

<b>Nashville, Tenn., Oct. 12, 1870</b>	General Myer	<p>To Brevet Brigadier Gen. A.J. Myer – Chief Signal Officer, U.S.A</p> <p>Sir, I have the honor to report my arrival at Nashville, Tenn. on the 13<sup>th</sup>. Inst(?) I desire some information in regard to the postage on any letters I may or do they go free. (Gen. Myer) My instruments all arrived safe excepting the compass. It is unfit for use but may be repaired. Please instruct me what I shall do in regard to it.</p> <p>Very Respectfully, Your Obedient Servant, George H. Witmer</p>
<b>Nashville, Tenn., Oct. 18, 1870</b>	General Myer – No. 2	<p>To Brv. Brig. Gen. A. J. Myer – Chief Signal Officer, U.S.A</p> <p>Sir, I have the honor to enclose “Bill” for room &amp; furniture at this station. The furniture consisting of 1 desk, 1 table, 2 chairs.</p> <p>Very respectfully, Your Obedient Servant, George H. Witmer</p>
<b>Nashville, Tenn. Oct. 20, 1870</b>	General Myer – No. 3	<p>Sir,</p> <p>I have the honor to enclose “bill” for carpenter work found necessary in fitting-up this station. I had it done as low as possible.</p> <p>Very respectfully, Your Obedient Servant, George H. Witmer</p>
<b>Nashville, Tenn. Oct. 20, 1870</b>	General Myer – No. 4	<p>Sir,</p> <p>I have the honor to acknowledge receipt of letter directing me to rent room by the month only, but prior to receiving it – I had rented a room for offices purposes by the year and had sent “bill” to Cheif (chief) Signal Office for settlement. I desire also to mention the fact that the Hygrometer intended for use at this station was broken. Incoming here I had it packed in my trunk, my trunk was badly broken but the box containing the instruments being sound (?) I thought they were safe, but on opening them after bringing them to my office. I found the sky bulb and glass water tube broken. The compass I have had repaired.</p> <p>Very respectfully, Your Obedient Servant, George H. Witmer</p>
<b>Nashville, Tenn.</b>	General Myer – No. 5	<p>Bvt. Brig. Gen. A.J. Myer Cheif (chief) Signal Officer U.S.A.</p>

<p><b>Oct. 22<sup>nd</sup>, 1870</b></p>		<p>Sir, I have the honor to make the following report in regard to kind size and position of my office. The room is situated on the second floor of a three-story building size 16 x 20 ft ceiling 13 ft high. Windows facing northeast. The barometer is hanging on the left side of windows 16 ft from cistern to ground. Thermometer in window facing northwest. There is a porch extending over windows. There is a "grate" in room. The rain gauge is up on roof of building 66 ft above surface of ground. Wind vane in is an exposed position 70 ft above ground and about 5 ft above roof. This is the most suitable room I could procure although assisted by Mayor and other gentlemen of Nashville, Tenn.. I obtained permission to use the roof for the erection of an instrument room. A window similar to the one described in the Smithsonian directions for taking meteorological observations could easily be constructed here.</p> <p>Respectfully submitted, Your obedient servant, George H. Witmer</p>
<p><b>Nashville, Tenn. Oct. 22<sup>nd</sup>, 1870</b></p>	<p>4 Morris 1<sup>st</sup></p>	<p>You will receive the weather reports of the following places. The number opposite each show the official number by which it will be designated in the reports - New Orleans, LA - 28 Cincinnati, Ohio - 65 The weather report of Nashville, Tenn. will be sent to Chicago, Ill. The official number of Nashville, Tenn. is 63.</p> <p>Very respectfully, Your obedient servant, George H. Witmer Observer Sgt. Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. Oct 29<sup>th</sup>, 1870</b></p>	<p>No. 6</p>	<p>Bvt. Brig. General A. J. Myer Chief Signal Officer U.S.A.</p> <p>Sir, I have the honor to acknowledge receipt of directions in regard to room rent, and in reply will say that the Gentleman is willing to rent by month at same rate. My office is situated on Cherry Street, no 70.5, further information I have given in a previous letter bearing date Oct. 22<sup>nd</sup>, 1870. I have selected the following places for posting Bulletins in addition to Board of Trade rooms. "Maxwell House." Suspension Bridge. Court House and State House. I desire to know if I will be permitted to have fire in room where my instruments are. I enclose bill for light - \$2.00. The amount paid by me for transportation of box was .75 cts.</p>

		Very respectfully, Your obedient Servant, George Witmer – Observer Sgt. Signal Service U.S.A.
<b>Nashville, Tenn. Oct 29<sup>th</sup>, 1870</b>	No. 7	Bvt. Brig General A. J. Myer Chief Signal Officer U.S.A.  Sir, I have the honor to acknowledge receipt of Mason's Hygrometer and Linds Anemometer, I enclose receipt which I have signed.  Very respectfully, Your Obedient Servant, G. H. Witmer
<b>Nashville, Tenn. Oct, 31<sup>st</sup>, 1870</b>	No. 8	Bvt. Brig. Gen. A.J. Myer Chief Signal Officer U.S.A.  Sir, I have the honor to inform you that the Editors of the two Daily papers published in Nashville, Tenn. have made a selection of the forms to insert in their papers. I enclose form with name of paper making such Selection on it.  Very respectfully, Your Obedient Servant, George H. Witmer – Observer Sgt. Signal Service, U.S.A.
<b>Nashville, Tenn. Nov. 2<sup>nd</sup>, 1870</b>	No. 9	Bvt. Brig. General A.J. Myer Cheif (chief) signal officer of the <i>illegible</i>  Sir, I have the honor to acknowledge receipt of forms but I am nearly out of forms. I having received <i>illegible</i> 25 in the first lot sent me and <i>illegible</i> in the lat. Mrs. J. H. French the President of the Board of Trade here wishes me to move my office to the building occupied by the Board of Trade. The rent is \$16.66 $\frac{2}{3}$ per month. The room is a very suitable but the roof is not suitable for instruments as the one I have. It would be much nearer the telegraph office being nearly opposite. The building is not quite so high as the one I am in although it is higher than the surrounding one. Windows facing same way as the one I have.  Very respectfully, Your Obedient Servant, George H. Witmer – Observer Sgt. Signal Service U.S.A. Nashville, Tenn.
<b>Nashville, Tenn. Nov. 6<sup>th</sup>,</b>	No. 10	Bvt. Brg. General A.J. Myer Chief Signal Officer U.S.A.

<b>1870</b>		<p>Sir, I have the honor to acknowledge receipt of shaft (?) and form. I enclose the receipt signed.</p> <p>Very respectfully, Your obedient Servant, G. H. Witmer – Observer Sgt Signal Service U.S.A.</p> <p>P.S. I enclose form taken from paper here, it is inserted in all the papers the same way. Although they all made selection from forms sent me some time ago. G.H.W.</p>
<b>Nashville, Tenn. Nov. 8<sup>th</sup>, 1870</b>	No. 11	<p>Bvt. Brig. Gen. A.J. Myer Chief Signal Officer of the Army</p> <p>Sir, I have the honor to mention the fact that the numbers given in instructions for indicating the “state of the weather” are insufficient for that purpose. We are compelled, in order to follow our instructions, to either report fair or light rain although it may be neither fair nor raining. As there is an intermediate state of I am mistaken. Please explain.</p> <p>Very respectfully, Your obedient Servant, G.H. Witmer – Observer Sgt. Nashville, Tenn., TN</p>
<b>Nashville, Tenn. Nov. 9<sup>th</sup>, 1870</b>	No. 13	<p>Bvt. Brig. Gen. A.J. Myer Chief Signal Officer of the Army</p> <p>Sir, The editors of the different papers published here desire to know if we will receive the weather reports from any other place beside Cincinnati and New Orleans. They do not seem inclined to publish them saying they can get a report by the Western Union Telegraph from 15 or 20 places.</p> <p>Very respectfully, Your Obedient Servant, G.H. Witmer – Observer Sgt. Signal Service U.S.A.</p>
<b>Nashville, Tenn. Nov. 10<sup>th</sup>, 1870</b>	No. 12	<p>Bvt. Brig. Gen. A.J. Myer Chief Signal Officer U.S.A</p> <p>Sir, I have the honor to acknowledge receipt of letter dated Nov. 7<sup>th</sup> and in reply will say that I enclosed to you in a letter dated the 29<sup>th</sup>, the vouchers signed by Mr. Kirkman with the information that he was willing to rent the room I now occupy by the month and at the same rate – its \$12.50. I also enclosed “bill” for light broom and bucket amounting to \$3.50. The amount paid for transportation on <i>illegible</i> was \$.75 cents. I inquired in my letter of the 29<sup>th</sup> October whether I would be</p>

		permitted to have fire in my office where my instruments are. I have not received money for room rent or for light broom bucket or transportation on box. I enclose <i>illegible</i> receipt signed and dated. I also enclose vouchers signed and "bill" for coal. G.H. Witmer
<b>Nashville, Tenn. Nov. 13<sup>th</sup>, 1870</b>	No. 14	Bvt. Brig. Gen. A.J. Myer Chief Signal Officer of the Army  Sir, I have the honor to acknowledge receipt of letter dated 10 <sup>th</sup> enclosing vouchers and money for payment of room rent and transportation on box. The kind of light purchased by me was a lantern costing \$1.75 cents and oil amounting to thirty cents. My bill for light was five cents lefs (less) than actual cost. I needed lantern to go on roof of night. I would also say in regard to my being behind time with my report on the 12 <sup>th</sup> indicated (?) that the negro man who I have to call me failed to waken me in the morning of the 12 <sup>th</sup> . I enclose bill. G.H. Witmer
<b>Nashville, Tenn. Nov. 15<sup>th</sup>, 1870</b>	No. 15	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor to acknowledge receipt of "circular" directing me to furnish Chief Signal Office with information in regard to height of Barometer above ground.  Height of Barometer – 16 ft Height of Rain Gauge – 64 ft Height of Anemometer – 70 ft  G.H. Witmer
<b>Nashville, Tenn. Nov. 17<sup>th</sup>, 1870</b>	No. 16	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor of acknowledging receipt of your communication of the 14 <sup>th</sup> <i>illegible</i> . I enclose "description list".  Very Respectfully, Your obedient Servant, G.H. Witmer
<b>Nashville, Tenn. Nov. 19<sup>th</sup>, 1870</b>	No. 17	I have the honor to acknowledge receipt of communication of 16 <sup>th</sup> inst. and will say in reply that the editor of Nashville, Tenn. Union American will publish reports in regard to breaking of glass in Anemometer I cannot say how it was broken, I do not think it was the cold as the glass in hygrometer was similarly exposed but remains sounds. The

		<p>anemometer was sound at 11 o'clock last night but this morning, I found it broken.</p> <p>Very respectfully, Your Obedient Servant, G.H. Witmer</p>
<p><b>Nashville, Tenn. Nov. 22<sup>nd</sup>, 1870</b></p>	No. 18	<p>Bvt. Brigadier General A.J. Myer Chief Signal Officer of the U.S.A.</p> <p>Sir, I have the honor to inform you that I have secured the services of Mr. John B. Morris to make the observations and reports in case of "sickness of disability". Mr. Morris is the Chief Telegraph Operator here and is something of a meteorologist having made it a study for sometime, his address is: Western Union Telegraph Office No. 23 North College Street Nashville, Tenn., Tenn.</p> <p>I enclose vouchers signed for commutation of rations, quarters, fuel &amp; extra duty pay.</p> <p>Very respectfully, Your obedient servant, George H. Witmer - Observer Sergeant Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. Nov. 25<sup>th</sup>, 1870</b></p>	No. 19	<p>Bvt. Brig. Gen A.J. Myer</p> <p>Sir, I have the honor to acknowledge receipt of communications of 22 inst. One of which directs me to send "Meteorological Record for the weeks ending Nov. 5<sup>th</sup> and 12<sup>th</sup>" I will say in reply that I understood Capt H.W. Howgate to say that the 7 A.M. , 2 P.M., and 9 P.M. observations would not be made until I received further orders. I may however be mistaken, I did not make any in consequence of this understanding. I shall commence immediately to make them.</p> <p>Very respectfully, Your Obt Svt, G.H. Witmer</p>
<p><b>Nashville, Tenn. Nov. 28<sup>th</sup>, 1870</b></p>	No. 20 -	<p>Gen. A.J. Myer Chief Sig Officer U.S.A.</p> <p>Sir, I have the honor of acknowledging receipt of communication of 25 inst. Will Say in reply that the lines between here and Louisville were broken down on Tuesday 22<sup>nd</sup> by sleet, and were not repaired until Friday noon. The reports were regularly sent by way of Memphis to Chicago for (3) three days and nights. The night report of 21<sup>st</sup> (?), being so sent, and</p>

		repeated again by request of Chicago for after noon of 26 <sup>th</sup> .  G.H. Witmer
<b>Nashville, Tenn. Nov. 29<sup>th</sup>, 1870</b>	No. 21	Bvt. Brig. Gen. A.J. Myer  Sir, The enclosed is the manner in which I make corrections for Temperature and Elevation.  Very respectfully, Your Obedient Svt. George H. Witmer Obs. Sergt. Sir. Ser. U.S.A.
<b>Nashville, Tenn. Nov. 30<sup>th</sup>, 1870</b>	No. 22	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor to make the following report from "Daily Journal: No report rec (?) from New Orleans until 10:27 (written 10,27)a.m. The night report received from New Orleans on Nov. 5 <sup>th</sup> " Nashville, Tenn. morning report sent one hour after time on Nov. 19 <sup>th</sup> , On Nov. 19 <sup>th</sup> the glass tube of Anemometer broken. Nashville, Tenn. reports sent by way of Memphis from 22 <sup>nd</sup> to 25 <sup>th</sup> of Nov.  Very Respectfully, Your Obt. Svt. G.H. Witmer
<b>Nashville, Tenn. Dec. 1<sup>st</sup>, 1870</b>	No. 23 – Gen. A.J. Myer	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor to acknowledge receipt of communication of Nov. 28 <sup>th</sup> , 1870. I understand by it that I am not to take observations at 7 a.m., 2 p.m., & 9 p.m. but make out a weekly report of 6:56 a.m., 3:56 p.m., & 10:56 p.m. observations. My printed instructions says that the Daily Record of observations should be taken to the telegraph office and the "operator receiving the report be required to sign his name on margin." Now as <i>illegible</i> reports received are entered in that book but in the telegraphic (?) reports of observations, I had him sign the latter. I was under the impression that the "daily record of observations were for the weekly report of 7 a.m., 2p.m., and 9 p.m. and since the reception of communication of Nov. 22 <sup>nd</sup> I have made observations at these hours and entered there in "daily record of observations I shall take the six observations a day so that I can make out a weekly report of either. I cannot give a full report for weeks ending Nov. 5 <sup>th</sup> , 12 <sup>th</sup> , 19 <sup>th</sup> , 26 <sup>th</sup> , and

		<p>Dec. 3<sup>rd</sup> because in the telegraphic reports, I only report the difference between dry &amp; wet bulb and only the reduced barometer, please give me more explicit orders in regard to these weekly reports.</p> <p>In a letter dated Nov. 19<sup>th</sup> informed you of the breaking of hygrometer tube so as to render it unfit for use.</p> <p>Very Respectfully, George H. Witmer</p>
<b>Nashville, Tenn. Dec. 4<sup>th</sup>, 1870</b>	No. 24	<p>Bvt. Brig. Gen. A.J. Myer</p> <p>Sir,</p> <p>I have the honor to enclose weekly reports for the weeks ending Nov. 5<sup>th</sup>, 12<sup>th</sup>, 19<sup>th</sup>, 26<sup>th</sup> and Dec. 3<sup>rd</sup>. Hereafter they will be complete. It was owing to my misunderstanding my orders that they are not complete this time.</p> <p>Very Respectfully, Your Obdt Svt. G.H. Witmer</p>
<b>Nashville, Tenn. Dec. 2<sup>nd</sup> or 4<sup>th</sup>, 1870</b>	C.C. Carpenter 1.21	<p>Sir,</p> <p>The following is the result of observation at this point for the month of November 1870. The hours of observation being 6:56 a.m., 3:56 p.m., and 10:56 p.m.</p> <p>Mean Temperature for Month – 48 degrees  Mean Temperature at 6:56 a.m. – 43 degrees  Mean Temperature at 3:56 p.m. – 54 degrees  Mean Temperature at 10:56 p.m. – 47 degrees  Maximum Temperature Nov. 2<sup>nd</sup> – 74 degrees  Minimum Temperature Nov. 19<sup>th</sup> – 25 degrees</p> <p>Barometer  Maximum height – 30.50  Minimum height – 29.30</p> <p>The barometrical observations being reduced to level of sea</p> <p>Rainfall  November 5<sup>th</sup> – 0.35  Nov. 9<sup>th</sup> – 0.50  Nov. 16<sup>th</sup> – 0.10  Nov. 22<sup>nd</sup> – 0.17  Nov. 23<sup>rd</sup> – 0.25</p> <p>Entire fall nic's &amp; haths (?) – 1.37</p> <p>I will furnish you with a weekly report if you desire it.</p> <p>Yours respectfully, G.H. Witmer</p>
<b>Nashville,</b>	No. 24	Bvt. Brig. Gen. A. J. Myer



<b>Tenn. Dec. 6<sup>th</sup>, 1870</b>		<p>Sir, I have the honor to acknowledge receipt of communication of 1<sup>st</sup> inst: Reports are forwarded by concurrent mail. I will need some blank forms No. 2 shortly.</p> <p>Very Respectfully, G.H. Witmer</p>
<b>Nashville, Tenn. Dec. 9<sup>th</sup></b>	No. 25	<p>Bvt. Brig. Gen. A.J. Myer</p> <p>Sir, I have the honor to acknowledge receipt of Drafts amounting to (\$51.00) fifty-one dollars. I mailed to you on the 4<sup>th</sup> the weekly reports. Not being aware that I have to make out a weekly report is the cause of my failure to send them at proper time. Please instruct me what to do when the temperature of exposed Thermometer is below forty degrees as in correcting for level of sea. I have no table for lower temperatures. I sent Bill to Chief Signal Office some time ago for coal amounting to (\$10.00) ten dollars. Also Bill for light (\$2.00) two dollars. Is it necessary to me two get Bill from Miss Kirkman. U always (?) for room rent every month. I enclose a written illustration of the manner in which I make corrections for Temperature elevation and instrumental error using exposed thermometer.</p> <p>G.H. Witmer</p>
<b>Nashville, Tenn. Dec. 12<sup>th</sup>, 1870</b>	No. 26	<p>Bvt. Brig. Gen. A.J. Myer</p> <p>Sir, I have the honor to enclose reports sent from this station for the week ending Dec. 10<sup>th</sup>, 1870.</p> <p>Very Respectfully, G.H. Witmer</p>
<b>Nashville, Tenn. Dec. 12<sup>th</sup>, 1870</b>	No. 27	<p>Bvt. Brig. Gen. A.J. Myer</p> <p>Sir, I have the honor to send report for the week ending Dec. 10<sup>th</sup>, 1870.</p> <p>Very Respectfully, G.H. Witmer</p>
<b>Nashville, Tenn. Dec. 12<sup>th</sup>, 1870</b>	No. 28	<p>Bvt. Brig. Gen. A.J. Myer</p> <p>Sir, I have the honor to acknowledge receipt of communication of 8<sup>th</sup> inst. And will say in reply the following is as near as I can make out of the stationary necessary for the transaction of the business of this station.</p> <p>Form 1 No Needed 25</p>

