

Handbook  
For a  
**Healthier**  
Bird™



HARRISON'S BIRD FOODS®

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## HOW TO PURCHASE HARRISON'S BIRD FOODS AND AVI!X AVIAN CARE PRODUCTS

There are multiple options for purchasing Harrison's Bird Foods premium products.

**VETERINARY CLINICS:**

Harrison's Bird Foods and AVI!X products are sold in veterinary clinics all over the world. HBD encourages bird owners to establish a relationship with a veterinarian, particularly prior to a diet change, and to maintain that relationship for the life of your bird. A veterinary clinic is the most direct way of accessing your bird's food.

**DROP-SHIPMENT PROGRAM:**

We offer a drop-shipment program for veterinarians who encounter shelf space issues or who have clients who may not find it convenient to make regular office visits. The program works as follows: The client places an order through the veterinary clinic, the clinic contacts HBD and HBD ships the order directly to the client. The clinic is billed privately by HBD. If your veterinarian is not aware of this service, have them contact us for details.

**DISTRIBUTION CENTER:**

For those who live areas where there are no veterinary clinics that sell Harrison's or for people who cannot conveniently purchase from veterinary clinics, Harrison's Bird Foods and AVI!X products may be purchased directly from the warehouse. Shipping charges will apply. To place an order, please call 1-800-346-0269 or 1-615-221-9919 from 9:00 am to 5:00 pm (eastern time zone).

**24 HOUR ONLINE SALES: [www.harrisonsbirdfoods.com](http://www.harrisonsbirdfoods.com)**

If online ordering is most convenient for you, please take advantage of our website. Just go to [www.harrisonsbirdfoods.com](http://www.harrisonsbirdfoods.com) and click on the link "ORDER HERE" located in the navigation menu. Our online store provides safe and secure shopping for those who prefer buying on the web. Occasional online discounts are offered. The Harrison's Bird Foods website also includes an impressive amount of useful information about our foods and pet birds in general.

**INTERNATIONAL DISTRIBUTION:**

Our products are sold in many countries throughout the world. Please contact us or visit [www.harrisonsbirdfoods.com](http://www.harrisonsbirdfoods.com) for a list of international distributors.



HBD INTERNATIONAL

*Presents*

## **HANDBOOK FOR A HEALTHIER BIRD™**

Everyone wants to have a companion bird that is healthy, content and a valuable member of the family. The best thing you can do to keep your bird happy is to feed it right. By reading this booklet, you are taking the first step to ensure the health of your bird through proper nutrition.

We understand that today there is a lot of information available to the pet bird owner. Sometimes information from various sources (e.g., the Internet, pet shops, other bird owners) can be inaccurate and conflicting. At the very least it can be confusing, which makes it difficult to make the right decisions when it comes to your bird's health.

With this guide you can be assured that the information is factual and based on the experiences of avian veterinarians and their honest results of using our products.

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## OUR STORY

After growing up in a small farming community in Iowa, Dr. Harrison attended Iowa State University, where he received his Doctor of Veterinary Medicine degree in 1967. In 1969 he started his own small animal practice in Lake Worth, Florida, which evolved into an all-bird clinic in 1976. At a time when parrot importation was still very popular, he had 200 pairs of birds, and he pioneered the early use of the endoscope to sex aviculture birds.

In cooperation with his wife, Linda Harrison, a writer and editor, he began publishing articles and books in the field of avian medicine. This led to speaking invitations from around the world. Along the way, Dr. Harrison earned Diplomate status in the American Board of Veterinary Practitioners (ABVP) and the European College of Avian Medicine and Surgery (ECAMS).

The early attempts by various manufacturers at making pelleted parrot diets resulted in low acceptance by the birds and many nutrition-related health problems. Dr. Harrison knew there had to be a better solution.

Based on formulas developed by well known aviculturist, John Stoodley of England, Dr. Harrison developed his first product, Harrison's Bird Bread. This product was baked and fortified and required refrigeration.

The decision to incorporate all organic ingredients was made after visiting John Stoodley's breeding facility in 1985.

It was around this time that his daughter, Tanya, joined the team. While Dr. Harrison was hand-grinding the grains and making sure the product was baked fresh daily, Tanya took orders and handled distribution.

In 1988, a few attendees of the North American Veterinary Conference tried what was then called "Bird Bread", and the demand for the product grew beyond the means of a back room production facility. The following year, HBD International was formed, with Dr. Harrison as president and Tanya as vice president. The bird breads were transformed to all-organic extruded nuggets, with a resulting product similar to the Harrison's Bird Foods being offered today.

With a commitment to improve avian health by distributing the products through veterinarians, Harrison's Bird Foods has been growing ever since. While the company initially operated out of Nebraska and Florida, it has found a home just outside Nashville, Tennessee. It is at this location where the new HBD distribution facility is meeting the demands of an ever-increasing market while ensuring that orders are processed quickly and accurately to destinations all around the world.

### Into the future:

HBD's commitment to avian health continues into the future with research funding, support of veterinary students and schools in education in the field of avian and exotic medicine and support for betterment of the environment.



Left: Dr. Harrison is pictured with Dr. Irene Pepperburg and Alex, the world's most famous African grey. At the time of this photo Alex was a seed-eater and sick with aspergillosis. He was treated, put on Harrison's and recovered from his illnesses to live a long life with many profound accomplishments.

Sadly, Alex passed away in 2007. If you would like to remember Alex by making a charitable donation please visit [www.alexfoundation.org](http://www.alexfoundation.org).



## SO MANY CHOICES

### SEEDS

A diet of seeds (even if they are vitamin fortified) simply does not meet the bird's basic nutritional requirements. Commonly fed cereal grains like sunflower, millet, oats, safflower, and corn are deficient in at least 32 essential nutrients. As early as 1923, scientists observed health deficiencies in caged parrots that were fed seed diets, yet these diets continue to be fed to this day. Birds that eat seeds often seem to be "addicted" and are sometimes difficult to convert to a healthier diet.

### VEGETABLES AND FRUITS

While many well-meaning people will say that feeding fruits and vegetables (fed exclusively or supplemented with seeds) is the answer, the truth is that these diets do not work either. Fruits and vegetables contribute little or nothing to the 32 missing essential components of a seed diet. Most produce available in markets today does not contain high quality nutrients due to the deficiency of nutrients in the soil in which they are grown and the rate at which they are expected to ripen and mature.

### TABLE FOOD

Diets that regularly include "people food" or leftovers are not just simply lacking in nutrition, they can be downright bad for birds. Birds should not be fed things like meat, chicken bones, potato chips, pizza, pasta or beans, which often have excessive fat, salt, caffeine, MSG, refined sugar or refined flour. Behavioral problems often arise from routine offering of these diets as well.



*Seed diets: Deficient in nutrients and often contaminated by pesticides and preservatives*

### DIETS OF WILD PARROTS

It is impossible to duplicate the diet a parrot would eat in the wild and presumptuous of us to think we know all that they eat in any one day or from season to season.


### COLORED PELLETS

Fun shapes and fancy colored pellets are part of an effective selling strategy used by some pet food companies to appeal to the pet owner, but it has been proven that these features don't mean much to the birds themselves. Because birds eat what is familiar to them, birds trained to eat colored kibbles and flavored pieces are at a disadvantage since most of these diets are merely made up of milled white flours and other useless cereal by-products.

### ENTERTAINED BY FOOD?

In an article published by the Wall Street Journal, Randall Brue, Kaytee's Nutritional Biochemist and Head of Research, state that, "Birds don't care much about color, flavor or the shape of their food ... but their owners care"

# FOOD COMPARISON CHART

FOOD	ADVANTAGES	DISADVANTAGES
<b>Dry seed mixtures</b>	<p>Low price</p> <p>Available everywhere</p> <p>Breeding stimulation</p>	<p>The bird selectively eats only certain types of seeds</p> <p>Seeds are often of low quality (dirty, old, contaminated with fungus and mycotoxins)</p> <p>Selectively eaten seeds often have excessive fat content and lack high quality protein</p> <p>Deficient in high quality minerals, trace elements, vitamins and primary amino acids.</p> <p>May stimulate aggression, picking and chronic egg laying</p>
<b>Table food</b>	<p>Often good acceptance</p> <p>Establishes strong social contact between the bird and the owner as well as occupies the bird</p> <p>Good quality (human food quality)</p> <p>Breeding stimulation</p>	<p>Unbalanced diet, often too high in fat</p> <p>Deficient in minerals and trace elements</p> <p>May stimulate aggression, picking and chronic egg laying</p>
<b>Cooking food for parrots</b>	<p>Often good acceptance</p> <p>Low price</p> <p>Breeding stimulation</p>	<p>Highly perishable (spoils easily)</p> <p>Relatively time-consuming preparation (soaking and cooking)</p> <p>Deficient in minerals, trace elements, vitamins</p>
<b>Sprouting food</b>	<p>Often good acceptance</p> <p>Low price</p> <p>Due to the germinating process the fat content is lower than in cooked food, and the vitamin content is slightly higher</p>	<p>Highly perishable (bacteria, molds, mycotoxins)</p> <p>Relatively time-consuming preparation</p> <p>Deficient in minerals, trace elements, vitamins</p> <p>After preparation, the amount of bacteria and yeast is relatively high; therefore, there are high risks for the health of the bird</p>
<b>Fruits, vegetables, and berries</b>	<p>Recommended as supplement to seed mixtures, cooked food, maintenance food and formulated diets for pigments and antioxidants</p>	<p>Not a balanced and wholesome food for parrots and parakeets, as they consist mainly of water and cellulose; low content of vitamins, minerals and trace elements</p> <p>Highly perishable</p> <p>Often highly contaminated with pesticides and herbicides</p>
<b>Pelleted daily maintenance food</b>	<p>Less expensive</p> <p>Easy feeding</p> <p>Can be eaten entirely by the bird</p> <p>Little waste, as there are no seed hulls</p>	<p>Low acceptance due to binders and preservatives</p> <p>Some formulas contain preservatives, antioxidants, artificial flavors and colors which can affect the health negatively if fed over many years</p>
<p><b>HARRISON'S BIRD FOODS - Extruded daily maintenance food</b></p> 	<p>Certified organic</p> <p>Balanced ratio between fat content, carbohydrates, protein, vitamins, minerals, trace elements</p> <p>Easy feeding, can be eaten entirely by the bird and there is little waste, as there are no seed hulls</p> <p>After conversion good acceptance</p> <p>Specific feeding according to breeding and non-breeding period</p> <p>Relatively low cost considering production process and addition of vitamins, minerals and trace elements</p>	<p>May be some initial reluctance to try new diet, but palatability is high following conversion</p>

Adapted from "Extruded bird foods diet vs. seed mixtures" by F. Janeczek, [www.avifoods.com](http://www.avifoods.com)

## **YOUR BIRD'S APPEARANCE SAYS A LOT**

Healthy, properly fed birds will exhibit certain features. If your bird does not show the following features, you should contact your avian veterinarian for an examination.

