Are your deadstock piles and disposal costs causing your farm nightmares?

by Jean Bonhotal, Senior Extension Associate, Cornell Waste Management Institute; Ed Staehr, Senior Extension Associate, Applied Economics & Management, Cornell University; and Mary Schwarz, Extension Support Special-ist, Cornell Waste Management Institute

Halloween will soon arrive, and your livestock mortality pile should not be the scariest thing around. "Greasy, Grimy, Gopher Guts!!!" Is that

what you think of when you need to compost live-stock mortality? If you are afraid to open the piles and spread them, you may be doing some-thing wrong and need a few tips or adjustments.

When large and small animals die on a farm, a farmer has only a few options for handling their remains. A farmer may choose to use a rendering service to remove dead stock, however this service may be unavailable or

cost prohibitive. Farmers may also choose to bury animals but that takes time, equipment and cooperative weather conditions. It also puts the carcass 6 feet closer to groundwater. In some states burial has been limited to specific situations or outlawed altogether. Leaving mortality open to the elements to jeopardize the health of domestic livestock. wildlife and pets can affarm biosecurity.

Barring the previous options leaves composting. When done properly mortality composting greatly reduces pathogens and is relatively odor free. Animals of all sizes can be composted year round at a low cost to the farmer. Nutrient manage ment and CAFO plans require farms to account for the disposal of their dead stock. Proper composting can help meet those requirements in a relatively economical manner.

The Cost of Mortality Disposal

Mortality Composting - Burying Cow

Backhoe operating cost	\$45.00
Labor	\$15.00
0.6 gallons of fuel @\$4.15 per gallon	\$2.49
Total Cost	\$62.49

Composting with Wood Chips

5 Cubic Yards Chips @\$5.00 per yard	\$25.00
Labor	\$7.50
0.4 gallons of fuel @\$4.15 per gallon	\$1.66
Tractor operating cost	\$17.50
Total Cost	\$51.66

The location for composting mortality should be carefully thought out. The site should have a 1-2 percent slope, be well drained, be at least 200 ft. from any watercourse, seasonal or non-seasonal and be convenient. Properly composted carcasses will not have much run-off but any runoff generated should be directed through a grass filter strip. The plants in the grass filter strip serve to take up nutrients that would otherwise run off. Without a filter strip excess nutrients could cause a pollution problem.

Proper Compost Methods:

· First, make a 24-inch deep layer of bulky ab- osorbent material, such as municipal wood chips, making sure the layer al- க் lows for 2 feet of clearance around the carcass.

· Second, lay the carcass in the center of the pile or windrow, making sure to lance the rumen to avoid bloating and possible explosion.

• Third, cover the car-cass with 2 feet of woodchips, bedded pack, or old silage. It is important to use chunky carbon sources: if material is too dense the process will

Deadstock B22

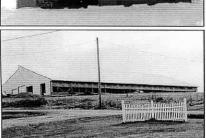
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Partial Listing: Farm Equipment will sell first at 10:00 AM - Fiat Allis 605B Payloader (articulating) w/extra bucket, Ford 7710 diesel tractor, Landtrac 530 DTC 4WD tractor, 2 Ford 600 Rev. forklift tractors (Sherman lifts), 1979 International 26' flatbed truck, Myers speed prayer. Girette 3pt basket pruner. Woods 12' rotary mower. John Deere 12' trans. disk, John Deere trans. drag, McConnell 3pt cultivators. New Idea sickle bar mower, front snow blade. Ford 3pt real orks, 3pt posthole digger, 3pt trencher/subsoiler, 3pt 4 row planter, ertilizer spreaders, John Deere LT180 garden tractor, Yard Pro 18HP garden tractor, Lincoln 225 amp welder, set of torches, drill press. 2 piece toolbox unit, shop air compressor. Allstate battery harger, bench vice, Ariens rototiller, lawn roller, 2 wheel dump cart sand blaster, several pruning shears, tractor weights, power tools, hand tools, and the barns are still full! **Antique & Household** Beautiful 5 piece cherry bedroom set (like new), oak china cabine double door leaded glass, Victorian marble top stand, chestnut twist ed leg table, oak tea cart, 9 piece mahogany dining room set mahogany 1 drawer glass cabinet, oak deacons bench, sofa, pair Baize recliners, quilt rack, large Sony color TV, misc. rugs, trunks church pew, old bicycle, wooden & iron wheels, crocks, sleds, hand cultivators, cabbage seeders, platform scales, lg. beveled glass gilted nirror, Gone w/Wind lamp, carnival glass, depression glass, greer satin bowl, opalescent, cookware, silverware, stemware & MORE Refrigerator, 20' gas propane stove, Frigidaire chest freezer, Gibsor freezer and much more, too numerous to list!

