

2003 Southern Region Water Quality Conference

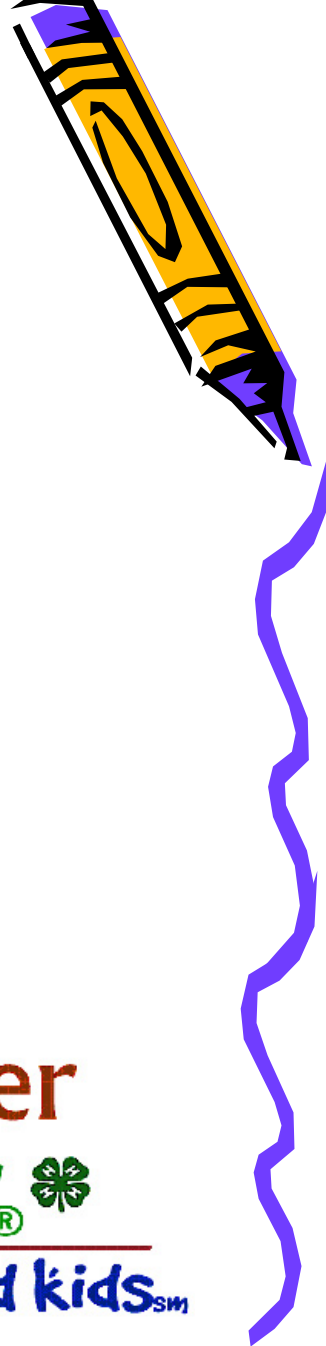
Ruidoso, New Mexico

Lisa Whittlesey

National Junior Master Gardener Coordinator



Our Mission: Growing good kids by igniting a passion for learning, success, and service through a unique gardening education.





May 2001

7614 youth registered
255 registered groups
27 states represented
848 youth certified
17 state partners

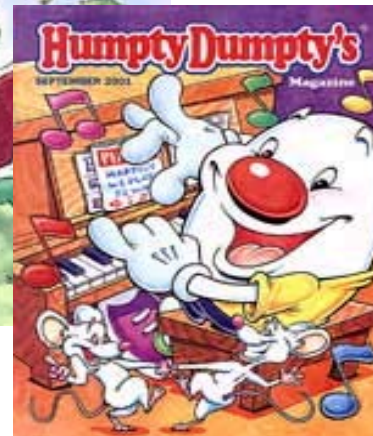


2003 JMG IS...

Over 1000 Registered
JMG groups
Over 39,000 youth formally
registered
Over 980,000 youths impacted
JMG in all 50 States, 10
countries
30 State Partners
1 International University
Partner - South Korea



JMG in the news!



Southern Living

THE SATURDAY
EVENING POST



JMG

Partnerships: Updates!

- National Wildlife Federation
- Nursery/Landscape Associations
- State Departments of Agriculture
- State Master Gardener Programs
- National Gardening Bureau

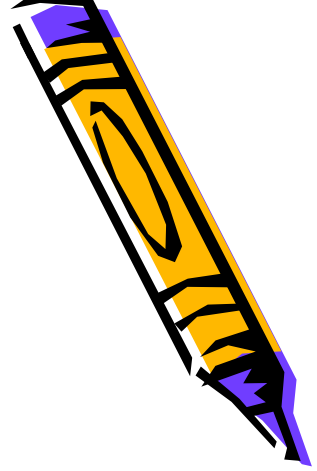


Corporate

Partners

ENJOY
Minute Maid.