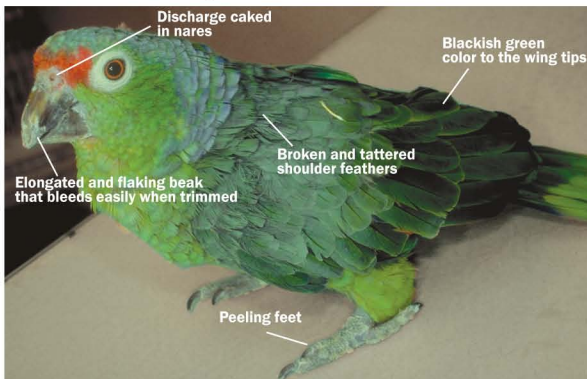
- The bird has a proper ratio of muscle, bone and fat.
- The beak is smooth and shiny without signs of peeling.
- The nares (nostrils) are clean and free of accumulations.
- The bird stands erect and alert on the perch.
- The respiration is smooth and even with no sounds of wheezing.
- The droppings are moist, the urine is clear and the urates are white (see page 11).
- The feathers fit together like a garment – no bald spots, no picked feathers, and no tattered, broken or abnormally colored feathers.
- The feet grip the perch strongly and evenly. The bottoms of the feet show a definite pattern - they are not smooth; nor do they show pressure points.
- The nails are the proper length, smooth and shiny.
- The skin on the legs and face is glistening, smooth, and soft with no signs of flaking.
- There is no sign of swelling or bleeding on the body.
- The bird is calm and does not bite, scream, or behave in an aggressive manner.

### ***Does your bird look like this?***



*Healthy birds respond to a healthy diet. The ideal pet bird is beautiful and brightly colored with sleek-looking feathers. Healthy birds like to sing, play, talk and be active.*

### ***Or does your bird look like this?***



## **IMPROPER NUTRITION**

*Improper nutrition is the cause of 90% of health problems and the leading cause of death in pet birds.*

It involves all of the systems of the body and is seen as: abnormalities in body weight and shape; unusual appearances of feathers, nails, beaks and skin; undesirable behavior; and disturbances in all the body's systems. Nutritional deficiencies appear to accelerate the aging process of birds, primarily through the loss of moisture and tissue elasticity.

Often, the signs of improper nutrition in pet birds go completely overlooked by the owner.

The value of a proper diet over the life of the bird is monumental. Birds fed a poor diet will become malnourished, which will start a chain of events leading to a decline in the bird's overall health. The digestive system suffers first. The bacterial population of the digestive tract becomes unbalanced.

Improper nutrition in the early stages often shows no signs at all. But if it is allowed to continue, you will start seeing the following:

**Skin:** dryness, flaking, long nails and overgrown beaks

**Respiratory system:** sinusitis, sneezing, lumps in the nose, air sacculitis, aspergillosis

**Digestive system:** enteritis, hepatitis (shows up as dark green-colored droppings), pancreatitis (diarrhea or not eating, no droppings)

**Reproductive system:** egg binding, infertility, weak chicks, chronic egg laying.

**Behavioral abnormalities:** feather picking, screaming, biting, aggression.

Once this has occurred, opportunistic pathogens find it easier to invade, and gram-negative rods and yeast counts increase. This opens the door for bacterial infections and other ailments related to the immune system.

Over time every part of the body will reflect the condition of the bird's health. If the bird reaches the latter stages of malnutrition, damage to internal organs may be so severe that it is too late to save the bird. All of this can easily be avoided if you choose to commit to the health of your bird by feeding a high quality, nutritional diet and maintaining an ongoing relationship with an avian veterinarian.

Any change in your bird's eating habits, behavior or personality could be due to illness; it is important to discuss these changes with your veterinarian. Your bird's health may depend on it.



## **A PICTURE IS WORTH A THOUSAND WORDS**

Case images of birds exhibiting the physical symptoms of improper nutrition and corresponding images of the same birds showing marked progress on a strict diet of Harrison's Bird Foods.



African Grey - Before



Recovering on Harrison's



Yellow Naped Amazon - Before



Recovering on Harrison's



Hyacinth Macaw - Before



Recovering on Harrison's



## WHY CERTIFIED ORGANIC?

The term "certified organic" cannot be used casually. In this country, there are strict guidelines set up by the United States Department of Agriculture (as well as private certifying agencies) in order to authorize a facility to use the term "certified organic." And being part of the organic culture demands a significant commitment to the entire system.

In today's market people use the terms "all natural," "organic" and "certified organic" interchangeably, when there really is a significant difference. Only "certified organic" has been approved by a 3rd party agency after a thorough study of the entire process of growing the ingredients and manufacturing the final product to ensure that all steps have been performed within the strict guidelines.



### **In order to qualify as "certified organic," all products must adhere to the following standards:**

- Crops must be grown without the use of artificial fertilizers or pesticides.
- There is generally a required conversion period to organic methods, being two years (for ground crops) or three years (for perennials).
- In order to break the cycles of pests and diseases, appropriate crop rotation is practiced for ground crops, which also helps to maintain soil fertility and structure.
- No post-harvest chemical treatments are allowed.
- Fertility is provided by natural organic manures, composts and fertilizers -- the use of synthetic chemicals is prohibited.
- The use of genetically modified (GM) seeds or other materials is not permitted.

### **During the production phase, all organic producers must:**

- Be certified by a recognized certification body and undergo a rigorous annual inspection by qualified inspectors.
- Adhere to very strict standards that cover every aspect of food production, such as growing, packaging, processing and transport.
- Maintain fully audited records of every stage of production to ensure complete traceability from farm to table.
- Provide official certification numbers or logos of each certification body on the packaging, as this is the consumer's guarantee of authenticity.

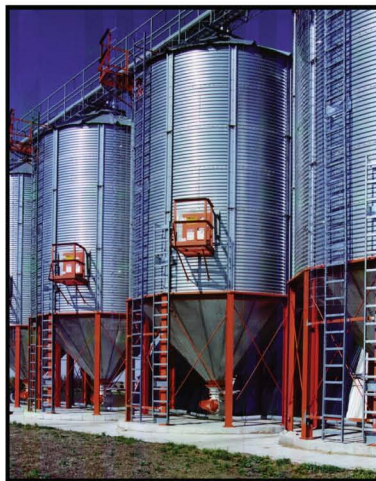
### **If foods are to be processed, the manufacturers must also be:**

- Certified by an organic certification body.
- Keep all ingredients used in organic products separate from ingredients for use in conventional products at all times.
- Maintain detailed routine records, including cleaning and processing schedules, which must be made available for audit by certification inspectors at all times.
- Any business that packs, processes or re-labels organic products out of the sight of the customers must also be certified.
- The stringent controls associated with the production and processing of organic products ensure consistent adherence to guidelines set up by the recognized certification bodies.

## FROM THE ORGANIC FARM TO YOUR BIRD...

In addition to following the strict organic guidelines specified by the USDA we have some high standards of our own to ensure the very best quality product for your bird.

- Premium grains and other ingredients are contracted by HBD to be grown on fertile organic farms throughout North America.
- A third party organic certifier verifies the certification of the raw ingredients, making sure they meet the requirements designated under the USDA's rules regarding organic certification.
- All grains and other ingredients are tested throughout the manufacturing process for mycotoxins and rancidity.
- For the extrusion process, the ingredients are ground and thoroughly mixed. Then the various sized and formulated nuggets are extruded, toasted, cooled and then packaged under careful supervision.
- An outside laboratory performs even more testing in the way of post-production analysis. The finished products are checked to verify that the protein, fat and mineral contents are consistent with those listed on the label. The lab also cultures for bacteria. Periodic batches are analyzed for vitamins, fatty acids and amino acids.
- Our state-of-the-art packaging (the Harrison's bag) protects the freshness of the products, which have only natural tocopherols as preservatives.
- The foods are then shipped to and stored at the HBD Distribution Center in Brentwood, Tennessee. The products remain in this climate controlled environment until being shipped for customer order.





## EFFECTS OF PESTICIDES ON BIRDS

It is well documented that birds in the wild are dying in mass numbers due to exposure to pesticides. Birds are killed, sickened or weakened by poisons or affected by the loss of food or habitat resources. Be it from direct contact or ingestion of toxic residues, pesticide poisoning kills more birds than any other cause.

We know that pesticides are devastating the wild bird population, *but what do we know about pesticides and pet birds?*

It is not a secret that parrots are especially sensitive to environmental toxins, such as certain metals, chemical cleaners, and overheated plastic-coated cookware. Chemicals that normally are only irritating to humans and other animals can be extremely toxic to parrots. Yet little thought is given to the potential cancers, neurological problems, hormonal imbalances, allergies and disruptions of the immune system that may be attributed directly to pesticide residues on foods that parrots ingest.

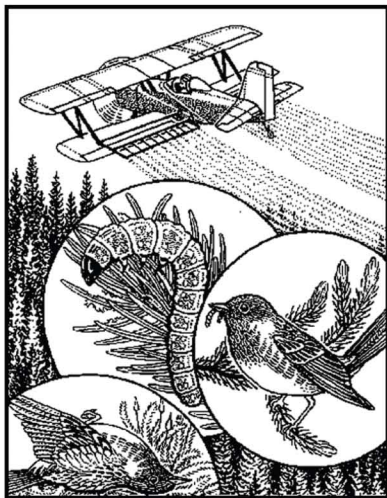
The EWG (Environmental Working Group) concluded that more than half of the total dietary risk from pesticides was concentrated in just 12 foods from the produce section of the supermarket: strawberries, bell peppers, spinach, cherries, peaches, cantaloupe, celery, apples, apricots, green beans, grapes and cucumbers.

Organic farming, or sustainable agriculture, is the first step toward moving away from this dangerous trend. Proper crop rotation breaks the cycles of pest and disease problems and balances the nutrient demands of specific crops. Alternative pest controls, such as certain insects or plantings, are incorporated into agriculture. Organic farming works to bring you safer and healthier products, keep the farmlands in tip-top shape and leave the surrounding environment uncontaminated.

The overall impact of the organic culture involves the entire world's ecosystem, because the battle against toxic contaminants threatens all life on earth in one way or another.

## PESTICIDES KILL

**The Migratory Bird Council projects annual wild bird deaths due to pesticide poisoning to exceed 67 million.**



Pesticides sprayed from planes saturate the ground and every living thing in the area.



