

# Study Identifies Spread of Bee Disease Via Flowers

Cornell Chronicle

One in 11 flowers carries disease-causing parasites known to contribute to bee declines, according to a Cornell study that identifies how flowers act as hubs for transmitting diseases to bees and other pollinators.

The study, published July 20 in *Nature Ecology and Evolution*, also found that one in eight individual bees had at least one parasite.

The study was conducted in field sites in upstate New York, where the researchers screened 2,624 flowers from 89 species and 2,672 bees from 110 species for bee parasites through an entire growing season. They used molecular data to identify five common protozoan (free-living, single-celled) and fungal parasites.

"We know very little about transmission of these diseases," said senior author Scott McArt, assistant professor of entomology in the College of Agriculture and Life Sciences. "Our study shows that transmission can likely occur on a lot of different flowers, and the amount of disease in a community is shaped by both the floral community and the bee community."

The researchers found three main factors – flower abundance, numbers of social bees and bee diversity – played roles in disease transmission.

As the season progresses, the number of flowers goes up. For example, in the fall, flower-laden goldenrod dominates many New York fields. At the same time, the proportion of flowers with parasites goes down, lowering the risk that a bee will pick up a parasite when it visits a flower.

"That has really important conservation implications, because if you want to limit disease spread, just plant a lot of flowers," said McArt, adding that planting flowers



also provides food for pollinators. "It's a win-win: If we plant flowers and create a lot of forage, we can also dilute disease."

The study revealed that social bees, such as honeybees and bumblebees, were more likely to be infected with parasites than solitary bee species.

The researchers found that later in the season, the number of social bees increases, while bee diversity overall decreases.

And as a general rule, diversity of species lowers the spread of disease.

"Both bee diversity and fewer of the social bees make it less likely for bees [overall] to be infected. That's another win for conservation: if we promote bee diversity, there will be less disease," McArt said. High

numbers of infections in the social species may also spill over to infect other species, he said.

Future studies will try to determine whether increased flower abundance cancels out the negative effects of increased numbers of social bees combined with lower overall bee diversity later in the summer.

More study is also needed to understand why social bees are so susceptible to parasites, whether they lack defenses and if they are sharing disease in close colony quarters.

To gather data over the course of a season, a six-member team observed bees visiting flowers, then sampled those flowers, caught the bees and sampled them for parasites.

"The flowers were relatively easy to identify; the hard part was identifying all those bees" out of hundreds of native wild species, McArt said. Samples were brought back to the lab, where the team used a method called polymerase chain reaction to identify the presence of parasites, all of which have been linked to bee declines.

The research is funded through a five year, \$2.2 million National Institutes of Health grant to understand the spread of pathogens that infect bees.

Peter Graystock, a former postdoctoral researcher, and Wee Hao Ng, a postdoctoral researcher, both in McArt's lab, are co-first authors of the study. Paige Muñiz, McArt's lab manager and an expert bee taxonomist, is a co-author.

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PARTS for John Deere 350c wide track dozer. Extension axle for wide track only. Goes between sprocket and final drive flange. 315-691-3514

## VEHICLES/RV/BOAT/TOW TRAILERS

1982 FORD 700 with Detroit V-6 diesel, 26,664 original miles, 5 speed; Chelsea PTO with dump body; pusher axle never used; needs brake and light work. \$1000 Schaghticoke NY 518-753-4402

2000 Freightliner FL70 Dump Body, 14,000 original miles, Cummins 5.9 diesel, 6 speed, air brakes, ex.cond. \$20,000. 914-949-4100 or [GFN870@aol.com](mailto:GFN870@aol.com).

1991 FORD diesel truck Model

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LN8000 with 26 ft. steel roll-back equipment hauler, will fit 12 grape bins. 561-718-4247

2002 PT Cruiser. Rebuilt motor with 74,000 miles. Nice little car. \$3200 OBO. 716-532-4930

1988 Ford F800 20ft flat rack with twin cylinder scissor hoist, grain sides and gravel sides. 3208 Cat engine, air brakes, 70k miles. \$6500 obo. 585-752-7063

## EQUINE

WESTERN CHAPTER NYS Horse Council. Serving the equine community in WNY. [www.wcnyshc.org](http://www.wcnyshc.org). 716-941-9120.

NYS Horse Council "To create a strong unified voice for all interests toward the preservation of a future for horses in New York State". Celebrating 50 years, established 1968!. [www.nyshc.org](http://www.nyshc.org).

A HORSE DRAWN AFFAIR/BROE FARM home of Rosevale Leggo. 16.2 black morgan stallion standing at stud. Boarding ,lessons, training, dressage, driving ,hunters, Sales 518-329-5249

BE ONE with your horse. All ages, levels, disciplines, horse types. Natural horsemanship training for you and your horse. Expert instruction. 518-605-4880 or [iamequineempowered@gmail.com](mailto:iamequineempowered@gmail.com).

COME JOIN OR WATCH our reining shows and clinics: Details and dates on CNYRHA.com see us on Facebook.