		Form 2 No Needed 25 Form 3 No Needed 2.50  2 <i>illegible</i> Letter Paper 1 <i>illegible</i> Cap Paper 25 Official envelopes 1 Carmine ink 1 sheet Blotting paper  Very respectfull, G.H. Witmer			
<b>Nashville, Tenn. Dec. 13<sup>th</sup>, 1870</b>	No. 29	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor to return vouchers and memorandum receipt which I have signed according to instructions.  Very Respectfully VC, G.H. Witmer			
<b>Nashville, Tenn. Dec. 16<sup>th</sup>, 1870</b>	No. 30	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor to report the "Relative humidity" of the air at this station for the three daily observations of Dec. 15 <sup>th</sup> as follows.  At 6:56 a.m.			
		Dry Bulb 43" (degrees) <u>39"</u> 4" <u>2.2"</u> 8.8"	Wet Bulb 39"	Dry Bulb 42" <u>38</u> 4 <u>2.23</u> 8.92	Wet Bulb 38"
		Relative Humidity 71		Relative Humidity 71	
		10:56 the same as 6:56 a.m.  Very Respectfully, Your Obdt. Svt. G.H. Witmer			
<b>Nashville, Tenn. Dec. 17<sup>th</sup>, 1870</b>	No. 31	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor to report relative humidity of the air for 16 <sup>th</sup> Dec. as follows: At 6:56 a.m. – 70			

		At 3:56 p.m. – 66 At 10:56 p.m. – 71  Very Respectfully, G.H. Witmer			
<b>Nashville, Tenn. Dec. 17<sup>th</sup>, 1870</b>	No. 32	Gen. A.J. Myer – Chief Sig. Officer  Sir, I have the honor to return reports which I have signed and compiled (?).  Very Respectfully, G.H.Witmer			
<b>Nashville, Tenn. Dec. 18<sup>th</sup>, 1870</b>	No. 33	Gen. A.J. Myer  Sir, According to instructions received Dec. 14 <sup>th</sup> I have the honor to report relative humidity of the air for Dec. 17 <sup>th</sup> as follows.			
<b>At 6:56 a.m. Dry Bulb 45" <u>41"</u> 4 <u>2.16</u> 8.64</b>	<b>At 6:56 a.m. Wet Bulb --</b>	<b>At 3:56 p.m. Dry Bulb --</b>	<b>At 3:56 p.m. Wet Bulb --</b>	<b>At 10:56 p.m. Dry Bulb --</b>	<b>At 10:56 p.m. Wet Bulb</b>
<b>Relative humidity – 71</b>  <b>Very respectfully VC, G.H. Witmer</b>					
<b>Nashville, Tenn. Dec. 19<sup>th</sup>, 1870</b>	C.C. Carpenter	Sir, I have the honor to acknowledge receipt of communication of 13 <sup>th</sup> inst. I enclose weekly report. The exposed thermometer is not given but will be here after.  Very respectfully, G.H. Witmer			
<b>Nashville, Tenn. Dec. 19<sup>th</sup>, 1870</b>	No. 34	Gen. A.J. Myer  Sir, I enclose relative humidity for Dec. 18 <sup>th</sup> . 86, 74, 80.  Very Respectfully, G.H. Witmer			

Nashville, Tenn. Dec. 19 <sup>th</sup> , 1870	No. 35	Gen. Myer,  Sir, I have the honor to acknowledge receipt of communication of 16 <sup>th</sup> inst. I return vouchers which I have signed also Newell & Jones VCOS with this signature.  Very Respectfully, Your obedient svt- G.H. Witmer		
Nashville, Tenn. Dec. 18 <sup>th</sup> , 1870	No. 36	Gen. Myer  Sir, The relative humidity for Dec. 18 <sup>th</sup> . 1870 was as follows		
6:56 a.m. 43" <u>41"</u> 2 <u>2.2"</u> 4.40 RH 86		3:56 p.m. 50" <u>45"</u> 5 <u>2.06</u> 1130 RH 69		10:56 p.m. 39" <u>36"</u> 3 <u>2.32</u> 6.96 RH 76
Very Respectfully, G.H. Witmer				
Nashville, Tenn. Dec. 20 <sup>th</sup> , 1870	No. 37	Gen. Myer  Sir, I have the honor to enclose to you a copy of the only paper publishing the weather report.  Very Respectfully, George H. Witmer		
Nashville, Tenn. Dec. 21 <sup>st</sup> , 1870	No. 38	Gen. A.J. Myer  Sir, I have the honor to report the relative humidity of the air for this station for Dec. 20 <sup>th</sup> , 1870 as follows:		
6:56 a.m. 37 <u>35</u> 2 <u>2.42</u> 4.84 82		3:56 p.m. 33 <u>30</u> 3 <u>3.01</u> 9.03 68		10:56 p.m. 45 <u>42</u> 3 <u>2.16</u> 6.48 80

<b>Very Respectfully, G.H. Witmer</b>								
<b>Nashville, Tenn. Dec. 22<sup>nd</sup>, 1870</b>	No. 38=7	<p>Gen. A.J. Myer</p> <p>Sir, I have the honor to report the relative humidity of the air at this station for Dec. 21<sup>st</sup> as follows:</p> <table> <tr> <td><b>6:56 a.m.</b></td> <td><b>3:56 p.m.</b></td> <td><b>10:56 p.m.</b></td> </tr> <tr> <td>62</td> <td>52</td> <td>65</td> </tr> </table> <p>Very Respectfully, G.H. Witmer</p>	<b>6:56 a.m.</b>	<b>3:56 p.m.</b>	<b>10:56 p.m.</b>	62	52	65
<b>6:56 a.m.</b>	<b>3:56 p.m.</b>	<b>10:56 p.m.</b>						
62	52	65						
<b>Nashville, Tenn. Dec. 23<sup>rd</sup>, 1870</b>	No. 39=8	<p>Gen. Myer</p> <p>Sir, I have the honor to report the weekly report which I have signed I also wish to inform you that I am out of letter paper the kind this is written upon, also "cap" paper. "The relative humidity of this air" for this station for Dec. 22<sup>nd</sup>, 1870 is as follows:</p> <table> <tr> <td><b>6:56 a.m.</b></td> <td><b>3:56 p.m.</b></td> <td><b>10:56 p.m.</b></td> </tr> <tr> <td>51</td> <td>47</td> <td>45</td> </tr> </table> <p>Very Respectfully, G.H. Witmer</p>	<b>6:56 a.m.</b>	<b>3:56 p.m.</b>	<b>10:56 p.m.</b>	51	47	45
<b>6:56 a.m.</b>	<b>3:56 p.m.</b>	<b>10:56 p.m.</b>						
51	47	45						
<b>Nashville, Tenn. Dec. 24<sup>th</sup>, 1870</b>	No. 40-9	<p>Gen. A.J. Myer</p> <p>Sir, I have the honor to report the "relative humidity of the air" at this station for Dec. 23<sup>rd</sup>, 1870 as follows:</p> <table> <tr> <td><b>6:56 a.m.</b></td> <td><b>3:56 p.m.</b></td> <td><b>10:56 p.m.</b></td> </tr> </table>	<b>6:56 a.m.</b>	<b>3:56 p.m.</b>	<b>10:56 p.m.</b>			
<b>6:56 a.m.</b>	<b>3:56 p.m.</b>	<b>10:56 p.m.</b>						

		48 22 55  Very respectfully, G.H. Witmer
<b>Nashville, Tenn. Dec. 26<sup>th</sup>, 1870</b>	No. 41	Gen. A.J. Myer  Sir, I omitted to state that a wad (lead?) of coal contains 1224 lbs making 2448 lbs for two wads (or leads?). I also enclose weekly report for the week ending Dec. 25 <sup>th</sup> .  Very respect... G.H. Witmer
<b>Nashville, Tenn. Dec 26<sup>th</sup>, 1870</b>	No. 42	Gen. A.J. Myer  Sir, I have the honor to inform you that I have sent by concurrent mail the reports sent from this station for the week ending Dec. 24 <sup>th</sup> , 1870.  Very respectfully, G.H. Witmer
<b>Nashville, Tenn. Dec. 26<sup>th</sup>, 1870</b>	No. 43	Gen. A.J. Myer  Sir, I have the honor to report relative humidity for Dec. 24 <sup>th</sup> as follows:  <b>6:56 a.m.</b> <b>3:56 p.m.</b> <b>10:56 p.m.</b>  77                                      66                                      55  G.H. Witmer
<b>Nashville, Tenn. Dec. 28<sup>th</sup>, 1870</b>	No. 44	Bvt. Brig. Gen. A.J. Myer  Sir, I have the honor to acknowledge receipt of communication of 24 <sup>th</sup> inst. Will purchase the articles mentioned. I return the new (?) receipt which I have signed. I received this day a map of United States which I receipt for.  Very respectfully, Your Obdt Svt. G.H. Witmer

<p><b>Nashville, Tenn. Dec. 30<sup>th</sup>, 1870</b></p>	<p>No. 45</p>	<p>Gen. A.J. Myer</p> <p>Sir, I have the honor to acknowledge receipt of weekly report which was returned to me for correction and explanation. I will say in reply that the Hygrometer is hanging in room (?) and the Thermometer is in open air. The difference of the dry and wet bulb thermometers agree with telegraphic report. Sickness was the cause of my failure to furnish the report at proper time on the morning of 26<sup>th</sup> have not entirely recovered yet although have been taking reports regularly.</p> <p>Very respectfully, G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan 1<sup>st</sup>, 1871</b></p>	<p>No. 46 – Bvt. Brig. Gen. A.J. Myer Chief Signal Officer of the Army</p>	<p>Sir,</p> <p>I have the honor to enclose the originals of the weekly reports sent from this station for the week ending Dec. 31<sup>st</sup>, 1870.</p> <p>Very Respectfully, Your Obdt. Svt. G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan 1<sup>st</sup>, 1871</b></p>	<p>No. 47 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to enclose weekly report for the week ending Dec. 31<sup>st</sup>, 1870.</p> <p>Very Respectfully, Your Obdt. Svt. G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan. 2<sup>nd</sup>, 1871</b></p>	<p>No. 48 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to acknowledge receipt of communication of 30<sup>th</sup> Dec. 1870. As stated in a letter dated Dec. 30<sup>th</sup>, 1870 the Psychrometer is in the room whilst thermometer is outside. I have since placed psychrometer outside with thermometer.</p> <p>Very respectfully, Your obedient Svt. G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan. 3<sup>rd</sup>, 1871</b></p>	<p>No. 49 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to acknowledge receipt of Draft for \$23. 25. I enclose bill for paper and ink. There being quires of cap and quires of quires of letter. I also enclose new receipt which I have signed.</p> <p>Very respectfully, Your Obedient Svt. G.H. Witmer</p>

<p><b>Nashville, Tenn. Jan 8<sup>th</sup>, 1871</b></p>	<p>No. 50 – Bvt. Brig. Gen. A. J. Myer Chief Signal Officer of the Army</p>	<p>Sir,</p> <p>I have the honor to inform you that I have sent by concurrent mail reports of this station for the week ending Jan. 7<sup>th</sup>, 1871. Also those received for same week. The two weekly reports I enclose, I also wish to inform you of the fact that I receive Lake City report – very irregularly as will be seen by reference to Telegraphic Reports of Observations sent you.</p> <p>Very Respectfully, Your Obedient Svt, G.H. Witmer – Observer Sergt. Sig. Service U.S.A.</p>
<p><b>Nashville, Tenn. Jan. 15<sup>th</sup>, 1871</b></p>	<p>No. 51 – Bvt. Brig. Gen. A. J. Myer</p>	<p>Sir,</p> <p>I have the honor to inform you that I have forwarded the Chief Signal Office the weekly reports – for the weeks ending Jan. 12<sup>th</sup>, 1871.</p> <p>Very Respectfully, Your Obedient Svt. G.H. Witmer Observer Sergt. – Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. Jan. 16<sup>th</sup>, 1871</b></p>	<p>No. 52 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to acknowledge receipt of communication of 14<sup>th</sup> inst. in reply will say that I mailed to Chief Signal Officer “on Jan. 1<sup>st</sup>, 1871 the meteorological record for Dec. 31<sup>st</sup>, 1870.</p> <p>Very Respectfully, Your Obedient Svt. G.H. Witmer Observer Sergt. Sig. Serv. U.S.A.</p> <p>P.S. I acknowledge receipt of Books of manifold paper. G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan. 18<sup>th</sup>, 1871</b></p>	<p>No. 53 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to transmit the reports for 15<sup>th</sup>, 16<sup>th</sup>, and 17<sup>th</sup>. Very Respectfully, G.H. Witmer.</p> <p>P.S. I mentioned in a letter date Nov. 30<sup>th</sup>, The fact that my anemometer tube was broken.</p>
<p><b>Nashville, Tenn. Jan. 19<sup>th</sup>, 1871</b></p>	<p>No. 54 - Bvt. Brig. Gen. A. J. Myer – Chief Signal Officer</p>	<p>Sir,</p> <p>I have the honor to enclose reports for Jan. 18<sup>th</sup>, 1871. Also anem. Receipt.</p> <p>Yours respectfully, G.H. Witmer Observer Sergt. Sig. Service U.S.A.</p>



<p><b>Nashville, Tenn. Jan. 20<sup>th</sup>, 1871</b></p>	<p>No. 55 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to enclose reports for Jan. 19<sup>th</sup>, 1871.</p> <p>Yours respectfully, G.H. Witmer Observer Sergt. Sig Serv U.S.A</p>
<p><b>Nashville, Tenn. Jan. 21<sup>st</sup>, 1871</b></p>	<p>No. 56 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to inform you that owing to the small number of reports received here the papers do not feel inclined to publish. <i>Illegible</i> informed me that the reports of a large number of places were received in Cincinnati and other places they would be glad to publish them provided they could get a full report or nearly a full one signing that it costs them nearly as much to publish then what they receive as it would to publish a full report. They think the reports of great benefit to the county and for desire a full report.</p> <p>Very Respectfully Your Obedient Svt. G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan. 21<sup>st</sup>, 1871</b></p>	<p>No. 57 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to enclose reports for Jan. 20<sup>th</sup>, 1871.</p> <p>Very Respectfully, Your Obedient Svt. G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan. 22<sup>nd</sup>, 1871</b></p>	<p>No. 58 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to enclose reports for Jan. 21<sup>st</sup>, 1871. Also meteorological record for week ending Jan 21<sup>st</sup>. The new receipt is respectfully return (?)</p> <p>Your Obedt Svt. G.H. Witmer</p>
<p><b>Nashville, Tenn. Jan. 23<sup>rd</sup>, 1871</b></p>	<p>No. 59 – Bvt. Brig. Gen. A.J. Myer</p>	<p>Sir,</p> <p>I have the honor to acknowledge receipt of communication bearing date Jan. 20<sup>th</sup>, 1871. I enclose copy of meteorological record for week ending Dec. 31<sup>st</sup>, 1871. I also enclose daily reports for Jan. 22<sup>nd</sup>, 1871.</p> <p>Very Respectfully, G.H. Witmer</p>
<p><b>Nashville, Tenn.</b></p>	<p>No. 60 – Bvt. Brig. Gen. A.J. Myers</p>	<p>Sir,</p>

<b>Jan. 24<sup>th</sup>, 1871</b>		I have the honor to enclose reports for Jan. 23 <sup>rd</sup> , 1871.  Very respectfully, G.H. Witmer
<b>Nashville, Tenn. Jan. 24<sup>th</sup>, 1871</b>	No. 61 – Bvt. Brig. Gen. A.J. Myer	Sir,  I have the honor to enclose reports for Jan. 24 <sup>th</sup> , 1871.  Very Respectfully, G.H Witmer
<b>Nashville, Tenn. Jan. 24<sup>th</sup>, 1871</b>	Bvt. Brig. Gen. A.J. Myer	Sir,  I have the honor to enclose reports for Jan. 25 <sup>th</sup> , 1871.  George H. Witmer Observer Sergt. Sig Serv. U.S.A.
<b>Nashville, Tenn. Jan. 27<sup>th</sup>, 1871</b>	Bvt. Brig. Gen. A.J. Myer	Sir,  I have the honor to enclose reports for Jan. 24 <sup>th</sup> (number obscured), 1871.  Very Respectfully, Your Obedient Svt. G.H. Witmer
<b>Nashville, Tenn. Jan. 28<sup>th</sup>, 1871</b>	Bvt. Brig. Gen. A.J. Myer Chief Signal Officer U.S.A.	Sir,  I have the honor to enclose reports for Jan. 27 <sup>th</sup> , 1871.  Very Respectfully, G.H. Witmer
<b>Nashville, Tenn. Jan. 29<sup>th</sup>, 1871</b>	Bvt. Brig. Gen. A.J. Myer	Sir,  I have the honor to enclose reports for Jan. 28 <sup>th</sup> , 1871 als (?) meteorological record for week ending same date.  Very Respectfully, Your Obdt. Svt. G.H. Witmer
<b>Nashville, Tenn. Feb 3<sup>rd</sup>, 1871</b>	Bvt. Brig. Gen. A.J. Myer	Sir,  I have the honor to return <i>illegible</i> receipts which I have signed.  Very respectfully, Your Obdt Svt. G.H. Witmer
<b>Nashville, Tenn. Feb. 3<sup>rd</sup>,</b>	Bvt. Brig. Gen. A.J. Myer	Sir,  I have the honor to enclose bill for work done in putting up

<b>1871</b>		<p>anemometer. It consists of an upright- post supported by a frame work securely fastened to roof of building.</p> <p>Very Respectfully, G.H. Witmer</p>
<b>Nashville, Tenn. Feb 3<sup>rd</sup>, 1871</b>	Bvt. Brig. Gen. A.J. Myer	<p>Sir,</p> <p>I have the honor to report myself for duty this 3<sup>rd</sup> day Feb. I would say that Mr. Morris is now here for instructions and as he has same knowledge of meteorology, I have my (?) doubt that he will be able to make the necessary reports in case of any illnefs (illness) of mine in future.</p> <p>Very respectfully, G.H. Witmer</p>
<b>Nashville, Tenn. Feb. 13<sup>th</sup>, 1871</b>	Bvt. Brig. Gen. A.J. Myer Chief Sig. Off. U.S.A. – Reporting arrival of Sergt. T.S. Watson	<p>Sir,</p> <p>I have the honor to report my arrival at this station. Sergt. Moore has not been seen about the city, so far as I can ascertain since last Friday. The key of the room in which the instruments are kept was handed me by Mr. J.B. Morris W.U. Tel. Operator, who has been taking observations for the last few days. Mr. Morris took the 6:56 a.m. observation (<i>marked out – report of the day Sef.</i>) before my arrival and I rec'd the morning reports from him of the stations which report here. I posted the morning “bulletin” in several places throughout the city my first observation was taken at 2 p.m. this day. I would respectfully request to be furnished with a new set of instructions as to the specified duties pertaining to this Post as the Papers and copies of Letters left here are in rather a confused state.</p> <p>I am sir very respectfully, Your obdt servt. Thomas S. Watson</p>
<b>Nashville, Tenn. Feb. 14<sup>th</sup>, 1871</b>	Bvt. Brig. Gen. A. J. Myer – Chief Signal Officer U.S.A.	<p>Sir:</p> <p>I have the honor to hereby transmit receipt vouchers for rent of Office. Also, vouchers handed me by Mr. Morris for transmittal. In regard to the room now occupied by me as an office I have to report very unfavorably; it is situated in a dingy old building occupied principally by saloons and as a lodging house. There are those or four drinking establishments on the first floor, the Office being situated immediately over a Lager Beer dispensary and Billiard room. It is also a building which bears a very bad moral character, one of the citizens here telling me that it was considered little better than an “assignation house.” I can get a better room, in a larger building, with a roof more suitable for the instruments exposed, for about the same rent asked for this. I think I can get it for just the same, and would respectfully request that I</p>