- free kids gardening tools
www.jmgkids.org/minutemaids
- Good Kids Garden Grants Program
- C3 Marketing



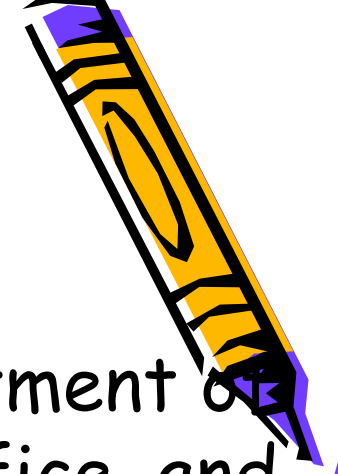
Program Evaluation

National On-line Survey for Leaders

Conducted by Texas A&M University Department of
Agricultural Education, Texas 4-H Office, and
National JMG Program Office

Preliminary Data Shows:

- Over 75% of respondents stated that JMG has increased youth interest in science
- Over 70% of respondents stated JMG has enhanced classroom/educational program and contributed to higher academic standards



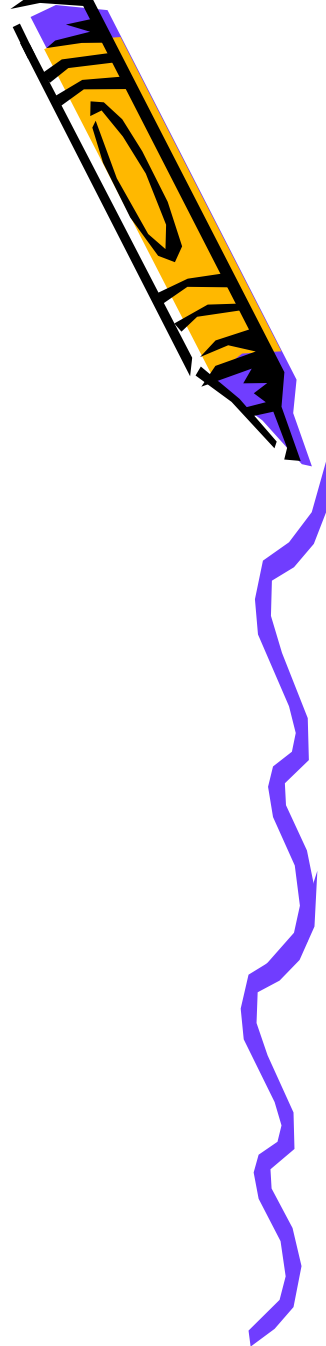
Program Evaluation Continued

- Over 70% of respondents said youth were more enthusiastic about learning
- Over 50% said youth tried new fruits and vegetables
- Over 80% of respondents rated the overall effectiveness of the JMG program as effective or very effective



University Research

- ## Projects
- Texas A&M University
 - Purdue University
 - Louisiana State University
 - Kansas State University
 - University of Minnesota



Igniting a passion for learning



“The response from students, as well as parents was overwhelming... I have enjoyed the program more than anything I have ever taught.

Kary Thigpen - Teacher



Igniting a passion for learning

"It enhances the student and teacher

learning process...serves as a

catalyst for student interest in science."

JMG Group leader response

National JMG Leader Survey





Igniting a passion for service

Leadership and Community Service Projects

Igniting a passion for service

“The children were thrilled to be working on something that will last ... they were excited that they were able to do this for the community.”

Alice Phillips
JMG Coordinator
Midland and Ector Counties



Igniting a passion for service

"The children are learning far more than what the ground can produce... they are learning to be active participants in their community to help their fellow man.

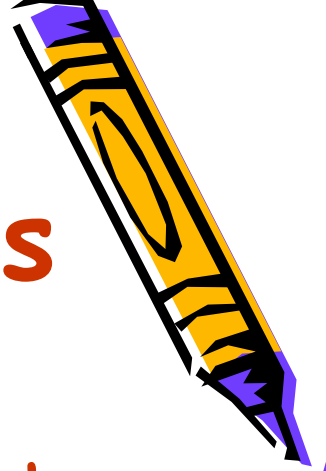
Gonzalo Salazar - Principal
Los Fresnos Consolidated ISD



Igniting a passion for success



For *all* students
The JMG program
currently serves
students in public school,
home school and private
school settings
over *51%* are *ethnic
minorities.*



Hometown Schools

Igniting a passion for success



The Star-Telegram Staff Photo
South Davis student Jermaine Houston, 7, above, smells a bulb of rosemary he picked from the herb plants growing in the school's courtyard garden.