## BOARDING/LESSONS

AERING GREEN EQUESTRIAN CENTER. Schodack, NY is a full service dressage and event facility. Offering board, training, lessons on our well-trained horses and day camp. With indoor and Olympic size outdoor and ample turnout, our horse are spoiled year round! Laura Fay at 518-429-6825 or [www.aeringgreen.com](http://www.aeringgreen.com).

HORSE BOARDING: Aubrey House Farm in Copake, NY offers indoor and outdoor arenas, trails, ample turn-out, various boarding options and 24-hr supervision. 518-325-1287

DUTCH MANOR STABLE – Since 1967. Where quality board, training & instruction are a Capital District tradition. Large heated indoor and outdoor riding arenas. USHJA certified instruction. 518-456-5010 [www.dmstable.com](http://www.dmstable.com)

AFTER HOURS FARM, Clifton Park NY. Specializing in "TLC" horse boarding, superior English riding lessons and training. Indoor and outdoor rings. Horse shows and clinics. (518)384-6441.

QUALITY STABLES. Quality care for boarding and training horses. Large lesson program for all ages. Visitors welcome. Oneonta, NY 607-432-8977. [www.qualitystables.com](http://www.qualitystables.com).

LUKENS STABLES – nationally known trainers of American Saddlebreds, Hackneys – road horses. Also boarding for retirees & broodmares. Excellent run-in

facility, lessons by appointment. RAVENA, NY. 518-756-9777

ISLAND HILLS STABLE for all your equestrian needs. Boarding-training, we specialize in lay-ups also have a selection of horses & ponies for sale or lease. Excellent turnouts with 24 hr care, large matted stalls fully bedded, large indoor & 3 large outdoor lighted rings. Lessons for all levels, Clinics, USEF rated horseshows year round. [islandhills@optonline.net](mailto:islandhills@optonline.net) or 631-924-4046

RETIRED horse boarding. Binghamton area. Custom care. 12x12 stalls, turnout with sheds, pasture. Specializing in nutritional problems related to age and illness. References upon request. 30 yrs experience. [www.equine-retirement.com](http://www.equine-retirement.com) or 607-639-2409

HORSES BOARDED: Room for 2. Run-in/Stalls and pasture. Retired or in work. Outdoor arena and trails. Three Seasons Farm, Treadwell, NY 607-829-6678

UPHILL DRESASAGE CENTER. Full service boarding/training available at established dressage stable in Dutchess County, NY. All the bells and whistles! Trainers on premises or bring your own. Elisabeth 914-450-0413

## EQUIDS FOR SALE

AMERICAN SADDLEBRED youngsters for sale. All impeccably bred for show and breeding. Priced to sell. Contact Brian Ferguson, Valleyfield Farm, Victor, NY. 585-766-3323 or [www.valleyfieldfarm.net](http://www.valleyfieldfarm.net).

ARABIANS AND HALF-ARABIANS for sale! Well mannered, family friendly Sugar Hill Farm show horses bred here and started under saddle. Betsy Kubiak 585-924-8240 or visit Victor, NY. [info@sugarhillarabians.com](mailto:info@sugarhillarabians.com). [www.sugarhillarabians.com](http://www.sugarhillarabians.com).

REGISTERED Haflinger Stud colt. Parents on site. Deposit holds until weaned. Rensselaer County, NY. 518-431-9789

## LIVESTOCK TRAILERS/TRANSPORTATION

LUKENS HORSE Transportation. Providing the best care for your horse for over 25 years. Weekly trips from the Northeast to Kentucky. Give us a call! 1-800-621-1225 or [www.horsetransport.com](http://www.horsetransport.com).

ELITE 3 HORSE 2014 slant goose neck aluminum trailer, all the options custom ordered & designed. Like new, less than 3,000 miles. Cost \$52,200. A bargain at \$34,000 315-708-3200

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HOUGHTON JOG CART. Excellent condition. Wood shafts. Includes leather full size horse harness hames and reins. Also includes cart cover for travel and seat cover. \$2400. 518-793-4507

AMISH BUILT Raben Single Horse cart. Blue with white stripes. Exc. Cond. 40yrs old. Used 3 times and then stored inside ever since. \$1500 firm. 315-688-2964

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## LIVESTOCK

UNWANTED animals taken for petting farm. Livestock, Exotics, overstock, Mammals, birds, fish, reptiles. Christian Victory Farms call/text Dave – livestock manager 716-336-6969

CATTLE oilers & Cattle Scratcher, have brushes and parts in stock. 585-267-6307 or [ronferris@rochester.rr.com](mailto:ronferris@rochester.rr.com).

## CATTLE/BOVINE

REGISTERED Hereford breeding stock and Black Baldies since 1967. Straight Hereford and Angusimi bulls ready for duty. "Put Heterozygous Vigor into your program", it pays!. ABC Ranch. 607-324-2286

TWO registered black Belted Galloway heifers dob 5-26-18 and 6-30-18 Carol Kellish 315-677-3332

REGISTERED Black Belted Galloway Cattle. Cows, Heifers, Steers and Bulls. Gail Parsons/Parsons Farm. 607-849-7810 or [gail.parsons@frontier.com](mailto:gail.parsons@frontier.com).