		<p>be authorized to do so. I am about out of "form 2" having but 4 of them on hand. Am also in want of stationary; no letter and but 3 sheets of Cap, paper.</p> <p>I am rc,  Thomas S. Watson  Ob Sergt. U.S.A.</p>
<b>Nashville,  Tenn.  Feb. 22<sup>nd</sup>,  1871</b>	To the Chief Signal Officer of the Army Washington, D.C.	<p>Sir,</p> <p>I have the honor to transmit herewith a "weekly report" of observations taken at this place for the hours of 7 a.m. 2 and 9 p.m. Also the originals of "telegraphic reports" for the hours of 6:56 a.m. 3:56 and 10:56 p.m. I would respectfully ask for instructions as to the time these different reports should be mailed also whether there can be a distinction other than in name, between the 6:56 a.m. and 7 a.m. reports, there being but 4 minutes difference in the time of taking the changes are almost inappreciable. I also send the originals of telegraphic reports taken by Mr. Jno (John) B. Morris W.U. Tel. Operator and Sergt. Witmer (Mr. M. B. and Sergt. W. 2).</p> <p>I am sir very respectfully  Your Obdt Servt  Thos L. Watson  Sergt. U.S.A. Observer</p>
<b>Nashville,  Tenn.  Feb. 25<sup>th</sup>,  1871</b>	To Chief Signal Officer U.S.A. Army, Washington D.C.	<p>Sir:</p> <p>I have the honor to transmit herewith a receipt for stationary received by me for use of this office also vouchers returned for <i>illegible</i> signature. I have rented an office in the State Insurance Co's building No. 30 College St. that being the best available locality I could find, the rent of which will be \$16.66 2/3 per month (\$200.00 per annual). I respectfully ask what articles of office furniture are allowed me, and whether matting for the floor is included. The furniture I will have to purchase as that of the present office does not belong to the United States and consists of a dilapidated desk etc., abandoned by a former occupant. I move into my new office on or before the 1<sup>st</sup> (first) prox., from which time the rent commenced.</p> <p>I am respectfully  Your Obdt Servt  TL Watson  Sergt. U.S.A. S Observer</p>
<b>Nashville,  Tenn.  Feb. 25<sup>th</sup>,  1871</b>	To Chief Signal Officer U.S. Army Washington, D.C.	<p>Sir,</p> <p>I have the honor to furnish the following information in reply to letter from 2<sup>nd</sup> St and Bvt Capt Ct. Cowgate dated Feb. 11<sup>th</sup> 1871. There are 2 daily newspapers published at this place,</p>

		<p>both morning papers. I have interviewed the Editors of both frequently on the subject of publishing the p.m. weather reports as furnished this office, but they decline to publish them on account of their small number. There not being enough sections of the country represented to make it interesting to their readers. They publish a local report a copy of which I enclose. They would gladly publish the "forecast" of the weather from your office but have been unable to get it, as yet. The Louisville Aft of the asst Press not having forwarded it yet. I issue "Daily Bulletins" posted as follows, Board of Trade. Rooms, WU Tel. Office State House, Republican Banner Office "Maxwell House" "Battle House" and Gates &amp; Pohlman Store, all conspicuous places. I have one "weather map" arranged daily in Board of T. Rooms. No manifold maps.</p> <p>Very respectfully Your Obdt Sergt Thomas L. Watson</p>
<p><b>Nashville, Tenn. April 18<sup>th</sup>, 1871</b></p>	<p>To the Chief Signal Officer, U.S.A. Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith "weekly reports" for the week ending Saturday, p.m. April 15<sup>th</sup>, 1871. Also; forms 1 &amp; 5 telegraphic reports for same since I give the following as an example of the manner in which I correct Barometer for Temperature and Altitude. Reading taken at 9 p.m. April 15<sup>th</sup>, 1871. At th. 67 Barom. 29.41 Altitude 565 ft and temperature 56 ° - <i>illegible</i> Table 17-C-gives 102 as correction for Temp, to be subtracted <math>29.410 - 102 = 29.308</math> by Alt. 565 = 16559.020 to be divided by height of column of Air corresponding to length of inch in Barometer at Temp. of 56 °, multiplied by 30. (height of Barom. At level of sea). From Table 19' "D" guy (?) of 94.4 is deduced as height of column of air, which multiplies by 30.9 was <math>2832.0 - 16559.020 = 584 +</math> which is correction for Alt. <math>29.308 + .584 = 29.892</math>, which is corrected reading. I find Rel. from by table 8 "B", guyot (?), as follows; masons hygrometer, Doy Bulb 56 wet bulb 46 difference 10 °, said table gives Rel. Num. 39.9.</p> <p>I am r Thomas L. Watson</p>
<p><b>Nashville, Tenn. March 21<sup>st</sup>, 1871</b></p>	<p>To Chief Signal Officer, U.S.A. Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith Vouchers, signed by me for extra duty pay, commutation of quarters and fuel and vouchers for commutation of rations, all for No. of March, 1871. (Marked out I would also respectfully request that I here by).</p> <p>I am very respty. Your Obdt Servt</p>

		Tho L. Watson Sergt. U.S.A.S.S. and Ob.
<b>Nashville, Tenn. March 21<sup>st</sup>, 1871</b>	To Chief Sig. Officer U.S.A. Washington, D.C.	Sir,  I have the honor to hereby acknowledge receipt of check of Bvt. Major L.B. Norton D.C. Sig. Dept for \$30 – drawn on Asst. Treasurer U.S. New York to be used for the prepayment of Telegraphic messages, of this office, if such prepayment is demanded, with letter of instructions to that effect.  I am very respy. Your Obedient Servt. T.L. Watson Sergt. S.S. U.S.A. St.
<b>Nashville, Tenn. March 21<sup>st</sup>, 1871</b>	To Chief Signal Officer U.S.A. Washington, D.C.	Sir,  I have the honor to respectfully request that there be a supply of blank form 4 sent me as I am nearly out. Also, that this office be furnished with copies of the following books of reference, viz (?) guyoffs meteorological tables, Buchans Handbook of Meteorology, Smithsonian directions for Met. Obs. This office not having said books. I am very respty.  Your Obdt Servt Thomas L. Watson Sergt U.S.A. and Ob
<b>Nashville, Tenn. Current Date</b>		To Same Sir, I have the honor to transmit herewith vouchers signed by John B. Morris, Alternate Observer at this Station for compensation due him for reports taken during mo. of February, 1871 in obedience to telegraphic order dated Washington D.C. February 8 <sup>th</sup> and signed H.M. Howgate U.S.A. a copy of which I enclose.  I am r. Thomas L Watson Sergt.
<b>Nashville, Tenn. April 30<sup>th</sup>, 1871</b>	To The Chief Signal Officer U.S.A. Washington, D.C.	Sir,  I have the honor to transmit herewith my “weekly reports” for the week ending Saturday, p.m., April 1 <sup>st</sup> , 1871. The following is an example of the manner in which I correct barometer for temperature and altitude, viz: At Th. 63, Barometer 29.45, Altitude 565 feet, Temperature 45°. Cor. For Temp. (tabe ? 17 – “C” guyot) .091-29.450 = 29.359 to be multiplied by no. ft altitude; 565 X 29.359 = 16587.835 no. from table 19’ – D – Guyot, 920. X 30. (barom. At sea level) = 27600. ) 16587.835 = .601, which is correction

		<p>for alt. <math>.601 + 29.359</math>, gives 29.96 the true reading. I find Rel. (relative) Humidity by table 8-B-Guyot. As Doy Bult Ther. <math>45^\circ</math>. Wet bulb 42 difference <math>3^\circ</math> Relative humidity .77.</p> <p>I am very respectfully Your Obdt Servt T.S. Watson Sergt.</p>
<p><b>Nashville, Tenn. April 11<sup>th</sup>, 1871</b></p>	<p>To the Chief Sig. Off. U.S.A. Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith weekly reports for the week ending Saturday p.m. April 8<sup>th</sup>, 1871; also, duplicates of forms 1 &amp; 5 from 6<sup>th</sup> of March to Apl. 8<sup>th</sup> including I give the following as an example of the manner in which I correct the Barometrical reading for temperature and altitude, taken from 9 p.m. report of Apl 8<sup>th</sup>, 1871. At th. 75, Barom. 29.68, altitude 565 ft &amp; temp. 74. Cor. For temp. (table "c" guyot) <math>.123 - 29.680 = 29.557</math>. Multiple by alt. <math>565 \times 29.557 = 16699.705</math> to be divided by height of columns of air cor. To 10<sup>th</sup> of inch in Barom. At temp. of <math>74^\circ</math> Table 19' "D" Guyot gives 96.9 which x by 30. (height of Bar. At level of sea) gives 290.70. <math>166699705</math> divided <math>29070 = .574</math> which is cor. For alt. <math>.574 + 29.557 = 30.13</math> which is true reading I find Rel. Ther. as follows, masons hygrometer D Bulb 74 met. Bulb 64 dif. <math>10^\circ</math> Table (7) "B" Guyot gives .55 as Re. Num.</p> <p>I am R. T. L. Watson</p>
<p><b>Nashville, Tenn. May 27<sup>th</sup>, 1871</b></p>	<p>Bvt. Maj. L. B. Morton – P &amp; D Off. U.S.S.S.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith a mem. List of Govt Property on hand in this office. I would also <i>illegible</i> state that ill health has been the principal cause of delay in making out said list.</p> <p>I am r. Your obdt servt T.S. Watson</p>
<p><b>Nashville, Tenn. August 18<sup>th</sup>, 1871</b></p>	<p>To the Chief Signal Officer of the Army, Washington, D.C.</p>	<p>Sir,</p> <p>I would respectfully request that this station be furnished with the following forms 7-20, form 22 <i>illegible</i> D Form Y CD 2 quires note paper 2 bdls small envelopes 1 bott writing fluid 1 broom. I would also respectfully ask for permission to have a cheap set of shelves with a few pigeon holes, made for containing blanks and papers, as the desk in use is already filled and I am compelled to keep papers and blanks on the floor having no other available place.</p> <p>I am sir, very respectfully your obdt. Servt.</p>

		Jas H. Garrards Obs. Sergt. Signal Service U.S.A.
<b>Nashville, Tenn. August 21<sup>st</sup>, 1871</b>		Sir,  I have the honor to transmit here with forms #2 for the week ending Aug. 19 <sup>th</sup> , together with the error sheet form #19 for the same period.  Very Respectfully Your obdt servant Jas. H Garrard Observer Sergt. Signal Service U.S.A.
<b>Nashville, Tenn. August 19<sup>th</sup>, 1871</b>		Sir,  In compliance with special orders No. 101 Par 14 C.S.O. I proceeded to this station from Cincinnati and relieved Sergt. Thomas D. Watson on the 15 <sup>th</sup> inst., receiving from him all instruments, instructions & papers pertaining to this office, but no funds, since which time I have been arranging and putting into proper shape the necessary data for making the Back Reports. In accordance with letter of instructions from C.S.O. dates Aug. 5 <sup>th</sup> /71. I would respectfully state that the condition of the station so far as concerns the Posting of the Bulletins, and delivery of the reports for newspapers, they have been got out with regularity and promptness, and have met with the commendation and approval of the citizens, and editors of the newspapers. In regard to the condition of the station relative to the clerical duties I would state, that owing to the ill health of Sergt. Watson, the business of the office is considerably in <i>illegible</i> and will require sometime and work to bring it up. I have not as yet had time to examine all the data and consequently cannot tell what is missing. I am now making out error sheets for Form 2, and will commence the first of the week on the Back Reports on Form 4 and will forward them as rapidly as finished. By some misinterpretation of instructions the receiving sheets have been signed heretofore by the operator where the observer should sign them. I have corrected this error at the telegraph office, and hereafter they will be signed properly. The arrangement of the instruments on the roof is such, that in winter, it will extremely hazardous to examine them, as they are placed upon a narrow cornice or cap which in turn is arched having an ascent from the roof of about 8 feet at an angle of 45 degrees. It requires great care to read the anemometer now especially at night and when winter comes and ice is formed it will almost be an impossibility to get at it, and will be attended with great risk to read it. They can be changed to a more preferable place at a small



		<p>expense.</p> <p>Very Respectfully, Your obdt. Servt. Jas H. Garrards Obs. Sergt. U.S.A.</p>
<p><b>Nashville, Tenn. August 22<sup>nd</sup>, 1871</b></p>	<p>To H.W. Howgate - 2<sup>nd</sup> Lt. &amp; Bvt. Capt. U.S.A. – Actg P&amp;D Officer – Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to acknowledge the receipt of check No. 131 255 for \$12.44 in payment of Bills Treppard and Co. \$4.50 Nashville, Tenn. Gas Light Co. \$7.94. I enclose herewith new bill and vouchers of Treppard and Co. properly signed. The Secty (?) of the Nashville, Tenn. Gas Light Company emphatically refuses to sign the vouchers without authority from Sergt Watson. Assuming that as Sergt paid the Bill himself, he has no right to sign the vouchers without his authority I would respectfully ask what I shall do in the premises.</p> <p>Very Respectfully Your Obedt Servt Jas H. Garrards Observer Sergt' Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. August 23<sup>rd</sup>, 1871</b></p>	<p>To H.W. Howgate – 2<sup>nd</sup> Lt. and Bvt. Capt. U.S.A. – ASO and Assistant – Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to acknowledge your letter of the 20<sup>th</sup> inst. Instructing me to send the duplicates of Form 1 and 5 by mail daily. I would respectfully state in reply that ever since I have regularly sent the duplicate copies by mail the morning following their telegraphic transmission, if they have been detained. I would suggest that it is the fault of the mail.</p> <p>Very Respectfully, Your Obedt. Servant Jas. H. Garrard Observer &amp; C</p>
<p><b>Nashville, Tenn. August 22<sup>nd</sup>, 1871</b></p>	<p>To the Chief Signal Officer of the Army, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith weekly reports form 4 for week ending Saturday, August, 19<sup>th</sup>, 1871.</p> <p>Very Respectfully, Your Obedt. Servant Jas. H. Garrards Observer Sergt. Signal Service, U.S.A.</p>
<p><b>Nashville, Tenn. August 24<sup>th</sup>, 1871</b></p>	<p>To H.W. Howgate, 2<sup>nd</sup> Lieut. and Bvt. Captain U.S.A., Act P and D Officer</p>	<p>Sir,</p> <p>I have the honor to transmit herewith vouchers duly signed, for consultation of Rations Quarters and fuel for myself and</p>

	Signal Service, Washington, D.C.	Private Wm Henderson and extra duty pay for myself, for the month of August 1871.  Very Respectfully, Your Obedt Servt. Jas. H. Garrard Observer Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn. August 24<sup>th</sup>, 1871</b>	To Chief Signal Officer of the Army, Washington, D.C.	Sir,  I would respectfully state in reply to the communication from C.S.O. dated Aug 27 <sup>th</sup> , 1871, directing me to report the cause of my delay in taking charge of this station, that, when I rec'd my orders to report here, I was sick with Cholera Morbus and was unfit to travel. I rec'd a telegram from the C.S.O. on the 8 <sup>th</sup> inst. Authorizing me to draw for funds and feeling somewhat better on the 12 <sup>th</sup> I went to Newport for transportation, but the Quarter Master not being at the Post I had to wait until the next day. I left on Monday the 14 <sup>th</sup> (there being no train on Sunday evening) and arrived here on Tuesday the 15 <sup>th</sup> and at once reported to Sgt. Watson to take charge of the station. I hope that this explanation may be deemed satisfactory and that the delay may not be attributed to any neglect of duty on my part.  Your obedt servt J.H. Garrard Observer Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn. August 25<sup>th</sup>, 1871</b>	To Bvt. Capt. H. W. Howgate, Signal Service U.S.A., Washington, D.C.	Sir,  I have the honor to transmit herewith receipts duly signed for property at rec'd this station.  Very Respectfully Jas H. Garrard Observer Sergt Signal Service, U.S.A
<b>Nashville, Tenn. August 24<sup>th</sup>, 1871</b>	To Bvt. Capt. H.W. Howgate, Signal Service U.S.A., Washington, D.C.	Sir,  I have the honor to transmit herewith balance of form #19 which have been replaced by the new forms sent from chief signal office.  Very Respectfully,  Your Obedt. Servant, Jas. H Garrards Observer Sergt. Signal Service, U.S.A
<b>Nashville, Tenn. August 27<sup>th</sup>, 1871</b>	To the Chief Signal Officer of the Army, Washington, D.C.	Sir,  I have the honor to transmit herewith error sheet and forms 2 for the week ending August 26 <sup>th</sup> , 1871.

		<p>Very Respectfully, Your Obedt Servant Jas H. Garrard Obs. Sergt. Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. August 27<sup>th</sup>, 1871</b></p>	<p>To the Chief Signal Officer of the Army, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith form #20 for the week ending Saturday, Aug. 26<sup>th</sup>, 1871.</p> <p>Very Respectfully, Your Obedt Servant Jas. H. Garrards Observer Sig. Service U.S.A</p>
<p><b>Nashville, Tenn. August 28<sup>th</sup>, 1871</b></p>	<p>To the Chief Signal Officer of the Army, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith Form #4 weekly reports for the week ending Saturday August 26<sup>th</sup>, 1871.</p> <p>Very Respectfully, Your Obedt Servant Jas. H. Garrards Observer Sergt. Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. Sept. 27<sup>th</sup>, 1871</b></p>	<p>To the Chief Signal Officer of the Army, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith bills as follows Chas. H. Gauthier 75¢ WW Loften &amp; Bro 1.70 D.B. Hicks 5.00 Griffen &amp; Creighton 15.00 in regard to the Pole for wind vane charged in Griffen &amp; Creighton's bill I would respectfully state, that Serg't Watson had never put the wind vane up but was in the habit of using one erected on Gates &amp; Pohlman's building, a building about a half of a block distance from the office I <i>illegibale</i> hook I purchased to have the barometer on under Par 58 Page 23, instructions to Observer Sergts.</p> <p>Very Respectfully, Your Obedt Servant Jas H. Garrard Obs Sergt. Signal Service, U.S.A.</p>
<p><b>Nashville, Tenn. Sept. 3<sup>rd</sup>, 1871</b></p>	<p>To the Chief Signal Officer of the Army, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith error sheet and forms 2 for the week ending Sept. 2<sup>nd</sup> 1871 together with Form 20 (Barometrical Corrections) for the same period.</p> <p>Very Respectfully, Your Obedt. Servant Jas. H. Garrards Observer Sergt Signal Service, U.S.A.</p>

<b>Nashville, Tenn. Sept. 4<sup>th</sup>, 1871</b>	To the Chief Signal Officer of the Army, Washington, D.C.	Sir,  I have the honor to transmit herewith form 4, weekly reports for week ending Sept. 2 <sup>nd</sup> , 1871. Also, monthly abstract of Daily Journal for month ending Aug. 31 <sup>st</sup> , 1871.  Very Respectfully, Your Obedt Servant Jas. H. Garrard Observer Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn. Sept. 7<sup>th</sup>, 1871</b>	To the Chief Signal Officer of the Army, Washington, D.C.	Sir,  I have the honor to transmit herewith meteorological chart for the month ending August 31 <sup>st</sup> , 1871.  Very Respectfully, Your Obedt. Servant Jas. H. Garrard. Observer Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn. Sept. 9<sup>th</sup>, 1871</b>	To Capt. H.W. Howgate – 2Lt. Bvt. Capt. U.S.A. Actg Ptd Officer, Washington, D.C.	Sir,  I have the honor to enclose herewith Vouchers and New Bill. duly receipted of Wm. Garrettson & Co. for 50.00 in full of Bill of Rent. Also Vouchers of Nashville, Tenn. Gas Light Co. with the 7.94 sent to pay them.  Very Respy Your Obedt Servt. Jas. H. Garrard Obs Sergt. Sig. Sev, U.S.A.
<b>Nashville, Tenn. Sept. 9<sup>th</sup>, 1871</b>	To the Chief Signal Officer of the Army, Washington, D.C.	Sir,  I have the honor to acknowledge the receipt of circular dated Sept. 5 <sup>th</sup> , 1871 enclosing Executive Order No. 133, Western Union Telegraph Co.  Very Respectfully, Your Obedt. Servant Jas. H. Garrard Obs. Sergt. Sig. Serv. U.S.A.
<b>Nashville, Tenn. Sept. 10, 1871</b>	To the Chief Signal Officer of the Army, Washington, D.C.	Sir,  I have the honor to transmit herewith forms 4 weekly reports of Observations for the week ending Sept. 9 <sup>th</sup> , 1871 as also Barometrical Corrections Form 20 for same period.  Very Respectfully, Your Obedt Servant Jas. H Garrard Observer Sergt. Signal Service U.S.A.