URBAN GARDENS Arlington High ag students bring environmental exercises to South Davis

By SALLY CLAIRMAN
Star-Telegram Staff Writer

They call her The Garden Lady. With the help of F.J. Lockwood, children at South Davis Elementary School are learning about the environment by taking care of their own garden.

"Literally percent of these children live in apartments," Lockwood said. "Their idea of the environment is the strip of grass between the street and the parking lot."

To help children learn about the earth, Lockwood has recruited a guest from the Texas Department of Agriculture and enlisted the help of agricultural science students from Arlington High School as instructors.

Lockwood has turned the courtyard of the school into a garden, with flowers, vegetables and indigenous ground cover. The great apple gardening work, planting carrots and bean plants for the high school teens to teach to the children.

About twice a month, 15 teens come to the elementary school to teach the students. The garden is divided up into grade-specific sections. For instance, the 9th-graders work in the butterfly garden and compare the shapes of the plants with the shapes of a butterfly. The children learn about how the plants provide exactly what the butterfly needs during its metamorphosis.

Guest Felicia, Arlington High School agricultural science student, said her students learn more about the subject by working in a garden.

"They get a better understanding of the material," she said. "The interaction with other kids, and having to deal with group students, it puts them in a leadership role that's been good for them."

Police said her students also have a new-found respect for

their teacher.

"They got a look at the other side of the fence by being a teacher," she said. "They learn how to communicate better."

Each lesson is designed to teach the kids the basics about gardening, such as why leaves fall and which flowers are annuals and which are perennials.

"I don't want them to look out at the garden in the winter and think it's dead," Lockwood said.

The high school teens are currently helping the kids plant a vegetable garden that the elementary school students can harvest in the fall.

Lockwood said growing the vegetables is necessary to help the kids learn.

"Most of these kids don't know where food comes from," she said. "If you ask them where vegetables come from, they'll say 'in stores.'"

In addition to growing things, the kids also learn about composting and recycling. They have an earthworm farm that they have made into an occupation. They dispose of some of the vegetable waste from the cafeteria, along with grass clippings and dead leaves into the farm. In a few weeks, the ag students from the high school are going to put rabbit cages over the farm, and the chickens will find the worms.

The kids also grow herbs and harvest them. Lockwood said that with the help of the high school students, the kids get to taste, smell and use the herbs and learn what they're used for, such as organic in pasta sauce.

While the ag students get a grade on their participation in the project, Lockwood is a volunteer. A former elementary school teacher, Lockwood said she used to have more troubled kids in her classes that the kids' learn how to teach.

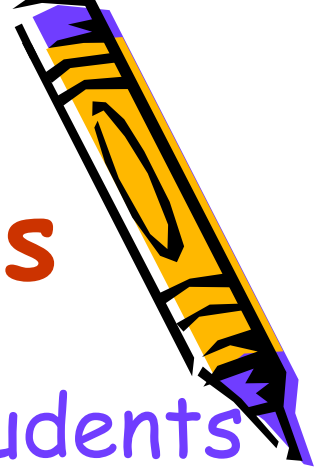
"We made a great garden outside of one of the temporary



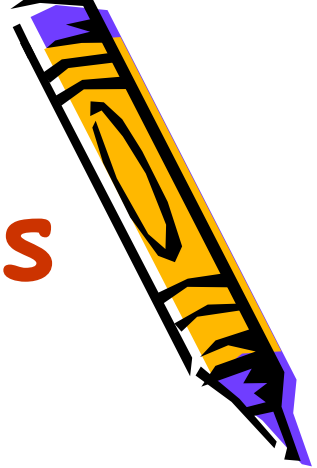
The Star-Telegram Staff Photo
Arlington High School student Kelly Mayhew, 17, shows South Davis Elementary School students a type of basil growing in the school's courtyard garden.