Pesticide run-off contaminates waterways and has the potential to poison every living being that depends on these sources of water.



## FEEDING HARRISON'S

### Getting Started

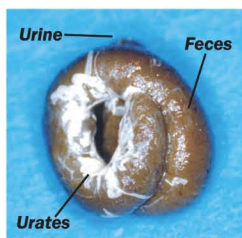
Schedule an appointment with your avian veterinarian to discuss which formulation is best for your bird and how you should approach the diet conversion. Your bird should also have a general health exam at this time to decide if it is healthy enough to undergo a diet change.

Your veterinarian can suggest what the proper body weight should be for your bird (see page 37). Purchase an accurate gram scale and learn how to use it correctly. Weigh your bird at the same time every morning for two weeks to establish normal fluctuations in weight. Report any serious fluctuations (10% or more) to your avian veterinarian.

It may take some patience and a few techniques to get your bird to eat a formulated diet if it's accustomed to seeing only seeds in its food bowl (see **11 Tips for Conversion**, page 12).

### Supplementation

Harrison's is designed to be fed for 90% of the overall diet. It is not recommended to supplement with vitamins or other bird or animal food products. Supplementation should be limited to no more than 10% of the overall diet. Offer certified organic vegetables and fruits in small quantities; select dark yellow meaty or dark green leafy items such as sweet potatoes, carrots, pumpkin, winter squash, broccoli, parsley, spinach, mango or papaya.



Normal droppings

### Offer Only Fresh Food

Feed Harrison's Bird Foods fresh daily (remember, no preservatives) and don't "top off" the food bowl.

### Storage & Shelf Life

HBD is committed to protecting your bird from artificial preservatives. Here are some suggestions to keep your food fresh:

- Smell the product for freshness prior to feeding.
- Squeeze all air out of the bag and zip it shut at the top.
- If the zip lock gets removed or damaged, fold the top over several times and close with a clip.
- Keep food in original bag. Do not repackage into plastic bags or containers.
- Use contents within 4-6 weeks of opening bag.
- Purchase Harrison's foods only in their original packaging.
- Refrigeration after opening may help maintain freshness.

### Watch Your Bird Closely

Just because food has been ground to a powder, thrown around, or he's in the feeding cup all the time, is not a sign that your bird is eating or eating enough.

If any of the following should occur **\*(change in behavior, droppings or weight)**, or you are unsure about your bird's health call your avian veterinarian and reschedule the diet conversion:

**BEHAVIOR:** appears cold, listless, fluffed-up or reluctant to play or talk.

**DROPPINGS:** very loose or significantly reduced feces, while the amount of urine/urates has increased, or the feces changes color to yellow or dark green (a color change to brown is normal due to the formulation diet).

**WEIGHT:** monitor progress by weighing your bird daily with a gram scale. If he loses more than 10% (3g = budgie or 10g = cockatiel), resume feeding the previous diet and call your veterinarian.

## QUICK TIPS FOR CONVERSION TO HARRISON'S BIRD FOODS

Birds converting from any other diet should be fed Harrison's High Potency Formula for a period of at least 6-8 months.

Some birds will readily eat Harrison's while others may require a little help. If your bird exhibits resistance to conversion try the following tips:

**1. Use AVIx Bird Builder** (contains iodine and trace minerals) 2-3 weeks prior to diet a change may stimulate a healthy appetite resulting in the bird's willingness to try something new. Stop using Builder once the bird is fully converted.

**2. Harrison's Bird Bread Mix** is an extremely effective conversion tool. Add food that the bird currently eats to the mix and bake in the bread. Gradually reduce the amount of that food and replace it with the appropriate Harrison's formula.  
See: [www.harrisonsbirdfoods.com/budgies.html](http://www.harrisonsbirdfoods.com/budgies.html) (Budgie Conversion made easy with Harrison's Bird Bread Mix).

**3. Change the bird's environment.** Try moving your bird to a new enclosure, such as a box, aquarium or even a new cage. Remove all the toys, perches and bowls and offer High Potency on a solid surface of the floor.

**4. Use a mirror or white paper.** Sprinkling food over a mirror or sheet of white paper placed on the bottom of the enclosure works especially well for budgies. A bird old enough to be socialized may eat to compete with the "rival" bird in the mirror. A white paper background may draw attention to the food particles.

**5. Slowly "wean" your bird from seeds.** In the evening, offer seeds from the food bowl for only 1 hour. Then, remove the seeds and replace with High Potency. The next day, give your bird seeds for only 30 minutes in the morning and evening. The third day, reduce the time to only 15 minutes twice a day. And finally, offer only High Potency on the fourth day. Watch the bird's droppings.

**6. Feed your bird at mealtime.** Place the food on a plate, move it around with your finger or a spoon and pretend to eat it in front of your bird.

**7. Offer Power Treats, Pepper Lifetime Coarse or Adult Lifetime Mash.** Birds love the taste of Power Treats and Pepper Lifetime Coarse. These foods can be crushed for smaller birds. Adult Lifetime Mash also has an appealing taste to help your bird try new food.

**8. Use a converted bird as a role model.** House your bird near another that's already eating Harrison's Bird Foods, or use a "trainer bird" in the same cage as a role model for eating.

**9. Heat or moisten the food.** Heat the High Potency slightly or moisten it with a small amount of fruit juice or AVIx Sunshine Factor.

**10. Schedule a supervised diet change with your veterinarian.** Some birds do not recognize Harrison's as food, and placing the bird in a clinic where monitoring can be done will help keep your bird healthy through the conversion.

**11. If the conversion steps don't work the first time,** you can feed the familiar food for a short time and then try again. The effort is worthwhile for the long term health of your bird.

*The bird's weight (in grams), body condition, attitude and droppings should be monitored carefully on a daily basis in small and medium birds and at least twice a week in large birds*



## THE HARRISON'S FORMULAS

### About Our Formulas

Today, formulated bird foods are the choice of educated modern families because they know malnutrition is the leading cause of death in companion birds, and that traditional seed-based diets can lead to malnutrition. But what they may not know is what is in the formulated diet that they are feeding. Or better yet, what is left out.

Harrison's Bird Foods contain:

- No chemical insecticides, herbicides or fungicides
- No preservatives
- No artificial colors, sweeteners or flavors
- No double-dosed vitamins

HBD screens all of its products for pathogenic bacteria, molds (mycotoxins) and various natural enzymes (e.g., trypsin) to assure safety for consumption by birds and other animals.

### Premium Ingredients

Harrison's Bird Foods are made from premium whole grains and legumes. We do not incorporate the kind of artificial processing nor do we use the type of milled white flours or byproducts that yield a perfectly uniform appearance with every batch. It is nature itself that dictates the color, look and texture of Harrison's Bird Foods so the appearance of the food may fluctuate from bag to bag.

### Easy and Economical

The use of Harrison's Bird Foods changes the way you look at feeding your bird:

- No supplements or vitamins to buy
- No foods to clean and chop
- No time needed to prepare—just pour and go
- Less volume of food needed
- No seed hulls, kitchen mess or cage mess
- No fuss, no worry

### What You May See After Switching

- Increased life expectancy
- Enhanced appearance
- Increased energy and vitality
- More vocal and playful nature
- Decreased biting, yelling, picking
- Increased affection
- Increased resistance to common bacteria and yeasts
- Increased quality and quantity of offspring
- Healthier and happier bird

The following pages are a detailed catalog of the various Harrison's formulas, feeding and usage guidelines, recommended amounts and other specified information. Further information is available online at [www.HarrisonsBirdFoods.com](http://www.HarrisonsBirdFoods.com)





## HIGH POTENCY COARSE™

**A Certified Organic Maximim Nutrient Formula for Medium to Large Parrots**



### FOR USE IN BIRDS:

- **that are being converted from seeds or any other diet.** Birds should initially be fed High Potency Formula for a period of at least 6 months.
- **as a year round formula** for African greys, large macaws, Queen of Bavaria conures and other medium to large parrots.
- **that have special needs** such as birds that are molting, overweight, underweight, particularly active, housed in a cold climate, recovering from an illness or affected by liver or kidney disease.
- **that are weaning.** Birds should be fed High Potency Formula for at least 6-9 months.
- **that are breeding.** Birds should be fed High Potency Formula 1-2 months prior to the breeding period and until chicks are weaned or for at least six months before resuming Adult Lifetime Formula. The amount of supplemental certified organic vegetables and fruits may be increased until the chicks are weaned. For each 2 Tbs (20 g) formula, add ½ Tbs (5 g) certified organic peanuts or almonds.

### Feeding Directions:

- feed fresh food daily.
- to help reduce waste, feed as distinct meals.
- birds may eat all they want, but use the table below as a guideline.

**Ingredients:** \*Ground Shelled Sunflower Seeds, \*Ground Hullless Barley, \*Ground Soybeans, \*Ground Shelled Peanuts, \*Ground Green Peas, \*Ground Lentils, \*Ground Yellow Corn, \*Ground Rice, \*Ground Toasted Oat Groats, Psyllium, \*Ground Alfalfa, Calcium Carbonate, \*Spirulina, Montmorillonite Clay, Ground Dried Sea Kelp, Vitamin E Supplement, Sea Salt, Vitamin A Supplement, Vitamin D3 Supplement, Niacin Supplement, Vitamin B12 Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Sodium Selenite.

\*CERTIFIED ORGANIC INGREDIENT

**Guaranteed Analysis:** Crude protein (min.) 18%, crude fat (min.) 15%, crude fiber (max.) 6.5%, moisture (max.) 10%.

	High Potency Coarse	Supplements
Pionus	1 - 1½ Tbs (10 - 15 g)	½ - 1 tsp
Amazons, Eclectus	1½ - 3 Tbs (15 - 30 g)	1 - 2 tsp
African greys	1½ - 3 Tbs (15 - 30 g)	1½ - 2 tsp
Cockatoos (large)	1½ - 5 Tbs (15 - 50 g)	2 tsp - 1 Tbs
Macaws (large)	2 - 6 Tbs (20 - 60 g)	2 tsp - 1½ Tbs





## HIGH POTENCY FINE™ and HIGH POTENCY SUPER FINE™

**Certified Organic Maximim Nutrient Formulas for Medium to Small Parrots**



*High Potency Fine*



*High Potency Super Fine*

### FOR USE IN BIRDS:

- **that are being converted from seeds or any other diet.** Birds should initially be fed High Potency Formula for a period of at least 6 months.

- **as a year round formula** for conures, lorries, quakers, cockatiels, lovebirds, budgies, finches, canaries and other small to medium parrots.