<p><b>Nashville, Tenn. Sept. 10<sup>th</sup>, 1871</b></p>	<p>To the Chief Signal Officer of the Army, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith forms #2 for the week ending Sept. 9<sup>th</sup>, 1871 together with error sheet form #19 for same period.</p> <p>Very Respectfully, Your Obedt Servant Jas. H. Garrard Observer Sergt Signal Service, U.S.A.</p>
<p><b>Nashville, Tenn. Sept. 11<sup>th</sup>, 1871</b></p>	<p>To Capt. H.W. Howgate – 2<sup>nd</sup> Lt. &amp; Bvt. Capt. U.S.A. – Acty P &amp; D Officer, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to state in answer to the within notation that the shelves &amp; Pigeon Holes are made portable not in the shape of a disk but with a bench or stand. They consist of four deep shelves and ten pigeon holes.</p> <p>Very Respectfully Your Obedt Servt. J.H. Garrard Obs. Sergt. Signal Serv. U.S.A.</p>
<p><b>Nashville, Tenn. September 11<sup>th</sup>, 1871</b></p>	<p>To Capt. H.W. Howgate – 2<sup>nd</sup> Lt. &amp; Bvt. Capt. U.S.A. – Acty P &amp; D Officer, Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to acknowledge the receipt of communication from CSO of Sept. 6<sup>th</sup>, 1871 enclosing Property Returns (Blank Forms) and giving instructions as to the manner of making them out.</p> <p>I would respectfully request that this station be supplied with a supply of Forms 2 as the former supply is almost exhausted.</p> <p>Very Respectfully Your Obedt Servant Jas. H. Garrard Obj. Sergt. Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. Sept 14<sup>th</sup>, 1871</b></p>	<p>To Capt. H.W. Howgate – 2<sup>nd</sup> Lt. &amp; Bvt. Capt. U.S.A. – Acty P &amp; D Officer, Washington, D.C.</p>	<p>Sir,</p> <p>I would respectfully state that on comparing the Return of Property (with which I am charged) with the Invoices of, proper transferred to me, I find that I am charged with a compass that I never received as Sergt. LL Watson had none at this station when I relieved him neither did I receipt for any.</p> <p>Very Respectfully, Your Obedt. Servt. J.H. Garrard Obs Sergt. &amp; c</p>
<p><b>Nashville, Tenn. Sept. 16<sup>th</sup>,</b></p>	<p>To the Chief Signal Officer of the Army Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to transmit herewith back numbers of Form #2 together with Error Sheets for weeks ending as follows viz!</p>

<b>1871</b>		<p>June 24<sup>th</sup>, July 1<sup>st</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 29<sup>th</sup>, August 5<sup>th</sup> and 12<sup>th</sup>. The forms for week ending July 8<sup>th</sup>/71 were forwarded by Sergt T. L. Watson. According to the data of this office, this transmittal completes the number of Forms #2 due from this station.</p> <p>Very Respectfully Your Obedt Servant JH Garrard Observer Sergt Sig Service</p>
<b>Nashville, Tenn. Sept. 19<sup>th</sup> 1871</b>	<p>Capt. H. W. Howgate 2<sup>nd</sup> Lt. and Bvt. Capt. U.S.A. A.S.O. and Asst. Washington, D.C.</p>	<p>Sir, I have the honor to acknowledge your communication of the 14<sup>th</sup> inst. requiring an explanation for discrepancies with the reading of the exposed thermometer at the 9:00 P.M. Observation of the 3<sup>rd</sup> and the 3:56 Observation of the 4<sup>th</sup>. I can only account for them as clerical errors which occurred in copying from the "Daily Record of Observations." In future I shall endeavor to prevent the repetition of like errors. The true reading of the exposed thermometer for the 9:00 P.M. Observation is 74 degree and of the 3.56 P.M. 87 degree.</p> <p>Very Respectfully Your Obdt. Servt. James H. Garrard Obs. Sergt. Sig. Serv. U.S.A.</p>
<b>Nashville, Tenn. Sept. 20<sup>th</sup>, 1871</b>	<p>Capt. H. W. Howgate 2<sup>nd</sup> Lt. and Bvt. Capt. U.S.A. Acting P&amp;D Officer Washington, D.C.</p>	<p>Sir, I have the honor to transmit herewith vouchers duly signed for extra duty pay for myself and commutation of Quarters and fuel and rations for myself and Pvt. Wm. Henderson for the month of September, 1871.</p> <p>Very Respectfully Your Obdt. Servt. (Syd) Jas. H. Garrard Observer Sergt. Sig. Serv. U.S.A.</p>
<b>Nashville, Tenn. Sept. 20<sup>th</sup> 1871</b>	<p>Capt. H. W. Howgate 2<sup>nd</sup> Lt. and Bvt. Capt. U.S.A. Acting P&amp;D Officer Washington, D.C.</p>	<p>Sir, I have the honor to acknowledge receipts of invoice of Signal Service Property sent to this station during the month of August, 1871.</p> <p>Very Respectfully Your Obdt. Servt. (syd) Jas. H. Garrard Obs. Sergt. Sig. Serv. U.S.A.</p>
<b>Nashville, Tenn. Sept. 19<sup>th</sup> 1871</b>	<p>To the Chief Signal Officer of the Army, Washington. D.C.</p>	<p>Sir, I have the honor to transmit herewith weekly reports Form 4 together with Form "#20" Barometrical Corrections" for the week ending Saturday, September 16<sup>th</sup>, 1871.</p> <p>Very Respectfully Jas H Garrard</p>

		Observer Sergt. Sig Serv U.S.A.												
<b>Nashville, Tenn. Sept. 23rd 1871</b>	Capt. H. W. Howgate 2nd Lt. and Bvt. Capt. U.S.A. Acting P&D Officer Washington, D.C.	<p>Sir, I have the honor to enclose herewith vouchers and new bills duly signed and receipted, viz:</p> <table> <tr> <td>Griffin and Creighton</td> <td>\$8.00 &amp; \$7.00</td> <td>\$15.00</td> </tr> <tr> <td>D. B. Hicks</td> <td></td> <td>5.00</td> </tr> <tr> <td>Sgt. JH Garrard</td> <td></td> <td>2.45</td> </tr> <tr> <td></td> <td></td> <td>\$22.45</td> </tr> </table> <p>In payment of which I respectfully acknowledge the receipt of your dfts. Nos. 131390 and 131391 for \$15.00 and \$5.45. I would state that the ice was consumed from June 15<sup>th</sup> to August 25<sup>th</sup>, 1871.</p> <p>Very Respectfully Your Obedt. Servant Jas H. Garrard Obg. Sgt. Sig. Ser. U.S.A.</p>	Griffin and Creighton	\$8.00 & \$7.00	\$15.00	D. B. Hicks		5.00	Sgt. JH Garrard		2.45			\$22.45
Griffin and Creighton	\$8.00 & \$7.00	\$15.00												
D. B. Hicks		5.00												
Sgt. JH Garrard		2.45												
		\$22.45												
<b>Nashville, Tenn. Sept. 23rd 1871</b>	Capt. H. W. Howgate 2nd Lt. & Bvt. Capt. U.S.A. Acting P&D Officer	<p>Sir, I would respectfully state that the supply of Forms 1 and two at this station is nearly exhausted and would request that I may be supplied with some more.</p> <p>Very Respectfully Your Obedt. Servt. Jas. H. Garrard Obg. Sergt. Sig. Serv. U.S.A.</p>												
<b>Nashville, Tenn. Sept. 26th 1871</b>	To the Chief Signal Officer of the Army, Washington D.C.	<p>Sir, I have the honor to transmit herewith Form 2-19-20 and 4 for the week ending Sept. 23, 1871.</p> <p>Very Respectfully Your Obedt. Servant Jas H. Garrard Obg Sergt Signal Service U.S.A.</p>												
<b>Nashville, Tenn. Sept. 27th 1871</b>	To Capt. H.W. Howgate 2th and Bvt. Capt. U.S.A. Act'g P&D Officer	<p>Sir, I would respectfully state that in my communication of the 23<sup>rd</sup>-ish I made an error in requesting a supply of Forms 1 and 2, it should have been Forms 1 and 5.</p> <p>Very Respectfully Your Obedt. Servant Jas.H. Garrard Obg. Sergt. Sig. Service U.S.A.</p>												
<b>Nashville, Tenn. Sept. 27th 1871</b>	To the Chief Signal Officer of the Army, Washington. D.C.	<p>Sir, I have the honor to acknowledge the receipt on the 18<sup>th</sup> inst. of a communication from C.S.O. dated the 13<sup>th</sup> inst. notifying me of the shipment to this station of a large wind vane. Since the receipt of which communication I have heard nothing of the</p>												

		<p>wind vane although I have made repeated enquiries both at the quartermasters department and at the railroad office. I have received permission from the owners of this building to have the wind vane erected on its arrival.</p> <p>Very Respectfully Your Obedt Servant Jas. H. Garrard Obg. Sergt. Sig. Service USA</p>
<b>Nashville, Tenn. Oct. 2<sup>nd</sup> 1871</b>	Chief Signal Officer of the Army Washington, D.C.	<p>Sir, I have the honor to transmit herewith bill of Nashville, Tenn. Gas Light Co. for \$9.70 for gas consumed during the quarter ending October 1<sup>st</sup>, 1871 and I would respectfully state in connection therewith that I have been informed by the secretary of the company, that in case of the non-payment of the bill by the 15<sup>th</sup> inst. the supply would be cut off. They are imperative in this rule owing to difficulty had heretofore with some government officials in settling their bills.</p> <p>Very Respectfully Your Obedt. Servant Jas. H. Garranrd Obg. Sergt. Sig. Serv. USA</p>
<b>Nashville, Tenn. Oct. 3<sup>rd</sup> 1871</b>	Chief Signal Officer of the Army	<p>Transmitting Forms 2-19-20 and 4.</p> <p>JH Garrard Obg. Sgt. Sig. Serv. U.S.A.</p>
<b>Nashville, Tenn. Oct. 12<sup>th</sup> 1871</b>	Capt. H.W. Howgate	Enclosing vouchers and new receipts of Nashville, Tenn. Gas Light Co. for \$9.70.
<b>Nashville, Tenn. Oct. 14<sup>th</sup> 1871</b>	Capt. H.W. Howgate	Transmitting Forms 2-19-20 for week ending Oct. 7 <sup>th</sup> , 1871.
<b>Nashville, Tenn. Oct. 14<sup>th</sup> 1871</b>	Capt. H.W. Howgate Acing P&D Officer USA Washington, D.C.	<p>Sir, I have the honor to transmit herewith vouchers and new bill, duly receipted of Nashville, Tenn. Gas Light Co. for \$9.70 in settlement of which I would respectfully acknowledge the receipt of your dft. No. 133504.</p> <p>Very Respectfully Yr. Obedt. Servt. JH Garrard Obg. Serg. Sig. Serv. USA</p>
<b>Nashville, Tenn. Oct. 14<sup>th</sup> 1871</b>	Chief Signal Officer of the Army	<p>Sir, I have the honor to acknowledge the receipt of warrant appointing me as sergeant in the Signal Service U.S.A.</p> <p>Very Respectfully</p>



		Your Obedient Servant Jas. H. Garrard Obs. Sergt. Sig. Service USA
<b>Nashville, Tenn. Oct. 21<sup>st</sup> 1871</b>	Chief Signal Officer of the Army	Transmitted Forms 2-19-20 for week ending Oct 14 <sup>th</sup> , 1871.
<b>Nashville, Tenn. Oct. 23<sup>rd</sup> 1871</b>	Chief Signal Officer of the Army Washington, D. C.	Sir, I would respectfully request that this station be furnished with a book for recording the daily bulletins. I will forward the old one as soon as Sergt. Watson's back bulletins are entered.  Very Respectfully Your Obedient Servant Jas. H. Garrard Observer Sergt. Sig. Serv. USA
<b>Nashville, Tenn. Oct. 23<sup>rd</sup> 1871</b>	Chief Signal Officer of the Army Washington, D.C.	Sir, I would respectfully state that having no yard or closet connected with this office in which to deposit the fuel necessary for the station, I would respectfully ask permission to have a box made sufficiently large to contain one load of coal. I have consulted a carpenter and have been informed I can have one made at a cost of five dollars. Lieutenant Adams has recommended that one be made.  Very Respectfully Your Obedient Servant Jas. H. Garrard Observer Sergt. Signal Service USA
<b>Nashville, Tenn. Oct. 23<sup>rd</sup> 1871</b>	Chief Signal Officer of the Army Washington, D.C.	Sir, I would respectfully request that this station be supplied with some Forms 3 as the last supply is almost exhausted.  Very Respectfully Your Obedient Servant JH Garrard Obdt Sergt Sig Serv USA
<b>Nashville, Tenn. Oct. 23<sup>rd</sup> 1871</b>	Chief Signal Service U.S. Army	Sir, I have the honor to transmit herewith bill of Griffen and Creighton for erecting wind vane amounting to twenty one dollars.  Very Respectfully Your Obedient Servant Jas. H. Garrard Observer Sergeant Sig Serv.
<b>Nashville, Tenn.</b>	Chief Signal Officer of the Army	Transmitted to C.S.O. corrected example of barometrical corrections together with receipt of bulletin book & receipt for

<b>Oct. 30<sup>th</sup> 1871</b>	Washington, D.C.	1000 bulletins.
<b>Nashville, Tenn. Oct. 23<sup>rd</sup> 1871</b>	Chief Signal Officer of the Army Washington, D.C.	Transmitted error sheets & Form 2 with barometrical corrections for week ending Oct. 21 <sup>st</sup> , 1871.
<b>Nashville, Tenn. Nov. 1<sup>st</sup> 1871</b>	Capt. H. W. Howgate Acting P&D Officer USA	Sir, I have the honor to transmit herewith the following bills. Wm Garrettson & Co. for rent. \$50.00 Griffin & Creighton for coal box. \$5.00 D. B. Hicks for ice. \$2.00 I would respectfully state in regard to the ice bill, that where you take it in small quantities, they furnish tickets and that I have a number of these tickets on hand which will be good next summer.  Very Respectfully Your Obedt. Servt. Jas. H. Garrard Obg. Sgt. Sig. Serv. USA
<b>Nashville, Tenn. Nov. 15<sup>th</sup> 1867</b>	Capt. H.W. Howgate	Sir, I have the honor to transmit herewith "Meteorological Chart" and Abstract of Daily Journal for the month of September and would state that the delay was occasioned by me being laid up with the rheumatism but am better now & will send in my reports at once.  Very Respectfully Your Obt. Servt. JH Garrard Obg.
<b>Nashville, Tenn. Nov. 16<sup>th</sup> 1871</b>	Capt. HW Howgate Acting P&D Officer	Sir, I have the honor to request that this station be supplied with the following stationery: five (5) quires letter paper; two (2) qrs. note paper; two (2) bdl. small envelopes; 1/2 doz. lead pencils; Forms #22 Q.M.D. I would also respectfully request that I be furnished with a supply of pens as the ones on hand are too blunt for making out reports.  Yours Very Respectfully Your Obedt Servt. JH. Garrard Obg. Sergt. Sig. Serv. USA
<b>Nashville, Tenn. Nov. 20<sup>th</sup> 1871</b>	Capt. HW Howgate Acting P&D Officer Sig. Serv. USA Washington, D.C.	Sir, I have the honor to enclose herewith vouchers and new bills of Griffen and Creighton and D.B. Hicks, which have been duly receipted and in payment of which I would acknowledge the receipt of your draft on New York for \$26.00 and also \$2.00 in

		<p>currency.</p> <p>Very Respectfully Yr. Obdt. Servt. Jas. H. Garrard Obs. Sergt. Sig. Serv. USA</p>
<p><b>Nashville, Tenn. Nov. 16<sup>th</sup>, 1871</b></p>	<p>To Capt. H.W. Howgate Act'g P &amp; D Officer</p>	<p>Sir, I have the honor to transmit herewith "Report of Signal Service Property" at this station for the quarter ending September 30/71 1871. And I would respectfully state that there has been invoiced to me, 1 Bot Black Ink and 1 Broom in August, and 2 Bott Blk Ink and 1 Broom in September. As I never received but I Bot Black Ink and 1 Broom, and these in August. I would respectfully suggest that there must be an error in the September Invoice. I am also charged with a compass which I never received, as Sergeant Watson did not have one when I relieved him.</p> <p>Very Respectfully Your Obedt Servt J.H. Garrard Obs. Sergt. Sig. Serv</p>
<p><b>Nashville, Tenn. Nov. 20<sup>th</sup>, 1871</b></p>	<p>To Capt. H.W. Howgate, A.S.O. and Asst. Washington, D.C.</p>	<p>Sir, I have the honor to acknowledge the receipt of your communication requiring an Explanation of the cause of delay in the transmittal of Forms 2 and Error sheets for weeks ending Oct. 28<sup>th</sup> and Nov. 4<sup>th</sup> &amp; 11<sup>th</sup>, I would respectfully state that I forwarded these Papers some days ago, but the delay previous to then, was occasioned by my having rheumatism produced by catching cold while bracing the Anemometer during a heavy rain.</p> <p>Very Respectfully Your Obedient Servant Jas. H. Garrard Observer Serg't Sig. Serv U.S.A.</p>
<p><b>Nashville, Tenn. Nov 21 1871</b></p>		<p>Chf Sig Officer transmitted forms 4 for week ending Nov 18<sup>th</sup>/71 Transmitted forms 4 for week ending Nov. 22/71 - Oct 14<sup>th</sup> 71</p>
<p><b>Nashville, Tenn. Nov 23<sup>rd</sup>, 1871</b></p>	<p>Chf Sig Officer</p>	<p>Transmitted Forms 4 for weeks ending Nov 4<sup>th</sup> and 11<sup>th</sup>/71</p>
<p><b>Nashville, Tenn. Nov 24<sup>th</sup> 1872</b></p>	<p>To the Chief Signal Officer of the Army Washington DC</p>	<p>Sir I have the honor to acknowledge the receipt of pamphlet containing new cipher for telegraphic Reports and would respectfully ask for information on the following points 1<sup>st</sup> In case the clouds were a combination of cirrus and stratus, cirrus and cumulus etc. how are they expressed?</p>