BULL FOR SALE OR LEASE: White Faced polled Hereford. 2 years old. Also, have professionally processed beef and pork for sale. Warwick, NY 914-447-8882

AMERICAN MILKING DEVONS – Registered breeding stock and oxen candidates available. Triple purpose breed: Milk-Beef-Draft. Excellent genetics. Bardwell Farms, Remsen, NY 315-831-5838 or

REGISTERED Polled Hereford Heifers. Feminine, fancy and functional. Sires include R. Leader, KT Built Tuff and Walkers Captain. John Kriese 315-595-6198 or 315-856-0234 [Hereford@frontiernet.net](mailto:Hereford@frontiernet.net).

FOR SALE. ELK Cows. Need to downsize. Call for pricing; 518-578-0135

SAVE THE DATE!! 2nd annual Northeast Elite Hereford Sale, Saturday, September 12, 2020, Noon. Hosted by Trowbridge Farms, Ghent, NY. 30 Cow/Calf pairs, 30 bred & open Heifers and Show Steers. 518-945-2638 or 716-860-0842

REG. Black Angus Bull. Owned three years, never had an open cow. \$3000 obo. Willing to truck. John at 518-231-8087 or [centralbridgefarms@yahoo.com](mailto:centralbridgefarms@yahoo.com).

PUREBRED IRISH DEXTERS. Various ages including cows and a mature bull. Registration & transfers available for additional charge. Call or text 315-767-4098

SimAngus herd reduction: Cow/

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HOLSTEIN BRED HEIFERS for sale. 3 due in June, 10 Oct-Dec. DHIA heifer records available. Also cropping equipment. Call or email. 607-652-7759 or [bedfordrlk@gmail.com](mailto:bedfordrlk@gmail.com)

CUSTOM GRAZING offered \$.90/day or \$.60/lb. 1-3 day rotation. Will take 20-30 head, 500-700 lb average weight. Must be vaccinated minimum 3 weeks prior to arrival. Cattle owner supplies mineral, pays for veterinary supplies. Ontario County. 607-227-6320 [woodedacrefarm@gmail.com](mailto:woodedacrefarm@gmail.com).

EFFICIENT transitional heifer boarding facility in the Finger Lakes have vacancy for new client contract immediately space available for 280 head. Contact Josh at Welblest Farms 585-203-4879

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BABY Lambs and goats and baled hay available all year long. Mike 845-434-7764

WHITE DORPER SHEEP shedding, no shearing needed, and KIKO GOATS, pasture-raised without any grain, hoof rot free. [www.whitecloversheepfarm.com](http://www.whitecloversheepfarm.com), Email [ulf@whitecloversheepfarm.com](mailto:ulf@whitecloversheepfarm.com). Phone 585-554-3313

PUREBRED KIKO Performance Bucks. Excellent bloodlines from Dr. Ann Pieschel. Goats Unlimited. Healthy and hardy bucks of various ages and colors from a closed herd. Upgrade your kiko herd or add hybrid vigor to other breeds with the Kiko Advantage for \$600. Ask about our started packages! [www.Roll-n-HillsRanch.com](http://www.Roll-n-HillsRanch.com) or Ken at 607-760-5660. Johnson City, NY.

REGISTERED NIGERIAN Dwarf dairy goats – small and easy to handle. breeding stock, ideal for personal milk supply, 4-H projects, Can pull carts or be a pack animal. Does and bucks available. Shots-wormed- Downsizing herd. Binghamton area, call evenings 607-693-2682

WHITE and Colored Leicester Longwools, CVM Romedales and Colored Angora Goat registered breeding stock for sale. Raw and processed fibers, classes, spring/fall open house. Lochan More Farm on Facebook. 315-277-0104

7 REGISTERED HEAVILY MUSCLES TEXEL RAM & EWE LAMBS. 1 Yearling Ram. Registered Texel twins and triplets. DOB 2019 and Feb 2020. Texels are a very heavily muscled meat breed, improve carcass quality & offspring. All vet checked. Scrapies resistant, OPP & CL free, no foot-rot. Very clean Flock. Texels are parasitically resistant, and excel on just grass, no grain needed. 518-853-3678 [hilltopacresfarmny@gmail.com](mailto:hilltopacresfarmny@gmail.com).

PUREBRED DORPER Rams, Commercial and Registered. All from great bloodlines and will

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be an excellent addition to your flock. Kristin at 315-868-2880 or [k\\_updike@yahoo.com](mailto:k_updike@yahoo.com).

**FIVE** Ram lambs born in April. Texel-Chevoit cross. \$100 each. Big Valley calf table squeeze chute \$400. 518-694-1891

**REGISTERED OBERHASLI** Dairy Goats. Excellent bloodlines. Herd is DHI tested and appraised. Easy to handle, great 4H and/or show prospects. Calm, sweet, medium sized breed. 607-336-1662 Norwich, NY [www.halfbarnfarm.weebly.com](http://www.halfbarnfarm.weebly.com).