"The high school students gain a better understanding of the concept being taught...they enjoy teaching horticulture and environmental science and have learned a greater respect for the teaching profession."

JMG Group Teacher



Igniting a passion for success



Certification



Emilio Cattera 

has successfully completed all learning activities and required community service/leadership projects for Level One of the Junior Master Gardener Program, and is hereby recognized as a

Certified Junior Master Gardener™

Given this 26th day of May year 2000

 _____
JMG Headquarters Representative

UNIVERSITY OF MISSISSIPPI
Extension SERVICE

_____ JMG Local Representative

JMG and JMG logo are trademarks, and Junior Master Gardener are registered service marks of The State University of Mississippi.



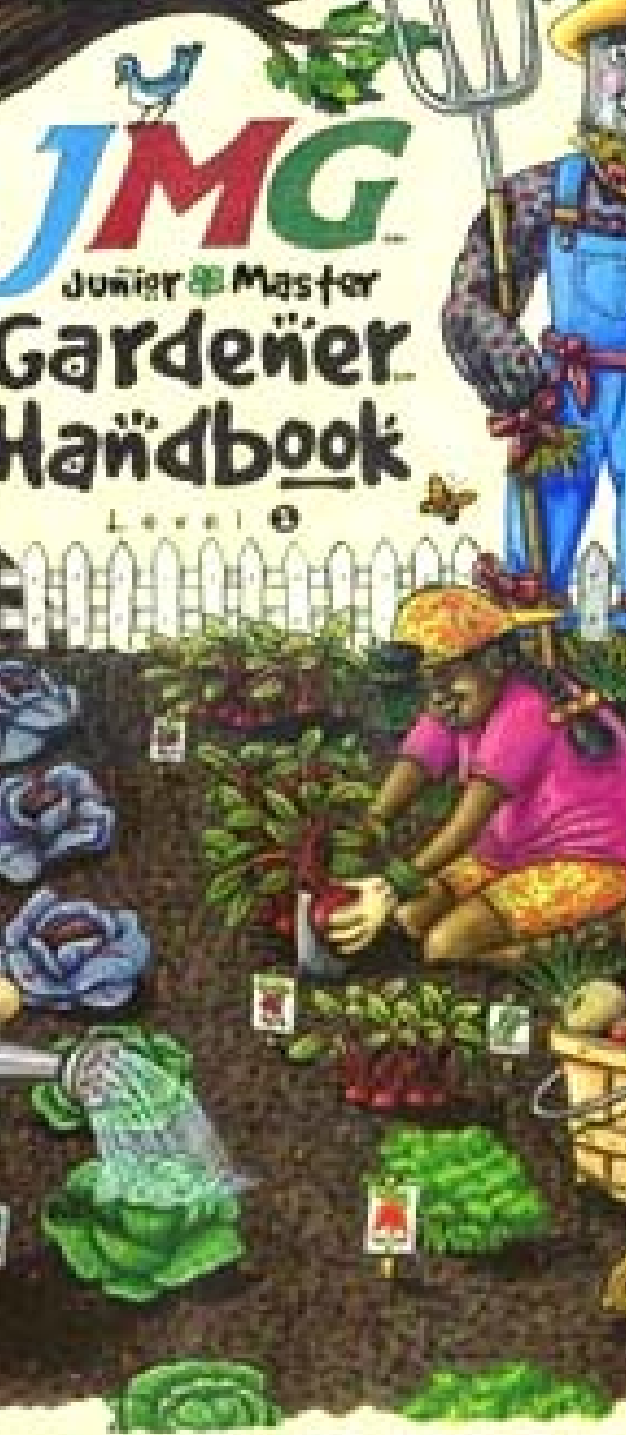
Junior Master Gardener® Level One *Core Curriculum*