		<p>2<sup>nd</sup> In case the upper clouds were stationery?  3<sup>rd</sup> Why are some of the words in the amount kind and direction of the clouds marked with a "x"?</p> <p>Very respectfully  Your obedient servant  Jas H. Garrard  Observer Sergt sig Serv USA</p>
<p><b>Nashville,  Tenn.  Nov 24<sup>th</sup>  1871</b></p>	<p>To the Chief Signal  Officer of the Army  Washington D.C.</p>	<p>Sir  I have the honor to enclose herewith "Report of Instruments and their position." I find that taking Mobile Bay as the Sea Level, that my barometer stands 512 feet above. Heretofore in correcting for elevation I have been using 565 feet as the height, from the fact that Sergt. Watson gave me that as the correct elevation, where he got this height from I cannot say. The level for Mobile Bay is taken at high tide, I would respectfully request to be informed as to which elevation I shall use.</p> <p>Very Respectfully  Your respectful servant  Jas H. Garrard  Obj Serfgt Sig Serv USA</p>
<p><b>Nashville,  Tenn.  November  25<sup>th</sup> 1871</b></p>	<p>To the Chief Signal  Officer of the Army  Washington D.C.</p>	<p>Sir  I have the honor to acknowledge the receipt of General Orders #44 CSO together with vouchers Form 5 for pay proper. I would respectfully state that the Descriptive list of myself and Pvt Wm Henderson are now in Louisville but immediately on receipt of them I will forward them to the Chief Signal Officer</p> <p>Very Respectfully  Your obedient servant  Jas H. Garrard</p>
<p><b>Nashville,  Tenn.  Nov 26<sup>th</sup>  1871</b></p>		<p>Transmitting Forms 2—Midday 4, 19, 10, 24 and 4 for week ending Nov 25 1871</p>
<p><b>Nashville,  Tenn.  November  27<sup>th</sup> 1871</b></p>	<p>To Capt H. W.  Howgate A.S.O.  and Assistant  Washington DC</p>	<p>Sir  I have the honor to state in reply to your communication of the 23<sup>rd</sup> inst that Forms 1 and 5 for Nov 11<sup>th</sup>/71 were mailed at this place on the morning of the 12<sup>th</sup> inst. and if they have not been rec'd at Washington, I would suggest that it is the fault of the mail. I forward duplicates herewith.</p> <p>Very respectfully  Your obedient servant  Jas. H. Garrard  Observer Serg't Signal Service USA</p>
<p><b>Nashville,  Tenn.  Dec 3/71</b></p>		<p>Transmitting Forms 2,4,19, 20, 24—midday 4 and 22 monthly</p>

<b>Nashville, Tenn. Dec 10<sup>th</sup>/71</b>	To the Chief Signal Officer of the Army Washington DC	Sir I have the honor to state in explanation that my morning observation of this date was not taken from the fact that owing to the smoking of the stove during the night that I was so stupefied in the morning that the janitor could not arouse me. Very Respectfully Your obedient Servant Jas. H. Garrard Obs Sergt Sig Serv USA
<b>Nashville, Tenn., Dec 19<sup>th</sup> 1871</b>		Sir I have the honor to transmit New Bill and Vouchers of Wm Garrettson and Co. for \$50.00 for rent for the months of September October and November 1871 which have been duly receipted and in the payment of the same I have to acknowledge the receipt of your check No 133921 Very respectfully Your obedient Servant Jas H. Garrard Obs Sgt Sig Serv USA
<b>Nashville, Tenn. Dec 21<sup>st</sup> 1871</b>	To Capt. H. W. Howgate	Sir I have the honor to transmit herewith "Record of Bulletins" for the weeks ending Nov 11 <sup>th</sup> 18 <sup>th</sup> and 25 <sup>th</sup> and Dec 2 <sup>nd</sup> . I would respectfully state that my "Record of Letters sent" show that the "Record of Bulletins" for the weeks ending Nov 25 <sup>th</sup> and Dec 2 <sup>nd</sup> /71 were duly mailed at the end of the respective weeks. Very respectfully Your obedient Servant Jas H. Garrard Obj Sergt Sig Serv USA
<b>Nashville, Tenn. Dec 21<sup>st</sup>, 1871</b>	To Capt H. W. Howgate	Sir I have the honor to enclose herewith Descriptive Lists of myself and Private Wm. Henderson, together with Vouchers (Form 5) duly signed for pay for the month of December 1871 Very respectfully Your obedient Servant Jas H. Garrard Obj Sgt Sig Serv USA
<b>Nashville Dec 21<sup>st</sup>, 1871</b>		Transmitted Forms 2 and 19 for weeks ending Dec 9 <sup>th</sup> and 16 <sup>th</sup> /71
<b>Nashville, Tenn. Dec 22<sup>nd</sup>, 1871</b>	To Capt H. W. Howgate ASO and Assistant Washington D.C.	Sir, I have the honor to state in reply to Circular dated Chf Signal Officer Dec 12 <sup>th</sup> 1871, that I have made the required measurement and find, that it would require 113 ft of wire to reach from the dial of the anemometer to the middle of the office room, over the roof and through the window and nearly double to run it through the trap door

		<p>The position in which the anemometer is placed is such that a wire could be run down from the dial, directly through the roof, if it would be admissable, the distance would then be only 32 ft.</p> <p>Very respectfully Your obedient Servant Jas H Garrard Obs Sergt Sig Serv USA</p>
<b>Nashville, Tenn. Dec 22<sup>nd</sup> 1871</b>	To the Chf Sig Officer U.S.A.	<p>Sir</p> <p>I would respectfully request that this station be supplied with a quantity of Official Envelopes (addressed) and Form #19 Error sheets as the supply is nearly exhausted.</p> <p>Very respectfully Your obedient servant Jas H. Garrard Obs Sergt Sig Ser USA</p>
<b>Nashville, Tenn. Dec.22<sup>nd</sup>/71</b>	Chf Sig Officer	Sent abstract of Journal for month of October /71
<b>Nashville, Tenn. Dec 23<sup>rd</sup>/71</b>	Chf Sig Officer	Transmitted Forms 4 for week ending Dec 9 <sup>th</sup> /71
<b>Nashville, Tenn. Dec 24<sup>th</sup></b>	Chf Sig Officer	Transmitted Forms #4 for week ending Dec 16 <sup>th</sup> 1871
<b>Nashville, Tenn. Dec 25<sup>th</sup>/71</b>	To Capt H. W. Howgate ASO & Asst.	<p>Sir,</p> <p>I have the honor to state in reply to communication dated Chf Signal Officer Dec 16<sup>th</sup> 1871 that on referring to my record of letters sent, I find that my meteorological record for weeks ending Nov 4<sup>th</sup> &amp; 11<sup>th</sup> were mailed Nov 23<sup>rd</sup> 1871. As there has been several communication not rec'd at the Chf Signal Officer which I have mailed here, I enclose herewith an item cut from the "Union &amp; American" Newspaper (Dec 15/71) of this city, showing that there must be some neglect in the post office here.</p> <p>Very respectfully Your obed't Serv Jas H. Garrard</p>
<b>Nashville, Tenn. Dec 25/71</b>	To the Chief Signal Offices of the Army Washington D.C.	<p>Sir</p> <p>I have the honor to request that this station be supplied with a pair of common opera or marine glasses, for the purpose of reading the water guage, as it is placed on the center pair of the Railroad Bridge no other place being available so as to render it secure. I had it placed in this position at the suggestion of Col. Albert Chf Engineer of the Cumberland River Survey who informed me that it would be the only safe place.</p> <p>Very Respectfully Your Obed't Servant Jas H. Garrard</p>

		<i>Written in large, blue handwriting – See pages #146 &amp; 154</i>
<b>Nashville, Tenn. Dec 27<sup>th</sup> 1971</b>	Chf Sig Officer USA	Transmitted Forms 4 Meteorological Record for week ending Dec 23/71
<b>Nashville, Tenn. December 27<sup>th</sup>/71</b>	To Capt H. W. Howgate Actg P and D Officer U.S.A. Washington, DC	Sir I have the honor to transmit herewith Bill of E. McIver and Co for 2 <sup>3</sup> / <sub>4</sub> tons of Coal amtg to \$18.15. The coal having been used during the quarter ending December 31 <sup>st</sup> 1871. Very Respectfully Your Obedt Servant Jas H. Garrard Obs Sergt Sig Ser U.S.A.
<b>Nashville, Tenn. Dec 31<sup>st</sup></b>	Chf Sig Officer	Transmitted Forms 2 & 19 & 4 returned for signature.
<b>Jan 1<sup>st</sup>/72</b>	Chf Sig Officer	Transmitted Forms 4 & midday 20 & 24
<b>Nashville, Tenn. Jan 1<sup>st</sup> 1972</b>	To the Chief Signal Officer of the Army Washington D.C.	Sir I have the honor to transmit herewith Bill of Nashville Gas Light Co. amounting to twenty dollars for gas consumed during quarter ending December 31 <sup>st</sup> 1871. Very respectfully Your Obedt Servant Jas H Garrard Obs Sergt Sig Service U.S.A.
<b>January 2/72</b>	Chf Sig Officer	Transmitting Meteorological chart for month of October 1871
<b>January 4<sup>th</sup>/72</b>	Chf Sig Officer	Transmitting Form 22 for Month of <del>January</del> December 1872
<b>January 8<sup>th</sup>/72</b>	Chf Sig Officer	Transmitting Forms 2,4, midday 19, 20, 24 for week ending January 6 <sup>th</sup> /72
<b>Nashville, Tenn. Jany 15<sup>th</sup> 1872</b>	To Capt H. W. Howgate Actg P & D Officer	Sir I have the honor to transmit herewith bills of the following named parties contracted in the manufacture and erection of Water Meter. Griffen & Creighton 53 ft lumber 6.50 H. C. Singleton Erection of meter 9.50 W L & F W Horn painting 13.25 The bill of H C Singleton was paid by Mr. Mead Asst Surveyor Cumberland River Survey Corps. Mr. Singleton being a poor man in need of the money.  <i>Written in large, blue handwriting – Water Gauge, See pages #143 &amp; 154.</i>

		Very Respectfully Your obedient Servant Jas. H. Garrard Observer Sergt Signal Service U.S.A.
<b>Jan 15<sup>th</sup></b>	C.S.O.	Transmitting forms 2, 4, midday, 19 and 20 and 24 for week ending January 13 <sup>th</sup> and Form 4 for week ending January 6 <sup>th</sup> /72.
<b>Nashville, Tenn. Jany 18<sup>th</sup> 1872</b>	To Lieut AW Greely Act Sig Officer	Sir I have the honor to state in reply to your communication dated Jany 15 <sup>th</sup> 1872, that I called upon Mr. Bradford Nichol & he stated that the bill for office furniture had been paid and that he had signed vouchers for the same. He also expressed a willingness to sign duplicate vouchers Very respectfully Your obed't Servt J. H. Garrard Obs Sgt Sig Serv
<b>January 18<sup>th</sup>/72</b>	C.S.O.	Transmitted form 4 for week ending January 15 <sup>th</sup> /72
<b>January 27/72</b>	Capt. H. W. Howgate	Enclosing vouchers for pay for month of Jan. 1872 for self and Priv. Henderson
<b>January 22<sup>nd</sup></b>	C.S.O.	Transmitted Forms 2, 4, midday 19, 20, and 24 for week ending Jan 20 <sup>th</sup> /72. (Form 4 weekly due) Sent Feb 4 <sup>th</sup>
<b>Nashville, Tenn. Jan. 27<sup>th</sup> 1871</b>	To Capt. H.W. Howgate Actg P & D Officer U.S.A. Washington D.C.	Sir I have the honor to transmit Vouchers duly signed as follows Nashville, Tenn. Gas Light Co. 20.10 E. McIver & Co. 18.15 In payment of which I have to acknowledge the receipt of your checks Nos. 107.732 and 107.733. Very Respectfully Your obedient Servant Jas H. Garrard Observer Sergt Sig Service U.S.A.
<b>Jan 29<sup>th</sup></b>	C.S.O.	Transmitted Forms 2, 4, midday 19, 20 and 24 <sup>th</sup> for week ending Jan 27 <sup>th</sup> /72 (weekly 4 due).
<b>Feb 3<sup>rd</sup>/72</b>		Wrote Capt H. W. Howgate in regard to Report of Morning of 29 <sup>th</sup> inst being 52 minutes late that Pvt. Wm. Henderson was sick during night and overslept himself in the morning.
<b>Feb 4<sup>th</sup>/72</b>	C.S.O.	Transmitting Forms 2,4, midday 19, 20, and 24 for week ending Feby 3 <sup>rd</sup> 1872 (weekly 4 due)
<b>Nashville, Tenn. Feb 3</b>	To Lt. A. W. Greely Act Sig Officer U.S.A.	Sir I have the honor to transmit herewith duplicate vouchers (duly signed) of the following parties viz



<b>1872</b>		<p>Treppard &amp; Co. 24.85  Jno B. Morris 13.00  Bradford Nichols 30.00  Gates &amp; Rohlman .75</p> <p>I could not have vouchers of Goodman &amp; Co and Newell Jones &amp; Co. signed as I have not yet succeeded in finding the parties. I will forward them immediately on obtaining the signatures.</p> <p>Very respectfully  Your obedient servant  Jas H. Garrard  Obs. Sgt. Sig. Serv. U.S.A.</p>
<b>Feb 4<sup>th</sup>/72</b>	C.S.O.	<p>Transmitted Form 4 weekly for week ending January 20<sup>th</sup> 1872</p>
<b>Nashville, Tenn. Feb 5<sup>th</sup>/72</b>	To the Chief Signal Officer of the Army Washington D.C.	<p>Sir</p> <p>I would respectfully state that Private Wm Henderson commenced receiving instructions in Loomis' Meteorology this week. Inflammation of the Eyes precluded him from receiving instructions before this time.</p> <p>Through a misunderstanding of the meaning of the Circular, I was under the impression that the Reports commenced at the time the Assistant began to receive instructions. If I have been remiss in my duty I would ask the indulgence of the Department as I had no intention of being so.</p> <p>Very respectfully  Your obedient servant  Jas H. Garrard  Obs Sergt Sig Ser USA</p>
<b>Nashville, Tenn. Feb 15/72</b>	To Capt H. W. Howgate	<p>Sir</p> <p>I have the honor to state in explanation why the Midnight Reports of the 10<sup>th</sup> &amp; 11<sup>th</sup> inst and the Morning Report of the 15<sup>th</sup> inst were not filed in due time was for the following reasons. For the past three weeks I have been suffering with Pleurisy and consequently lost a great deal of sleep on the night of the 10<sup>th</sup> I was on duty and at work on some of my papers which had been delayed but fell asleep at the desk and did not awake until nearly an after the time of filing the report. When I filed it at the Telegraph Office on the night of the 11<sup>th</sup> and this morning I was unable to file the reports my assistant not being aware of it. I have made such arrangements that failures of this kind shall not occur in the future. Trusting that the Chief Signal Officer may deem my reason satisfactory.</p> <p>I am Sir</p> <p>Very respectfully  Your obedient Servant  Jas H. Garrard  Observer Sergt Signal Service USA</p>
<b>Nashville, Tenn. Febry</b>	To Capt H. W. Howgate	<p>Sir</p> <p>I have the honor to transmit herewith Bill and Memorandum Receipt for Flag Staff purchased of Griffen and Creighton the</p>

<b>16<sup>th</sup>/72</b>		Bill amounting to ten dollars for making and erecting same. Very respectfully Jas H. Garrard Observer Sergt Sig Serv USA
<b>Nashville, Tenn. Febry 16<sup>th</sup> 1872</b>	To Lieut A. W. Greely Act'g Sig Officer U.S.A. Washington D.C.	Sir I have the honor to transmit herewith duplicate Vouchers of Bills of Goodman & Co. and Newell Jones & Co. made out and signed in my own name. I have delayed sending the Vouchers before this as there was a prospect of Mr. Jones of Newell Jones & Co. being in town in a few days but now there is no prospect of his being here before summer. Very respectfully Your obedient servant Jas H. Garrard Observer Sergeant Sig Service USA
<b>Feb 17/72</b>	C.S.O.	Transmitting form 4 weekly for week ending January 27/72
<b>Nashville, Tenn. Febry 18<sup>th</sup>/72</b>	To Capt H. W. Howgate ASO and Asst	Sir, I have the honor to transmit herewith, Error Sheet for week ending Febry 3 <sup>rd</sup> /72 with the clerical errors corrected. Private Henderson is making out the Bulletins on the forms 2 checks but the station missing and received after schedule time. in this case failed to get them correct, such errors will be avoided in the future. Owing to ill health some of my reports have been delayed but I will have them finished and forwarded, within the next ten days. I would respectfully ask the indulgence of the department for that length of time. Very respectfully Your obedient servant Jas H. Garrard Observer Sergeant Signal Service U.S.A.
<b>Nashville, Tenn. Febry. 20<sup>th</sup> 1872</b>	To the Chief Signal Officer	Sir I have the honor to transmit herewith the following information in accordance with letter of instructions from Chief Signal Office dated February 13 <sup>th</sup> 1872 viz. The official bench mark is 62.75 ft above the zero (0) of the water gauge (the gauge being attached to the Drawer Pier of the L and N RR Bridge) and is at the NE cor of the 3 <sup>rd</sup> course (projecting course) of the West abutment of the Railroad Bridge. The average depth of this point is 12.0 feet. The zero of the gauge being at extreme low water, at the upper wharf the depth of channel is 8.11 feet and at the lower 12 feet. Very respectfully Your Obed't Servt. Jas H. Garrard Observer Serg't Sig Serv U.S.A.

		See pages #143 & 146
<b>Nashville, Tenn. Feb 21st, 1872</b>	Chief Signal Officer USA Washington D.C.	<p>Sir I have the honor to report that Pvt. Wm Henderson received instructions in Loonie Meteorology for the weeks ending Feb 11 and 17<sup>th</sup>. His recitations consisting of the first two chapters and were recited perfectly. Very respectfully Your obedient servant (Signed) Jas H. Garrard Obser. Sergt Signal Service U.S.A.</p> <p>Scratched out below – March 17 1872 Transmitted to C.S.O. Form 22<sup>nd</sup>, Mouth Chart, Abstract of Journal</p>
<b>Nashville, Tenn., Feb. 26<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D.C.	<p>Sir, I have the honor to transmit herewith gross city report of Signal Service property in my possession the 31 Bday of December 1871 also my final return of property transferred to Observer Sergeant W. S. Kaufman together with his receipt for the same. I would respectfully state that my return for quarter ending Dec. 31 1871 was delayed owing to sickness. Very respectfully Your obdt. servant (Signed) Jas. H Garrard Observer Serg Signal Service U.S.A.</p>
<b>Nashville, Tenn. Feb 22<sup>nd</sup> 1872</b>	Chief Signal Officer Washington, D.C.	<p>Sir, I have the honor to inform you of my arrival in this city last evening having been detained in Union City on the night of the 20<sup>th</sup>, the train which formerly made through connection from Union City to this place at night having been discontinued within the past week. I found Sergt. Garrard suffering from an attack of Pleurisy but partially able to perform his duties. I think it advisable for Sergt. Garrard to remain here several days on account of his sickness, and more especially as there is a portion of the back work undone, which will require his assistance to make up. I will make a more extended report of the condition of affairs at this station as soon as I can make myself acquainted with them. Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergt. Signal Service U.S.A.</p>
<b>Feb. 24<sup>th</sup></b>	Transmitted	Forms 4 and 2, Forms 4 midday report, forms 20, 24. Error Sheet for week ending Feb. 24 <sup>th</sup> 1872.

