JADAM
Organic Farming
The way to Ultra-Low-Cost agriculture
Youngsang Cho
Hankyu Cho, Since 1967

[Korea Natural Farming]
省力多收農法
“Save effort, big yield” farming
Ultra Low Cost Agriculture
JADAM develops core manufacturing techniques for Natural Pesticides and makes technology public.

Developed by JADAM Natural Pesticide Institute

JADAM Institute has developed many new products and methods. All these knowledge are shared with the public (go to www.jadam.kr). JADAM website has been running since 2003 and has record of numerous on-site successes.

- Natural wetting agent (no heating)
- Natural microorganism solution made with potatoes
- Natural liquid fertilizer made without sugar or molasses
- Natural pesticide against canker, leaf spot
- Natural pesticide against aphids, mites
- Natural pesticide against stinkbug, mealybug
- Natural pesticide against citrus flatid planthopper, leafhopper
- Comprehensive pesticide for rice
- Complete fertilizer program for crops
- Natural sulfur (no heating)
- Natural microorganism solution made with mixed grains
- Natural pesticide against rice bakanae disease
- Natural pesticide against powdery mildew, downy mildew
- Natural pesticide against tobacco moth, beet armyworm
- Natural pesticide against slug, snail
- Natural pesticide against rice water weevil (surface spreading agent)
- Eliminating flies from livestock housings
- Naphthalene pesticide
Coffee Berry Borer (CBB)

Reduced the Incidence rate to less than 0.1%.
You can see JADAM's Lecture video with English subtitles from http://en.jadam.kr
Make all-Pesticide, natural fertilizer and microorganism inputs yourself

Ultra-Low-Cost Organic Agriculture!
Currently 1,715 donators
Organic Regulations

The National Organic Program (NOP) develops the rules & regulations for the production, handling, labeling, and enforcement of all USDA organic products. This process, referred to as rulemaking, involves input from the National Organic Standards Board (a Federal Advisory Committee made up of fifteen members of the public) and the public. The NOP also maintains a Handbook that includes guidance, instructions, policy memos, and other documents that communicate the organic standards.

Regulatory References

- USDA organic regulations. (Los Reglamentos Orgánicos Estadounidenses - PDF) 7 CFR Part 205 includes all USDA organic standards, including prohibited practices, requirements, and the National List of Allowed and Prohibited Substances.
- Program Handbook. This compilation of guidance documents, policy memos, and instructions is available online.

News & Announcements

- 08/20 New Vendor Training from

Updated: 2020-07-24
JADAM Natural Pesticides are enough to replace Chemical pesticides.

The effect of controlling pests is also EXCELLENT!
JADAM Natural Pesticides are very EASY to make.
JADAM farming has already been successful in large-scale rice farming.
Bongha agricultural association (132 ha)
Thaelee agricultural association (214 ha)
JADAM Natural Pesticides can reduce pesticide costs by up to 98%. 
9 dollars per acre (4 times, one year)

<table>
<thead>
<tr>
<th>Natural Pesticide</th>
<th>Ingredient</th>
<th>Unit</th>
<th>Volume and cost per application</th>
<th>Volume (Liters)</th>
<th>Cost (Korean Won)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jadam Oil</td>
<td>Liters</td>
<td>1st</td>
<td>2nd</td>
<td>3rd</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost (₩)</td>
<td>552</td>
<td>765</td>
<td>885</td>
</tr>
<tr>
<td></td>
<td>Jadam Sulfur</td>
<td>Liters</td>
<td>414</td>
<td>459</td>
<td>590</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost (₩)</td>
<td>213,500</td>
<td>236,710</td>
<td>304,260</td>
</tr>
<tr>
<td></td>
<td>Jerusalem Artichoke</td>
<td>Liters</td>
<td>322</td>
<td>510</td>
<td>885</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost (₩)</td>
<td>193,200</td>
<td>306,000</td>
<td>531,000</td>
</tr>
<tr>
<td></td>
<td>Korean pasque flower root</td>
<td>Liters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost (₩)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pokeweed</td>
<td>Liters</td>
<td>230</td>
<td>357</td>
<td>590</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost (₩)</td>
<td>34,500</td>
<td>53,550</td>
<td>88,500</td>
</tr>
<tr>
<td></td>
<td>Ginko</td>
<td>Liters</td>
<td>138</td>
<td>153</td>
<td>295</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cost (₩)</td>
<td>20,700</td>
<td>22,950</td>
<td>44,250</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This is the natural pesticide use and cost of Bongha village, Korea where they have been successfully farming rice for 5 years in JADAM method. They applied JADAM natural pesticide 4 times and it cost 9 dollars per acre. This is ULC. (1 gallon = approx 3.8 liter, 1US dollar = approx 1,200 Korean Won)
現代農業