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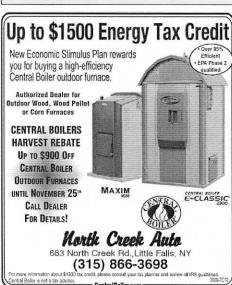
RIGHT — This graphic shows how a mortality m compost pile should be 5 constructed.

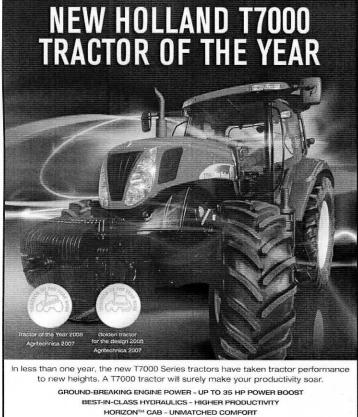
Temperatures should · range between 120-150 w degrees F within 24 hours. Composting large of animals typically takes ≥ from 4 to 6 months. With the seasonality of the of leave piles for 6 to 12 months as there will be good pathogen reduction and the material will be further processed. The composting process is the population of the stage and the material will be process, in making silage the air is pressed out of the pile. In composting the pile. in compo-the more air you incorpo-• rate the faster and more geomplete the process, with the silage process the less air the better.

• The compost should be left alone until the carcass is fully decomposed: no turning or agitation is needed. The composted material can be reused as the base to compost another carcass or land applied after removing the large bones. Remember to

Deadstock B23









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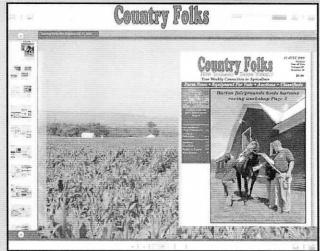
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Composting is fast, easy, environmentally sound and depending on circumstances, relatively economical. Rendering is a good option but can cost \$35-\$125 per animal. Pigs, horses and other livestock can cost up to \$200. Burying a cow, including equipment, labor and fuel will cost about \$62 and will not provide any pathogen control. Composting costs will vary. If you need to buy a carbon source like woodchips, the cost of composting will be about \$51. There are areas that have woodchip shortages but generally you can get woodchips from road crews, utility and cable companies that maintain roads for little or no cost. Free chips bring the cost down to \$26 including labor, fuel and equipment. Other on-farm carbon sources can be used in the process but it is best to use a chunky material like municipal woodchips for the base and chopped cornstalk, bedded pack, feed refusal, old silage or other like materials in the layers or as the cover material. Costs for all of these options vary but assessing your local conditions will allow you to realize your costs and choose the best option for your operation.

Cornell Waste Management Institute has instructional materials on mortality composting and can be accessed at http://cwmi.css.cornell.edu/mortali-



Compost in windrows and prepare the bed ahead.