<p><b>Nashville, Tenn. February 29<sup>th</sup> 1872</b></p>	<p>Chief Signal Office U.S.A. Washington D.C.</p>	<p>Sir, I have the honor to submit the following report. In obedience to special orders No. 21 dated Washington D.C. Feb 15<sup>th</sup> 1872 and received by me while on duty at Chicago, Ill. I proceeded to this station and relieved Sergeant J.H. Garrard on the 22<sup>nd</sup> of this month, receiving from him all the instruments, instructions, papers and everything appertaining to this office, with the exception of a pair of marine glasses which Sergeant Garrard has loaned or disposed of some way, which I cannot ascertain. Those glasses being necessary for the purpose of taking observations of the river gauge on occasions should never have been taken out of the office except for that purpose. Everything received from Sergt. Garrard is in good condition with the following exceptions. 1. Mason 's hygrometer (old style) water tube broken 2. Chairs badly broken and which I am now having repaired. 1 Lantern glass broken, 46 yds. Cocoa matting considerably now and owing to the absence of spittoons so filthy from spittle (from visitors and others) as to give an observing person anything but a favorable impression of the cleanliness of the occupant. I would respectfully request that this be remedied by a new matting or by having the process one taken up and cleaned. The situation of the different instruments are as good as can be chosen but faulty in case of the Exposed Thermometer and Hygrometer, owing to the inadequacy of the present shelter to protect them from radiation; this building faces about NE ½ E and therefore is exposed to the sun's rays until about 11 a.m. This will affect the morning observation as the shelter is but the ordinary one and which will allow sufficient radiation to make the reading of the instruments enclosed several degrees higher than they should be. I think that the radiation can be materially decreased by the addition of two sides to the shelter, placed several inches from the inner ones - thus (<i>illegible symbol</i>). The spindle of the anemometer has become now sufficiently to affect the reading. I have endeavored to remedy this by replacing the spindle with a new one, but found that the new spindle will have to go through the hands of a mechanic so as to make it fit properly. The anemometer although to all appearances erected properly works too stiff requiring around of three or four miles an hour velocity to affect it. This does not however affect the telling of the direction of the wind, as I have never experienced any difficulty in that respect. I would respectfully call your attention to the fact of these being a misunderstanding in regard to the proper height of the barometer above the sea level. The C.S.O. report of 1871 gives the elevation as 332 ft., the elevation used here in correcting for this purpose is 51.5 ft which the height as given by the City Engineer is 512 ft3 in. being formed as follows - height of bench mark above sea level 251 ft 6 in height of ground above</p>
--	---	---

		<p>bench mark 2.4 ft. height of barometer above ground 41 ft. 9 in.. Total 572 ft 3 in. The height of bench mark above sea level is deduced by Major Wilber Foster, City Engineer from High Tide in Mobile Bay, that fact may cause some differences in the heights, but will not account for the three different as given above, there is evidently a wrong <i>illegible</i> that needs righting and I would ask your attention to the case and to be furnished with the proper heights, than I may be enabled to work out the corrections for elevation in a proper manner. At present there are seven bulletins issued in the morning and posted and three issued in the afternoon two of which are issued to the papers and by them published in the morning. There are no bulletins published in the afternoon for the reason their by the time the reports are translated it is too late for them to be seen. The bulletin boards being placed outside the differing buildings. Sergeant Garrard informed me that he had endeavored to have better places assigned them but couldn't succeed. The manner in which the work of this station has heretofore been done is anything but credible to the observers in charge. There has been no record of bulletins kept since Feb. 4<sup>th</sup> 1871 and previous to that has an occasional one was entered in record book. This together with other work remaining undone shows that the station has been conducted in any way but the proper one. I shall finish up all back work as soon as possible and endeavor to meet the commendation of all concerned in the conducting of the station.</p> <p>Very respectfully Your Obdt. Servt. W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<p><b>Nashville, Tenn. February 28<sup>th</sup> 1872</b></p>	<p>Chief Signal Officer Washington D.C.</p>	<p>Sir, I respectfully request that I may be allowed to discontinue the course of Instruction lately began in obedience to orders from C.S.O. with Private William Henderson. In order to finish up all the back work of this station in seasonable time I shall require all the assistance Private Henderson can give me, and which will be such as to defus him from pursuing the course of Instructions in the proper manner. As soon as practicable I will resume the course of instruction until then I respectfully as the indulgence of the CSO. Very respectfully Your obdt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<p><b>Nashville, Tenn., Feb. 28, 1872</b></p>	<p>Chief Signal Officer Washington D.C.</p>	<p>Sir, I would respectfully request that the station may be supplied with the following articles, all of which are very much needed, the supply being nearly or quite exhausted: Official Envelopes, Small Envelopes, note paper, India rubber,</p>

		<p>Lead pencils, blotting paper, Mucilage, pair of shears, Forms (4)</p> <p>Very respectfully Your obdt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>										
<p><b>Nashville, Tenn., Feb. 29, 1872</b></p>	<p>Chief Signal Officer U.S.A. Washington D.C.</p>	<p>Sir, I have the honor to transmit herewith the following bills:</p> <table> <tr> <td>William Ganetson and Co. for</td> <td>\$16.67</td> </tr> <tr> <td>E. McIver and Co. for</td> <td>30.00</td> </tr> <tr> <td>C. H. Gawthien for</td> <td>2.85</td> </tr> <tr> <td>W. S. Kaufman for</td> <td>2.50</td> </tr> <tr> <td><b>Total</b></td> <td><b>52.02</b></td> </tr> </table> <p>The bill for rent of office which in this case is made out to Wm. Ganetson and Co. will here-after be rendered by the States Insurance Co. from whom the office since Jan. 1<sup>st</sup>, 1872 is rented direct. C. H. Gauthiers bill consists of articles purchased by Sergt J. H. Gannard and which are used in the tracing of the Meteorological Charts. The other two bills are for necessary articles purchased. I would respectfully call your attention to the fact that since I have taken charge of this station several parties whose bills have been forwarded to the C.S.O. for settlement by Sergt. Gannard have called on me in reference to their accounts, desiring to have them settled, as soon as convenient, they being in moderate circumstances and very much in need of the funds, especially those connected with the erection of the water gauge.</p> <p>Very respectfully Your obedient servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>	William Ganetson and Co. for	\$16.67	E. McIver and Co. for	30.00	C. H. Gawthien for	2.85	W. S. Kaufman for	2.50	<b>Total</b>	<b>52.02</b>
William Ganetson and Co. for	\$16.67											
E. McIver and Co. for	30.00											
C. H. Gawthien for	2.85											
W. S. Kaufman for	2.50											
<b>Total</b>	<b>52.02</b>											
<p><b>Nashville, Tenn., Feb. 29, 1872</b></p>	<p>Chief Signal Officer U.S.A. Washington D.C.</p>	<p>Sir, I have been requested by Cap. D. and Bvt. Lt. Col. Gilmore in charge of the recruiting office in this City to apply for a copy of C.S.O. reports of 1871. Also by Mr. J. B. Morris, Chief Operator in W. U. Tel. Co. for a copy of the cipher book used in translating reports, both of the gentlemen take considerable interest in the welfare of this station and would be pleased to have their request granted.</p> <p>Very respectfully Your obedient Servant W. S. Kaufman Observer Sergeant Signal Service USA</p>										

<b>March 1<sup>st</sup> 1872</b>	Transmitted to C.S.O.	From 22. Monthly chart – Abstract of Journal.
<b>Nashville, Tenn., March 3<sup>rd</sup> 1872</b>	Chief Signal Officer U.S.A. Washington D.C.	<p>Sir, I have the honor to transmit herewith the usual weekly records of this station for work ending March 2 together with forms 4 for weeks ending November 4<sup>th</sup> and 11<sup>th</sup> 1871 and February 5<sup>th</sup>, 10<sup>th</sup>, 17<sup>th</sup>, 1872 and meteorological charts for the month of Nov., Dec. of 1871 and Jan. 1872. A portion of the work unfinished by Sergeant Gannard. Sergeant G. also left me some directions as to work unfinished by his predecessor Sergeant Watson and which was required of him (Sergeant G.) but not finished. As I do not thoroughly understand his directions, I would respectfully for the necessary information so as to finish up the back work of this station.</p> <p>Very respectfully Your Obedt. Servant W. S. Kaufman Observer Sergeant Signal Service USA</p>
<b>March 3<sup>rd</sup></b>	Transmitted to C.S.O.	Forms 4 – midday report for the 20, 24, 2, 19 for week ending Mar. 2 <sup>nd</sup> 1872 also meteorological charts for Nov., Dec. 1871, and Jan. 1872. Forms 4 for Nov. 4 <sup>th</sup> , 11 <sup>th</sup> 1871 and Feb. 5 <sup>th</sup> 10 <sup>th</sup> 17 <sup>th</sup> 1872, Form 22 for Jan. 1872.
<b>Nashville, Tenn., March 6<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington D.C.	<p>Sir, I respectfully request that I may be allowed to use the last Daily Bulletin Book issued previous to Jan. 1<sup>st</sup> 1872 as a letter book by removing <math>\frac{3}{4}</math> of each leaf and pasting in the letters. This plan is an excellent one where reference has to be made to instruction of back dates. The book I wish to use has never had a single bulletin entered and is not adapted to the present style of bulletins.</p> <p>Very respectfully Your Obedt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<b>Nashville, Tenn., March 11<sup>th</sup> 1872</b>	Chief Signal Office U.S.A. Washington D.C.	<p>Sir, I have the honor to report that the recitations of Private Henderson for the past week were very imperfectly recited.</p> <p>Very respectfully Your obedient Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>

<b>March 11<sup>th</sup></b>	Transmitted to C.S.O.	Forms 2 & 4 – 4 midday report – 19, 20, 24 and report of Instructions
<b>March 11<sup>th</sup></b>		Transmitted Bill of State Insurance Co. for rent for quarter ending March 31 <sup>st</sup> 1872.
<b>Nashville, Tenn., March 12<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington DC	<p>Sir,</p> <p>I have the honor to transmit herewith a copy of Form 4 (7-2-9) for weeking? ending February 24<sup>th</sup> and would respectfully state that the original of this copy was enclosed with all of the data for that week in one package also the telegraphic reports for February 24<sup>th</sup> the balance of telegraphic reports for that week were forwarded daily to the CSO. Three remains at this station the following Forms of back dates. Forms 2 for November and December 1870, February and part of March 1871. Forms 1 and 5 for part of the months of January, February, June, July, and August. There are also on hand the following articles of the style used previous to January 1872 and not, especially adapted to the previous system of working, Two (2) Bulletin books, four hundred (400) Forms 1, five hundred (500) Forms 2, Seven hundred fifty (750) Forms 3, Nine hundred (900) Forms 5, one thousand (1000) Forms 7, five hundred (500) Forms 7 (No. 1). Five hundred (500) Forms 7 (No. 2). Forms 7 are not used as the papers publish the reports from the Bulletin (Form 3). I would respectfully request that I may be informed as to the disposition discussed with the above articles. There is needed a further supply of the following articles – forms 2, 3, 5, one “daily Bulletin Book,” 1 Book daily record of Observations, one Ink Eraser, also a box of gums for encircling letters papers etc.</p> <p>Very respectfully, Your obedient Servant, W. S. Kaufman Observer Sergeant Signal Service USA</p>
<b>Nashville, Tenn., March 14<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington DC	<p>Sir,</p> <p>I have the honor to request a supply of Meteorological Charts.</p> <p>Very respectfully You obedient Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<b>Nashville, Tenn., March 16<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington DC	<p>Sir,</p> <p>I have the honor to request information in the following subject: Sometime since I saw in the proceedings of Congress that a Bill had passed for the relief of the Soldiers that had suffered by the Chicago Fire, being on duty there at the time and having lost considerable clothing, I would respectfully ask in what manner, and to whom such a claim should be made.</p>



		<p>Very respectfully Your obedient servant W. S. Kaufman Observer Sergeant Signal Service USA</p>
<b>Mar. 16<sup>th</sup></b>	Transmitted – bill for coal	\$6.00
<b>Mar. 17<sup>th</sup></b>	Transmitted to C.S.O.	Forms 4-2-4 midday report – 19.20.24 and report of instruction.
<b>Nashville, Tenn., March 1<sup>st</sup> 1872</b>	Chief Signal Officer U.S.A. Washington DC	<p>Sir:</p> <p>I respectfully ask for more definite information on the following subject. Since the adoption of the new cipher, I have always been accustomed to note the upper clouds and designate them by the point p.m. which came: that is clouds moving from W. to E. would be called W. such was the interpretation adopted and used in Chicago, Illinois. Here I find that the system has been used clouds moving from W to E would be called E. as I have noted a <i>illegible</i> of opinions among observers. I would respectfully ask to be informed which is the correct manner of noting the direction of upper clouds.</p> <p>Very respectfully W. S. Kaufman Observer Sergeant Signal Service USA</p>
<b>Nashville, Tenn., March 17<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington DC	<p>Sir,</p> <p>I have the honor to report that Private William Henderson made no recitation in Meteorology this week on account of weak eyes preventing his giving the proper time and attention to the study of the same.</p> <p>Very respectfully Your obedient Servant W. S. Kaufman Observer Sergeant Signal Service USA</p>
<b>Nashville, Tenn., March 21<sup>st</sup> 1872</b>	Chief Signal Officer U.S.A. Washington DC	<p>Sir</p> <p>I have the honor to state that there has been mailed from this office to the C.S.O. the following 2 Bulletin books – 400 Forms 1 500 Forms 2, 750 Forms 3, 900 Forms 5, 1000 Forms 7 (No 1), 500 Forms 7 (b1), 500 Forms 7 (b2), also forms 2 for November and December 1870, February and part of March 1871. Forms 1 and 5 for part of the months Jan, Feb, June, July, and August 1871.</p> <p>Very respectfully Your obedient Servant</p>

		W. S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Nashville, Tenn., March 23<sup>rd</sup> 1872</b>	Chief Signal Officer USA Washington DC	Sir:  I have the honor to request that in case this station is furnished with a different height for corrections for Barometer for altitude, from the data recently mailed to the C.S.O. that I may also be furnished with a table, with the correction for altitude marked out. I was informed on taking charge of this station, that Private Henderson could not be made to comprehend the working out of Barometrical corrections for altitude but depended altogether upon a table with corrections marked out; I have found that statement to be correct, and after several trials have given it up as a hopeless task.  Respectfully Your obedient Servant, W. S. Kaufman Observer Sergeant Signal Service USA
<b>Nashville, Tenn., March 24<sup>th</sup>, 1872</b>	Chief Signal Officer USA Washington DC	Sir:  I have the honor to report that Private Henderson recitation in Meteorology for this week was fair.  Very respectfully Your obedient Servant W. S. Kaufman Observer Sergeant Signal Service USA
<b>March 24<sup>th</sup> 1872</b>	Transmitted to CSO	Forms 2, 4 – 4 Midday report – 19, 20, 24 and report of instruction
<b>Nashville, Tenn., March 24<sup>th</sup>, 1872</b>	Chief Signal Officer USA Washington DC	Sir:  I have the honor to acknowledge the receipt of your communication of the 15 <sup>th</sup> inst. calling my attention to an enclosed slip cut from the “Memphis Avalanche” of the 9 <sup>th</sup> inst. Commenting on the discrepancies in the River Reports from Nashville, Tenn.. I took the liberty of calling the attention of the Editor of the “Union and American” to the fact, Suggesting the importance of including the “River Report” in the form of bulletin as published by his paper, the result can be seen by the enclosed slip, and which may have a tendency to prevent mistakes of the kind referred to – occurring in the future.  Very Respectfully, Your Ob. Sevt. W. S. Kaufman Ob. Sergt. Sig. Serv. U.S.A.

<b>Nashville, Tenn., March 31<sup>st</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir,  I have the honor to report that Private William Henderson made no recitation in meteorology the past week, owing to his suffering from a severe sick headache which prevented his applying himself to the study of the same (?).  Very Respectfully, Your Obdt Servant W.S. Kaufman Ob. Sergt. Sig. Serv. U.S.A.
<b>April 1<sup>st</sup>, 1872</b>	Transmitted to C.S.O. Washington, D.C.	Forms 2.4 -4 (midday report). 19.29 24. And report of instructions weekly reports. – Forms 22. Meteorological chart, abstract of journal, and means of telegraphic reports for March, also meteorological charts for the month of June and July, 1871.
<b>Nashville, Tenn., April 1<sup>st</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir, I have the honor to request a supply of letter paper. “Quarterly returns” Forms 19.20.22.24, also request that this station be furnished with a pr. of marine glasses for taking observations of the River gauge; during low water it is very difficult to obtain a correct reading of the gauge, as an observer cannot get close enough for that purpose.  Very Respectfully, Your obdt servant W.S. Kaufman Observer Sergt. Signal Service U.S.A.
<b>Nashville, Tenn., April 1<sup>st</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir,  I have the honor to state that no recitation was made in meteorology this week, on account of Private William Henderson being relieved to late; to permit of Private Wm C.W. Shrack preparing himself for reciting.  Very Respectfully, Your Obdt Servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>April 7<sup>th</sup></b>	Transmitted to C.S.O.	Forms 2.4. 4 midday report. 19.20.24. and report of instruction.
<b>Nashville, Tenn., April 9<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir,  I have the honor to acknowledge the receipt of your communication of the 5 <sup>th</sup> with the bills of E, McIver who for coal enclosed – asking for an explanation of why so much coal was purchased in so short a time. In reply I would state that the amount was not so great as first represented. The first sell their coal by the lead (equal to ¾ ton) and made the mistake in

		<p>rendering the <i>illegible</i> of purchased made by Sergt. Garrow of calling each had a ton. The last load purchased by Sergt. G. was delivered Feb. 22<sup>nd</sup>, since that time – I have purchased <math>\frac{3}{4}</math> of a ton <math>\frac{1}{2}</math> a ton of which is expended (?). The reason so much was used between Dec. 29 1871 and Feb. 22 1872, was caused by the fact of this office being so large (15 + 19) that an unusual quantity was regained to keep it comfortable.</p> <p>Very Respectable, W.S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.</p>
<p><b>Nashville, Tenn., April 10<sup>th</sup>, 1872</b></p>	<p>Chief Signal Officer, U.S.A., Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to state that the river gauge at this station was carried away from its position on the middle abutment of the L. and N. R. R. Bridge by the driftwood, last night. Through the courtesy of Mr. Edward Mead Asst. Engr. Cumberland River Survey who assisted in the erection of the gauge I was enabled to obtain the height of the water, this afternoon, as the gauge would have shown; Mr. Mead has very kindly undertaken to keep a temporary gauge in position so as to enable the stage of the water to be ascertained each day. Mr. Mead informs me that I will not be able to have a gauge erected in the position of the one lost, and which is the best position to be from, for some two or three months, as the river will remain too high to afford an opportunity of securing it firmly. In the mean time through his courtesy I can obtain the stage of the river each day and unless otherwise ordered I will have everything prepared, so that on the first favorable opportunity, a new gauge can be erected.</p> <p>Very Respectfully W.S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.</p>
<p><b>Nashville, Tenn., April 10<sup>th</sup>, 1872</b></p>	<p>Chief Signal Officer, U.S.A., Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to acknowledge the receipt of "Circular No. 14" in reference to additional instruction to Asst. Observers, and would respectfully request to be furnished with a copy of the "Modern Practice of the Electric Telegraph" by H. L. Pope.</p> <p>Very Respectfully Your Obed't Servant W. S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.</p>
<p><b>Nashville, Tenn., April 13<sup>th</sup> 1872</b></p>	<p>Chief Signal Officer, U.S.A. Washington, D.C.</p>	<p>Sir,</p> <p>I have the honor to request a supply of Form 3.</p>