- **that have special needs** such as birds that are molting, overweight, underweight, particularly active, housed in a cold climate, recovering from an illness or affected by liver or kidney disease.

- **that are weaning.** Birds should be fed High Potency Formula for at least 6-9 months.

- **that are breeding.** Birds should be fed High Potency Formula 1-2 months prior to the breeding period and until chicks are weaned or for at least six months before resuming Adult Lifetime Formula. The amount of supplemental certified organic vegetables and fruits may be increased until the chicks are weaned. For each 2 Tbs (20 g) Formula, add ½ (5 g) Tbs certified organic sunflower seeds.

### Feeding Directions:

- feed fresh food daily.
- to help reduce waste, feed as distinct meals.
- birds may eat all they want, but use the table below as a guideline.

**Ingredients:** \*Ground Hulled White Millet (Proso), \*Ground Shelled Sunflower Seeds, \*Ground Hulless Barley, \*Ground Yellow Corn, \*Ground Soybeans, \*Ground Shelled Peanuts, \*Ground Rice, \*Ground Green Peas, \*Ground Lentils, \*Ground Toasted Oat Groats, Chia Seed, \*Ground Alfalfa, Calcium Carbonate, Montmorillonite Clay, \*Spirulina, Ground Dried Sea Kelp, Vitamin E Supplement, Sea Salt, Vitamin A Supplement, Vitamin D3 Supplement, Niacin Supplement, Vitamin B12 Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Sodium Selenite.

\*CERTIFIED ORGANIC INGREDIENT

**Guaranteed Analysis:** Crude protein (min.) 20%, crude fat (min.) 12%, crude fiber (max.) 5%, moisture (max.) 10%.

	High Potency Fine	Supplements		High Potency Super Fine	Supplements
Cockatiels, Lovebirds	1½ - 3 tsp (2 - 5 g)	½ - 1 tsp	Canaries	1 tsp (1 - 1¼ g)	½ - 1 tsp
Quakers	2 - 4 tsp (3 - 7 g)	1 - 1½ tsp	Budgies (parakeets)	1 - 2 tsp (1½ - 3 g)	1 - 2 tsp
Lories*	3 - 4 tsp (5 - 7 g)	½ - 2 tsp	Finches	1½ - 3 tsp (2 - 5 g)	1½ - 2 tsp
Conures	3 - 5 tsp (5 - 9 g)	1½ - 2 tsp	Cockatiels	1½ - 3 tsp (2 - 5 g)	2 tsp - 1 Tbs
Doves	½ - 1½ tsp (5 - 15 g)	1 - 2 tsp	Lovebirds	1½ - 3 tsp (2 - 5 g)	2 tsp - 1 Tbs

\*For Lories: soak the formula in 2 Tbs water and 1/2 tsp corn syrup



## HIGH POTENCY MASH™

**A Certified Organic Maximim Nutrient Formula for Medium to Large Parrots and Canaries**



### FOR USE IN BIRDS:

- **that are being converted from seeds or any other diet.** Birds should initially be fed High Potency Formula for a period of at least 6 months.

- **as a year round formula** for canaries, doves, budgies (parakeets), cockatiels, lovebirds, finches and other medium to small parrots.

- **that have special needs** such as birds that are molting, overweight, underweight, particularly active, housed in a cold climate, recovering from an illness or affected by liver or kidney disease.

- **that are weaning.** Birds should be fed High Potency Formula for at least 6-9 months.

- **that are breeding.** Birds should be fed High Potency Formula 1-2 months prior to the breeding period and until chicks are weaned or for at least six months before resuming Adult Lifetime Formula. The amount of supplemental certified organic vegetables and fruits may be increased until the chicks are weaned.

For each 2 Tbs (20 g) Formula, add ½ (5 g) Tbs certified organic sunflower seeds.

### Feeding Directions:

- feed fresh food daily.
- to help reduce waste, feed as distinct meals.
- birds may eat all they want, but use the table below as a guideline.

**Ingredients:** \*Ground Shelled Sunflower Seeds, \*Ground Hullless Barley, \*Ground Soy Flakes, \*Ground Lentils, \*Ground Green Peas, \*Ground Shelled Peanuts, Chia Seeds, \*Ground Rice, \*Ground Yellow Corn, \*Ground Toasted Oat Groats, \*Sesame Meal, Calcium Carbonate, Montmorillonite Clay, \*Ground Alfalfa, Di-Calcium Phosphate, Ground Dried Sea Kelp, \*Spirulina, Sea Salt, Vitamin E Supplement, Vitamin A Supplement, Vitamin D3 Supplement, d-alpha Tocopheryl Acetate, Vitamin B12 Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Niacin Supplement, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Folic Acid, Zinc Oxide, Manganous Oxide, Copper Sulfate, Sodium Selenite, Calcium Carbonate, Ground Anise Seed.  
\*CERTIFIED ORGANIC INGREDIENT

**Guaranteed Analysis:** Crude protein (min.) 20%, crude fat (min.) 14%, crude fiber (max.) 8%, moisture (max.) 10%.

	High Potency Mash	Supplements
<b>Canaries</b>	<b>1 tsp (1 - 1¼ g)</b>	<b>½ - 1 tsp</b>
<b>Budgies (parakeets)</b>	<b>1 - 2 tsp (1½ - 3 g)</b>	<b>1 - 2 tsp</b>
<b>Finches</b>	<b>1½ - 3 tsp (2 - 5 g)</b>	<b>1½ - 1 tsp</b>
<b>Cockatiels, Lovebirds</b>	<b>1½ - 3 tsp (2 - 5 g)</b>	<b>1½ - 1 tsp</b>
<b>Doves</b>	<b>½ - 1½ Tbs (5 - 15 g)</b>	<b>1 - 2 tsp</b>



## ADULT LIFETIME COARSE™

**A Certified Organic Maximim Nutrient Formula for Medium to Large Parrots**



### FOR USE IN BIRDS:

- **after completing a dietary program of High Potency Formula** for a period of at least 6 months.

- **as a year round maintenance formula** that meets the nutritional requirements for healthy, non-breeding birds including pionus, Amazons, cockatoos, macaws and other medium to large parrots.

### Feeding Directions:

- feed fresh food daily.
- to help reduce waste, feed as distinct meals.
- birds may eat all they want, but use the table below as a guideline.

**Ingredients:** \*Ground Yellow Corn, \*Ground Hulless Barley, \*Ground Soybeans, \*Ground Shelled Peanuts, \*Ground Shelled Sunflower Seeds, \*Ground Lentils, \*Ground Green Peas, \*Ground Rice, \*Ground Toasted Oat Groats, \*Ground Alfalfa, Calcium Carbonate, Psyllium, Montmorillonite Clay, \*Spirulina, Ground Dried Sea Kelp, Vitamin E Supplement, Sea Salt, Vitamin A Supplement, Vitamin D3 Supplement, Niacin Supplement, Vitamin B12 Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Sodium Selenite.

\*CERTIFIED ORGANIC INGREDIENT

**Guaranteed Analysis:** Crude protein (min.) 15%, crude fat (min.) 5.5%, crude fiber (max.) 6.5%, moisture (max.) 10%.

	Adult Lifetime Coarse	Supplements
Pionus	1 - 1½ Tbs (10 - 15 g)	½ - 1 tsp
Amazons	1½ - 3 Tbs (15 - 30 g)	1 - 2 tsp
Eclectus	1½ - 3 Tbs (15 - 30 g)	1 - 2 tsp
Cockatoos (large)	1½ - 5 Tbs (15 - 50 g)	2 - 3 tsp
Macaws (large)	2 - 6 Tbs (20 - 60 g)	2 - 4 tsp



## ADULT LIFETIME FINE™ and ADULT LIFETIME SUPER FINE™

**A Certified Organic Maintenance Level Nutrient Formula for Small to Medium Parrots**



*Adult Lifetime Fine*



*Adult Lifetime Super Fine*

### FOR USE IN BIRDS:

- **after completing a dietary program of High Potency Formula** for a period of at least 6 months.

- **as a year round maintenance formula** that meets the nutritional requirements for healthy, non-breeding birds including lorries, cockatiels, lovebirds, quakers, doves, pigeons, canaries, budgies (parakeets), parrotlets, finches and other small to medium parrots.

### Feeding Directions:

- feed fresh food daily.
- to help reduce waste, feed as distinct meals.
- birds may eat all they want, but use the table below as a guideline.

**Ingredients:** \*Ground Yellow Corn, \*Ground Hulless Barley, \*Ground Hulled Grey Millet, \*Ground Soybeans, \*Ground Shelled Peanuts, \*Ground Shelled Sunflower Seeds, \*Ground Lentils, \*Ground Rice, \*Ground Green Peas, \*Ground Sun-Dried Alfalfa, \*Ground Toasted Oat Groats, \*Chia Seed, Calcium Carbonate, Montmorillonite Clay, \*Ground Dried Sea Kelp, Vitamin E Supplement, Sea Salt, \*Spirulina, Vitamin A Supplement, Vitamin D<sub>3</sub> Supplement, Niacin Supplement, Vitamin B<sub>12</sub> Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Sodium Selenite.

\*CERTIFIED ORGANIC INGREDIENT

**Guaranteed Analysis:** Crude protein (min.) 14%, crude fat (min.) 6%, crude fiber (max.) 4.5%, moisture (max.) 10%.

	Adult Lifetime Fine		Supplements		Adult Lifetime Super Fine		Supplements
Cockatiels, Lovebirds	1½ - 3 tsp (2 - 5 g)		½ - 1 tsp	Canaries	1 tsp (1 - 1½ g)		½ - 1 tsp
Quakers	2 - 4 tsp (3 - 7 g)		1 - 1½ tsp	Budgies (parakeets)	1 - 2 tsp (1½ - 3 g)		1 - 2 tsp
Lories*	3 - 4 tsp (5 - 7 g)		½ - 2 tsp	Parrotlets	1 - 2 tsp (1½ - 3 g)		1 - 2 tsp
Conures	3 - 5 tsp (5 - 9 g)		1½ - 2 tsp	Finches	1½ - 3 tsp (2 - 5 g)		1½ - 2 tsp
Doves, Pigeons	½ - 1½ tsp (5 - 15 g)		1 - 2 tsp	Cockatiels, Lovebirds	1½ - 3 tsp (2 - 5 g)		2 tsp - 1 Tbs

\*For Lories: soak the formula in 2 Tbs water and 1/2 tsp corn syrup





## ADULT LIFETIME MASH™

**A Certified Organic Maintenance Nutrient Level  
and Low Antigen Formula for Small Parrots**



### FOR USE IN BIRDS:

- **after completing a dietary program of High Potency Formula** for a period of at least 6 months.