今や聞けない農薬の話

有機農業を超低コストに！

韓国の農家は、よく効く「天然農薬」を自給している

イチゴのハダニに
お困りではありませんか？

有機農業の大衆化を目指して

JADAM Organic Farming 超低コストで健康農業を実現する有機農薬「JADAM」

村井式高濃度炭酸ガス処理システム「アグリクリー」の開発者が新製品を開発中です。

ハダニの消去と卵を完全殺す

AIC株式会社 アグリクリー研究所

問い合わせ先：（株）AIC 福島県会津若松市駒ヶ根町1444-1 電話：0242-878-2527
Let's make JADAM’s natural pesticide!

Ultra Low-Cost Organic Agriculture!
The sulfur is allowed to hydrate in 10 minutes without heating.

Disinfectant and pesticide function 1L cost $0.5
Use HDPE plastic container larger than 110 L that is heat-resistant

High-heat is given off! Take extreme caution! Strictly follow procedures, measures (especially water)

Take caution in applying on grape, persimmon, walnut, perilla. Do a prior concentration test!
Ingredients: sulfur 25 kg or 55 lb (99.9%), caustic soda 20 kg or 44 lb (98%, NaOH), water 82 L (21.7 gal), phyllite powder 0.5 kg (1.1 lb), red clay powder 0.5 kg (1.1 lb), sea salt 1.5 kg (3.3 lb)

You will need: 110 L (29 gal) heat-resistant plastic container, wood stick, mask, boots, jacket, gloves, safety goggles

[Be extremely careful of the high heat generated.]

- Do not use containers smaller than 110 L (29 gal).
- Do not use aluminum containers.
- First water is 50 L or 13 gal (54 L or 14.3 gal in summer);
  second water is 32 L or 8.5 gal (28 L or 7.4 gal in summer).
Introduction

Below are some of the places where you can purchase ingredients for Jadam Natural Pesticide.

(If you have further information on where you can purchase them, please email us at vnto2126@snuaver.com and we will add the places)