Photos courtesy of Cornell Waste Management Institute

tv.htm. "Natural Rendering: Composting Livestock Mortality and Butcher - 12-page fact sheet and posters are available free on-line. accompanying video is also available

from NRAES at: http://nraes.org.

rom NRAES at: http://nraes.org.
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'08 Kubota M108 4WD tractor, C/A/H, 16 spd., 3 remotes, 540/1000 PTD.

warranty 15 9/2/2011 *01 Kebeta M120DTC 1,390 hrs., 4WD '07 Kebeta M125 tractor, ler. 4VO, C/A/H, 16 see PS, eand cond.

'06 Xubola M125XDTC 4VID, C/AH, Ids., PS, Z rem., sharp traction '08 Xubola M125XDTC 4VID, C/AH, PS, perfect, SOK, new

03 Kubeta M4800 ZWD tractor, 48 HP, good cond. '05 Kubeta M4800 2WD tractor, low hrs... good cond

To Kulleta MSA44 4WD, Mt., Irl & Fart Ind., R4 lines, SS 01, sanopy 107 Kulleta MSA44 4WD, CAH. R4 bies, 1 remate, good cond. 107 Kulleta MSA46 4WD tractor will fir., Inyd. sharile, front Inyd., 2 remotes, R4 lines.

'07 Kubota M5040 4WO, Idr., lieft shuffle, very nice "08 Kubota M5040 4HD, hyd. shuffle, canopy, turf tires "04 Kubota M5700 4HD w/ kir., SS, OT, 57 HP, ag iires, good comd., 216 hrs.

06 Kubeta M6040 4WD tractor, Mr., 199 hrs. '07 Kubota M6040 4WD, Idr., shuttle trans, R4 tires, carepy, clean tractor

10 Xubota MADADE fractor 250 hrs. 107 Xubota MADADE fractor 250 hrs. 107 Xubota MADADE GIVO hyd. shutlle, ag bires, 1 reaeste, same as new 105 Xubota MADADE GIVO W HD Idr., hyd. shutlle, good cond. "07 Kubota M7040 4WD lives shuttle wilder, log nilbit, cood cond.

of Nadeo Wife 4400, 1915, sheller Wildi, lop in Eli, groot color. '07 Kadeo Wife 4400, CASH, bit, ag liess, great value. '07 Kadeo Wife 4400, CASH, bit, CASH, bit, disher, ag bites, clean '08 Kadeo Wife 4500, 4400 traiter w/ bit, CASH, local 1 owner, machine sharp

'06 Kebeta M8549 4WD tractic find, shuftle, radial fires, 3 remotes, ened cond. 96 Kubeta M6540 49KD tractor avi 455 lbs. 107 Kubeta M6540 49KD tractor, Idn. CVAH. hyd. shurtle. SS OT cast centers 108 Kubeta M6540 49KD, CVAH. hyd. shuttle. 12 spd., creeper litt

97 Kubeta M9549 4WD tracter of hyd. shattle, good cond., 923 hrs. "06 Kubota MX5000 4WO, levr hrs., canopy, 4 tiles "06 Kubota MX5000 2WO, levr hrs., like new, hive PTO "07 Kubota MX5000 2WO, 50 HP. 1 remote, like new, 53 hrs.

'08 Kubeta MX5100DT 4WD tracter w/ ldr., 164 hrs. 66 MF 165 tractor of left., 2WD, gas 98 White 6710 4WD tracter of cab, low hrs.

COMPACT TRACTORS & LAWN TRACTORS

99 Bobcat CT445 4VD tractor, C/A/H, quick attach loader, R4 tires '84 Ford TNSSA tractor, 4WD, 2 remetes, low hrs. JD 400 THB

'92 JD 970 T.B w/ cab. 340 krs. JD 790 T.B 4WD; 27 HP dsl., power stearing, 1 owner JO 4115 tractor 4WD w/ldx, snew blower, soft cab, mid move Kubota 82100 tractor, hydro w/ belly mower, 1 owner '08 Kubeta 82320 4WD TLB, hydre trans, good cond, 90 hrs. '08 Kubeta 82320 4WD tractor w/ ldr, bydro og tiras, just like neis 108 Kebola B2639 4WD tractor, hydro w/ kir., R4 tires, like new 108 Kebola B2920 4WD tractor, hydro w/ kir., like new cond.