		Very Respectfully and C. W. S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.
<b>Nashville, Tenn., April 13<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir,  I have the honor to report that the recitation of Private W.C.W. Shreck, in meteorology was fair.  Very Respectfully Your Obd't Servant W. S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.
<b>April 14<sup>th</sup></b>	Transmitted to C.S.O.	Forms 2.4.4 mid-day report 19.20.24. and reports of instruction.
<b>Nashville, Tenn., April 20<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir,  I have the honor to acknowledge the receipt of New Cipher Cards with accompanying instructions. In the amount, kind, and directions of upper clouds, there are nine different words used to express the term "clear", either of which may be used with equal propriety. As a single word will express that term, and to prevent unnecessary reference to the card, I would respectfully suggest that a single word be used.  Very Respectfully Your Obd't Servant W.S. Kaufman Ob. Sergt. Sig. Serv. U.S.A.  Transmitted April 20, 1872. W.S. Kaufman's bill 15.50 Griffin and Creighton 14.00
<b>Nashville, Tenn., April 20<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir,  I have the honor to report that Patrick W.C.W. Shreck's recitation in Meteorology for the past week was good.  Very Respectfully Your Obd't Servant, W.S. Kaufman Ob. Sergt. Sig. Service, U.S.A.
<b>Nashville, Tenn., April 27<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir,  I have the honor to report that Private W.C.W. Shreck's recitation in Meteorology for the past week was good.  Very Respectfully Your Obd't Servant W.S. Kaufman

		Ob. Sergt. Sig. Serv. U.S.A.
<b>April 29<sup>th</sup></b>	Transferred to C.S.O.	Forms 4 – 4 mid-day report – 2. 19.20.24. and report of instruction.
<b>Nashville, Tenn., April 29<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. W.S. Kaufman D.C.	<p>Sir:</p> <p>I have the honor to request that I may be supplied as soon as possible, with the following articles. 20 arrows, 10 brass clamp screws?, wrapping paper, official envelopes, pens, pen holders. I would also request that I may be authorized to purchase two additional chairs for this office. In my endeavor to make this office of as much utility as possible, I have been favored with numbers of visitors and on several occasions have been unpleasantly situated by not having seats to offer them.</p> <p>Very Respectfully etc., W. S. Kaufman Ob. Sergt. Sig. Serv. U.S.A.</p>
<b>Nashville, Tenn., May 1<sup>st</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to acknowledge the receipt of Circular No. 18 referring to the time the telegraph office at this station opens and closes for business purposes, and would respectfully state in reply, that the office opens at 7 a.m. and closes as soon as the business at night is finished, the time averaging about 1:30 a.m.</p> <p>Very Respectfully Your Obd't Servant W. S. Kaufman Ob. Sergt. Sig. Serv. U.S.A.</p>
<b>May 1<sup>st</sup> 1872</b>	Transmitted to C.S.A.	Form 22 – Abstract of Monthly Journal, monthly meteorological chart and monthly mean of a.m. p.m. and M. observations of Bar. and Ther.
<b>Nashville, Tenn., May 4<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to state that the recitation in Meteorology of Private W.C.W. Shreck for the past week was good.</p> <p>Very Respectfully Your Obd't Servant W. S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.</p>
<b>May 1<sup>st</sup></b>	Transmitted to C.S.O.	Forms 2. 4. 4 midday report. 19.20.24. And report of instruction.

<b>Nashville, Tenn., May 11<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir  I have the honor to request a supply of forms 2, cap paper and permission to purchase one bottle each of writing fluid and mucilage.  Very Respectfully Your Obdt. Servant W.S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.
<b>Nashville, Tenn., May 12<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D. C.	Sir  I have the honor to report that the recitation of Patrick W.C.W. Shreck in meteorology for the past week was fair.  Very Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergt. Signal Service U.S.A.
<b>May 15<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2. 4. 4 midday report. 19. 20. 24. and report of instructions.
<b>Nashville, Tenn., May 17<sup>th</sup> 1872</b>	Chief Signal Official, U.S.A. Washington, D.C.	Sir:  I have the honor to acknowledge the receipt of communication of 7 <sup>th</sup> inst. giving height of water in river of various stations with instructions to add another column to river bulletin to show current depth of water not thoroughly understanding the instruction I respectfully request to know if by river bulletin is meant that which is furnished to the papers as per enclosed samples, as the daily bulletins not not admit of an additional column. I have only given the information to the public through the papers. I would also state that the standard trading stage of the water in Cumberland River is five feet above low water mark, and such was its height May 5 <sup>th</sup> , also request to know the stage of water at Shreveport, La.  Very Respectfully Your Obdt Servant W. S. Kaufman Ob. Sergt. Signal Service U.S.A.
<b>Nashville, Tenn., May 18<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir, I have the honor to report that the recitation in meteorology for the past week of Private W.C.W. Shreck was indifferent.  Very Respectfully Your Obdt Servant W.S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.

<b>May 20<sup>th</sup> 1872</b>	Transmitted to C.S.O.	Forms 4. 4 midday report – 19. 20. 24. and report of instructions.
<b>Nashville, Tenn., May 24<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to transmit herewith the bills of H.G. Conley for painting and Griffin and Creighton for erection of River Gauge including material for same.</p> <p>The cost of the present gauge being so much in excess of the former one, I deem it proper to state that the additional cost arises partly from the selection of better material, but more from the manner and place in which it is erected. I selected the A.W. face (down stream) of South draw pier of L. and A. R. R, Bridge where it will not be effected by the driftwood, and had it so secured that it will be impossible for it to be carried away by any rising of the river. The erection of it in this manner was attended with great difficulty and was the cause principally of the additional cost.</p> <p>I would respectfully call your attention to a communication from C. S. Office of April 24<sup>th</sup> by which I am required to pay for a bulletin board which I ordered made for the benefit of this office but without special authority. That I erred in so doing is very evident, but when I state that it was for the "Nashville, Tenn. Library Association" who were very anxious to have one placed in their reading room, that it was the only one needed here and the expense of sending one from the C.S.O. would have been greater than having one made here, I hope, under these circumstances the decision will be reversed and the proper department bear the expense.</p> <p>Very Respectfully W.S. Kaufman Ob. Sergt. Sig. Service, U.S.A.</p>
<b>River guage - See pages 154, 143, 146.</b>		
<b>Nashville, Tenn., May 21<sup>st</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	<p>Sir:</p> <p>I have the honor to state that the recitation in meterorology of Private W. C. W. Shreck for the past week was fair.</p> <p>Very Respectfully Your Obdt Servant W. S. Kaufman Ob. Sergt. Signal Service U.S.A.</p>
<b>May 21<sup>st</sup> 1872</b>	Transmitted to C.S.O.	Forms 4. 4. Midday report – 19. 20. 24 and report of instruction.



<b>Nashville, Tenn., May 31<sup>st</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir: I have the honor to acknowledge the receipt of Circular No. 24. The number of circulars received since Jan. 1 <sup>st</sup> , 1872 is eighteen (18); of orders, eight (8). The orders include only the general and special. Very Respectfully Your Obdt. Servant W. S. Kaufman Ob. Sergt. Signal Service U.S.A.
<b>Nashville, Tenn., June 2<sup>nd</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir I have the honor to acknowledge the receipt of Circular No. 25 accompanying book of Original Record of Meteorological Observations. Very Respectfully Your Obd't Servant W.S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.
<b>June 3<sup>rd</sup> 1872</b>		Transmitted to C.S.O. Forms 4. – 4 midday report – 19. 20. 24 and report of instructions all for week ending June 7 <sup>th</sup> . Also monthly meteorological chart, abstract of journal, monthly means of a.m. p.m. and m. observations of barometer and thermometer and Form 22.
<b>Nashville, Tenn., June 3<sup>rd</sup> , 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir I have the honor to acknowledge the receipt of one copy of the new cipher in book form for the use of this station. Very Respectfully Your Obd't Servant W. S. Kaufman Ob. Sergt. Signal Service U.S.A.
<b>Nashville, Tenn., June 3<sup>rd</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir: I have the honor to state that Private W. C. W. Shreck's recitation in meteorology for the past week was fair. Very Respectfully Your Obdt. Servant W. S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn., June 8<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir: I have the honor to acknowledge the receipt of Circular No. 21 and Gen. Order No. 15. Very Respectfully Your Obd't Servant W. S. Kaufman Ob. Sergt. Signal Service U.S.A.
<b>Nashville, Tenn., June 8<sup>th</sup></b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir: The hour to report that Private W. C. W. Shrecks recitation in Meteorology for the past week was good.

<b>1872</b>		Very Respectfully Your Obdt Servant S. S. Kaufman Ob. Sergt Signal Service, U. S. A.
<b>June 11<sup>th</sup> 1872</b>	Transmitted to C.S.O.	Form 4, 4 midday report, 19, 20, 24, and report of instruction
<b>Nashville, Tenn., June 11<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D.C.	Sir: I have the honor to acknowledge the receipt of the Gen. Order No 11. Very Respectfully Your Obdt. Serv. W. S. Kaufman Ob. Sergt Signal Service, U.S.A.
<b>Nashville, Tenn., June 15<sup>th</sup> 1872</b>	Chief Signal Officer, U. S. A. Washington, D. C.	Sir: I respectfully request a supply of forms 3 and 5 a Bulletin book, abstract of contingencies, Receipt rolls of enlisted men, a recruiting flag, also an anemometer, the present one does not indicate properly, the new spindle has been fitted to it, besides being otherwise repaired twice. Very respectfully, W. S. Kaufman Ob. Sergt Sig. Service U.S.A.
<b>Nashville, Tenn., June 15<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A.	Sir: I have the honor to report that the recitation of Private W. C. W. Shrock in Meteorology for the past week was but fair. Very respectfully, W. S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.
<b>Nashville, Tenn., June 22, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir: I have the honor to inform you that the recitation of Private W.C.W. Shreck in Meteorology for the past week was good.  Very respectfully Your Obdt Servant W. S. Kaufman Ob. Sergt. Signal Service U.S.A.
<b>Nashville, Tenn., June 29<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir: I have the honor to state that the recitation of Private W.C.W. Shreck in Meteorology for the past week was very fair.  Respectfully Your Obdt Servant W. S. Kaufman Observer Sergeant Signal Service, U.S.A.
<b>Nashville, Tenn., June 29<sup>th</sup>,</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir, I have the honor to enclose herewith a duplicate-bill of Griffin

<b>1872</b>		<p>and Creight for the erection of a flag staff for this office. The original of the bill was forwarded to the C.S.O. some time in February by Sergt. Garrard by whom the staff was ordered, The amount of the bill was not included in the settlement of the firm's bills.</p> <p>Very Respectfully Your Obdt. Servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.</p>
<b>July 1st, 1872</b>	Transmitted to C.S.O.	Forms 4, 4 IN. D. Report, 19, 20, 24. Report of instruction 22. Meteorological chart. Abstract of Journal. Mean of A.M. P.M. M. Reports of Bar. And Ther.
<b>Nashville, Tenn., July 4th, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir,</p> <p>I have the honor to acknowledge the receipt of circular No. 27.</p> <p>Very Respectfully Your Obdt. Servant W.S. Kaufman Ob. Sergt. Sig. Ser. U.S.A.</p>
<b>Nashville, Tenn., July 5th, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir,</p> <p>I have the honor to acknowledge the receipt of circular No. 29.</p> <p>Very Respectfully, Your Obdt. Servant W.S. Kaufman Ob. Sergt. Sig. Service U.S.A</p>
<b>Nashville, Tenn., July 1st, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to acknowledge the receipt of Circular No. 28.</p> <p>Very Respectfully Your Obd't Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<b>Nashville, Tenn., July 1st, 1872</b>	Chief Signal Officer, U.S.A Washington, D.C.	<p>Sir;</p> <p>I have the honor to report that Private W.C.W. Shreck made no recitation in Metereology during the past week being prevented from preparing himself in the study of the same, by sickness.</p> <p>Very Respectfully Your Obdt Servant W.S. Kaufman Obser. Sergt. Sig. Service U.S.A.</p>

<b>July 8<sup>th</sup></b>	Transmitted to C.S.O.	Forms 4, 4 M.D., report 19, 20, 24, report of instruction and abstract A.
<b>Nashville, Tenn., July 8<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir:  I have the honor to acknowledge the receipt of circular no. 30.  Very Respectfully, Your Obd. Servant W.S. Kaufman Observer Sergeant Signal Service, U.S.A.
<b>Nashville, Tenn., July 8<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington D.C.	Sir:  I have the honor to request information as to wheather (spelled incorrectly) the instructions contained in Circular 26 applies to all the date of the special mid-day report or only to the barometrical changes.  Very Respectfully Your Obd't Servant W.S. Kaufman Ob. Sergt. Signal Service U.S.A.
<b>Nashville, Tenn., July 9<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir;  I have the honor to acknowledge the receipt of Gen. Order No. 18 and Circular No. 31.  Very Respectfully, Your Obd't Servant W.S. Kaufman Observer Sergeant Sig. Service U.S.A.
<b>Nashville, Tenn., July 13<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir;  I have the honor to report that the recitation of Private W.C.W. Shreck in Meteorology for the past week was fair.  Very Respectfully, Your Obd't Servant W.S. Kaufman Observer Sergeant, Signal Service, U.S.A.
<b>Apr. 15<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms telegraphic reports, Form 4.4 M.D. report. 19.20. 24. Abstract "A" report of instructions.
<b>Nashville, Tenn., July 15<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir;  I have the honor to acknowledge the receipt of circulars 32 and 33. And Gen. orders No. 19.  Very Respectfully

		Your Obedt Servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Nashville,          Tenn.,          July 15          1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir:  I have the honor to acknowledge the receipt of a communication of the 11 <sup>th</sup> inst., which states that it is evident from my report of messages refused (Form A) I do not understand the meaning of Circulars No. 27, 28, and 31 and that the reports of this station are not sent on time as shown by the fact of their being received at the C.S.O. from 8 to 18 hours behind time. I must respectfully state that I think I have a very clear understanding of their meaning, Circular No. 27, after giving the manner in which "Form A" is to be filled up, directs that it will be sent in blank when no messages have been refused. Circular No. 28 directs that the regular Weather Report be presented on our regular schedule time, until further orders, whether any employees of the Telegraph Company are in the office, or not to receive them, and only in case of actual or anticipated neglect, or refusal on the part of any Telegraph Co to receive or transmit the message I am to punish them with an official notification (a printed form being furnished) each day, to the effect that during the ensuing twenty-four hours, certain specified messages will be presented at specified times for transmission, requesting their acceptance and transmission: and in case of actual or anticipated neglect etc. I am to keep all the necessary data to make my memory of each transaction complete. Circular No. 31 directs that Weather Reports be written only on the regular forms furnished by the C.S.O., the manner in which the printed instruction are to be modified and additional instructions as to the time in which the message is to be sent or returned to the observer Sergeant filing it, according to the foregoing understanding of the meaning of Circulars No. 27, 28, and 31, their instructions have been carried out literally. That the messages have not been received at the C.S.O. until from 8 to 18 hours behind time is, I am assured, not due to any neglect or carelessness on the part of the employees of the Telegraph Co. of this city. I have been permitted by the Superintendents of the Telegraph Co. of this place to examine all messages transmitted from this station since July 1 <sup>st</sup> , and found but one instance (A.M. report of 7 <sup>th</sup> ) when the message has been sent after the usual time it being 8:45 a.m., cause Sunday morning and no operator at Louisville-the first repeating stations- until 8 a.m. to receive the report. The messages, as I found, had been sent the most frequently before their schedule time (7 <sup>21</sup> am., 4 <sup>21</sup> and 1121 p.m.) and on the average had been sent five minutes after their receipt. I hope the foregoing will prove that I not only understand the import of all instructions received, but that they are carried out literally, and that to no

		<p>one in this station may be attributed the fault of the non-arrival of the messages, on time, at the C.S. Office sent from this station. If I have shown that I do not thoroughly understand my instruction, I respectfully ask that such additional information be furnished that will give me a clear understanding of them.</p> <p>Very respectfully Your Obdt Servant W.S. Kaufman Ob. Sergt. Signal Service U.S.A.</p>
<b>Nashville, Tenn., July 21<sup>st</sup>, 1872</b>	Chief Signal Officer U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to report that the recitation of Private W.C.W. Shreck in the "manual of Signal's" for the past week was fair.</p> <p>Very respectfully Your Obd't Servant W.S. Kaufman Ob. Sergt. Signal Service U.S.A.</p>
<b>July 22<sup>nd</sup>, 1872</b>	Transmitted to C.S.O.	Forms 4, 4 M.D. report 19, 21, 24 report of Instruction and Telegraphic despatcher, "Form A."
<b>Nashville, Tenn., July 23<sup>rd</sup> 1872</b>	Chief Signal Officer U.S.A.	<p>Sir:</p> <p>I have the honor to acknowledge the receipt of circular No. 34.</p> <p>Very Respectfully Your Obd't. servant W.S. Kaufman Observer Sergt. Signal Service U.S.A.</p>
<b>Nashville, Tenn., July 23<sup>rd</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to request a supply of official envelopes and Form 4.</p> <p>Very Respectfully Your Obdt. Servant W. S. Kaufman Ob. Sergt. Signal Service, U.S.A.</p>
<b>Nashville, Tenn., July 23<sup>rd</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	<p>Sir:</p> <p>I have the honor to state that Col. S. T. Abert "Cumberland River Improvements" has requested me to obtain from the C.S.O. for him, the amt. of rain that fell during each month of 1871, as was shown on "forms 22." The Col. desires this information to make up official date for the improvement of the Cumberland River.</p> <p>I also have the honor to request that this office be furnished with a list of all the Meteorological stations and the names of</p>

		<p>the observer Sergt. filling them.</p> <p>Very Respectfully Your Obd. Servant W. S. Kaufman Ob. Sergt Signal Service U.S.A.</p>
<b>Nashville, Tenn., July 27<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington D.C.	<p>Sir:</p> <p>I have the honor to acknowledge the receipt of your communication of the 24<sup>th</sup>, directing that reliable information be obtained as to the number of wires marked by the "Western Union Telegraph Company" between Nashville, Tenn. and Louisville, Ky. and Nashville, Tenn. and Memphis, Tenn. and would state in reply that they have three (3) direct to both Louisville and Memphis and one (1) or two (2) other indirect communications with both cities.</p> <p>Very Respectfully Your obdt. servant W.S. Kaufman Ob. Sergt. Sig. Service U.S.A.</p>
<b>July 29<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms A, 4, 4 M.D. report, 19, 20, 24 report of instruction and Telegraphic reports of river stations.
<b>Nashville, Tenn., July 28<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to state that Private W.C.W. Shreck failed to prepare himself for any recitation for the past week.</p> <p>Very Respectfully Your Obd. Servant W.S. Kaufman Observer Sergeant, Signal Service U.S.A.</p>
<b>Nashville, Tenn., July 30<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington D. C.	<p>Sir:</p> <p>I have the honor to request by direction of Lt. C. S. Smith A.S.O. and Inspector that this station be furnished with the following missing circulars and gen orders of current series:</p> <p>Circulars No. 2, 3, 8, 10, 13, 15, 18 Gen. Orders No. 1, 2, 4, 6, 9, 13, 17.</p> <p>Very Respectfully Your Obd. Servant W. S. Kaufman Ob. Sergt. Signal Service, U.S.A.</p>
<b>Nashville, Tenn., July 30<sup>th</sup>,</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to state that by direction of Lt. C. S. Smith</p>