**JMG Youth
Handbook**



Teacher/Leaders' Guide





CONTENTS

	Foreword.....	vii
	Chapter 1. Plant Growth and Development..... You'll learn how plants grow and make our world a better place.	2
	Chapter 2. Soils and Water..... You'll get your hands dirty and learn how soil and water are important to plants and all living things.	28
	Chapter 3. Ecology and Environmental Horticulture..... You'll get the big picture of how people, plants and animals all depend upon each other and how you can help to take care of our environment.	42
	Chapter 4. Insects and Diseases..... You'll find out what's bugging you and your plants by exploring the world of insects and plant diseases.	64
	Chapter 5. Landscape Horticulture..... You'll learn how to create and take care of beautiful gardens, and how to attract birds, insects and other creatures to your backyard or neighborhood.	98
	Chapter 6. Fruits and Nuts..... You'll learn about many different kinds of fruits and nuts, and make fruit smoothies, raisins, and even peanut butter!	124
	Chapter 7. Vegetables and Herbs..... You'll learn to grow many different kinds of vegetables and herbs and how to cook them in some yummy dishes.	138
	Chapter 8. Life Skills and Career Exploration..... You'll learn more about you, your friends and your school, and discover how to make plans for your future.	158
	Rhythms.....	176
	Appendix.....	183

What about teaching standards?



Play with Your Food, J. Elffers, 1997

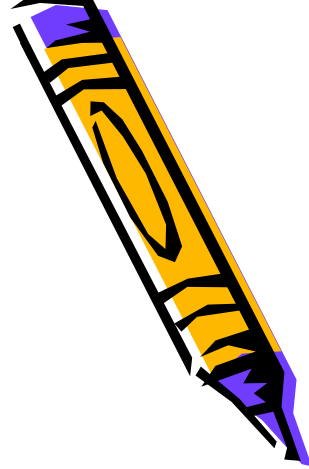
JMG Golden Ray

Curricula

- Health & Nutrition from the Garden
- Wildlife Gardeners
- Literature in the Garden



Operation Thistle: Seeds of Despair
Operation WATER: Dr. Thistle Goes
Underground



Mission 1: The Cliff Caves of Red River Canyon

AGENT 9 ::

Two Hover Pods were discovered near a cave entrance in the cliffs of the Red River Canyon. We have reason to suspect that several of Thistle's Cocklebur Scouts are gathering deadly Sicklescurge plants that grow at the base of the cave walls. They are hanging the plants upside down near the entrance to preserve the poisonous blooms.

We have no idea what the connection is between these plants and our beloved Queen Flora, but our instincts tell us they are not a token of Thistle's undying affection. We've provided you with a customized Milkweed Mach 4 Transport which should enable you to achieve a top speed of Mach 4 while maintaining absolute silence. You will use this to travel back and forth between the mission locations and JPI Headquarters. As always, we will provide you with objectives designed to give you the knowledge and skills required to complete your mission while also maintaining your cover. Now get going! There isn't much time! You must complete one of the objectives on the following page for the mission to be a success ▶▶

Mission 1: The Cliff Caves of Red River Canyon

Importance & Uses of Plants

Objective Accomplished

Objective 1

After locating the Cockleburs, use the plastic you'll make from the exercise below. (While it is still warm, use it to attach a homing seed to the underside of one of their hover pods.

This seed is our only hope of precisely locating Thistle's secret lab. Make sure it is transmitting. When the seed reveals the whereabouts of the lab, you can sneak in and rescue the queen!



Plant-plastic

You may not be aware of the many ways you can use plants or products made from plants everyday. Agent 9, did you know that plants are even used to make some plastics? You can make your own homemade plastic from corn!

You will need:

- 2 tablespoons of corn starch
- 2 tablespoons of water
- 2 drops of corn oil (or any type of vegetable oil)
- Sealable plastic bag

Drop ingredients into sealable plastic bag and mix together. Microwave on high for 20 seconds. Allow the mixture to cool and remove from bag. (Be careful of the steam Agent 9!) Ask a friend or family member if they have ever heard of plant-plastic. Show them the plastic and explain how it was made.

