

# Nursery Hyper-Performance

Zeigler Nursery-Maternity Program



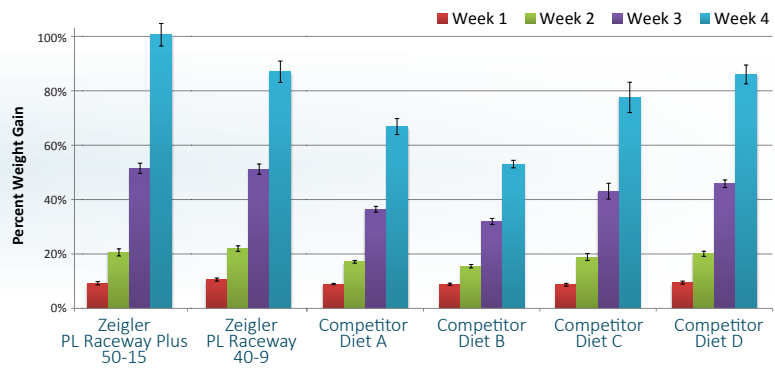
Automated feeding program for hatcheries and nurseries! Please contact us for details.

Proper design and management of nursery systems for shrimp culture has been shown to greatly increase profitability while reducing risk at the farm. Feeds and feeding methods drive these systems and are fundamental to juvenile performance and water quality. After extensive research, Zeigler has developed a feeding program custom designed to support both hyper-intensive and more traditional nursery systems.

## Features & Benefits

- High quality and digestible protein sources to promote growth and limit ammonia
- Customized feeding program to accommodate different biomass conditions.
- Feeding recommendations based on animal weight, not stage.
- Concentrated nutrient profile enables reduced feeding needed to maintain water quality.
- Precision feeding utilizing particle size ranges to support natural variation in animal sizes.
- *Vpak* added to support animal health and disease resistance.

**Trial: Zeigler's PL Raceway vs Competitor's Feeds**



## Zeigler Nursery Feeding Program

Prod. Stage	Animal Weight	Option 1: Hyper-Intensive Recommended for high biomass conditions			Option 2: Traditional Recommended for low-to-medium biomass conditions		
		Product	Protein/Fat	Particle Size	Product	Protein/Fat	Particle Size
1	2-10 mg	EZ Artemia	52-17*	0.3-0.5 mm	EZ Artemia	52-17*	0.3-0.5 mm
1	2-10 mg	PL Raceway Plus w/ Vpak	50-15	0.4-0.6 mm	PL Raceway 40-9 w/ Vpak	40-9	0.4-0.6 mm
2	10-100 mg	PL Raceway Plus w/ Vpak	50-15	0.6-0.85 mm	PL Raceway 40-9 w/ Vpak	40-9	0.6-0.85 mm
3	100-400 mg	PL Raceway Plus w/ Vpak	50-15	0.85-1.2 mm	PL Raceway 40-9 w/ Vpak	40-9	0.85-1.2 mm
4	400 - 1.5 g	PL Raceway 40-9 w/ Vpak	40-9	1.5 mm	PL Raceway 40-9 w/ Vpak	40-9	1.5 mm
5	1.5-3.0 g	PL Raceway 40-9 w/ Vpak	40-9	2.0 mm	PL Raceway 40-9 w/ Vpak	40-9	2.0 mm

\*Dry Weight

## Feeding Tips

- Nursery/Maternity systems require special feeds and feeding methods.
- Feeding programs must be designed around individual system specifications and targeted growth profiles.
- Observe the animals frequently and carefully. Learn what is normal.
- When first stocking the animals, have feed in the system.
- Overfeeding should be carefully avoided.
- Continuous feeding is best. Feeds should be well distributed in the system.
- Change feed type and size gradually over a 3 day period.
- Feed size is determined by animal size, not PL stage.
- Water temperatures affect feed utilization. Feeding rates should be reduced by 5 to 10% per degree centigrade.
- Use controlled scientifically based strategies for carbon addition that control ammonia, nitrite problems while preventing sludge buildup in the system.

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