotation]

Category

Howto & Style

License

Standard YouTube License

Large seed seeder very slow, not very use full or time efficient, better off to plant by hand .