## SWINE

**PUREBRED** Berkshire Boars for sale. 6 breeding age, purebred boars, 250lbs plus, ready to go. Thick, heavily muscled. Steve 315-313-2013, please leave message.

**7 PIGLETS.** 4 barrows and 2 gilts. By a good show boar and out of a nice show sow. Ear notched, dewormed and castrated. They will make great 1st show pigs or brood sows. Call/text 315-264-0906

## WORKING/LIVESTOCK DOGS

**AKBASH** Livestock Guardian dogs: We sleep at night because they don't! Experienced dogs and pups available, working sheep, goats and alpacas. Breeder support for all owners. Springside Farm. 315-683-5860

## POULTRY/FOWL

**WANTED** Live, wild pigeons. 607-426-9908. Please leave message.

## ALPACAS/LLAMAS/CAMELIDS

**LLAMAS** – we offer animals that can fill a variety of purposes; a loveable companion, show animal, pack, guard, or a source of exquisite fiber. [www.dakotaridgefarm.com](http://www.dakotaridgefarm.com), [llamawhisp@aol.com](mailto:llamawhisp@aol.com). Ballston Spa, NY.

**HIDDEN ALPACA FARM**, Horseheads, NY., has fiber alpaca male & female huacayas for sale. 607-727-8511. Come visit the farm or view pics, descriptions and lineage at [www.hiddenalpacafarm.com](http://www.hiddenalpacafarm.com).

**INTERESTED** in owning your own herd sires? Great genetics, including Polaris, Dorian, Lancaster and also a Peruvian Hallmark grandson. Will negotiate. 518-497-6009 or 518-368-9594

**NEED TO RE-HOME** 1 Alpaca, 7 – 8 years old and 2 Dexter Steers, 9 to 10 years old. Looking for Pet Farm or Farm Stay location. Allegany Co. Will need own transport. 607-478-5491

**CABIN VIEW ALPACAS.** We have award winning, top genetic alpacas available. Starter Packages, Foundation Females, Fiber boys and/or package and Herdsires. [info@cabinviewalpacas.com](mailto:info@cabinviewalpacas.com), 607-279-3567 or visit [www.cabinviewalpacas.com](http://www.cabinviewalpacas.com).

## FORESTRY

**LOCUST POSTS**, poles, up to 30ft. Authentic locust split rails, posts. Sawn lumber 4x4, 6x6, 1x6 ect. 8-16ft

oak \* cherry 1x4, 1x6 other sizes and species available. Buy standing locust and log length locust. Tom 518-883-8284 leave message.

**RED OAK BOARDS** – 1" thick, rough cut, 6', 8' and 10" width by 8 to 10ft long. Hand hewn beams 8-10" width by 10-20ft long. 518-864-5741

**BARK MULCH**, Treated Ties, Stone pallets, stock and made to order; Rough cut Pine and Hemlock lumber stock and cut to order. Air dried specialty lumber; Curly, Wormy, Butternut, etc. Buying logs and standing timber Cannonsville Lumber, Inc. 607-467-3380 or [lobodrjjm@tds.net](mailto:lobodrjjm@tds.net).

**THE WAGNER COMPANIES.** Purchasers of hardwood logs, standing timber and forest lands. Forest Management & Timber Appraisals by Certified Foresters. Seven locations from Allegany to Boonville, The Wagner Companies procurement department has a certified forester or log buyer ready to serve you. [www.wagnerlumber.com](http://www.wagnerlumber.com). 607-687-5362

**ASH LOGS & FIREWOOD** for sale. Hundreds of freshly fallen & stacked trees, some still standing. We can load. 585-637-9632 leave message.

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**STEP BACK** into the 19th century at Raked South Garden Bed and Breakfast. See the orchard in season from your 2nd floor room. Call Dottie at 315-589-8012

**A HIDDEN** oasis, not visible from the road, Saint Hubert's Lodge & Club is unlike any other Bed and Breakfast in the Hudson River Valley, Reserve your overnight stay today! [Sainthubertslodge.com](http://Sainthubertslodge.com) or 845-795-0037

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**HANDCRAFTED SPIRITS** from our family farm distillery make great holiday gifts! Free tours and tastings every weekend afternoon year-round at Old Home Distillers Co., 964 Campbell Road, Lebanon, NY 13332. 315-837-4123 or visit [www.oldhomedistillers.com](http://www.oldhomedistillers.com)

**DRAGONFYRE DISTILLERY**, Tours, Tasting Room and Gift Shoppe. Premium Artisan Whiskies in Very Small Batches. 1062 Leonard Road, Marathon, NY Route 221 East. [Dragonfyredistillery.com](http://Dragonfyredistillery.com) 607-849-9600. Hours: Sat 11-6, Sun 12-5 or call for an appointment.

**BLACK BUTTON** Distilling is pleased to offer all NY Farm Bureau Members FREE Spirits Tasting and Factory Tour at our Rochester Distillery and Tasting Room; \$5 off any 750ml bottle of spirits purchased and the Room Fee waived for any events held at our Tasting rooms. Please stop in and see what NY Farmed spirits are all about. 85 Railroad Street, Rochester NY 14609 585-730-4512 or [www.SevenFifty.com/BlackButton](http://www.SevenFifty.com/BlackButton).

