

Lab Analysis for: Carbon Chicken 80:20

FAYETTEVILLE AGRICULTURAL DIAGNOSTIC LABORATORY

1366 W. Altheimer Dr., Fayetteville, AR 72704

(479)575-3908 agrilab@uark.edu

University of Arkansas, Dept. of Crops, Soils, and Environmental Science

MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)



Name:	Carbon Chicken Project LLC	Received in lab:	4/25/2024
Address:	13893 White Oak Rd.	Report e-mailed:	5/03/2024
City, State, Zip:	FAYETTEVILLE, AR 72704	Phone #:	870-370-4047 Jody Hardin
County:	did not submit through Washington County Extension	Payment Info:	
E-Mail:	jody@carbonchicken.com		

Lab. No.	M40362	M40362
Sample ID	PRODUCT 4-24-24	PRODUCT 4-24-24
Animal type	no info	
-age/lbs	no info	
Bedding type	rice hulls	
Manure type	cleanout	
Date sampled	4/24/2024	
Age of manure	3 weeks	
pH		
EC(µmhos) 1:2	7.7	
% H2O, 105°C	22400	
	17.2	
% Solids, 105°C	82.8	

		-on dry basis-	Water
Total %N	3.73	Total %Mg	0.68
		Total %S	1.69
Total %P	1.22	Na, mg/kg	18379
		Fe, mg/kg	1204
Total %K	3.44	Mn, mg/kg	704
Total %Ca	2.74	Zn, mg/kg	770
Total %C	39.02	Cu, mg/kg	476
NO3-N, mg/kg	196	B, mg/kg	75
NH4-N, mg/kg	4828		

		-on as-is basis-	Water
Total %N	3.09	Total %Mg	0.56
		Total %S	1.40
Total %P	1.01	Na, mg/kg	15225
		Fe, mg/kg	997
Total %K	2.85	Mn, mg/kg	583
Total %Ca	2.27	Zn, mg/kg	638
Total %C	32.32	Cu, mg/kg	394
NO3-N, mg/kg	162	B, mg/kg	62
NH4-N, mg/kg	3999		

		-lbs/ton on as-is basis-	Water Extractable P
N	61.8	Mg	11.2
P2O5	46.3	S	28.0
K2O	69.0	Na	30.5
Ca	45.4	Fe	2.0
Carbon	646.4	Mn	1.2
NO3-N	0.3	Zn	1.3
NH4-N	8.0	Cu	0.8
		B	0.1

***All analyses performed on as-is basis. Dry basis values calculated from moisture content.

*lbs/ton P2O5 = %Total P on "as-s" basis multiplied by 20*2.29

*lbs/ton K2O = %Total K on "as-is" basis multiplied by 20*1.2

*Water Extractable P: 1:100 solids to H2O ratio, 1 hr shake, centrifuged, filtered, acidified, analysis by ICP

Lab Analysis for: Carbon Chicken 80:20

FAYETTEVILLE AGRICULTURAL DIAGNOSTIC LABORATORY

1366 W. Altheimer Dr., Fayetteville, AR 72704

(479)575-3908 agrilab@uark.edu

University of Arkansas, Dept. of Crops, Soils, and Environmental Science

MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)



Name:	Carbon Chicken Project LLC	Received in lab: 4/25/2024
Address:	13893 White Oak Rd.	Report e-mailed: 5/03/2024
City, State, Zip:	FAYETTEVILLE, AR 72704	Phone #: 870-370-4047 Family Ventures
County:	did not submit through Washington County Extension	Payment Info: _____
E-Mail:	jody@carbonchicken.com	

Lab. No.	M40363	M40363
Sample ID	AUGUR 4-24-24	AUGUR 4-24-24
Animal type	no info	
-age/lbs	no info	
Bedding type	rice hulls	
Manure type	cleanout	
Date sampled	4/24/2024	
Age of manure	3 weeks	
pH	8.0	
EC(µmhos) 1:2	20500	
% H2O, 105°C	25.8	
% Solids, 105°C	74.2	

		-on dry basis-	Water
Total %N	4.00	Total %Mg 0.69	Extractable P mg/kg _____
		Total %S 1.76	
Total %P	1.25	Na, mg/kg 19098	
		Fe, mg/kg 1057	
Total %K	3.62	Mn, mg/kg 744	
Total %Ca	2.69	Zn, mg/kg 832	
Total %C	35.49	Cu, mg/kg 494	
NO3-N, mg/kg	47.1	B, mg/kg 79	
NH4-N, mg/kg	6473		

		-on as-is basis-	Water
Total %N	2.97	Total %Mg 0.51	Extractable P mg/kg _____
		Total %S 1.31	
Total %P	0.93	Na, mg/kg 14179	
		Fe, mg/kg 785	
Total %K	2.69	Mn, mg/kg 552	
Total %Ca	2.00	Zn, mg/kg 618	
Total %C	26.35	Cu, mg/kg 367	
NO3-N, mg/kg	35.0	B, mg/kg 58	
NH4-N, mg/kg	4806		

		-lbs/ton on as-is basis-	Water Extractable P
N	59.4	Mg 10.2	_____
P2O5	42.6	S 26.2	
K2O	65.1	Na 28.4	
Ca	40.0	Fe 1.6	
Carbon	527.0	Mn 1.1	
NO3-N	0.07	Zn 1.2	
NH4-N	9.6	Cu 0.7	
		B 0.1	

***All analyses performed on as-is basis. Dry basis values calculated from moisture content.

*lbs/ton P2O5 = %Total P on "as-s" basis multiplied by 20*2.29

*lbs/ton K2O - %Total K on "as-is" basis multiplied by 20*1.2

*Water Extractable P: 1:100 solids to H2O ratio, 1 hr shake, centrifuged, filtered, acidified, analysis by ICP