- **that are potentially allergic** to other ingredients.

- **as a year round maintenance formula** that meets the nutritional requirements for healthy, non-breeding birds including canaries, budgies (parakeets), cockatiels, doves, lovebirds, conures, parrotlets, pigeons and other medium to small parrots.

**Ingredients:** \*Ground Hulled Gray Millet, \*Ground Hulled Wild Buckwheat, \*Ground Soy Flakes, \*Ground Hulled Sesame Seeds, Chia Seed, \*Spirulina, Calcium Carbonate, \*Ground Alfalfa, Montmorillonite Clay, Ground Dried Sea Kelp, Di-Calcium Phosphate, Vitamin E Supplement, Sea Salt, Ground Whole Anise, Vitamin A Supplement, Vitamin D3 Supplement, D-alpha tocopheryl acetate, Vitamin B12 Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Niacin Supplement, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Folic Acid, Zinc Oxide, Copper Sulfate, Sodium Selenite, Calcium Carbonate.

\*CERTIFIED ORGANIC INGREDIENT

### Feeding Directions:

- feed fresh food daily.
- to help reduce waste, feed as distinct meals.
- birds may eat all they want, but use the table below as a guideline.

**Guaranteed Analysis:** Crude protein (min.) 17%, crude fat (min.) 6.5%, crude fiber (max) 8%, moisture (max.) 10%

	Adult Lifetime Mash	Supplements
Canaries	1 tsp (1 - 1¼ g)	½ - 1 tsp
Budgies (parakeets)	1 - 2 tsp (1½ - 3 g)	1 - 2 tsp
Finches	1½ - 3 tsp (2 - 5 g)	1½ - 1 tsp
Cockatiels, Lovebirds	1½ - 3 tsp (2 - 5 g)	1½ - 1 tsp
Doves	½ - 1½ Tbs (5 - 15 g)	1 - 2 tsp



## PEPPER LIFETIME COARSE™

### A Certified Organic Maintenance Level Nutrient Formula for Medium to Large Parrots

*Contains 1% certified organic cayenne pepper*



#### FOR USE IN BIRDS:

- **after completing a dietary program of High Potency Formula** for a period of at least 6 months.

- as a flavorful alternative to Adult Lifetime Formula.
- that need help in diet conversion.
- that have been diagnosed with papillomatosis.
- as foraging treats.
- as a year-round nutritional requirements for healthy, non-breeding birds including pionus, Amazons, eclectus, large cockatoos, large macaws and other medium to large parrots.

**Ingredients:** \*Ground Yellow Corn, \*Ground Hulless Barley, \*Ground Soybeans, \*Ground Shelled Peanuts, \*Ground Shelled Sunflower Seeds, \*Ground Lentils, \*Ground Green Peas, \*Ground Rice, \*Ground Toasted Oat Groats, \*Ground Alfalfa, \*Psyllium, \*Cayenne Pepper, Calcium Carbonate, Montmorillonite Clay, \*Spirulina, \*Ground Sun-Dried Sea Kelp, Vitamin E Supplement, Sea Salt, Vitamin A Supplement, Vitamin D3 Supplement, Niacin Supplement, Vitamin B12 Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Sodium Selenite.

\*CERTIFIED ORGANIC INGREDIENT

**Guaranteed Analysis:** Crude protein (min.) 15%, crude fat (min.) 5.5%, crude fiber (max.) 6.5%, moisture (max.) 10%.

#### Feeding Directions:

- feed fresh food daily.
- to help reduce waste, feed as distinct meals.
- birds may eat all they want, but use the table below as a guideline.

	Pepper Lifetime Coarse	Supplements
Pionus	1 - 1½ Tbs (10 - 15 g)	½ - 1 tsp
Amazons	1½ - 3 Tbs (15 - 30 g)	1 - 2 tsp
Eclectus	1½ - 3 Tbs (15 - 30 g)	1 - 2 tsp
Cockatoos (large)	1½ - 5 Tbs (15 - 50 g)	2 tsp - 1 Tbs
Macaws (large)	2 - 6 Tbs (20 - 60 g)	2 tsp - 1½ Tbs



**POWER TREATS™**  
WITH ORGANIC BRAZILIAN PALM FRUIT OIL

**A Certified Organic, Tasty, Toasted Healthy Supplement for all Companion Birds**



**FOR USE IN BIRDS:**

- Can be used as the only food source to aid in weaning, changing a bird's diet from seeds to Harrison's Bird Foods® or as a supplement for birds already fed Harrison's Bird Foods® that need extra energy following an illness.

- Beneficial to birds with dry flaky skin (beak, nails), balding of the feet, lack of sheen and proper color to feathers.

- Beneficial to most aging birds.

- Beneficial to certain species known to eat high oil diets.

- High antioxidant content (vitamin E and coenzyme Q10).

- High carotenoid content (precursors to vitamin A).

- Good balance of essential fatty acids.

- High antibacterial and antiparasitic properties due to the presence of lactoferrin.

**Feeding Directions:**

- feed 1 piece Power Treats per 3 pieces of Coarse Ground Formula
- may make up to 30% of diet.

**Ingredients:** \*Ground Shelled Peanuts, \*Evaporated Sugar Cane Juice, \*Tapioca Maltodextrin, \*Ground Yellow Corn, \*Ground Hulled Grey Proso Millet, \*Ground Shelled Sunflower Seeds, \*Ground Hullless Barley, \*Ground Split Green Peas, \*Brazilian Palm Fruit Oil, \*Ground Toasted Oat Groats, \*Ground Brown Rice, Ground Chia Seed, \*Ground Alfalfa, Montmorillonite Clay, Calcium Carbonate, \*Ground Sun-Dried Sea Kelp, Vitamin E Supplement, Natural Trace Mineral Salt, \*Spirulina, Vitamin A Supplement, Vitamin D3 Supplement, Niacin Supplement, Vitamin B12 Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Sodium Selenite.  
**\*CERTIFIED ORGANIC INGREDIENT**

**Guaranteed Analysis:** Crude protein (min.) 13%, crude fat (min.) 15%, crude fiber (max.) 7%, moisture (max.) 10%

	Power Treats
Small birds	1/8 - 1 1/2 piece per day
Medium birds	3 pieces per day
Large birds	9 pieces per day





## HARRISON'S BIRD BREAD™ MIX

**A Certified Organic Mix For Home Preparation of Bird Food**



### INDICATIONS / USES:

- Provides a healthy alternative for bird owners who choose to prepare their own bird food or those who give regular treats to their birds
- Can be offered instead of table food to birds that like to eat at family mealtimes
- Can be used to assist in converting birds to a formulated diet
- Can be hidden as a foraging reward
- Can be used as a vehicle for administering liquid medications
- Provides an easy-to-use transition for hospitalized or boarding birds until acceptance of the appropriate formulated diet
- Can be moistened and offered to birds that are feeding chicks as a soft food
- Can be used as a weaning food to transition to a formulated diet

See [harrisonsbirdfoods.com/budgies.html](http://harrisonsbirdfoods.com/budgies.html) to see how a pair of very stubborn budgies changed their diets with the help of Harrison's Bird Bread Mix.

### Baking Directions

- Preheat oven to 350°F (177°C).
- Combine entire bag of mix with 2 whole organic eggs - no shell (remove yolk for less fat), 1 Tablespoon (15 ml) AVIX Sunshine Factor® or other high quality organic vegetable oil, and 1 cup (235 ml) water.
- Fill greased bread pan or muffin tins and bake for 25-35 minutes.
- Do not bake in nonstick (PTFE-coated) cookware, as the fumes are toxic to birds.

### Serving Suggestions

- May make up to 30% of the daily diet.
- If prepared with the addition of fruits, vegetables or nuts, Bird Bread should be considered a "treat" and fed only in limited quantities (no more than 10% of the daily food allotment when combined with all other treats).
- Can be served warm.
- Some flavorings (vanilla, maple) or herbs can be added as long as they do not change the nutritional content.

### Storage & Shelf Life

Because Bird Bread Mix contains no preservatives, some care is recommended for storage.

- If the bag is opened, the top can be zipped closed or rolled down and closed with a chip clip for 4-6 weeks.
- Baked Bird Bread can be stored for 1 week in the refrigerator.
- Baked Bird Bread can be divided into portions, wrapped in plastic wrap and placed back in the original Harrison's Bird Foods bag for storage in the freezer.
- Bird Bread should not be reheated in a plastic container.

### Ingredients

*May include one or more of the following:*

- \*Harrison's Bird Foods,®
- \*Grey millet,
- \*Safflower,
- \*Sweet corn, Baking powder (aluminum-free)
- \*CERTIFIED ORGANIC INGREDIENT.

### Guaranteed Analysis

Crude protein (min.) 15%, crude fat (min.) 8%, crude fiber (max.) 6.5%, moisture (max.) 10%



## JUVENILE HAND-FEEDING™ FORMULA

### A Certified Organic Complete Balanced Hand-Feeding Formula for Parrot Chicks



#### GUIDELINES FOR USE:

- Nutritious formula for hand-feeding psittacine chicks until weaning.
- Can be used following post-hatch feeding of Neonate Formula for selected parrots (see below).
- Supports birds recovering from illness or injuries that may need supplemental feeding and birds that are losing weight during a diet conversion.

#### Feeding Directions:

**Caution:** The correct feeding technique must be used in order to prevent injury to the bird or inhalation of the formula that could result in pneumonia or death.

#### Species:

- From day 1 for pionus, African greys, Amazons, cockatoos, conures and macaws.
- From day 7 for other parrots.
- From day 21 for cockatiels.

• **Step 1:** Gently feel the crop to determine that it is almost empty before feeding.

• **Step 2:** Mix fresh: Juvenile Hand-Feeding Formula and bottled "drinking water" heated to approximately 103°F (39°C). Follow proportion of formula to water as directed by your avian veterinarian for the age of your bird. Do not microwave. Allow to cool to lukewarm. Chicks with their eyes opened should be fed 3-4 times daily, and birds with feathers emerging, 2-3 times daily.

• **Step 3:** Feeding with an irrigation syringe is probably the most universally successful technique. As one faces the bird, position the syringe to enter the oral cavity from the left side of the bird's beak and direct it toward the right side of the bird's neck. Deposit the food into the bird's mouth and, as it swallows, the normal feeding response closes off the trachea and prevents aspiration of the formula into the lungs.

• **Step 4:** Feed the bird until the crop is full but not overstuffing, and clean the excess formula from the bird's beak, feathers and enclosure.