**SPIRITS!** Stop into Four Fights Distilling in Corning, NY. Open Thur-Sun. Check out our website

at [www.fourfightsdistilling.com](http://www.fourfightsdistilling.com). Located at 363 E. Market Street, Extension. Corning, NY 14830 Bourbon, Gin, Vodka, and more!

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**RUSTIC WEDDING VENUE.** Located in Plattsburgh, NY – Elfs Farm and Cider House offers a unique and captivating setting for your ceremony, reception and photographs. Email [events@elfsfarm.com](mailto:events@elfsfarm.com) or 518-563-2750

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**BATTENKILL** Valley Farms, Cambridge, NY. We are launching a 100 plus vendor Farmer's Market and Craft Fair (Saturdays Only) Spring 2020. You can find the application at [www.battenkillvalleyfarms.com](http://www.battenkillvalleyfarms.com).

## SUPPLIES

### PESTICIDES

**PESTICIDES** – Springwater Ag Products. 8663 Strutt St. Wayland, NY. Helping farmers save since 2004. Farm tested with farm-friendly prices. Please call for a quote. Dave at 585-315-1094 or Penny at 607-759-0405

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"SLIPIT general purpose lubricants. Use in USDA inspected facilities. FDA food grade for incidental food contact. Made in the Hudson Valley New York, Please try some. [www.slipit.com/shop.html](http://www.slipit.com/shop.html); 845-778-7219"

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**IRRIGATION PUMP** and pipe. 8"-30'-60; 4"-30'-31; 3"-30'-30; 2"-30-8; 2"-20-15. 125hp JD with Berkly pump. 607-687-2874

**FARM EQUIPMENT** 9000 +/- wooden 20bu bins \$20/ea (quantity disc.); picking buckets \$40/ea; ladders 14' \$85/ea, 16' \$95/ea; irrigation pipe 30' tico, 20' tico/wade rain. Robert at 845-629-1452

**GREEN SCAPES** Inc. Bulk rock salt, treated rock salt, liquid De0Icer, bagged salt products, manufactured soil, CU-Soil, Bio Retention Soil, bulk mulch and more. 315-469-0007 or [www.greenscapesonline.com](http://www.greenscapesonline.com).

**SUPPLIES** – Bunk Covers, Oxygen Barrier, Bale Wrap, Bags, Silage Inoculant, Propionic Acid and from Canada – Quality Alfalfa and Grass seed. 716-485-6454

**PAILS** – 2400 Four Gallon, clean,

white, food grade, plastic pails with lids. 8 1/2 x 8 1/2 x 13" tall. \$2 each. Boekhout Farms, Ontario, NY 14519 315-524-4041

**FARM MARKET PACKAGING.** Peck Baskets, fiber quarts, corrugated & waxed boxes, poly & t-shirt bags, plastic & paper tote bags. 4544 Route 104, Williamson, NY 14589 [www.EmpireDripSupply.com](http://www.EmpireDripSupply.com). 315-812-1871

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**STOP FYRE** Fire Extinguishers. Ake.com. Statt's Response Kit LLC. An independent authorized dealer. 26 Church Street. Honeoye, NY 14471. The ONLY NYS dealer! 585-489-9408 or [toddstatt@hotmail.com](mailto:toddstatt@hotmail.com).

**NEW PRO-AGRICULTURE THEMED GIFTS.** Mugs, cell phone cases, mouse pads, humorous tees, kid's tees, etc by farmers, for farmers. Visit [www.AGtiveWear.com](http://www.AGtiveWear.com) Be an advocate. Wear your pride!

**FARMSTEAD CHEESE: HOLIDAY GIFT BOXES.** We milk 20 cows to produce our cheeses in the Adirondacks. This year we are shipping boxes across the US! The options are at [www.northcountrycreamery.com](http://www.northcountrycreamery.com) under the Purchase tab.

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## HONEY BEES

**RAW HONEY** – by the pail or case.

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60lb pail \$160, 24lb pail \$64, 12lb pail \$36. 5lb case (6 jars) \$115, 1lb case (12 jars) \$46. Call for shipping costs. Ford's Honey Farm 1883 Castle Road. Newport, NY 13416. 315-891-3339

**HONEY.** Raw, Wildflower in 1lb., 2lb. & 5lb. jars. Also in 1/2 lb jars as gifts. Medium amber, not filtered, by the ESHPA 2017 Beekeeper-of-the-Year. Albany area. 518-861-8020 or stephenwilson282@gmail.com.

**HONEY:** light basswood, clover, knapweed mix in 60ld. Pail \$185 heated or raw. Beeswax \$6/lb. Four frame mite resistant spring nucs \$125. johnstonsbees@hotmail.com.