<table>
<thead>
<tr>
<th>United States</th>
<th>United Kingdom</th>
<th>France</th>
</tr>
</thead>
<tbody>
<tr>
<td>NaOH (sodium hydroxide)</td>
<td>NaOH (sodium hydroxide)</td>
<td>NaOH (sodium hydroxide)</td>
</tr>
<tr>
<td>Sulfur</td>
<td>Sulfur</td>
<td>Sulfur</td>
</tr>
<tr>
<td>55 Gallon Air sea Container Flo Tool</td>
<td>55 Gallon Air sea Container Flo Tool</td>
<td>55 Gallon Air sea Container Flo Tool</td>
</tr>
<tr>
<td>Measuring cup 3000ml</td>
<td>Measuring cup 3000ml</td>
<td>Measuring cup 3000ml</td>
</tr>
<tr>
<td>Paint mixer</td>
<td>Paint mixer</td>
<td>Paint mixer</td>
</tr>
<tr>
<td>Spray Bottles</td>
<td>Spray Bottles</td>
<td>Spray Bottles</td>
</tr>
<tr>
<td>Petri dish</td>
<td>Petri dish</td>
<td>Petri dish</td>
</tr>
<tr>
<td>Water Heater</td>
<td>Water Heater</td>
<td>Water Heater</td>
</tr>
<tr>
<td>Loupe</td>
<td>Loupe</td>
<td>Loupe</td>
</tr>
<tr>
<td>Nylon Netting Bag</td>
<td>Nylon Netting Bag</td>
<td>Nylon Netting Bag</td>
</tr>
<tr>
<td>KOH (potassium hydroxide)</td>
<td>KOH (potassium hydroxide)</td>
<td>KOH (potassium hydroxide)</td>
</tr>
<tr>
<td>Sea Salt</td>
<td>Sea Salt</td>
<td>Sea Salt</td>
</tr>
<tr>
<td>5 Gallon Bucket</td>
<td>5 Gallon Bucket</td>
<td>5 Gallon Bucket</td>
</tr>
<tr>
<td>Measuring cup 500ml</td>
<td>Measuring cup 500ml</td>
<td>Measuring cup 500ml</td>
</tr>
<tr>
<td>Drill</td>
<td>Drill</td>
<td>Drill</td>
</tr>
<tr>
<td>Syringe</td>
<td>Syringe</td>
<td>Syringe</td>
</tr>
<tr>
<td>1 Gallon Bottles</td>
<td>1 Gallon Bottles</td>
<td>1 Gallon Bottles</td>
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<tr>
<td>Thermometer</td>
<td>Thermometer</td>
<td>Thermometer</td>
</tr>
<tr>
<td>Soap Molds</td>
<td>Soap Molds</td>
<td>Soap Molds</td>
</tr>
<tr>
<td>Hand Mixer</td>
<td>Hand Mixer</td>
<td>Hand Mixer</td>
</tr>
</tbody>
</table>
Mr. Cho’s lectures

How to make Jadam Sulfur (JS)

Youngsang Cho / 2017-12-26 14:39

The method of making liquid sulfur without heating was invented by Youngsan...
Add Sulfur (99.9%) 25kg
Add Sea salt 1.5kg
Stone dust 0.5kg
Cray 0.5kg
Add Caustic Soda (NaOH 98%) 20kg
Add Water 50~54L
Stir thoroughly
It melts completely after about 10 minutes.
Add water to 32L
Let it settle for 24 hours
## JADAM Sulfur Analysis Result (Content of S is the mean of JADAM’s analysis values)

<table>
<thead>
<tr>
<th></th>
<th>pH</th>
<th>EC (1:5) ds/m</th>
<th>OM %</th>
<th>T-C %</th>
<th>T-N %</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>11.6</td>
<td>79.55</td>
<td>2.02</td>
<td>1.17</td>
<td>0.18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>C/N %</th>
<th>P₂O₅ %</th>
<th>S %</th>
<th>CaO %</th>
<th>MgO %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11.37</td>
<td>0.043</td>
<td>24.6</td>
<td>0.005</td>
<td>-</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Na₂O %</th>
<th>Fe mg·kg⁻¹</th>
<th>Mn mg·kg⁻¹</th>
<th>Zn mg·kg⁻¹</th>
<th>Cu mg·kg⁻¹</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>15.650</td>
<td>5.307</td>
<td>-</td>
<td>1.747</td>
<td>0.907</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Cd mg·kg⁻¹</th>
<th>Cr mg·kg⁻¹</th>
<th>Ni mg·kg⁻¹</th>
<th>Pb mg·kg⁻¹</th>
<th>As mg·kg⁻¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-</td>
<td>0.04</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Effect of JADAM Sulfur

Rice bakanae disease
Magnaporthe oryzae
Powdery mildew
Downy mildew
Fungal diseases
Anthracnose
Black spot
Pear rust . . .

It solves almost everything about disease!
**JADAM Wetting agent**  (Developer: Youngsang Cho)

The natural oil is hydrolyzed in 10 minutes **without heating**

Wetting agent and pesticide function  1L cost $ 0.5
JADAM wetting agent (JWA)  (100 L or 26 gal)

Ingredients: canola oil 18 L (4.76 gal), caustic potash 3.2 kg (7 lb, KOH 90%), water 82.5 L (21.8 gal)

You will need: 110 L (29 gal) heat-resistant plastic container, electric drill, gloves, safety goggles
How to make Jadam wetting agent (JWA)

Youngsang Cho / 2017-12-26 14:41

This method of making natural wetting agent without heating was invented by...
Use heat-resistant plastic containers.
Dissolve 3.2 kg of KOH in water of 2.5L
Add 18L of Canola oil
Stir for about 10 minutes with an electric drill
The concentration gradually changes.
Color keeps changing and viscosity increases
Stop mixing when liquid is like thin mayo.
Let sit for 3 days
Add 80L water
And stir
Use of JADAM natural pesticides in Rice farming
Rice Bakanae disease’s JADAM solution

Developer: Youngsang Cho
Dilute **JADAM sulfur** 50~100 times with *ROOM* temperature water and soak the rice seeds for 48 hours.