#### Feeding Suggestions

- One- to seven-day-old birds and birds with slow crop-emptying may benefit from adding a pinch of HBD's Avian Enzyme to the Formula just prior to feeding.
- To aid weaning after 21 days of age, add 1 Tbs finely chopped High Potency Formula or finely chopped organic nuts to 1 cup of Formula or introduce dry High Potency Formula in a separate bowl.

#### Ingredients:

\*Ground Hulled Grey Millet, \*Ground Hi Oleic Sunflower Kernel, \*Ground Hullless Barley, \*Ground Yellow Corn, \*Ground Soybeans, \*Ground Shelled Peanuts, \*Ground Split Green Peas, \*Ground Green Lentils, \*Ground Toasted Oat Groats, \*Ground Brown Rice, \*Tapioca Maltodextrin, \*Psyllium, \*Ground Sun-Dried Alfalfa, Calcium Carbonate, \*Spirulina, Montmorillonite Clay, \*Ground Sun-Dried Sea Kelp, Vitamin E Supplement, Vitamin A Supplement, Vitamin D<sub>3</sub> Supplement, Niacin Supplement, Vitamin B<sub>12</sub> Supplement, Riboflavin Supplement, d-Calcium Pantothenate, Pyridoxine Hydrochloride, d-Biotin, Thiamine Mononitrate, Sodium Selenite.

\*CERTIFIED ORGANIC INGREDIENT

**Guaranteed Analysis:** Crude protein (min.) 18%, crude fat (min.) 11%, crude fiber (max.) 4%, moisture (max.) 10%.

#### AVERAGE DAILY AMOUNTS TO FEED

Age	Juvenile Formula	Water
Day 1	1 part	6 parts
Gradually increase to:		
Days 2-6	1 part	3 parts
From Day 7	1 part	2 parts
In most cases, feed 1 Tbs formula powder per 150-200 g body weight		



**NEONATE™**  
FORMULA

### A Complete Balanced Hand-feeding Food for Hatchlings



#### GUIDELINES FOR USE:

- Balanced, easily digestible hand-feeding formula for psittacine chicks from hatching to 1-3 weeks of age.
- Easily assimilated source of nutrients for young birds.
- Smooth texture for acceptability by birds until they are eating on their own.

*Small species older than 21 days and large species older than 7 days should be fed Juvenile Hand-feeding Formula.™*

#### Ingredients:

Soy protein isolate, Hi-oleic sunflower oil, Corn starch, Sugar, Calcium carbonate, Potassium chloride, Di-calcium phosphate, Phosphatidylcholine, Vitamin supplement (vitamin A acetate, vitamin D3, dl-alpha tocopheryl acetate, vitamin B12, riboflavin, d-calcium pantothenate, niacin, pyridoxine hydrochloride, d-biotin, thiamine mononitrate, folic acid, zinc sulfate, manganese sulfate, copper sulfate, sodium selenite, calcium carbonate, vegetable oil), Methionine, Vitamin E.

#### Dry Mix Guaranteed Analysis

Crude protein (min.) 26%,  
crude fat (min.) 14%,  
crude fiber (max.) 1%,  
moisture (max.) 10%



**RECOVERY™**  
FORMULA

### A Complete Nutritional Support Formula for Sick or Injured Birds



#### GUIDELINES FOR USE:

- Easily assimilated source of nutrients for all birds needing special care until they are eating on their own.
- For medical and surgical patients that are recovering from pansystemic failure and have progressed to a point where an oral, easily-digested diet is indicated.
- Can be used to support a bird through the transition phase of a diet change that needs nutritional support.

- For birds in which anorexia has slowed gastrointestinal emptying time; not for cases of ileus or stasis.

#### FEEDING DIRECTIONS

Caution: The correct feeding technique must be used in order to prevent injury to the bird or inhalation of the formula that could result in pneumonia and death.

- **Step 1:** Gently feel the crop to determine that it is almost empty before feeding.
- **Step 2:** Mix fresh: 1 part dry formula to 1-3 parts bottled "drinking water" heated to approximately 103°F (39°C). Do not microwave. Allow to cool to lukewarm.
- **Step 3:** Feeding with a tube is probably the most universally successful technique. As one faces the bird, position the tube to enter the oral cavity from the left side of the bird's beak and direct it toward the right side of the bird's neck.

**FOR NEONATE:** Deposit the food into the bird's mouth and, as it swallows, the normal feeding response closes off the trachea and prevents aspiration of the formula into the lungs.

**FOR RECOVERY:** Deposit the food into the bird's crop.

- **Step 4:** Feed the bird until the crop is full but not overstuffed and clean the excess formula from the bird's beak, feathers and enclosure.

**FOR RECOVERY:** Repeat as often as needed to maintain or increase the bird's body weight.

**Ingredients:** Soy protein isolate, Hi-oleic sunflower oil, Sugar, Calcium carbonate, Potassium chloride, Vitamin supplement (Vitamin A acetate, vitamin D3, dl-alpha tocopheryl acetate, vitamin B12, riboflavin, d-calcium pantothenate, niacin, pyridoxine hydrochloride, d-biotin, thiamine mononitrate, folic acid, zinc sulfate, manganese sulfate, copper sulfate, sodium selenite, calcium carbonate, vegetable oil), Phosphatidyl choline, Di-calcium phosphate, Methionine, Vitamin E.

#### Dry Mix Guaranteed

**Analysis:** Crude protein (min.) 35%, crude fat (min.) 19%, crude fiber (max.) 1%, moisture (max.) 10%





**AVIAN ENZYME™**

### **Digestive Aid**



#### **GUIDELINES FOR USE:**

For parrots, pigeons and other birds as a source of live, naturally-occurring enzymes. For birds with incomplete digestion, such as birds with chronic pancreatitis, malabsorption syndrome, proventricular dilatation or neonates with slow-emptying of the digestive system. May be beneficial in Day 1-7 neonates being hand-fed. Also indicated in chronically ill or geriatric birds that seem to not be getting all the benefits from their food and for sick birds under stress of illness. For hand-feeding when formula seems too thick when the correct amounts of water and powder are used.

**Dose and Administration:** Add a pinch of Avian Enzyme over hand-raising formula and allow to stand after stirring to achieve desired consistency. If still too thick, add more Avian Enzyme. Do not add more water than called for in hand-feeding formula directions. Add to tube-feeding formula for sick birds - one pinch per feeding mixed in formula.

Add to dry food for recovering birds - a pinch (1/16 tsp) per meal.

**Ingredients:** Saccharomyces cerevisiae yeast cultured on corn, wheat, rye, malt, corn syrup and molasses.

**Guaranteed Analysis:** Crude protein: not less than 12%, Crude fat: not less than 3%, Crude fiber: not more than 7%.





## AVIX Natural Avian Care Products

During his 36 years as an active avian practitioner and international speaker Dr. Greg J. Harrison sought to reduce the use of drugs in his patients by enhancing the bird's own immune system. Along the way, he developed a practical, well bird philosophy, which translated into the creative use of unique quality remedies that really worked to boost the health of his patients. We are proud to make some of these remedies available to everyone with a product line called AVIX.

### **Complementary Therapies Provided by AVIX Products**

The following AVIX products are complementary to your HBD wellness program.

**BIRD RAIN** - This all-natural bath can be used on all birds, no matter what foods they are eating. Bird Rain is a complementary protocol for all HBD Diets. (Do not use on featherless chicks or critically ill birds.)

**SOOTHER Spray** - This topical product that relieves skin irritations can be used in conjunction with any of the HBD diets; however, best results are achieved when used in conjunction with feeding High Potency and Power Treats. (Do not use on featherless chicks or critically ill birds.)

**SOOTHER Ointment** - This topical pain reliever can be used in conjunction with any HBD formulation and can be used topically on all birds of any age under the supervision of a licensed veterinarian.

**SOOTHER PLUS Cream** - This effective pain reliever and healing aid, with the addition of a nontoxic antimicrobial, can be used in conjunction with any HBD formulation and can be used topically on all birds of any age under the supervision of a licensed veterinarian.

**BOOSTER** - Booster is beneficial as a dietary supplement for all HBD diets, except Power Treats. Booster is especially helpful for stressed or sick birds or for birds that need support of their immune system. It works well for birds during a diet conversion, in hand-raising formulas, for growing chicks and for any bird recovering from an illness or being medically treated by a veterinarian.

**SUNSHINE FACTOR** - This organic Brazilian red palm oil complements all diets (Harrison's Bird Foods or seeds) except Power Treats and can be used as a dietary supplement for all birds. Do not use in conjunction with Booster.

**BIRD BUILDER** - Bird Builder is a trace mineral and iodine supplement that is good for birds that eat seeds. This supplement can be used during the conversion of a bird to HBD diets or while the bird is sick. Once the bird is eating HBD exclusively, the use of Bird Builder would be discontinued.

Individual results may vary. These products are not intended to diagnose, treat, cure, or prevent any disease.

Further information on Avi-X products including ingredients and directions is available at [www.harrisonsbirdfoods.com](http://www.harrisonsbirdfoods.com)



## **BIRD RAIN®**

### **A Natural Bird Bath**

8 oz spray bottle (240 ml)

16 oz refill bottle (480 ml)

#### **BENEFITS**

- Effectively cleans the feathers
  - Acceptable for daily use
  - Brings out the natural luster of feathers
  - Promotes skin health
  - Reduces feather dander and dust
  - Restores moisture to feathers and skin
  - Provides a one-step approach to bathing (no need to rinse)
- 



## **SUNSHINE FACTOR®**

### **A Natural Food Source**

1 oz vial (30 ml), 4 oz vial (120 ml)

1 gallon (3.79 L)

#### **BENEFITS**

- Beneficial for all birds with dry flaky skin and balding feet, especially older birds
  - Enhances sheen and color in feathers
  - Has a high antioxidant (vitamin E) and carotenoid content (precursor to vitamin A)
  - Contains a good balance of essential fatty acids, especially omega 3 and omega 6
  - Consists of 100% organic Brazilian dende (red palm fruit) oil
- 



## **BOOSTER®**

### **A Dietary Supplement**

1 oz vial (30 ml)

#### **BENEFITS**

- Provides antimicrobial and antiprotozoal properties
  - May enhance the immune system
  - May help reduce feather picking
  - Inhibits non-autochthonous life forms while allowing native avian GI flora to repopulate
  - Has a high antioxidant/carotenoid content
  - Contains a good balance of essential fatty acids, especially omega 3 and omega 6
  - Includes monoglyceride of an edible fatty acid suspended in organic Brazilian dende (red palm fruit) oil
- 



## **SOOTHER® Spray**

### **A Skin Irritation Reliever**

8 oz spray bottle (240 ml)