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**HAZELNUT AND CHESTNUT** Trees for sale. Grown in zone 5a, Cortland, NY. Enjoy your own nut trees for commercial orchard, home planting or erosion control. [www.znutty.com](http://www.znutty.com) or 607-756-4409

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**FORAGE AND TURF GRASS** Seed - straights and blends, bluegrass, ryegrass, clovers, timothy, fescues, cover crops, winter ryes, wheat, peas & oats, pasture, graze, wildlife mixes and many more. Bulk vegetables and Flower Seed. Page Seeds. 607-656-4107

**QUALITY FRESH GARLIC.** For fine culinary use & select seed. No herbicides/pesticides used. German white & red available. Will ship. 518-827-4544 or [sammonsgarlic@gmail.com](mailto:sammonsgarlic@gmail.com).

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**GRAINS.** Whole corn \$10; Ground corn \$11; Wheat \$10; Clean Oats \$15. Prices are per 100 pounds. 716-984-8088

**GARLIC for sale.** Music, Northern German White, Softneck, Elephant, Siberian, German Red & more. 4 Guys Garlic. Certified Organic. 585-638-6461

**GARLIC.** German White, exceptional size. Seed \$9/lb; over 10lbs is \$8/lb. Eating \$6/lb. 716-523-9951

**ORNAMENTAL TREES** - Norway Spruce. All sizes - well sheared and shaped. You dig - we dig. Reasonably priced. 607-753-0497

**CANNA LILY TUBERS** (roots) quantities available. Call 607-760-1636. Whitney Point, NY.

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**STEAM FLAKED CORN.** Bags-SuperSacks-Bulk. Picked up or delivered. Call Allie 716-992-1111

**TIMOTHY SEED** for sale. Good and clean \$40/bushel; \$35/bushel for 10 bushels or more. Also medium red clover seed, good and clean \$90/bushel. 315-536-8848

**CBD HEMP.** Berry Blossom/Cherry Blossom/Merlot - Feminized Seedlings and Seed available for 2020 planting season. Wessels Farm - Otisville, NY 845-386-5681

**LOOKING** for spent grain? Call Red Hawk Brewing at 315-491-5158

## AG LIME / FERTILIZER

**POULTRY MANURE.** \$10/yard. Pick up or delivery. Analysis available. 845-482-5464 Dan.

**PREPARE** your garden this spring. Research the benefits of alpaca fertilizer. By the truck load or 5 gallon pail. 607-546-5717 Burdett, NY

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**SAWDUST** \$10/yard @ the Mill. 607-687-1539 Robinson Lumber LLC, Owego, NY.

**SAWDUST** Delivered or Picked Up. LJ Valente Inc. Greater Albany area. Located in Averill Park. 518-674-3750

**ANIMAL BEDDING.** \$12.50/yard p/u. Reusable bags available \$5.50. Delivery available based on amount and location. Averill Park. 518-256-8262 or [bcffarms157@gmail.com](mailto:bcffarms157@gmail.com).

## REAL ESTATE

**MIDDLEBURGH NY** 539 acres bordering State land. 4 bed, 2 bath home has large kitchen/eating area. Ideal for large family/hunting club. Abundant deer, bear and turkey. \$799,000 includes 2 tractors full line of tillage, planting equipment. Country Boy Realty 518-231-2120 or [haroldloder@gmail.com](mailto:haroldloder@gmail.com).

**BEAUTIFUL** well-established Apple Orchard in Mexico, NY. Continuously working orchard in CNY began in the 1920's as Minckler & Martin. 85 +/- in acreage, 20 different varieties of apples, large blueberry patch, Country Store, barns, Morton bldg., comes with a large 7 bedroom, 3 1/2 bath house. Handicapped accessibility. \$450,000 negotiable. Morgan Moore 315-963-3486 or [MorganM722@aol.com](mailto:MorganM722@aol.com).

**OPPORTUNITY!** Real Estate in Middleburgh, NY. Commercial/2 Acres (High Visibility/road frontage). Apple orchard/barn/sheds. House (2 bath/3 bedroom) 518-390-0490 call or text.

200+ Acres on immaculate farm/

ranch in Cortland County. Updated 3-bed home with full height stone fireplace, country kitchen and breakfast room. Main barn 35'x96' with additional 30'x40' fully insulated workshop with 14' ceilings. Includes more than 7 buildings on grounds. Mixes of open fields w/ high tensile fencing and a year-round stream. \$699,500. Call Allen to set up showing 607-229-4981. Photos and 4K drone video online at [NYLandForSale.com](http://NYLandForSale.com) MLS#S1220123

425 ACRES tillable mucklands in Steuben-Yates Counties area. Also 40 acres of frontages for sale. Pattern drainage recently. Buildings also available. Contact J&G Squires. 607-664-7787

212 ACRES, meadows, water and a barn w/ the original 1900 5 bedroom updated farmhouse. Peaceful and quiet area of Otsego County. Edmeston School District. Could be certified organic. \$595,000. Call 607-435-3387

**NIAGARA** County Fruit & Vegetable Farm needs generation transfer. Working farm with cherries, peaches, raspberries, strawberries, sweet corn and mixed vegetables. Market, U-pick and wholesale channels. Up to 160 acres, barns, office, cooler, up to three houses, equipment. Prefer to preserve as working farm. 716-622-6588

**CHOICE LOCATION AVAILABLE IN UTICA, NY!** Greenhouse Space for Lease - 50,000 to 750,000 SF Available. 1.2 Million SF Greenhouse Facility for growing which is also approved for the growing and production of Marijuana and hemp is available for lease. Includes all amenities - offices, cafeteria, restrooms, warehouse space, loading docks and workshop. City sewer and excellent water. Heated by clean natural gas. Excellent experienced workforce available locally. COME JOIN US IN UTICA, NY! UticaFacility@BrightwatersFarms.com for details.