<b>1872</b>		<p>A.S.O. and Inspector I have ordered to be made a table for placing Gibbon's Self Registering Apparatus for Anemometer upon the lower part being arranged for the battery. Also a glass case to cover the register, the whole at a cost of about ten (10) dollars. The cost was stated to Lt. Smith and allowed.</p> <p>Very Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<b>Nashville, Tenn., July 30<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to inform you that I have been directed by Lt. C. S. Smith A.S.O. and Inspector to make application for authority to make the following improvements at this office. To partition off one end of room in which the office is at present, and which is 1,4 ft. long, for office purposes. The cost will be about twenty-five (25) dollars, this will make a most decided improvement and will enable the observer to put and keep the office in a much neater manner than can be done at present.</p> <p>If partition be allowed, to have the part of the room enclosed whitewashed. To have an office case fitted up with doors cost about five (5) dollars. Ladder for ascending to roof cost about six (6) dollars. New case for rain gauge, cost about three (3) dollars. New support for anemometer cost about five (5) dollars, or be furnished with one of the telescopic kind as are now being made by direction of C.S.O. New flag staff cost about twelve (12) dollars an office sign, a gauge, a compass.</p> <p>Very respectfully Your Obdt. servant W.S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<b>Nashville, Tenn., July 30<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to request, by direction of Lt. C. S. Smith A .S.O. and Inspector a new recruiting flag.</p> <p>Very respectfully Your Obdt. Servant W.S. Kaufman Observer Sergt. Signal Service U.S.A.</p>
<b>August 1<sup>st</sup>, 1872</b>	Transmitted to C.S.O.	Form 22. Meteorological chart. Abstract of Journal. Means of a.m., p.m. and M. observation of Bar. and Ther. Original record of observations.
<b>Nashville, Tenn., Aug. 4<sup>th</sup></b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to report that Private W.C.W. Shreck made no</p>



<b>1872</b>		<p>recitations during the past week, his excuse being sickness.</p> <p>Very respectfully Your obdt. servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<b>Nashville, Tenn., Aug. 4<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to acknowledge the receipt of your communication of August 1<sup>st</sup> requiring the reason why Private Shreck did not prepare any recitation during week ending July 28<sup>th</sup>. I would respectfully state in reply, that Private Shreck gives sickness as the cause of his failing to prepare himself for recitation.</p> <p>Very Respectfully Your Obd't Servant W.S. Kaufman Observer Sergeant, Signal Service U.S.A.</p>
<b>Nashville, Tenn., Aug. 11<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to report that the recitation of Private W.C.W. Shreck for the past week in "Myer's Manual of Signal" was indifferently well.</p> <p>Very respectfully Your obd't Servant W. S. Kaufman Observer Sergeant, Signal Service U.S.A.</p>
<b>Nashville, Tenn., Aug. 11<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	<p>Sir:</p> <p>I have the honor to acknowledge the receipt of a communication of the 11<sup>th</sup> directing that an estimate of the cost of a partition for office, for whitewashing office and making step ladder be obtained and forwarded to C.S.O. In reply I would respectfully state that the cost of the partition, for putting up and painting will be thirty (30) dollars, for whitewashing office four (4) dollars, for making step ladder six (6) dollars.</p> <p>Very Respectfully Your Obd't Servant W.S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<b>Aug. 12 1872</b>	Transmitted to C.S.O.	Forms 4, 4 M. D. report, 19, 21, 24, Form A report of instructions, telegraphic report of river.
<b>Nashville, Tenn., August 18<sup>th</sup>,</b>	Chief Signal Officer U.S.A. Washington, D. C.	<p>Sir:</p> <p>I have the honor to state that the recitation of Private W.C.W.</p>

<b>1872</b>		Shreck for the past week in Popes Telegraphy was fair.  Very Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Aug 19 1872</b>	Transmitted to C.S.O.	Forms 4, 4 M.D. report, 19, 20, 24, some report of instruction. Telegraphic report of river.
<b>Nashville, Tenn., Aug. 20<sup>th</sup> 1872</b>	Chief Signal Office U.S.A. Washington, D. C.	Sir:  I have the honor to state that the carpenters I engaged to make a glass cover for self- registering apparatus for anemometer have been and are unable to make it. It can only be made by those in the show case manufacturing and not for less than \$7.50. I would also state that as yet, no recording papers have been received at the office for the self-register.  Very Respectfully Your Obdt Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Nashville, Tenn., Aug. 25<sup>th</sup> 1872</b>	Chief Signal Office U.S.A. Washington, D. C.	Sir:  I have the honor to state that the recitation of Private W.C.W. Shreck in "Popes Manual of Telegraphy" for the past week was fair.  Very Respectfully Your Obd't Servant W.S. Kaufman Observer Sergeant Signal Service
<b>Aug. 25<sup>th</sup></b>	Transmitted to C.S.A.	Forms 2, 4, 4 M.D. report, 19, 20, 24, and report of instructions for A.
<b>Nashville, Tenn., August 25<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D. C.	Sir:  I have the honor to request that this office be furnished with some franked (?) envelopes for the purpose of furnishing parties outside of the city with information.  Very Respectfully, Your Obdt. servant W.S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Nashville, Tenn., August 28<sup>th</sup>, 1872</b>	Chief Signal Officer U.S.A. Washington, D. C.	Sir:  I have the honor to request that I may be allowed to purchase a pitcher and water pail to use in cleaning the battery of the

		<p>self- Register for Anemometer. Would also state that one of the copper cells of battery was very defective and have had it repaired.</p> <p>Very Respectfully Your Obedt. Servant W.S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<p><b>Nashville, Tenn., August 28<sup>th</sup>, 1972</b></p>	<p>Chief Signal Officer, U.S.A. Washington, D.C.</p>	<p>Sir:</p> <p>I have the honor to make the following complaint of the working of the P and A Tel. Co. of this place, on Sunday (25<sup>th</sup>), the office was closed at 4 p.m. signal time. The manager states that it was forgotten, it being the first Sunday the signals were sent and not being accustomed to have the office open at that hour (4 p.m.) on the Sabbath was the cause of the mentioned neglect.</p> <p>Ever since the circuit commenced on this wire, the reports have been received very irregular and frequently, the p.m. reports too late to be of any benefit after being translated, the number of a.m. reports some from 7 to 10, the p.m. from 8 to 12 while the night reports are sometimes received at the proper time, more frequently on the morning and sometimes not at all.</p> <p>The p.m. report of today (28<sup>th</sup>) was considerably delayed by the following circumstances, a few minutes after I had filed the report in the office, the manager returned it, stating that the wires North were down and that he did not think it worthwhile to send it south to stations 1.2, and 28. I returned the report to him, requesting that it be sent to those stations, it was again a few minutes afterward with the statement that the observer sergeant at Memphis had requested the operator there not to receive the message, that he did not expect to receive any other signals, and it would be no use to take Nashville, Tenn. signal, I again returned the report to the office, stating that I had no knowledge of the observer at Memphis being authorized to use his own discretion in the receipt of weather reports, and that I desired the report to be sent as soon as possible, which request was complied with. It speaks ill of the conduct of the different ones connected with the detention of the report, when I state, that with their lines in the condition they were represented, that there was more reports received this p.m., than there has been since the Circuit commenced and with these lines in good condition.</p> <p>Very Respectfully Your Obedt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>

<b>Sept. 25 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4 Mid-day report 19, 20, 24, and report of instructions. Form A. <i>Rest of sentence illegible.</i>
<b>Nashville, Tenn., August 31, 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir:  I have the honor to report that the recitation of Private W.C.W. Shreck in "Telegraphy" for the past week was fair.  Very Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Nashville, Tenn., Sept. 5<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir:  I have the honor to request a supply of the following articles: Forms 4, 5, 22, 21, Daily bulletin book, daily journal, record of letter sent, Note papers, small envelopes and pens (Falcon pen preferred).  Very Respectfully Your Obd't Servant W. S. Kaufman Observer Sergeant Signal Service U.S. A.
<b>Nashville, Tenn., Sept 8<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D.C.	Sir:  I have the honor to report that the recitation of Private W.C.W. Shreck "in telegraphy" for the past week, was good.  Very Respectfully Your Obd't Servant W.S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Nashville, Tenn., Sept. 8<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A.	Sir:  I have the honor to request information, as to whether the Weather Reports received "timed 9 p.m." are to be noted and counted the same as the regular reports. Would also respectfully call your attention to the numerous errors made at this station by the Operator received the reports. I have as yet been unable to have this fault corrected.  Very Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergeant Signal Servant U.S.A.
<b>Sept. 11<sup>th</sup> 1872</b>	Transmitted to C.S.O.	Forms A, 2, 4, 4 M.D. report, 19, 20, 24, report of instruction, record sheets of anemometer.

<b>Nashville, Tenn., Sept. 13<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir:  I have the honor of stating, in reply to Circular No. 39 that in no instance can I learn that the shipping interest (which is small) of this place has ever been injured by the force of the wind.  Very Respectfully, Your Obd't servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Nashville, Tenn., Sept. 13<sup>th</sup> 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir:  I have the honor of requesting a supply of official envelopes and envelope paper.  Very respectfully Your Obdt servant W. S. Kaufman Observer Sergeant Signal Service
<b>Nashville, Tenn., September 14<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D. C.	Sir:  I have the honor to report that the examination of Private W. C. W. Shreck for the past week in the uses, and manner of making out the various forms was satisfactory.  Very respectfully, Your Obdt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.
<b>Sept. 11<sup>th</sup> 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4 Mid-day report, 19, 20, 24, report of instructions, record sheets of anemometer.
<b>Nashville, Tenn., Sept. 24<sup>th</sup> 1872</b>	Chief Signal Officer U.S.A. Washington, D.C.	Sir;  I have the honor to request that I may be furnished with one bulletin board to place in the reading room of the Nashville, Tenn. Library, the one that has been in use there for the past five months was paid for by myself (payment for it having been refused at the C.S.O.) and as I have other use to which I wish to put it, I shall remove it, but will after so doing until furnished with another to replace it if that be done in a reasonable time.  Very Respectfully Your Obd't Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.

<p><b>Nashville, Tenn., Sept. 21<sup>st</sup> 1872</b></p>	<p>Chief Signal Officer U.S.A. Washington, D.C.</p>	<p>Sir:</p> <p>I have the honor of enclosing herewith the application of Private W.C.W. Shreck for examination for Observer Sergeant Signal Service U.S.A.</p> <p>It affords me pleasure to state that Private Shreck has passed through the course of studies prescribed for assistant observers in a satisfactory manner; that he has been attentive and zealous in the performance of his duties, and that his official deportment and gentlemanly conduct have met the approbation of all with whom he has been brought in contact, gaining many friends both for himself and the service, of which he is a deserving member.</p> <p>I cheerfully recommend him for promotion and wish him every success in obtaining it.</p> <p>I respectfully call your attention to the Physicians Certificate accompanying the application and would state that Private Shreck has not been in good health for some time, past. I think a change of climate would be of material benefit to him.</p> <p>Very Respectfully Your Obedient servant W. S. Kaufman</p>
<p><b>Nashville, Tenn., Sept. 21<sup>st</sup> 1872</b></p>	<p>Chief Signal Officer U.S.A. Washington, D.C.</p>	<p>Sir:</p> <p>I have the honor to report that in a general review of the course of studies prescribed for Asst. Observer, Private Shreck passed a very fair examination.</p> <p>Very Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergeant, Signal Service U.S.A.</p>
<p><b>Nashville, Tenn., Sept. 22<sup>nd</sup> 1872</b></p>	<p>Transmitted to C.S.O.</p>	<p>Forms 2, 4, 4 M.D. report, 19, 20, 24, A. Report of Instructions and record sheets of anemometer.</p>
<p><b>Nashville, Tenn., September 22<sup>nd</sup>, 1872</b></p>	<p>Chief Signal Officer U.S.A. Washington, D.C.</p>	<p>Sir:</p> <p>I have the honor to state in answer to Circular No. 39 that in the memory of the oldest steam boat Captain on the Cumberland River, there has never a wind of sufficient force to do any damage to the shipping at this city, that the direction of the wind which might cause damage, is from the North West., and that owing to the high banks of the river, and the manner in which it is sheltered, it would require a wind of from 70 to 80 miles an hour velocity to do any damage.</p>

		<p>Very respectfully Your obdt. servant W.S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<p><b>Nashville, Tenn., September 22<sup>nd</sup> 1872</b></p>	<p>Chief Signal Officer, U.S.A. Washington, D. C.</p>	<p>Sir;</p> <p>I have the honor to acknowledge the receipt of your communication of the 17th which authorizes me to purchase a table, as I have never made a requisition for a table, and not needing one, I am at a loss to know why I am authorized to purchase what is not needed.</p> <p>On July 3<sup>rd</sup> at the suggestion of Lt. Smith Inspecting Officer, I asked for authority, among other things, to have an office case fixed up with doors. I again respectfully ask it.</p> <p>Very Respectfully Your Obdt. Servant W. S. Kaufman Observer Sergeant Signal Service U.S.A.</p>
<p><b>Nashville, Tenn., September 29<sup>th</sup> 1872</b></p>	<p>Chief Signal Officer U.S.A. Washington D.C.</p>	<p>Sir;</p> <p>I have the honor to report that the recitation of Private W. C. W. Shreck for the past week, in a general review of his studies, was good.</p> <p>Very Respectfully Your Obdt. Servant W.S. Kaufman Observer Sergeant, Signal Service U.S.A.</p>
<p><b>Sept. 31, 1872</b></p>	<p>Transmitted to C.S.O.</p>	<p>Forms 2, 4, 4 M.D. report, 19, 20, 24, A, record sheets of anemometer and report of instructions.</p>
<p><b>Nashville, Tenn., Oct. 2<sup>nd</sup> 1872</b></p>	<p>Chief Signal Officer U.S.A. Washington, D.C.</p>	<p>Sir;</p> <p>I have the honor to request a supply of record sheets for self-register of anemometer.</p> <p>Very respectfully Your obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.</p>
<p><b>Nashville, Tenn., Oct. 1, 1872</b></p>	<p>Chief Signal Corps Officer, U.S.A. Washington, DC</p>	<p>Sir;</p> <p>I have the honor to report that the recitation of Private W.C. Shreck for the past week, in a general review of the course of prescribed studies was good.</p> <p>Very respectfully Your obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.</p>

<b>Oct. 7<sup>th</sup> 1872</b>	Transmitted to C.S.O.	Forms 2.4.4 Midday reports 19.20.24, Report of instruction form A. Record sheets of anemometer – weekly- forms 11.22.22B. and abstract of journals. Original record of observations. Bulletin book – monthly- sem-iannual report.
<b>Oct. 14<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2.4.4 M.D. report 19.20.24.
<b>Nashville, Tenn., Oct 20<sup>th</sup>, 1872</b>	Chief Signal Officer Washington D.C.	Sir,  I have the honor to request a supply of the following articles forms 4. 5. 19. 20. 22B. 24. 21. Abstract of contingencies, receipt rolls of established men, vouchers for pay proper.  Very respectfully Your Obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Oct. 20<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2.4.4. M.D. reports 19, 22, 20 24, and Record sheets on anemometer.
<b>Nashville, Tenn., Oct. 27<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A.	Sir,  I have the honor to request that I be given authority to have the bottom part of river gauges repainted, the action of the water having nearly obliterated the figures. Also to purchase a washstand for \$2.75 it being impossible to get one for the amount allowed by the instruction book to observe sergeants.  Very respectfully Your obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Oct. 28<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4 midday report 19, 20, 22, record sheets o anemometer.
<b>Nashville, Tenn., Nov 1<sup>st</sup>, 1872</b>	Chief Signal Officer, U.S.A., Washington, D.C.	Sir,  I have the honor to request that permission be given me to exchange the stove that is now in this office for a smaller one. It is too large and consumes a great deal more coal than necessary the saving of which will far more than repay the small additional amount required to exchange one old stove for a new one.  Very respectfully Your Obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.



<b>Nov 4<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4, midday report 19, 20, 24 record sheets of anemometer. Forms 11, 22, 22b abstract of journal and record of observations
<b>Nov 10<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4 midday report 19, 20, 24 record sheets of anemometer.
<b>Nashville, Tenn., Nov. 11<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A., Washington, D.C.	Sir,  I have the honor to state in answer to your communication of Oct. 31 directing that an estimate be given of the cost of painting the lower portion of River Gauge, that the painting will cost Ten (10) dollars, the large amount being caused by the difficulty of getting at the work, it requiring a boat and extra men.  Very respectfully Your obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn., Nov. 11<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A., Washington, D.C.	Sir,  I have the honor to request a supply of circuit blank for use of Telegraph Co., also form 3. Blotting paper, letter paper.  Very respectfully Your Obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Nov. 17<sup>th</sup> and 24<sup>th</sup></b>	Transmitted to C.S.O.	Forms 2, 4, 4 midday report. 19, 20, 24. Record sheets of anemometer.
<b>Nashville, Tenn., Nov. 31<sup>st</sup>, 1872</b>	Chief Signal Officer, U.S.A., Washington, D.C.	Sir,  I have the honor to acknowledge your communication of 27 <sup>th</sup> desiring a report upon the qualifications of my Asst., Private Shreck as a candidate for promotion to the grade of Sergeant. I would respectfully state in reply that Private Shreck has gone through the course of studies prescribed for Asst. Observers in a creditable manner, that he has performed all the duties assigned him satisfactorily, that his deportment has always been correct and gentlemanly making both for himself and the service many friends, and that if he is promoted he will make an useful and efficient observer.  Very respectfully Your obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.

<b>Dec. 2<sup>nd</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4, M.D. report 19, 24, 24 record sheets of anemometer. Dec 3 <sup>rd</sup> forms 11, 22, 22B abstract of journal or record of observation.
<b>Dec 9<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4, M.D. R. 19, 20, 22 record sheets of anemometer.
<b>Nashville, Tenn., Dec. 4<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A., Washington, D.C.	Sir,  I have the honor to state that he condemned property of this office has been disposed of in the manner directed in your communication of the 21 <sup>st</sup> Nov.  Very respectfully W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn., Dec. 14<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A., Washington, D.C.	Sir,  I have the honor to request a supply of the following articles, Bulletin Book or Record of Observations, Letter Paper, Penrack (?), Forms 4, 3 Zines, Sulphate of Copper.  Very respectfully Your Obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.,
<b>Dec. 11<sup>th</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4 M.D. Report 19, 211, 24 Record sheets of Anemometer.
<b>Nashville, Tenn., Dec 21<sup>st</sup>, 1872</b>	Chief Signal Officer, Washington, D.C.	Sir,  I have the honor to report that the recitation of Private T.C. Taylor in "Myers Manual of Signaling" for the past week was good.  Very respectfully Your obdt. servant W.S. Kaufman Ob. Sergt. Signal Service, U.S.A.
<b>Dec. 23<sup>rd</sup>, 1872</b>	Transmitted to C.S.O.	Forms 2, 4, 4 M.D. Report 19, 20, 24 Record sheets of Anemometer and report of instructions.
<b>Nashville, Tenn., Dec 26<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir,  I have the honor of enclosing herewith "Forms 5" for Dec. 4 <sup>th</sup> the originals of which were forwarded to the C.S.O. on the morning of Dec. 5 <sup>th</sup> as usual by mail.  Very respectfully Your obdt. servant W.S. Kaufman

		Ob. Sergt. Signal Service, U.S.A.
<b>Nashville, Tenn., Dec. 28<sup>th</sup>, 1872</b>	Chief Signal Officer, U.S.A. Washington, D.C.	Sir:  I have the honor to report that the recitation of Private T.C. Taylor, for the past week, in "Myer's Manual of Signals" was good.  Very Respectfully Your Obd't Servant W.S. Kaufman Ob. Sergt. Signal Service U.S.A.