**JADAM solved Bakanae for the first time in the world.**
Put seeds in a nylon mesh pocket. It is soaked for 48 hours.
Completely resolve Bakanae!

JADAM’s Bakanae solution has already become popular in Korea.
Water rice weevil’s JADAM solution,

Developer: Youngsang Cho
Surface-spreading agent

1. *Mix 3 L* of **JADAM wetting agent** in 5 L of water; stir well.
2. *Add 0.5 L* of **JADAM Sulfur** and stir.
3. *Add 3 L* of **Canola oil** and mix with a drill for 10 minutes.
4. Spray the solution undiluted onto the rice paddy in the early morning.
Making and using no. 2

1. Add JWA to water and stir
2. Add JS and stir.
3. Add canola oil and stir.
4. Surface spreading agent completed.
5. Sprinkle on surface.
6. Pesticide is starting to spread out on the surface.
7. Pesticide spreading over wide area.
8. Pesticide has formed a film on the surface.

Photo: Youngsang Cho

Damage done by rice water weevil
1L manufacturing cost is about $1
Magnaporthe oryzae’s solution

500L Standard, Spray JADAM Wetting agent 8L and JADAM sulfur 2L together.

Developer : Youngsang Cho

Photo by D. K. Park.
JHS pesticide
JHS + JWA + water

JHS-JS pesticide
JHS + JS + JWA + water

JHS-JMS pesticide
JHS + JMS + JWA + water

JWA
All inputs must have JWA

JS germicide
JS + JWA + water

JMS germicide
JMS + JWA + water
主要国の農薬使用量
（2010年）

中国：17.8 kg/ha
韓国：13.1 kg/ha
日本：12.1 kg/ha
オランダ：8.8 kg/ha
イタリア：7.4 kg/ha
ドイツ：3.4 kg/ha
フランス：3.3 kg/ha
米国：2.4 kg/ha

単位：耕地1ヘクタールあたりキログラム

【注】
- Active ingredient use in Arable Land & Permanent Crops
- 農薬は農業用のみ
- 最新の数字で比較したもの
- フランス、韓国は2009年のデータを参照
[資料] Faostat 2013.8.4
Wild herbs

Yangha (Zingiber mioga) – Enjoying Wild flower
2018-09-13 | Geol Yoo

Zingiber mioga is a perennial herb with ginger which originates from Southeast A...

Ultra low cost farming

JADAM method is very effective on leaf spot and gray mold rot.
2018-09-10 | Kyungsik Kim

Mr. Younghik Lee said that four years have passed since the potatoes and onion f...

Insects

Ricianid plant hopper
2018-09-06 | Teologi Park

Spot clothing wax cicada, citrus flatid plant hopper, ricianid plant hopper which...

Chrysanthemum lace bug
2018-06-25 | Teologi Park

Chrysanthemum lace bug (Corythucha marmorata (Uhler)) Hemiptera, lace bug) Scient...

Ultra low cost farming

JADAM saved me from bankruptcy

JADAM Organic Farming & Gardening
@JADAMorganic

Ultra Low-Cost Organic Farming. Make all-Natural Pesticide!
JADAM. Since 1991

게시물은 작성하세요...

일시: 2018년 8월 28일 오후 8시 30분
참여: [참여]

정보: JADAM ORGANIC FARMING & GARDENING
The ultimate goal of the JADAM is to bring Ultra Low-Cost agricultural technology to farmers.

We must prevent agricultural technology from being subordinated by commercial capital of profit.

Without this, Organic agriculture will become a costly agriculture and lose popularity.