**HOUSE/OFFICE TRAILER** Exc. Cond. Two entrances, 3 nice rooms, closet. Electric baseboard heat, Renovated 5 years ago, new drywall, floor, windows, siding and doors. WNY \$14,500 Jack 716-481-9530

**RETAIL GREENHOUSE** complex and florist shop. Three poly houses totaling 6200 sq.ft. on seven acres of land. Includes twelve room house. Near Lake Champlain in Essex County. 518-546-7227

20 YEARS old high-quality greenhouse business located on the eastside of Rochester, NY - minutes to Eastview Mall, Victor, Pittsford and Fairport. Owner will be retiring within the next 5 years. Client base includes retail, wholesale, clubs, municipalities plus a four-year-old growing CSA membership. 22,000 sq.ft undercover plus 10 acres of vegetable land. Total acres of the property is 65.9 acres. City water, electric, elevated natural gas, cable and phone on site. Includes a 30x40 two story building with a two-bedroom, 1.5 bath living space above. ICF foundation construction

with radiant floor heating. Also, property has world class deer and turkey hunting in your back yard for the hunters. Property can easily be converted to a Cannabis, Hydroponic, Farm Winery, or Farm Brewery. \$450,000. 585-944-7418

**GENESEO-LIVINGSTON** County mini farm for sale. Cape Cod with 3BR, 2 full bath house on 24 acres. 4 stall animal barn with run-in sheds and 3 other large outbuildings. Whole house generator, radon mitigation system and "Dog Watch" underground fencing, water treatment system and HIGH speed internet. \$299k. Serious buyers only! 716-860-8431

**GARDEN CENTER/FLOWER SHOP** for sale. Upstate NY near Lake George/Saratoga area. 20 greenhouses and store on 7.25 acres. Teleflora shop and garden center, includes buildings and equipment. Owner retiring. [whirsch@roadrunner.com](mailto:whirsch@roadrunner.com) or 518-744-2349

**BIG DREAMS..HUGE POTENTIAL.** 42 acres, streams and ponds. 3+ bedroom, 2.5+ bath. Large kitchen, dining room and living room with fireplace. Potential lower apartment. Huge barn with heat, water and office. Areas for animals, storage and sales. 1 hr to Albany, Saratoga and Pittsfield. For sale by owner. \$265,000 All reasonable offers considered. 518-686-7707

**SUCCESSFUL** innovative winery, owners retired. Winery building and contents for sale. Complete fermenting, storage bottling. Super stainless equipment. Bulk wine & mead ready to go. \$325,000. 607-656-9863 or [mamabear@blackbearwinery.com](mailto:mamabear@blackbearwinery.com).

**ESTABLISHED** CNY Christmas Tree Farm = \$\$\$ this year!! Approx 128A, 4br home, rental unit, 2 barns, woodlot, trade equipment & approx. 22,000 marketable trees. Call/Text Faye RE Broker 315-592-1476 or [myfreedomrealestate.com](mailto:myfreedomrealestate.com).

3 STORY one bedroom house with two room addition and fireplace on quiet road with good neighbors in Hillsdale. Much storage room for tools ect. Washer and Dryer included. Contact Drinda at 518-851-7855

**HAY FIELD FOR LEASE.** Hay it or tillable for crops. 35 nice acres +/- . Easy access in Westford NY (Otsego County). \$0 per month, just maintain the property! Organic Certification possible. 973-715-5841

**GOOD** pasture land for rent. Approx. 20 acres in 2 lots. Good fences, shade and water. Madison County For details call 315-824-4413 leave message

**WANTED TO BUY.** Dairy farm (turn-key/transferable milk contract) or just the bare farm with house in St. Lawrence county. 315-276-6914

**CANANDAIGUA, NY** 111 acres, ranch home, 3 bedroom, 2.5 bath, has finished walk-out basement. 13,000 sf pole barn set up for cattle and storage, productive soil. \$729,000. 585-330-7874

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SHOW HORSE CARETAKER and/or Trainer. Housing-utilities and compensation based on skill and experience level. Shows and home. Jan 518-756-9777 or 518-466-5342

CAREER OPPORTUNITIES with Sign on Bonus. CNY's premier design/build firm in landscape construction is hiring. If you love the outdoors and are looking to join a professional company, qualified applicants can contribute & grow with a highly reputable organization. We offer 40+ hours a week, benefits, on the job training & a pay check well above minimum wage. For solid careers & year-end bonuses, go to HSLC.CO and click on the red "we are hiring" button to learn more or call 315-682-5552

SEAWAY RENTAL COPRP offers Full Time mechanic position(s): 40hrs per week - no weekends. Annual salary \$32-\$52,000/yr commensurate with exp. The job(s) offer paid vacation, paid personal days and paid holidays as well as healthcare and retirement programs. Applicants should be able to repair gas or diesel engines and possess a competent ability to troubleshoot electric problems. Mail resume to Seaway Rental Corp 25177 NY State Route #3, Watertown, NY 13601 or email to seawayrental@msn.com.