#### **BENEFITS**

- Promotes healing of sensitive skin and superficial lesions often noted in early feather picking and mutilation
- Reduces superficial itching and provides comfort during molting
- Uses transdermal technology for efficacy of topical application
- Can be easily applied to broad areas



## **SOOTHER® Ointment**

### **An Effective Pain Reliever**

0.5 oz vial (15 ml)

#### **BENEFITS**

- Effectively manages pain, swelling and inflammation
  - Provides pain relief for bruises, trauma, muscle cramps, post-surgical incisions and self-inflicted wounds
  - Uses transdermal technology for efficacy of topical application
  - Can be applied directly to lesions
- 



## **SOOTHER PLUS™ Cream**

### **An Effective Pain Reliever and Nontoxic Antimicrobial**

0.5 oz vial (15 ml),

1 oz vial (30 ml)

#### **BENEFITS**

- Provides the benefits of Soother® ointment with the addition of a nontoxic alternative to antibiotics for management of skin infections
  - Delivers antiviral, antibacterial and anti-yeast properties to superficial lesions
- 



## **BIRD BUILDER®**

### **A Trace Mineral and Iodine Supplement**

1 oz vial (30 ml),

4 oz vial (120 ml)

#### **BENEFITS**

- Supplements trace minerals and iodine missing from a seed diet
- Enhances feather strength and appearance
- Helps control incidence of fatty liver disease and obesity
- Helps support the body's enzymes
- Contributes to an overall healthy immune system
- Supports conversion to a formulated diet

## **THE IMPORTANCE OF USING A VETERINARIAN**

**HBD strongly recommends that pet bird owners establish and maintain an ongoing relationship with an avian veterinarian.**

Your veterinarian can help your bird make a smooth and safe transition to a new, healthy diet and be available for subsequent examinations or emergencies.

A veterinary visit for a general health examination should be scheduled before you start your bird on Harrison's Bird Foods. Some birds are so sick from being fed an improper diet that they may require critical care before undergoing a diet change.

Some birds may require holistic support to make the transition smoothly. Because underlying medical problems can be made worse by the inherent stress of a diet change, exams at three and twelve weeks following the diet conversion are recommended. Your avian veterinarian can also help you select which Harrison's formula is right for your bird.

It's a good idea to purchase a gram scale to have at home. In this way, you will be able to monitor your bird's weight during the diet conversion process. You might want to weigh your bird at the same time each morning for two weeks to establish normal fluctuations in its weight. Any serious fluctuations of 10% total body weight or more should be reported to your avian veterinarian.



### **SIGNS OF AN EMERGENCY**

Once you have successfully converted your bird to a Harrison's formula and have established a good relationship with your veterinarian, your bird should have very few health problems. However, if you notice any of the following signs, you should contact your veterinarian immediately:

- **Loss of appetite**
- **Vomiting**
- **Breathing difficulty**
- **Weight loss**
- **Abdominal swelling**
- **Weakness**
- **Broken bone**
- **Depression**
- **Signs of burns**
- **Seizures**
- **Regurgitation**
- **Excess sleeping**
- **Loss of balance**
- **Paralysis**
- **Prolapsed cloaca**
- **Diarrhea or unusual droppings**
- **Coughing, sneezing, wheezing**
- **Favoring one leg or wing**
- **Bleeding or other signs of trauma**
- **Listlessness and not playing**
- **Sitting on cage bottom**
- **Feathers "all puffed up"**

**IN CASE OF AN EMERGENCY CALL:** \_\_\_\_\_

*Fill in the blank with pet bird emergency contact*



## YOUR BIRD'S LIVING ENVIRONMENT

**Sunlight UV:** Provide adequate unfiltered sunlight and shade. Allow outdoor sunlight (not through glass) for a minimum of 20 minutes a week. Sun replacement lamps are necessary for birds in areas where sun is not accessible.

**Temperature:** Regulate temperatures between 65° and 85° F (18° and 30°C).

**Humidity:** Birds in dry climates or under artificial heat need the humidity artificially elevated. 50% is ideal.

**Cleanliness:** Clean the bird's living space regularly. Do not allow dust, rust, old feces, etc. to exist in this space. Make sure cleaning supplies are bird-safe. Soap and water are the standards.

**Changes:** Allow pet birds to acclimate to new environments. Reduce factors that may contribute to stress during times of change.

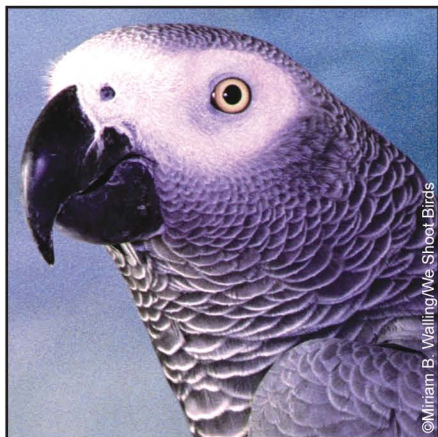
### SAFETY FIRST!

Most pet birds are very curious and will investigate anything new in their environment. That is why it is important to prevent their access to:

- hot cooking oil
- overheated items with non-stick surfaces
- ceiling fans
- leg chains
- sandpaper-covered perches
- tobacco and cigarette smoke
- chocolate, avocado
- salt
- solid air fresheners and scented candles
- alcohol
- toxic houseplants
- pesticides
- easily dismantled toys
- dogs, cats, ferrets and young children
- cedar, redwood and pressure treated shavings
- lead or zinc, found in chrome and galvanized metals
- paper towel rolls (glue may be a source of zinc)
- carpet powders

### Take the Magnet Test

Iron tends to rust. To avoid this, coating (galvanizing) iron with a layer of inert metal like zinc and/or lead alloys was developed. These alloys prevent rust but they can be chipped off or worn out over time. Birds that ingest galvanized metal are exposed to toxic levels of lead and/or zinc. As a result of lawsuits, most cages no longer have zinc in their coating. Stainless steel of the highest quality is non magnetic while iron coating by galvanization remains magnetic. So if an item (chain, bell, link) will attach to a magnet, then remove that item and replace it with stainless steel, leather, hemp or cotton rope.



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## AFRICAN GREYS

African greys seem to be unique among parrots in their nutritional needs, the details of which are not totally understood. The two most commonly observed syndromes in this species are calcium imbalance and respiratory disorders. New research sponsored by HBD indicates that African grey parrots must have direct daily access to sunlight or UVB full spectrum lighting in order to obtain the ideal levels of vitamin D<sub>3</sub> and normal calcium levels in the blood. Diet alone does not produce the ideal levels.

Although African grey parrots may have a tendency toward atherosclerosis, aggression and feather picking, feeding the High Potency Coarse formulation exclusively, with no addition of seeds, nuts or table foods to the diet, appears to minimize these negative characteristics. Birds that are from parents selectively bred for their calm nature and are parent reared for several weeks before they are removed to be hand-fed are the least likely to show these characteristics.

Geriatric African greys may need some additional high quality fat in the diet. One good source is organic Brazilian red palm oil, which is available in AVIX Sunshine Factor as well as Harrison's Power Treats.

**Recommended Harrison's Formula for African Grey Chicks:**  
Harrison's Juvenile Hand-feeding formula.

**Recommended Harrison's Formula for Adult African Greys:**  
High Potency Coarse year round.

**Recommended Supplements:** Power Treats or AVIX Sunshine Factor.



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## AMAZONS

Some Amazons have a tendency to develop atherosclerosis and become obese as they get older, which is suspected to be related to a metabolic dysfunction involving glucose regulation, the thyroid gland, ovary or liver. In contrast to what might be expected, these birds seem to respond to the higher fat, higher protein formulation of High Potency Coarse, as long as it is carefully measured by the piece to help maintain their proper weight. Additional food items, such as sweet potatoes, celery, bok choy and leafy greens may be added for bulk. Other table foods, nuts or seeds are prohibited.

Amazon parrots are best known for their excellent ability to mimic. Double Yellow-headed, Yellow-naped and Blue-fronted Amazons seem to have the best potential for talking, laughing, coughing or even imitating a baby's cry - perhaps males more than females. Other species may whistle or scream. All Amazons tend to form a bond with a specific individual, which may turn into aggression toward other family members, especially during the breeding season.

**Recommended Harrison's Formula for Amazon Chicks:**  
Harrison's Juvenile Hand-feeding formula.

**Recommended Harrison's Formula for Adult Amazons:** High Potency Coarse for 6 months followed by Adult Lifetime Coarse.

**Recommended Supplements:** Power Treats or AVIX Sunshine Factor.



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## BUDGIES

Budgies maintained on Harrison's experience longer, healthier lives, and their former common health problems relating to the thyroid, kidney, fatty tumors, obesity or reproduction are less evident.

Budgerigars (commonly referred to as "parakeets" or "budgies") are quiet, intelligent, nondestructive birds that are easy to care for. They are the most popular and numerous companion birds because of their relatively gentle, gregarious and entertaining personalities. They do not tend to bond with an individual person, and frequently interact with all family members. Budgerigars are capable of developing a large vocabulary (perhaps 200-300 words) but some effort must be made to accomplish this, and their voice is not as clear as other pet bird species. Some individuals are also good at whistling. Not talking at all is not unusual.

### **Recommended Harrison's Formula for Budgie**

**Chicks:** Neonate Formula for the first three weeks of life, then Juvenile Formula for faster weight gain and reduced number of feedings.

### **Recommended Harrison's Formula for Adult**

**Budgies:** High Potency Fine or Super Fine for 6 months, then Adult Lifetime Fine or Super Fine

### **Recommended Supplements:**

AVix Sunshine Factor, Power Treats (crushed)



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## CANARIES AND FINCHES

Canaries and finches from a pet store often have a relatively short life compared to other species, but when fed Harrison's, they are robustly healthy and longer lived.

Canaries are tidy, nondestructive and easy to care for, but they do not like to be handled. They are appreciated most for their pleasant, melodious song. All male canaries sing, starting as early as three months of age. If a male canary becomes ill, it may stop singing until the following spring even though the initial illness has resolved. Canaries are not social birds. One bird kept as a single pet will be content.

### **Recommended Harrison's Formula for Adult Canaries**

**and Finches:** High Potency Fine or Super Fine for 6 months, then Adult Lifetime Fine or Super Fine thereafter.

### **Recommended Supplements:**

AVix Sunshine Factor, Power Treats (pulverized)

Visit [www.harrisonsbirdfoods.com/canaries.html](http://www.harrisonsbirdfoods.com/canaries.html) for canary breeder egg-food recommendations





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## COCKATIELS

White cockatiels with lutino ancestry have a reddish-colored iris and a tendency toward yellow in the normally white feathers. These birds are prone to liver and kidney disorders. Long-term administration of herbs, such as lactulose and milk thistle, has been beneficial in controlling the liver disorder. Adding a teaspoon of flax seed or spray millet to the diet seems to help the kidneys if the birds are fed a formulated diet. These birds require close supervision by an avian veterinarian. White cockatiels with pied ancestry (dark-colored iris and pure white feathers) seem to be stronger in both these aspects.

