HOME-MADE AUTOMATIC MICROFEEDER

University of Wisconsin Stevens Point
Northern Aquaculture Demonstration Facility
MATERIALS PRICE LIST

- $59.99 - Intermatic 24 Hour Mechanical Time Switch
- $4.89 - Cord
- $2.18 per feeder - Plexi-glass ($34.99/16 per sheet)
- $1.00 - Wood
- $5.99 - Plastic Welder Epoxy
- $0.75 - 1 ½” Schedule 40 PVC cap
- $0.70 - 1” Schedule 40 PVC cap
- $0.50 - Plastic Bolt
- $0.78 per feeder - Door Sweep ($5.49/7 per one 36” long piece)
- $1.00 - Steel unistrut
- $3.00 - Additional hardware (steel bracket, nuts, bolts, paint)
- Total = about $81.00
Finished Product
Step 1:
A. Unscrew the arrow! that says “do not unscrew” and break off the needle.
B. Drill a hole through the center of the 1” PVC cap. Use epoxy to glue the cap to the yellow dial and thread the screw back in the hole using the “do not unscrew” as a washer as shown.
STEP 2

A. Predrill and thread 1½” PVC cap with knob and epoxy in.

B. Predrill set screw on the side of the 1½” PVC pipe to attach to PVC 1” base. The Plexiglass will rest on the 1½” PVC cap when finished.
STEP 3
REMOVE TIMER COVER.
DRILL OPENING ON COVER AT SPECIFIC POINT FOR PVC 1 1/2” CAP TO FIT THROUGH COVER

DRILL COVER
1 3/4” Diameter
PVC CAP FITS THROUGH COVER AS SHOWN
STEP 4
A. CUT PLEXIGLASS TO 7 ½” IN DIAMETER.
B. DRILL HOLE IN CENTER OF PLEXIGLASS JUST LARGE ENOUGH FOR THE SCREW. THE KNOB CAN THEN HOLD THE PLEXIGLASS ONTO PVC COVER.
Step 5: Cut out plywood
Dimensions of Plywood Cutout
STEP 6
MOUNT FEEDER ON PLYWOOD WITH UNISTRUT ATTACHED
STEP 7
ADD PLEXIGLAS AND
DOOR SWEEP.
ADJUST AS NECESSARY
FOR THE SWEEP TO
PROVIDE LIGHT
PRESSURE ON
PLEXIGLAS
STEP 8

ATTACH GROUNDED ELECTRICAL CORD AND RUN OUT THROUGH THE TIMER HOUSING TO PLUG IN
STEP 9
CHECK TO MAKE SURE
DEVICE IS WORKING
PROPERLY.

PLACE FEED AROUND THE
OUTER RIM OF THE
FEEDER. OBSERVE TO
MAKE SURE PLEXIGLASS IS
SPINNING AND DROPPING
FEED FOR CONTINUOUS 24
HR PERIOD

Tip: Use 2” wide paint brush to
help distribute feed on outer
rim of Plexiglas
STEP 10

ONCE FEEDER IS OBSERVED TO BE WORKING CORRECTLY, THE TOP OF THE TIMER COVER CAN BE EPOXIED TO THE TIMER BOX

THIS STEP IS OPTIONAL BUT HELPS TO KEEP WATER AND HUMIDITY OUT OF TIMER.
ANY QUESTIONS, COMMENTS OR ISSUES?

Contact Emma Wiermaa, Outreach Specialist at ewiermaa@uwsp.edu

Or Call us at: 715-779-3461