



**MONARCH**  
JOINT VENTURE

# Baldwin/White Cloud Ranger District Huron-Manistee National Forests

## 2013 Accomplishments

The first Monarch Waystation was established on the Baldwin/White Cloud Ranger District in 2003, just west of Baldwin, MI. Since then, five additional pollinator gardens were created on the District with an emphasis on milkweed plants and monarch habitat. The most recent addition was seeded in the fall of 2013 at the M37 Trailhead for the Little O Motorsport Trail and will continue to be developed through 2014 with respect to native nectar species density and diversity.

Additional butterflyweed plant plugs were planted in 2013 in an endangered Karner Blue Butterfly (KBB) restoration area. These plantings supplemented nectar plants which had previously been planted from 2010 through 2012 in 340 fenced 4" x 8" nectar habitat beds strategically located throughout 60 acres of occupied KBB habitat in Oceana and Muskegon Counties.



Figure 2. Pollinator Garden at M20 Motorsport Trailhead.



Figure 1. Fenced nectar plug plots for butterfly habitat increase and Butterflyweed and pollinators (bee and Karner Blue Butterfly).

Year Project Initiated: 2003 w/ Lake Co. Road Commission (LCRC); FY2006+ USFS native plant funding

Project completion: On-going for maintenance, seed collection, supplemental planting for diversity.

Report number: 8

Expenditures (through 10/2010):2006+-\$67,290; LCRC: 2003 \$6,420-seed cost ;FY10 funding:\$13,100 FY11 funding: GLRI \$30,000; NFN3 \$11,000; FY13 funding: NFWF \$1800; NFWF \$200; GLRI \$4100; Partnership \$400.

Partners/Contractors/Coop:).Lake Co. Road Commission, Garden Clubs of Michigan

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