Objective 2

Cockleburs have very poor eyesight so carefully replace the groups of hanging Sicklescurge with handfuls of colorful cave weeds. Among your equipment, Agent 9, you'll find a green homing stem that transmits a signal we can locate by satellite. Just insert the stem into the bundle of cave weeds. The Cockleburs will return to Dr. Thistle's hideout with the worthless weeds and with any luck the homing stem will reveal the location of the lab and you can sneak in and rescue the queen!

Hanging Stems

Plants are valuable to our lives in so many ways. Plants provide food for all living things. They are used to make clothes we wear, they provide the materials to build the homes we live in, and plants even supply the air we need to breathe. There could be no life on earth without plants. Besides providing for just our basic needs, plants also have aesthetic (as-thet-ick) value which means they add beauty to our lives. Even the simple beauty of a blooming flower has been appreciated throughout time. You can preserve a flower's bloom for many years if you follow some simple steps.

The oldest and simplest method of drying flowers, Agent 9, is to hang dry them. Group your flowers into small bundles of 3 to 5 stems and tie with a rubber band. Tie the bundles to a coat hanger so that the blooms are upside down and allow them to dry for a few days. Dried flowers can be hung on a wall, used to fill a basket or even used to top a gift package.



Want more, Agent 9?
Complete a third mission objective at www.operatorthistle.net

How to start a JMG group?

- Contact Youth
- Establish Site for youth to meet
- Order JMG Material
- Complete Registration Packet

Cost involved in starting JMG programs ?

- **Curriculum costs**

quantity discount

not every member needs a youth handbook to be in a registered JMG group

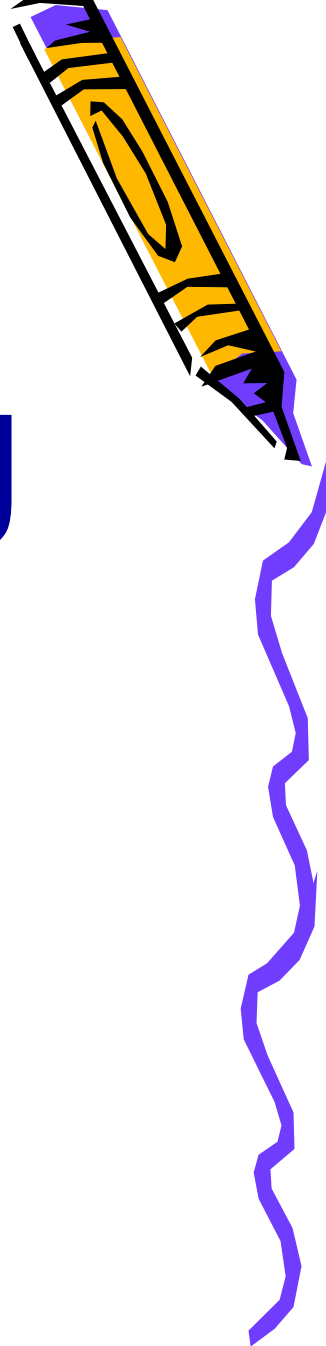
- **Cost of activity supplies**

- **Cost of garden supplies**



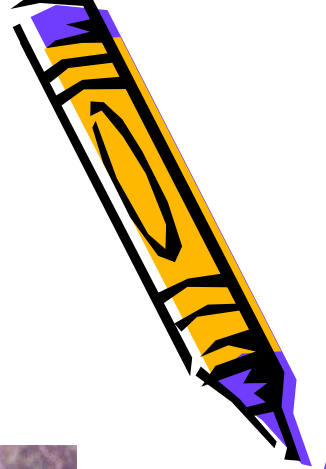
For more information:

[www.jmg
kids.org](http://www.jmgkids.org)



I hope this program stays for a long time and teaches kids like me because it gives us the chance to help a lot of people and learn how important plants are for us to live.

Andres Garcia
Foster Drive JMG Kids



2003 Southern Region Water Quality Conference

Ruidoso, New Mexico

Lisa Whittlesey

National Junior Master Gardener Coordinator