107 Kebola 83030 4VVD tractor w/ ldr., hydro, like new, R4 tires, 69 hrs

86 Kubeta 87518 4WD tractor w/ 121 hrs.

00 Audela 87510 44VD w/ldr., R4 ties, ckae, 164 hrs. '07 Kebela 87510 44VD w/ldr., R4 ties, ckae, 164 hrs. '07 Kebela 87510 44VD tractor w/ 136 hrs. '06 Kebela 87510 4VD tractor w/ mower. 74 hrs.

05 Kebola 87510 4WD TLB, hydro, love hrs.

107 Kebola 87510 TL, 71 hrs. 105 Kebola 87610 4WD Inactor wi ldc., 54 hrs. 105 Kebola 87600 4WD Inactor wi ldc., hydro, 30 HP, R4 ties, 171 hrs. D6 Kubeta 87890 41VD tractor of ldr., hydro, 30 HP, 689 hrs.

103 Kebola 87000 4VVD tractor hydro, R4 tiles w/ new ldr. 105 Kubola 87000 tractor, 135 hrs., 4VVD 107 Kebola 8X1850 4VVD, 54 "sawer, clean, law hrs. 107 Kubola 8X1850 w/ ldr., 26 hrs., 4VVD '96 Kebota BX24 4WD TLB. 1 evener local machin

100 Kebola 8X2200 4190; mid mover, 1 owner, 363 hrs. 106 Kebola 8X2230 4190; high mover, 1 owner, 363 hrs. 106 Kebola 8X2230 4190; highe w/ 60° mid mover, 3p1, and turf tires, 765 hrs. 106 Kebola 8X2350 4190 w/ 16t, mid mover, R4 fires, only 42 hrs.

"07 Kubota BX2350 4WD wildr, 60" mid mewer

10 Nubble 8X2356 4W0 w fo² mover, R4 lens, excellent cond. 106 Kubola 8X2350 4W0 w fot, 60° mover, turt lines, clean 107 Xubola GR2800 AWD, 20 HP gas engine, very grood cond., great savings

'97 Kubota L2500 4WD tractor or for, p. steering, farf tires, 1 owner trade

194 Kubala 12800 4/KD widtr FA times, good cand. 197 Kubala 12800 4/KD widtr FA times, good cand. 197 Kubala 12800 4/KD widtr FA times, dood cand. 196 Kubala 13130 4/KD water vii lát. hydro mid movret, R4 times, clean, SS, GT '95 Kubota L3139 4WD tractor, ldr., hydro, trans., 319 hrs.

'88 Kubota L32400T 4WD, TIR, 9' RH, SS, GT, R4 lines, 108 brs. 95 Kubola 13400 4WD tracter of fer. ag ters, the PTO, geed cond.

107 Kubola 13400 4WD tracter of fer. ag ters, the PTO, geed cond.

105 Kubola 13400 4WD tracter of for. R4 fins, 234 fms.

'86 Kebeta L3430 4WD tractor of lds. R4 tires. 151 hrs.

96 Kubela L3540 4WD TLB, hydro Lsans, 349 hrs. Kubola L4200 4WD, GAM, creeper gear, hyd. shuffle, 2 rem. '96 Kubola L4200 4WD tractor or life. '06 Kebela L4400 tractor vel kir. 76 hrs., 4WD

96 Kubola 14400 4WD wildz. gg 1995 95 Kubola 14630 4WD tractor, cab & kdr. 117 hrs. 96 Kubola 14630 4WD, kdr., hydro, kve hrs., bt. & rear hyd. 107 Kubola 14740 4WD wildz., hydro, R4. 292 hrs.

