Western Society of Weed Science Research Progress Report 2012

Reno, Nevada, USA 12-15 March 2012

ISBN: 978-1-61839-762-1

ISSN: 0090-8142

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2012) by the Western Society of Weed Science All rights reserved.

Printed by Curran Associates, Inc. (2012)

For permission requests, please contact the Western Society of Weed Science at the address below.

Western Society of Weed Science 205 W. Boutz Building 4, Suite 5 Las Cruces, New Mexico 88005

Phone: 575-527-1888 Fax: 575-527-8853

wsws@marathonag.com

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

TABLE OF CONTENTS

Project 1: WEEDS OF RANGE AND FOREST	<u>Page</u>
Spotted knapweed control with aminocyclopyrachlor combinations	5
Evaluation of aminocyclopyrachlor for Russian olive control	6
Long-term leafy spurge control with aminocyclopyrachlor	8
Imazapic applied with saflufenacil for leafy spurge control	10
Yellow starthistle control with aminocyclopyrachlor combinations	
Canada thistle control with aminocyclopyrachlor combinations	
Yellow toadflax control with combinations of aminocyclopyrachlor and sulfonylureas at two application timings	
Response of native grassland forbs and shrubs to various rates of aminocyclopyrachlor	
Tolerance of perennial pasture grasses to aminocyclopyrachlor at two growth stages	
Project 2: WEEDS OF HORTICULTURAL CROPS	
Weed control with penoxsulam/oxyfluorfen for season long weed control in almonds	20
Almond residual herbicide comparison 2010-11	22
Walnut and almond residual herbicide comparison	24
Annual bluegrass control and perennial ryegrass elimination in overseeded bermudagrass with	
amicarbazone and flucarbazone	
Evaluating chemical and biological control options for management of field bindweed	29
Weed control in potatoes with fomesafen or pyroxasulfone alone or in various tank mixtures, or	
rimsulfuron combinations applied preemergence	
Linuron or pyroxasulfone tank mixtures for preemergence weed control in potato	
Tolerance of seed radish to clopyralid	
Effects of drift control nozzles and carrier volumes on hairy fleabane control with glufosinate.	
Postemergence control potions of hairy fleabane and redroot pigweed in orchards	
Liverwort control in container plantings	
Project 3: WEEDS OF AGRONOMIC CROPS	
Winter annual broadleaf and grass weed control in alfalfa	30
Comparing herbicide combinations for wild oat and broadleaf weed control in spring barley	
Comparing wood control in Roundup Roady sugar best to conventional sugar best.	
Comparing weed control in Roundup Ready sugar beet to conventional sugar beet	
Evaluation of registered and non-registered herbicides for weed control in chicory	.49
Comparison of adjuvants in combination with glyphosate, diflufenzopyr and dicamba in field	50
corn	
Comparison of preemergence herbicides in field corn	
Broadleaf weed control in grain sorghum with postemergence herbicides	
Broadleaf weed control in field corn with preemergence herbicides	
Broadleaf weed control in field corn with preemergence followed by sequential postemergence herbicides	
Tolerance and grass weed control in timothy	

Downy brome control in winter wheat	63
Broadleaf weed control in winter wheat	65
Italian ryegrass and catchweed bedstraw control in winter wheat with mesosulfuron combined	
with broadleaf herbicides	68
Rattail fescue control in winter wheat	.70
Italian ryegrass control in winter wheat	.73
Winter barley tolerance to flufenacet	
Comparison of fungicides tank mixed with bromoxynil, MCPA and fenoxaprop for crop safety	y
in malt barley	
Pea, lentil, chickpea tolerance to pyroxsulam	
Winter wheat, yellow mustard, and spring lentil response to iodosulfuron/mesosulfuron	.83
Spring lentil response to fall applied pyroxsulam and florasulam in simulated winter-kill winter	er
wheat	
Winter and spring wheat response to pyroxsulam, fluroxypyr/florasulam, and other herbicides	.86
Project 4: TEACHING AND TECHNOLOGY TRANSFER	00
Newly reported exotic species in Idaho for 2011	.88
Project 6: BASIC SCIENCE	
Difference in weed seedling emergence is not involved in pea synergism to corn	.90
An organic rotation to disrupt weed population dynamics	
AUTHOR INDEX	.94
KEYWORD INDEX	.95