Other common cockatiel problems of obesity, fatty tumors, xanthomas, and reproductive and feather disorders are significantly reduced when cockatiels are fed Harrison's.

Cockatiels are relatively quiet, nondestructive, entertaining birds that are easy to care for. Because they are considered so gentle, they are excellent as companion birds for children. Cockatiels are limited talkers, but some individuals are so good at whistling that their tunes are recognizable.

### **Recommended Harrison's Formula for Cockatiel Chicks:**

Neonatal Formula for the first three weeks of life, then Juvenile Formula for faster weight gain and reduced number of feedings.

**Recommended Harrison's Formula for Adult Cockatiels:** High Potency Fine or Super Fine for 6 months, then Adult Lifetime Fine or Super Fine.

**Recommended Supplements:** Power Treats (crushed) or AViX Sunshine Factor.



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## COCKATOOS

Behaviorally, cockatoos have a tendency toward aggression and feather picking; however, these characteristics can be reduced by several factors: feeding Harrison's exclusively without the addition of seeds, nuts and table foods, choosing parents that are selectively bred for their calm nature, and parent-raising the chicks.

Large cockatoo species (e.g., umbrella, Moluccan, sulphur-crested) need extra high quality fat in the diet occasionally (Certified organic red plum oil - available in Power Treats and AViX Sunshine Factor).

Cockatoos are appreciated as companion birds because they enjoy "cuddling." Cockatoos are like small children - they can be charming and may try to "steal the show." Care must be taken to avoid spoiling these birds. Cockatoos have some capacity to mimic but their voice is not as clear as other parrots.

**Recommended Harrison's Formula for Cockatoo Chicks:**  
Juvenile Hand-feeding.

**Recommended Harrison's Formula for Adult Cockatoos:**  
High Potency Coarse.

**Recommended Supplements:** Power Treats or AViX Sunshine Factor.





## CONURES, PIONUS, MEYER'S PARROTS, CAIQUES, SENEGAL PARROTS, LOVEBIRDS and INDIAN RING-NECKED PARAKEETS

In addition to African greys, small macaws and small cockatoos, the above species are usually satisfactory as companion birds for families. They are less noisy and messy and are often much less demanding than the larger species.

The health disorders usually seen in these species, e.g., obesity, fatty tumors, xanthomas, reproductive and feather problems, are not commonly seen in birds fed Harrison's.

Conures are playful and easily amused with simple toys. They often lay on their backs and chew at their toes or may play hide-and-seek with a towel or brown bag in their enclosure. Because they love to chew, any toys must be free of toxic metals, hooks, sharp objects or small, easily consumed components.

**Recommended Harrison's Formula for Chicks:** Neonate Formula for the first three weeks of life, then Juvenile Formula for faster weight gain and reduced numbers of feedings daily.

**Recommended Harrison's Formula for Adults:** High Potency Formula for 6 months followed by Adult Lifetime.

**Recommended Supplements:** Power Treats or AVix Sunshine Factor.



## DOVES and PIGEONS

Doves and pigeons fed traditional grain seed and bean diets have a shortened life and are often plagued with many of the problems seen in other birds on seed diets. When fed Harrison's, these birds live a long and healthy life.

For breeding birds reluctant to change eating habits, coat the grain seeds and beans with Juvenile Hand-feeding Formula mixed with an equal volume of yogurt. Racers and show birds have exhibited major physical and health improvements following this technique.

**Recommended Harrison's Formula for Adult Doves and Pigeons:** High Potency Fine or Super Fine for 6 months followed by Adult Lifetime Fine.

**Recommended Supplements:** AVix Sunshine Factor.



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## LORIES

There are many "lory diets" or nectars on the market that are not safe to feed long term. Many are too high in vitamin A (often containing toxic levels) and are deficient in many other nutrients needed by lories.

The primary disorders traditionally seen in lories, including obesity, liver malfunction, fatty tumors, bone disorders, respiratory diseases, and fungal and yeast infection, are significantly reduced when the birds are fed Harrison's. In addition, the low levels of iron in Harrison's formulations reduce the risk of iron storage disease, to which lories are particularly prone.

Lories are brilliantly colored, playful birds with extroverted personalities and entertaining antics. Due to their curious nature, these birds are often subject to traumatic injuries in captivity. Although they have limited talking ability, they can be noisy, making a variety of high-pitched sounds.

### **Recommended Harrison's Formula for Lorie Chicks:**

Neonate Formula for the first three weeks of life, then Juvenile Formula for faster weight gain and reduced numbers of feedings daily.

### **Recommended Harrison's Formula for Adult Lories:**

High Potency Formula for 6 months followed by Adult Lifetime. Soak the formula in 2 Tbs water and ½ tsp corn syrup.

**Recommended Supplements:** Power Treats (soaked) or AVIX Sunshine Factor.



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## MACAWS

Macaws fed Harrison's are usually problem free, living a maximum life expectancy. Commonly reported problems in the veterinary literature, such as reproductive and feather problems in adults or digestive disorders, bacterial, fungal, bone and beak problems in babies, are usually not seen in macaws fed Harrison's.

Some of the larger species like Hyacinths may need extra oils, as derived from two large walnuts or a dose of Sunshine Factor daily.

Macaws require a great deal of attention and living space. Blue and Gold Macaws have a mischievous nature and are the most family - oriented macaw species, even though they may be nervous around strangers. Although Scarlet Macaws tend to bond with an individual person, they can be untrustworthy and nippy with anyone. Green - winged Macaws are less intimidating and calmer but can be very loud. Macaws have limited ability to mimic words. Their vocalizations are expressed primarily as loud shrieks and squawks, especially in the early morning and late afternoon.

### **Recommended Harrison's Formula for Macaw Chicks:**

Juvenile Hand-feeding.

### **Recommended Harrison's Formula for Adult Macaws:**

High Potency Coarse.

**Recommended Supplements:** Power Treats or AVIX Sunshine Factor.



## MONK or QUAKER PARAKEET

The common problems in monk parakeets of obesity, fatty tumors, xanthomas, and reproductive and feather disorders are usually not seen in birds fed Harrison's.

Quakers are considered to be one of the best talkers, with extraordinary ability to mimic and speak with cognition. Hand-fed domestic Quakers often rival African greys in their ability to acquire huge vocabularies, and sometimes will repeat words before they are even weaned.

The behavioral characteristics of Quaker parakeets can run the gamut from aggressive, biting, noisy and obnoxious to charming, comical, cuddly and engaging. The difference is in how they are raised and trained.

**Recommended Harrison's Formula for Quaker Chicks:**  
*Neonate Formula for the first three weeks of life then Juvenile Formula for faster weight gain and fewer feedings.*

**Recommended Harrison's Formula for Adult Quakers:**  
*High Potency Fine for 6 months, then Adult Lifetime Fine.*



## TOUCANS, MYNAHS and STARLINGS

The common problems of obesity, fatty tumors, xanthomas, reproductive and feather problems are usually totally avoided when these birds are fed Harrison's. In addition, the low levels of iron in Harrison's formulations reduce the risk of iron storage disease, to which toucans and mynahs are particularly prone.

**Recommended Harrison's Formula for Toucan Chicks:**  
*Neonate Formula for the first three weeks of life, then Juvenile Formula for faster weight gain and fewer feedings per day.*

**Recommend Harrison's Formula for Adult Toucans:** *High Potency Coarse or Fine for 6 months followed by Adult Lifetime Coarse or Fine thereafter.*

# **WEIGHT GAIN CHART** (IN GRAMS) OF SPECIFIC HAND-RAISED PSITTACINE BIRDS AND NORMAL ADULTS

AGE (in days)	7	21	42	Adult
Cockatiel	12-14	72-108	80-95	90-110
Golden Conure	12-23	30-100	125-270	262
Green-checked Amazon Parrot	30-50	200-250	290-350	360
Lilac-crowned Amazon Parrot	25-35	160-240	310-350	360
Blue-fronted Amazon Parrot	35-60	240-280	380-440	432
Yellow-headed Amazon Parrot	25-50	140-300	310-560	568
Yellow-crowned Amazon Parrot	25-55	175-260	400-480	500
Yellow-naped Amazon Parrot	28-75	170-360	500-650	596
Eclectus	23-60	110-240	300-450	432
African Grey	25-40	135-250	380-470	554
Red-vented Cockatoo	25-30	145-200	275-350	298
Citron-crested Cockatoo	26-84	148-265	319-445	357
Bare-eyed Cockatoo	18-70	99-308	283-410	375
Goffins Cockatoo	20-45	125-240	250-350	255
Lesser Sulfur-crested Cockatoo	25-60	140-250	315-380	450
Rose-breasted Cockatoo	15-40	70-200	220-400	403
Medium Sulfur-crested Cockatoo	35-70	160-250	400-525	465
Major Mitchell's Cockatoo	25-55	140-220	290-450	423
Umbrella Cockatoo	25-55	170-300	450-600	577
Triton Cockatoo	30-70	200-325	450-750	643
Moluccan Cockatoo	35-55	190-300	600-750	853
Greater Sulfur-crested Cockatoo	35-80	220-330	500-725	843
Yellow-collared Macaw	25-35	110-160	250-290	250
Red-fronted Macaw	25-45	140-250	405-530	490
Caninde Macaw	30-45	165-250	520-725	752
Military Macaw	35-170	220-425	600-950	925
Scarlet Macaw	40-65	200-400	720-1050	1001
Blue and Gold Macaw	40-100	200-450	670-1100	1039
Green-winged Macaw	45-80	225-450	830-1030	1194
Buffon's Macaw	40-70	250-500	850-1100	1290
Hyacinth Macaw	45-75	250-400	800-1000	1355

Weight ranges were derived from the weight gain records of birds hand raised from hatching to weaning. They are provided as suggested ranges only, as growth of an individual chick is dependant on hatch weight, body structure, sex, diet, and feeding and husbandry practices.

Comparison of data from two successful nurseries has indicated that birds with widely divergent body weights can successfully wean. Birds in the lower end of the weight range are more prone to stunting and should be carefully observed. Birds in the upper end of the weight range may shed excess weight at weaning. Data from this table should be combined with observation of the conformation and physical condition of the chick before deciding if an individual is stunted in growth.

Table taken from Avian Medicine: Principles and Application.





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