**O6 Kubola 15030 4WD, left, hyd. shufile, canopy, 4 fires, SS OT, Cal II hitch **O7 Kubola 15030 HST 4WD TLB, hydro, R4 fires, SS, OT like new '86 Kubola L503HSTC tractor, 4WD

'06 Kubota T1870 lawn tractor, 48' cut, low hrs., late model KRA Systems '96 Kubola T2389-48 Jaum tractor, used 1 time, 48" cut. over 1 full year left on warrants

Kubota 2028 72" cut. 28 HP, local trade 197 Kubota 20331 w/ 60" deck. 190 hrs. 198 Kubota 20331 31 HP, 72" cut, goad clean machine, 178 hrs.

Kubota 20331 31 HP, 60" cut, late model, 379 hrs. "08 Kabata 20331-72 w/ sanopy, 72" cut, great value, has warranty

107 Kabata 20331 31 HP w/ 60" cut, low hrs.

**18 Kabuta 263277-80 1 yr. eld, vary guod curdiian, 60° cut, 114 hrs. **18 MF 602410 4WD, TLB wi Spt., like new **99 MH TC21 4WD tractor wi 60° mower, R4 lines, hydro, trans. MH TC250 tractor wi futr., 4WD, hydro wi mid mewer

'06 NH TC29 4WD TLB. 29 HP. 1 symer. 8 spd. SKID STEERS

"04 Beboat 463 skirl steer w" aux. remotes, 724 brs.

'96 Beboat 863 skirl steer w" 68" filt., runs good, clean for the brs. 103 Bebeat A300 C/AH, gold package 05 Bobcal A300 all wheel steer rab, hi flaw, gold package 07 Bobcal S385 like new cond. of 66" bucket 07 Bobcal S250 skip steer, late model, 72" bis_ very clean 06 Bobcat \$300 cood, clean machine, 4 new fires, hi flow, had

'08 Bobcat T190 same as new, hand foot controls, 16" wide tracks 02 Bobsat T200 skid steer oz bourat 1200 said steer new tracks, diesel, ready to work 105 Bobcat 1300 106 Bobcat 1300 SAC controls, very good cond. w/ bucket

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*88 JD 450G dazer, good cond. 88 ID 4556 crawler Hz, wi 4 and 1 bkt., good U/C 88 ID 6566 dozer wi 6 way blade, PS, good U/C 78 ID 755 crawler loader

'O7 .E.G 450A lift 'O9 .E.G 40H maelilt, 40', rough lorrain

'07 Kubola 826 TLB, 4WO, hydro, SS, OT, rear hyd., clean, 326 hrs. Kahata BT400 had be

08 Kubola KX030 excavator, 120 hrs., like new, angle blade, lots of worranty *88 Kubota XX91 excavator, angle blade: OT & thumb, same as new, 114 hrs.

18 Kubola KX121-3 CA/H anale blade had thomb final control late mode 06 Kubota KX121-3 excavator, C/A/H, angle Hade, hyd. thumb, new tracks, local

trade
The Kubela XX121 excending, CASH, angle blade, levi firs, traded up for the 5 may
106 Kubela XX161-3 I worder, CASH, angle blade and thurnal, 669 firs,
107 Kubela XX161-3 CASH, angle blade thursh, nabber tracks, great shape

Kubola KX161-3 CAH: a maje blace, high through rubber tracks, clean, 659 hrs.
 Kubola KX16-4 excavator, tote medel, low hrs., variable track width, 127 bucket
 Kubola KX1 excavator, RoPS, rubber tracks, 0T, hyd. thumb, 24" bucket

07 Kubota L39 TLB 396 hrs. 85 Kubuta L39 4WO, TLB, R4 tires, SS, DT 24" bkt., 408 hrs.

16 Morbank 12 chipper in the leed and beed great cond. 164 Morbank 2010 chipper, Cal deset, nuto leed, 2 feed wheels BH LB758 T.B. 4VD, cab. e-hoe and filtumb Rayco RG50 stump grinder, low ins., 49 HP dst, rons and works great Woodsman 2118 chipper, JD diesel engine, 18" hvd. feed w/ auto feed

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