CUSTOM FARMING Operation in WNY looking for full-time, part-time and seasonal equipment operators and truck drivers for the 2020 season. Call or text 716-474-3739 email stacycorcoran@ymail.com.

JOBS! Class A & B Drivers and Plant Laborers - Requires pre-employment drug screen and clean license. Apply in person at: 8610 Route 237, Stafford at Carolina Eastern - Crocker, LLC.

AHRC NASSAU, has an opportunity for a full-time, year-round, Landscaping Supervisor to oversee our landscaping and greenhouse services across Nassau and Suffolk Counties. Email Rita: rcruz@ahrc.org. 516-546-7700 ext. 4033 EOE.

CAREER OPPORTUNITY. Agriculture lands to lease, share or possible future co-ownership arrangement. I am interested in small family type operations. Someone with modern class and old fashioned work ethics. Currently, lands consist of grass hay

and timber. Recreational activities, hunting and tenant houses, Finger Lakes Region of NYS. Schuyler County. 607-738-1308

## SERVICES

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STEEL & ALUMINUM Truck Bodies. Custom Manufactured by Western Fabrication. Any size. Flat beds, dumps, roll backs, other misc. fabricating. Distributor of Rugby Truck Bodies. 315-827-4008 or fazekasindustries@yahoo.com. Visit us on Facebook. Fazekas Industries in Westernville, NY.

AUCTIONS. Reynolds Auction Co. can help with all asset liquidation including farm, horticulture, commercial, restaurant, vehicles, estates, antiques and real estate. www.reynoldsauction.com for upcoming auctions. 315-597-8815

THE WATERTOWN ANIMAL HOSPITAL in Jefferson County is now accepting new production and pet livestock clients (cattle, goats, sheep, llamas, alpacas, horses). Please contact the office for more details. 315-788-1711

CHERRY VALLEY VETERINARY Associates announces Dr. Erika Osborne joining our practice. We are now accepting new clients in need of large farm animal services. 315-858-2136 Serving Otsego, Delaware and Herkimer Counties.

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## AG CONSULTING/ ENGINEERING

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PATHSTONE'S FARMWORKER Housing Grant for Genesee, Livingston, Wyoming and Ontario Counties is open. Grant of up to \$2,000 to repair/upgrade existing farm labor housing. Contact Susan Lerch at 585-546-3700 x3020 for an application.

EQUUS ADVISORS offers bookkeeping, payroll and tax services to NYS growers, processors, veterinarians and equine businesses through online service and offices in Cortland and Ithaca, NY. 607-275-5700 EquusCPA.com.

## H2A SERVICES

H2A Complete paperwork processing \$1,000 up to 5, \$20 each additional worker. Inquire Micosta Enterprises 518-451-0109 info@h2expressinc.com.

IMMIGRATION ATTORNEY (H2A/H2B Compliance). Handle all aspects of immigration compliance, visa processing, legal consulting, I-9 compliance/audit issues, deportation defense, wage and hour. L.J. D'Arrigo, Harris Beach PLLC 518-701-2770 or ldarrigo@HarrisBeach.com.

## AG & ENGINE REPAIR

TIRES: ALL YOUR TIRE NEEDS! www.FarmersTires.com or 518-712-3394

SEAWAY RENTAL CORP: A Honda dealer for sales & service of generators and pumps. We stock Honda parts and rent equipment for general maintenance. 315-788-4700 or www.seawayrentalcorp.com.

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## SOLAR/WIND ENERGY

WIND/SOLAR sites needed for Community Energy. Looking to lease 30+ acres facing southerly near 3-phase utility circuit. Long term leases paid for property to build projects. Call Chase Wind 1-845-380-2831 or sherretec@gmail.com.

## AG LEGAL SERVICES

NYS Ag & Mediation Program - Looking for a way to manage farm family or farm business conflict? Available every county in NY. Call for free, confidential consultation. 1-866-669-7267. www.nysamp.com.

FINANCIAL & TAX ATTORNEYS serving all WNY counties. Restructuring, settlements, tax solutions, bankruptcy, and other transactions. Free consultations. Michael Weishaar, Esq. Gleichenhaus, Marchese & Weishaar, PC. 716-845-6446 or helpfarms@gmwlawyers.com.

FEELING unprepared for life emergencies? Harris-Pero & Botelho, PLLC in Saratoga Springs, is available to help (remotely) with your estate & business planning legal needs. 518-860-5668 or info@saratogawills.com.

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3 position leather reclining chair with tray, new in the box w/ papers. Moveable with castors. Model 574L by Lumex \$425. 518-731-8880.

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